

Design Review
PROVINCIAL TEACHER TRAINING COLLEGE
drawings dated April 12, 2010
WO-A-0029

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Comment #	Reviewer	Reference	Comment	Response Code	Response	Back-Check
ARCHITECTURAL DRAWING COMMENTS - ACADEMY BUILDING						
A-1	NMA	A-101.1	Is this building supposed to be accessible? IBC requirement?			
A-2	NMA	A-102.1	All exterior steps and landings may require railing by IBC.			
A-3	NMA	A-102.2	Check dead-end corridors not to exceed IBC limitation.			
A-4	NMA	A-102.3	Check open spaces between two buildings to conform IBC limitation.			
A-5	NMA	A-102.4	Where is the elevator machine room? Is this hydraulic?			
A-6	NMA	A-102.5	Only one handicap ramp is needed.			
A-7	NMA	A-103.1	Number of toilet fixtures may not meet IPC requirements.			
A-8	NMA	A-104 & 105.1	Suggest to provide privacy partitions at toilet rooms.			
A-9	NMA	A-106.1	Label downspouts and gutters.			
A-10	NMA	A-106.2	Check distance between two roofs for IBC compliance.			
A-11	NMA	A-201.1	Do not show trees for working drawing elevations.			
A-12	NMA	A-201.2	Key in all window types and door types on elevations.			
A-13	NMA	A-201.3	Label all gutters and downspouts.			
A-14	NMA	A-201.4	Show footings and foundations in dashed lines.			
A-15	NMA	A-201.5	Check location of stair railing at end stairways. Railing needs to be at landing. Ref. Dwg. 03 and 04			
A-16	NMA	A-301.1	Call for interior finishing and types.			
A-17	NMA	A-406.1	Where are fire extinguishers on the floor plan?			
A-18	NMA	A-407.1	Roof access not shown on floor plans and roof plans			
A-19	NMA	A-409.1	How is Batt insulation holding down at detail 02?			
A-20	NMA	A-501.1	Suggest using solid reinforced concrete walls, 25-30 cm thick, in lieu of CMU for foundations. Check the size of the footing, seems too big.			
A-21	NMA	A-601.1	Door schedule: Suggest listing every single door separately with door location, swing, type, size, and etc. Suggest same for the Door Hardware and include hardware schedule.			

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ARCHITECTURAL DRAWING COMMENTS - DORMATORY BUILDING						
A-1	NMA	A-101.1	Is this building supposed to be accessible?			
A-2	NMA	A-102.1	All exterior steps and landings may require railing by IBC.			
A-3	NMA	A-102.2	No need to show landscaping trees on Arch. Dwgs.			
A-4	NMA	A-102.3	Check if the exterior stairways meet code. Seems that there is limitation on how many steps you can provide before a landing.			
A-5	NMA	A-102.4	Is there access to second floor for HC. IBC requirement.			
A-6	NMA	A-102.5	Suggest to cover the exterior stairways for rain and snow.			
A-7	NMA	A-103.1	Suggest providing a privacy screen partition at toilets rooms.			
A-8	NMA	A-201.1	Label downspouts and gutters.			
A-9	NMA	A-201.2	Key in all window types and door types on elevations.			
A-10	NMA	A-201.3	Show footings and foundations in dashed lines.			
A-11	NMA	A-301.1	Call for interior finishing and types.			
A-12	NMA	A-406.1	Where are fire extinguishers on the floor plan?			
A-13	NMA	A-407.1	Roof access not shown on floor plans and roof plans			
A-14	NMA	A-409.1	How is Batt insulation is holding down at detail 02?			
A-15	NMA	A-501.1	Suggest using solid reinforced concrete walls, 25-30 cm thick, in lieu of CMU for foundations. Check the size of the footing, seems too big.			
A-16	NMA	A-601.1	Door schedule: Suggest listing every single door separately with door location, swing, type, size, and etc. Suggest same for the Door Hardware and include hardware schedule.			

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ARCHITECTURAL DRAWING COMMENTS - KITCHEN						
A-1	NMA	A-101.1	All exterior steps and landings may require railing by IBC.			
A-2	NMA	A-101.2	Male and Female entrances to dining rooms are off of toilets rooms. Suggest to separate the spaces.			
A-3	NMA	A-101.3	Why two separate dishwashing rooms? Can be one.			
A-4	NMA	A-101.4	Why ablution area for male but not for female?			
A-5	NMA	A-101.5	Handicap ramp may not meet code. At landing conflict with door swing and not sufficient space for wheelchair.			
A-6	NMA	A-101.6	Number of toilet fixtures may not meet code requirements.			
A-7	NMA	A-101.7	Kitchen sinks are too close to door. One is behind door.			
A-8	NMA	A-102.1	Label downspouts and gutters.			
A-9	NMA	A-102.2	Is there a Vent Pipe on the roof? Reference detail 05/A410.			
A-10	NMA	A-103.1	Check IBC if you need railing for steps and landings.			
A-11	NMA	A-103.2	Key in all window types and door types on elevations.			
A-12	NMA	A-103.3	Label on gutters and downspouts.			
A-13	NMA	A-103.4	Show footing and foundations in dashed lines.			
A-14	NMA	A-103.5	Call for exterior finishes and types.			
A-15	NMA	A-104.1	See comments A-103.1 to A-103.6			
A-16	NMA	A-105.1	Drawings need more information. Indicate material finishes, interior wall finishes, roof and ceiling finishes, etc.			
A-17	NMA	A-401.1	HC toilet has no sink. Is one of the sinks in the lobby HC accessible? Please indicate.			
A-18	NMA	A-402.1	What is the shower tray made of?			
A-19	NMA	A-405.1	Show door swings on floor plan 01. Check code for accessibility requirement.			
A-20	NMA	A-406.1	Where is drinking fountain located in the building? Where is Fire Extinguisher located in the building?			
A-21	NMA	A-407.1	How is the roof access door sealed. Leaking problem. Where are the fire hose and fire extinguisher located.			
A-22	NMA	A-408.1	Show a detail of the EIFS and the base stone tile.			
A-23	NMA	A-409.1	How is Batt insulation holding down at detail 02?			
A-24	NMA	A-410.1	Detail 05, where is the Vent Pipe on the roof plan?			
A-25	NMA	A-502.1	Check the size of the footing? It seems too big for this building.			
A-26	NMA	A-503.1	Suggest using reinforced concrete foundation in lieu of CMU.			
A-27	NMA	A-601.1	Door schedule: Suggest listing every single door separately with door location, swing, type, size, and etc. Suggest same for the Door Hardware and include hardware schedule.			
A-28	NMA	A-602.1	Detail 06: Specify panic bar hardware? Detail 04: Indicate use of threshold on door schedule.			
A-29	NMA	A-603.1	Recommend use of screen for all windows.			

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ARCHITECTURAL DRAWING COMMENTS - PRAYER BUILDING						
A-1	NMA	A-106.1	Width of concrete footing seems too big, 1.9 m. Suggest checking with a structural engineer. This size building shall not require more than 60-80 cm wide footing..			
A-2	NMA	A-106.2	Suggest using solid reinforced concrete walls, 25-30 cm thick, in lieu of CMU for foundations.			
A-3	NMA	A-106.3	Suggest adding a vestibule and shoe storage room before entering the pray hall.			
A-4	NMA	A-106.4	Roof access shown on plan but not on roof plan? Why need roof access? It is a one story structure.			
A-5	NMA	A-106.5	Roof plan is wrong. Needs roof valleys and roof ridge at portion of roof projected out.			
A-6	NMA	A-107.1	Show footing and foundations in dashed lines. Roof configurations is wrong. Gutter on column line 1 falls on HC ramp. Label window types.			

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ARCHITECTURAL DRAWING COMMENTS - GUARD HOUSE						
A-1	NMA	A-108.1	Roof access shown on plan but not on roof plan?			
A-2	NMA	A-108.2	Suggest using eastern style toilet fixture. What are the two circles in the Guard House plan. Do not show furniture.			
A-3	NMA	A-109.1	Always show building foundations and footings in dashed lines. Always label windows and doors.			
A-4	NMA	A-110.1	Suggest using solid reinforced concrete walls, 25-30 cm thick, in lieu of CMU for foundations.			

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ARCHITECTURAL DRAWING COMMENTS - GENERATOR ROOM						
A-1	NMA	A-111.1	Is this a Generator Room? Please label the drawings.			
A-2	NMA	A-111.2	What is the roof structure? Needs more detail.			
A-3	NMA	A-112.1	Show generator exhaust pipe. Add more notes and details.			

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CIVIL DRAWING COMMENTS						
C-1	CTJ	General	There are no Civil drawings included in the plan set, therefore a review cannot be completed.			

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STRUCTURAL COMMENTS - ACADEMY BUILDING						
S1	RPB	S001	Note C1 refers to the Geotechnical Report, which was not available to the reviewer. Please verify that the allowable soil bearing pressure, the seismic site class and the seismic factors Ss and S1 conform to the Geotechnical Report.			
S2	RPB	S001	Section F. Structural Steel. Add a note for field welding, that certified welders, non-destructive testing (NDT) and certified welding inspectors are required.			
S3	RPB	S101	The CMU wall running from grid C to D, between grids 3 & 4, is not located. Please add dimensions.			
S4	RPB	S102	The CMU wall running from grid C to D, between grids 3 & 4, is not located. Please add dimensions.			
S5	RPB	S102	Add a legend to the plan, indicating the symbols used for concrete walls and CMU walls.			
S6	RPB	S105	Sections 02 & 03 are missing line work at the bottom of the foundation. Please correct these sections.			
S7	RPB	S108	In Section 01, the section cut for 02 shows S124 for the location. It should be S108.			
S8	RPB	S109	Details 02 & 03 refer to S109 for the lintel reinforcement schedule. It should be S110.			
S9	RPB	S111	The Detail at Grid 2 (right hand side) is called 01 in the title. It should be 02. Coordinate with S102.			
S10	RPB	S111	At grid 2, the top of the wall is shown as 163cm, and the bottom is 164cm. Please coordinate the dimensions.			
S11	RPB	S112	At Sections 03 & 04, coordinate dimensions at top and bottom of the walls.			
S12	RPB	S113	Check top & bottom wall dimensions.			
S13	RPB	S117	This wall is CMU with concrete bond beams, but appears to be all concrete. Please clarify locations of CMU and concrete.			
S14	RPB	S120	Details 01 & 02 show as concrete walls, but S102 shows CMU. Clarify CMU locations. Fix the reinforcement call outs and leader arrows at the bottoms of the walls.			
S15	RPB	S121	The details at the bottoms of the walls show CMU, but call out concrete walls and reinforcement. Please clarify.			
S16	RPB	S122	Is this a concrete wall or CMU. Please clarify.			
S17	RPB	S123	Detail 01 is not shown on S102. Please coordinate. What are the 85 x 30 concrete beams shown on Grids 5 & 6? Show additional details to clarify.			
S18	RPB	S124	The bay at grids A to B and 5 to 6, appears to be open but Section 02/S107 shows a slab in this area. Please coordinate. Show the stairs in this area and refer to S134 for the main stair, here and on S102.			

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S19	RPB	S124	No slab openings or chases are shown for MEP piping and conduit. Please add a note to coordinate with other trades.			
S20	RPB	S124	Show slab thickness and span call outs, similar to the Dormitory Building.			
S21	RPB	S126	The roof deck is shown as "1.5B20". Is this 1 1/2" type B, 20 gage deck? This should be spelled out in greater detail here or on the General Notes. Drawing S132 shows the deck as "20 gage Vulcraft 1.5A" Please coordinate.			
S22	RPB	S126	Section 02/S127 shows a braced row but on plan is cut at an unbraced row. Please relocate the section cut to a braced row.			
S23	RPB	S127	The calculations only consider uniform loads for the 6" roof slab design. Verify the slab can carry point loads and line loads from the steel roof framing.			
S24	RPB	S128	No height is shown for the upset beams. Please clarify.			
S25	RPB	S128a	At Plan 01, provide diagonal valley beams to support the deck at the intersections of the roofs. Show valley beam support details. Please coordinate the roof line with Architectural Section 04/A201.			
S26	RPB	S128a	In Section 02, no dimensions or reinforcement are shown for the upset beam. Does this beam extend above the roof deck? Please show additional detail for extent and location of this beam.			
S27	RPB	S128a	In Sections 03, the length and location of the Cchannel 200x70 and the stiffener plate from Section 02, is not clear. Is this a sliding connection across the seismic joint? Show additional details to clarify.			
S28	RPB	S130	In Sections 02 & 06, the welding for the clip angles to the IPE 200 beam and the HSS 100 post, are not clear. Coordinate which are shop welds and which are field welds.			
S29	RPB	S130	Section 03 shows a 4 fillet weld all around at the 10x100 continuous plate. Please clarify this weld or remove it.			
S30	RPB	S132	See S126 roof deck comment. Coordinate deck.			
S31	RPB	S134	In section 02, the top grid numbers are cut off. Please fix the view port.			
S32	RPB	S135	In Section 03, the grid number is cut off. Please fix the view.			
S33	RPB	S135	The locations of these escape stairs are not clear. Please show them on plans S102 and S124. Is the intermediate landing supported by the side walls? If not, how is the landing supported? Please clarify.			

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STRUCTURAL COMMENTS - DORMATORY BUILDING						
S1	RPB	S001	Note C1 refers to the Geotechnical Report, which was not available to the reviewer. Please verify that the allowable soil bearing pressure, the seismic site class and the seismic factors Ss and S1 conform to the Geotechnical Report.			
S2	RPB	S001	Note B Design Criteria shows Occupancy Category = III. The calculations use Category II & importance factor I =1. Please coordinate.			
S3	RPB	S101	Add a legend to the plan, indicating the symbols used for concrete walls and CMU walls.			
S4	RPB	S101	Along Grid D, 4 to 6, a concrete grade beam is shown. A note calls out "concrete (S110), but is not shown there. Please coordinate. Is this a ramp? Add sections to clarify.			
S5	RPB	S102	Add a legend to the plan, indicating the symbols used for concrete walls and CMU walls.			
S6	RPB	S102	At Grid 9, A to B, a section cut shows 03/S103. It should be 02/S103.			
S7	RPB	S105	Section 03 is not called out on the plans. The plans should show the extent of the slab depressions. Clarify line work for the top bars.			
S8	RPB	S105	At the stair details, change "runes" to "treads" to be consistent with the other stairs. Typical for S106 & S107.			
S9	RPB	S106	At Sections 01 & 02, the riser note shows top riser @ 10. It should say bottom riser.			
S10	RPB	S107	Please cut Section 01/S107 on plan S110 for clarity.			
S11	RPB	S107	At Grid C, the interior note for the 0.4mm membrane is mislocated. Please fix or remove.			
S12	RPB	S108	At Section 02, roof slab, fix the note for the lintel shear ties.			
S13	RPB	S109a	If directions North, South and West are used in the section titles, then a North Arrow should be shown on the plans.			
S14	RPB	S109a	Show additional reinforcing, 2-14 dia. Bars at both ends of walls, typical.			
S15	RPB	S110	No slab openings or chases are shown for MEP piping and conduit. Add a note to coordinate openings with other trades. Add typical details for additional reinforcing around openings, if required, maximum opening size and minimum spacing.			
S16	RPB	S112 & S113	The plans show "1.5B20 steel deck" Drawing S117 shows "20 gage Vulcraft 1.5A". Coordinate roof deck and add to General Notes.			
S17	RPB	S113	At Section 02, add the Section 04/S115 call out at the bottom of the center post.			

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S18	RPB	S114	At Section 01, the HSS 100x100 post spacing does not match Section 02 and plan dimensions on S112. Please coordinate the post spacing.			
S19	RPB	S115	In Sections 02 & 05, the welding for the clip angles to the IPE 200 beam and the HSS 100 post, are not clear. Coordinate which are shop welds and which are field welds.			
S20	RPB	S117	See S112 for roof deck comment. Coordinate the roof deck.			
S21	RPB	S118	The sections indicate a diagonal concrete stair beam in the plane of the wall at Grids 1 & 11. Is the CMU cut to fit above and below the beam? Is it continuous thru the concrete bond beams? Is there another diagonal beam on the outboard side of the stairs? Please add details to clarify.			

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STRUCTURAL COMMENTS - KITCHEN						
S1	RPB	S001	Note C1 refers to the Geotechnical Report, which was not available to the reviewer. Please verify that the allowable soil bearing pressure, the seismic site class and the seismic factors Ss and S1 conform to the Geotechnical Report.			
S2	RPB	S001	Note B Design Criteria shows Occupancy Category = III. The calculations use Category II & importance factor I =1. Please coordinate.			
S3	RPB	S101	At Grid 3, B to C, the stair detail note refers to 03/S104. It should say 03/S106.			
S4	RPB	S103	Add a section cut, 01/S111 for the transverse roof section.			
S5	RPB	S111	In Section 01, at the ridge beam, the detail call out is cut off. Please fix the view port.			
S6	RPB	S111	In Section 01, at the eave overhang, add a detail call out 03/S108.			
S7	RPB	S111	In Sections 03 & 04, the welding for the clip angles to the IPE 200 beam and the HSS 100 post, are not clear. Coordinate which are shop welds and which are field welds.			
S8	RPB	S111	In Section 01, at the eave overhang, the connection of the roof deck is not clear. Coordinate with Architectural Detail 02/A409. This shows a continuous angle at the edge of the roof slab. Show the connection of the angle to the roof slab and roof deck. This comment is typical for all buildings except the Guard House.			
S9	RPB	S112	Section 01 shows the height of the upset beam as 44cm above the top of slab. Change this to 45cm, to match 02/S108 and the calculations. (30X60 beams)			
S10	RPB	S113	Label the wall elevation as "Typical CMU Wall with Window Opening".			
S11	RPB	S114	Label the wall elevation as "Typical CMU Wall at Door".			
S12	RPB	S114	At the Typical Interior Lintel Detail, the reinforcing note refers to S109 for the reinforcement schedule. It should be S113.			

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STRUCTURAL COMMENTS - PRAYER BUILDING						
S1	RPB	S107	Above Grid A, the stair detail note refers to 03/S104. It should be 03/S106.			

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STRUCTURAL COMMENTS - GUARD HOUSE						
S1	RPB	S109	In Section 04, the ridge beam detail call out refers to 03/S111. It should be 04/S111.			

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STRUCTURAL COMMENTS - GENERATOR ROOM						
S1	RPB	S109	At 02 Foundation Plan (Generator House), add a note to the generator pad, "See 04/S110".			
S2	RPB	S110	Section 01 and Plan 03, show the roof purlins as 100x50x2.5 box sections, but roof section 02 shows them as 100x45x2.5 Cchannels. Please coordinate the purlin size.			
S3	RPB	S110	In Section 02, the connection of the roof truss to the CMU walls is not clear. Show additional information for the size of the bearing plate and anchor bolts. Show connection details for the truss gusset plate to the bearing plate.			

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MECHANICAL COMMENTS - ACADEMY BUILDING						
M-1	RLB	M001	Provide design interlock requirement within Exhaust Fan Schedule (EF), or remove Interlock With column from schedule			
M-2	RLB	M001	Consider removing EF-06 from Exhaust Fan Schedule (EF) as this fan is not used in this package			
M-3	RLB	M001	Consider including performance criteria for CF-1 and CF-2 (fan RPM/airflow rates) within Ceiling Fan Schedule (CF)			
M-4	RLB	M001	Within exhaust fan Notes, motorized dampers and manual dampers are both required. Confirm that is the actual design intent, or perhaps remove the requirement calling for motorized dampers.			
M-5	RLB	M001	Consider adding a manual override requirement to the thermostatically controlled exhaust fan, so that ventilation can be provided during times that the thermostat set point is satisfied.			
M-6	RLB	M001	02 Detail A: Provide size for expandable epoxy bolt required to support the anticipated weight of ceiling fan.			
M-7	RLB	M001	03 Detail B: Identify the attachment hardware located between the J-hook and the expandable epoxy bolt.			
M-8	RLB	M001	04 Detail C: Identify the fan blades in this detail.			
M-9	RLB	M001	Remove note regarding 9000 CMH hood and makeup air from Exhaust Fan Schedule (EF) as EF-6 is not used in this package.			
M-10	RLB	M001	Confirm that transfer air louvers shown in doors are required for all interior and exterior doors.			
M-11	RLB	M101	Confirm that the minimum required ventilation rate of 0.05cfm/square foot (0.91 cmh/square meter) is provided for the corridor, as per International Mechanical Code 2009.			
M-12	RLB	M101	Provide mechanical ventilation to Secretary 122 as this is an internal space not having operable windows.			
M-13	RLB	M101	Confirm how makeup air is provided to Chemistry Lab 135 during times that the windows are closed?			
M-14	RLB	M101	Confirm makeup air pathway into building during times that windows are closed and all exhaust fans are enabled?			
M-15	RLB	M102	Confirm that the minimum required ventilation rate of 0.05cfm/square foot (0.91 cmh/square meter) is provided for the corridor, as per International Mechanical Code 2009.			
M-16	RLB	M102	Confirm makeup air pathway into building during times that windows are closed and all exhaust fans are enabled?			

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MECHANICAL COMMENTS - DORMATORY BUILDING						
M-1	RLB	M001	Consider removing EF-02, EF-03, EF-05, and EF-06 from Exhaust Fan Schedule (EF) as these fans are not used in this package.			
M-2	RLB	M001	Provide design interlock requirement within Exhaust Fan Schedule (EF), or remove Interlock With column from schedule			
M-3	RLB	M001	Remove note regarding 9000 CMH hood and makeup air from Exhaust Fan Schedule (EF) as EF-6 is not used in this package.			
M-4	RLB	M001	Consider including performance criteria for CF-1 and CF-2 (fan RPM/airflow rates) within Ceiling Fan Schedule (CF)			
M-5	RLB	M001	Within exhaust fan Notes, motorized dampers and manual dampers are both required. Confirm that is the actual design intent, or perhaps remove the requirement calling for motorized dampers.			
M-6	RLB	M001	Consider adding a manual override requirement to the thermostatically controlled exhaust fan, so that ventilation can be provided during times that the thermostat set point is satisfied.			
M-7	RLB	M001	02 Detail A: Provide size for expandable epoxy bolt required to support the anticipated weight of ceiling fan.			
M-8	RLB	M001	03 Detail B: Identify the attachment hardware located between the J-hook and the expandable epoxy bolt.			
M-9	RLB	M001	04 Detail C: Identify the fan blades in this detail.			
M-10	RLB	M001	Confirm that transfer air louvers shown in doors are required for all interior and exterior doors.			
M-11	RLB	M101	Based on numbers of water closets within Toilet 220, recommend ventilation be increased to 450cfm (765cmh) in accordance with International Mechanical Code 2009.			
M-12	RLB	M101	Confirm makeup air pathway into building during times that windows are closed and all exhaust fans are enabled?			

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MECHANICAL COMMENTS - KITCHEN						
M-1	RLB	M001	Provide design interlock requirement within Exhaust Fan Schedule (EF), or remove Interlock With column from schedule			
M-2	RLB	M001	Revise the Service column for EF-05 to read Generator instead of Chemistry Lab Hood			
M-3	RLB	M001	Consider including performance criteria for CF-1 and CF-2 (fan RPM/airflow rates) within Ceiling Fan Schedule (CF)			
M-4	RLB	M001	Consider adding a manual override requirement to the thermostatically controlled exhaust fan, so that ventilation can be provided during times that the thermostat set point is satisfied.			
M-5	RLB	M001	Confirm that transfer air louvers shown in doors are required for all interior and exterior doors.			
M-6	RLB	M001	Within exhaust fan Notes, motorized dampers and manual dampers are both required. Confirm that is the actual design intent, or perhaps remove the requirement calling for motorized dampers.			
M-7	RLB	M001	02 Detail A: Provide size for expandable epoxy bolt required to support the anticipated weight of ceiling fan.			
M-8	RLB	M001	03 Detail B: Identify the attachment hardware located between the J-hook and the expandable epoxy bolt.			
M-9	RLB	M001	04 Detail C: Identify the fan blades in this detail.			
M-10	RLB	M101	Provide mechanical ventilation to Dishes Drop Off 122, as this is an internal space without operable windows.			
M-11	RLB	M101	Provide exhaust to Shower 110 in accordance with International Mechanical Code 2009.			
M-12	RLB	M101	Confirm that door undercuts are acceptable in providing for the makeup air requirements of Kitchen 111, or consider using a makeup air unit to provide air to this space?			
M-13	RLB	M101	Recommend increasing exhaust in Female Dining Room 102 to 960cfm (1631cmh) from 590cfm (1002cmh), per International Mechanical Code 2009.			
M-14	RLB	M101	Recommend increasing exhaust in Male Dining Room 103 to 1000cfm (1699) from 590cfm (1002), per International Mechanical Code 2009.			
M-15	RLB	M201	02 Section View- Kitchen Hood: a reference is made to local code requirements. Confirm that local code requirements concur with International Mechanical Code 2009.			
M-16	RLB	M201	01 Hood Plan: Hood detail shows connection for makeup air. It appear that a separate makeup air unit may be necessary for proper operation.			

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MECHANICAL COMMENTS - PRAYER BUILDING						
M-1	RLB	M102	No Comment.			

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MECHANICAL COMMENTS - GENERATOR ROOM						
M-1	RLB	M102	Recommend mechanical cooling be provided to Electrical Room 102 to maintain interior temperatures and improve the reliability of electrical equipment located here.			
M-2	RLB	M102	Cannot comment on the ventilation provided to the Generator Room 101, as specifics relating to the generator and its expected heat release during operation have not been provided.			
M-3	RLB	M102	Include a control sequence required for operation of louvers and exhaust fans at the generator room, and description of how these items interlock with generator operation.			
M-4	RLB	M202	02 Generator Room Section: confirm if generator exhaust is required to be provided with sound attenuating muffler and condensate drain pipe?			

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MECHANICAL COMMENTS - GUARD HOUSE						
M-1	RLB	M102	Recommend increasing exhaust provided to Shower 103 to 125cfm (212cmh), per International Mechanical Code 2009.			

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PLUMBING COMMENTS - ACADEMY BUILDING						
P-1	DCG	P001	Remove Propane Gas notes... none in this facility			
P-2	DCG	P001	General Note 12: Clarify what the intent of this note is.			
P-3	DCG	P001	General Note 17: Shouldn't this say something about Mecca vs North/south?			
P-4	DCG	P101	Indicate North and/or Mecca Arrow			
P-5	DCG	P101	Identify valve locations			
P-6	DCG	P101	Detail 1, fix detail bubble so its visible.			
P-7	DCG	P101	Detail 3, hot water not requested at lavatories?			
P-8	DCG	P101	Detail 4, size of water to water closet			
P-9	DCG	P101	Offset piping so its not directly on wall for clarity			
P-10	DCG	P101	Is water piping in ceiling or buried in building?			
P-11	DCG	P101	Detail 4, does the water line run exposed in Pantry?			
P-12	DCG	P102	Indicate North and/or Mecca Arrow			
P-13	DCG	P102	Detail 2, hot water at any lavatories?			
P-14	DCG	P102	Turn off detail bubbles referring to A sheets			
P-15	DCG	P102	C. Closet, 20 CW from down doesn't continue on floor below			
P-16	DCG	P102	Size of water to drinking fountains			
P-17	DCG	P103	Detail 1 and 3, water connections on bottom of tanks??			
P-18	DCG	P103	At water heaters, show unions at connection to units.			
P-19	DCG	P103	Detail 2, at WHA, there is no such fitting with 4 pipe connections. Correct schematic.			
P-20	DCG	P103	Detail 3, right side, what does MP stand for? Not on P001			
P-21	DCG	P103	Identify what BAV stand for? Not on P001			
P-22	DCG	P104	FCO need clearance as identified in IPC (International Plumbing Code) 708.8			
P-23	DCG	P104	Pipes rising up... are they exposed within Handicapped toilet room? Confirm location of piping			
P-24	DCG	P104	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed			
P-25	DCG	P104	Pipes rising up... are they exposed within Male and Female toilet room? Confirm location of piping			
P-26	DCG	P104	Detail 3, turn off detail bubbles referring to A sheets			
P-27	DCG	P104	Detail 4, provide venting on fixtures in Director Office toilet room			
P-28	DCG	P104	Detail 4, Pantry, provide vent on sink/floor drain.			
P-29	DCG	P104	Toilet off classroom, provide vent on lavatory and water closet.			
P-30	DCG	P105	Indicate North and/or Mecca Arrow			
P-31	DCG	P105	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed.			
P-32	DCG	P105	Detail 2, turn off detail bubbles referring to A sheets			
P-33	DCG	P105	Closet, 75mm line, is this in wall or exposed? Coordinate with beam and structural			

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P-34	DCG	P106	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed.			
P-35	DCG	P106	Confirm venting and distance from fixture trap to vent. Detail 1 appears to be to far of run to vent piping.			
P-36	DCG	P201	Detail 1, include notes of detail.			
P-37	DCG	P201	Detail 3, include notes of detail			
P-38	DCG	P201	Detail 7, confirm that bury depth of sewer line is deep enough.			
P-39	DCG	P201	Detail 8, confirm that bury depth of water service is deep enough.			
P-40	DCG	P201	Detail 9, confirm that bury depth of water service is deep enough.			
P-41	DCG	P201	Detail 9, what is "50mm isolation" mean? Please clarify.			
P-42	DCG	P201	Detail 9, install shutoff valve on line above floor level.			
P-43	DCG	P202	All elevations: Confirm if water lines are exposed. If they are exposed, have they been coordinated with the mounting of the fixtures they are serving?			
P-44	DCG	P202	Show valves on a fixture supplies			
P-45	DCG	P202	Detail 8, confirm installation of air gap or vacuum breaker on water closet flush tank.			
P-46	DCG	P202	Detail 8, provide definition of "Hepworth"			
P-47	DCG	P202	Detail 14, complete note "20 hw and cw pipe with" note			
P-48	DCG	P203	Detail 1 and 2, add check valve and expansion tank on water heater.			
P-49	DCG	P203	Detail 4, will trap fit under shower as shown?			
P-50	DCG	P203	Detail 4, define "flexibly pipe"			
P-51	DCG	P203	Detail 4, miss spelling of "maine"			
P-52	DCG	P203	Specifications of fixtures??			

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PLUMBING COMMENTS - DORMATORY BUILDING						
P-1	DCG	P001	Remove Propane Gas notes... none in this facility			
P-2	DCG	P001	General Note 12: Clarify what the intent of this note is.			
P-3	DCG	P001	General Note 17: Shouldn't this say something about Mecca vs North/south?			
P-4	DCG	P101	Indicate North and/or Mecca Arrow			
P-5	DCG	P101	Confirm clearance between water heaters and access to handicapped toilet			
P-6	DCG	P101	Confirm water heater selection is large enough for a large load like Laundry will produce.			
P-7	DCG	P102	Indicate North and/or Mecca Arrow			
P-8	DCG	P102	Confirm clearance between water heaters and access to handicapped toilet			
P-9	DCG	P102	Confirm water heater selection is large enough for a large load like Laundry will produce.			
P-10	DCG	P103	Identify what BAV stand for? Not on P001			
P-11	DCG	P103	Show all valves			
P-12	DCG	P104	Indicate North and/or Mecca Arrow			
P-13	DCG	P104	FCO need clearance as identified in IPC (International Plumbing Code) 708.8			
P-14	DCG	P104	Pipes rising up... are they exposed within toilet stalls? Confirm location of piping			
P-15	DCG	P104	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed			
P-16	DCG	P104	Confirm "grey water" piping is going to recycle system and not "to leach field" as identified			
P-17	DCG	P105	Indicate North and/or Mecca Arrow			
P-18	DCG	P105	FCO need clearance as identified in IPC 708.8			
P-19	DCG	P105	Pipes rising up... are they exposed within toilet stalls? Confirm location of piping			
P-20	DCG	P105	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed			
P-21	DCG	P105	Confirm "grey water" piping is going to recycle system and not "to leach field" as identified			
P-22	DCG	P106	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed.			
P-23	DCG	P106	Provide stack vent on all risers.			
P-24	DCG	P201	Detail 1, include notes of detail.			
P-25	DCG	P201	Detail 3, include notes of detail			
P-26	DCG	P201	Detail 7, confirm that bury depth of sewer line is deep enough.			
P-27	DCG	P201	Detail 8, confirm that bury depth of water service is deep enough.			

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P-28	DCG	P201	Detail 9, confirm that bury depth of water service is deep enough.			
P-29	DCG	P201	Detail 9, what is "50mm isolation" mean? Please clarify.			
P-30	DCG	P201	Detail 9, install shutoff valve on line above floor level.			
P-31	DCG	P202	All elevations: Confirm if water lines are exposed. If they are exposed, have they been coordinated with the mounting of the fixtures they are serving?			
P-32	DCG	P202	Show valves on a fixture supplies			
P-33	DCG	P202	Detail 8, confirm installation of air gap or vacuum breaker on water closet flush tank.			
P-34	DCG	P202	Detail 8, provide definition of "Hepworth"			
P-35	DCG	P202	Detail 14, complete note "20 hw and cw pipe with" note			
P-36	DCG	P203	Detail 1 and 2, add check valve and expansion tank on water heater.			
P-37	DCG	P203	Detail 4, will trap fit under shower as shown?			
P-38	DCG	P203	Detail 4, define "flexibly pipe"			
P-39	DCG	P203	Detail 4, miss spelling of "maine"			
P-40	DCG	P203	Specifications of fixtures??			

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PLUMBING COMMENTS - KITCHEN						
P-1	DCG	P001	Propane Gas note 04: no propane piping under the floor.			
P-2	DCG	P001	General Note 12: Clarify what the intent of this note is.			
P-3	DCG	P001	General Note 17: Shouldn't this say something about Mecca vs North/south?			
P-4	DCG	P101	Indicate North and/or Mecca Arrow			
P-5	DCG	P101	Identify valve locations			
P-6	DCG	P101	Locate rise of water service in Female Main Entrance. Is pipe exposed?			
P-7	DCG	P101	Offset piping so its not directly on wall for clarity			
P-8	DCG	P101	Size of water lines to Female toilet rooms?			
P-9	DCG	P101	Propane gas not to be buried in building. Rise up on building exterior face and enter building above grade. Reroute piping above floor.			
P-10	DCG	P101	Locate rise of water service in Ablution room. Is pipe exposed?			
P-11	DCG	P101	Confirm proper clearance between water heater and lavatory in Male Main Entrance.			
P-12	DCG	P101	Confirm proper clearance between water heater and water closet in room 106.			
P-13	DCG	P102	Identify what BAV stand for? Not on P001			
P-14	DCG	P102	Show all valves			
P-15	DCG	P102	Route propane gas pipe above floor.			
P-16	DCG	P102	Provide details of propane storage tank system			
P-17	DCG	P103	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC (International Plumbing Code) 905.4. ALL vent need to be reviewed			
P-18	DCG	P103	FCO need clearance as identified in IPC 708.8			
P-19	DCG	P103	Drain required for kettle in Kitchen?			
P-20	DCG	P103	Female Dining Room: Confirm VTR location... exposed or within wall? Is location coordinated with structural steel?			
P-21	DCG	P103	Confirm venting and distance from fixture trap to vent. Dishes Drop Off 112 etc appears to be to far of run to vent piping.			
P-22	DCG	P104	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed.			
P-23	DCG	P104	Define "HB" sanitary connection?			
P-24	DCG	P104	Identify connection to abluion troughs with traps?			
P-25	DCG	P201	Detail 1, include notes of detail.			
P-26	DCG	P201	Detail 3, include notes of detail			
P-27	DCG	P201	Detail 7, confirm that bury depth of sewer line is deep enough.			
P-28	DCG	P201	Detail 8, confirm that bury depth of water service is deep enough.			

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P-29	DCG	P201	Detail 9, confirm that bury depth of water service is deep enough.			
P-30	DCG	P201	Detail 9, what is "50mm isolation" mean? Please clarify.			
P-31	DCG	P201	Detail 9, install shutoff valve on line above floor level.			
P-32	DCG	P202	All elevations: Confirm if water lines are exposed. If they are exposed, have they been coordinated with the mounting of the fixtures they are serving?			
P-33	DCG	P202	Show valves on a fixture supplies			
P-34	DCG	P202	Detail 8, confirm installation of air gap or vacuum breaker on water closet flush tank.			
P-35	DCG	P202	Detail 8, provide definition of "Hepworth"			
P-36	DCG	P202	Detail 14, complete note "20 hw and cw pipe with" note			
P-37	DCG	P203	Detail 1 and 2, add check valve and expansion tank on water heater.			
P-38	DCG	P203	Detail 4, will trap fit under shower as shown?			
P-39	DCG	P203	Detail 4, define "flexibly pipe"			
P-40	DCG	P203	Detail 4, miss spelling of "maine"			
P-41	DCG	P203	Specifications of fixtures??			
P-42	DCG	P204	Show propane system details.			

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PLUMBING COMMENTS - PRAYER BUILDING						
P-1	DCG		No Plans to review for plumbing			

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PLUMBING COMMENTS - GENERATOR ROOM						
P-1	DCG	M202	Identify controls for pump operations?			
P-2	DCG	M202	Identify level controls for generator fuel tank.			
P-3	DCG	M202	Identify leak detection for fuel tank system.			
P-4	DCG	M202	Confirm tappings on top of fuel tanks. Correct size man way? Ladder within tanks? Emergency vent? Etc			
P-5	DCG	M202	Details 4 and 6, spell "Stair" correctly			
P-6	DCG	M202	Confirm concrete dike is sized for 110% capacity of fuel tanks.			
P-7	DCG	M202	Identify valves, unions, fill boxes etc on tank			
P-8	DCG	M202	Identify overflow protection method.			
P-9	DCG	M202	Amend fuel pump schedule to LPM, not GPM			
P-10	DCG	M202	Confirm fuel return line is not required coming back from the generator fuel tank.			
P-11	DCG	M202	Properly locate fuel pump. Within the dike area is not ideal. Existing the dike through the bottom is unacceptable.			
P-12	DCG	M202	Detail 4 and 6, spell Drainage correctly.			
P-13	DCG	M202	Provide lockable shutoff valve on the drain area.			
P-14	DCG	M202	Identify size and material of generator exhaust pipe.			
P-15	DCG	M202	Provide anti-siphon valve on supply to pump			

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PLUMBING COMMENTS - GUARD HOUSE						
P-1	DCG	P105	Detail 1, show location of water service drop.			
P-2	DCG	P105	Detail 2, FCO need clearance as identified in IPC (International Plumbing Code) 708.8			
P-3	DCG	P105	All vent piping: Can NOT connect vent piping together unless they are minimum 152mm above the flood rim of the fixture. See IPC 905.4. ALL vent need to be reviewed			
P-4	DCG	P105	Toilet Room: Confirm VTR location... exposed or within wall? Is location coordinated with structural steel?			
P-5	DCG	P105	Detail 3, identify what BAV stand for? Not on P001			
P-6	DCG	P105	Detail 3, show shutoff valves			

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ELECTRICAL COMMENTS - ACADEMY BUILDING						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No separate electrical specifications were provided. Those provided on E001 are incomplete.			
E-2	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-3	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-4	JAS	General	No Fire Alarm system is shown on the drawings. Pull stations and horn/strobes should be shown at a minimum, even though notes on E001 call for the fire alarm to be provided on a "Design-Build" basis.			
E-5	JAS	E001	In the symbol definition for Schuko duplex receptacle, the word "ampere" is misspelled.			
E-6	JAS	E001	In the symbol definition for electric water heater, the work "which" is misspelled.			
E-7	JAS	E001	Delete the word "are" in the first note in the second column.			
E-8	JAS	E001	The specification for "Panel Boards" is repeated under the "Equipment Specifications" and should be deleted from the second column.			
E-9	JAS	E001	Provide a "Type identification number" for all lighting fixtures in the Light Fixture Schedule.			
E-10	JAS	E001	Does the first fixture type have 2-36 watt lamps or 4-18 watt lamps? Information in the schedule is contradictory.			
E-11	JAS	E001	What type of lamp is required for the "Wall Mounted Search Light"? Is it incandescent or High Intensity Discharge (HID)? (i.e. Metal Halide or High Pressure Sodium)			
E-12	JAS	E001	Is the Emergency Rechargeable Light to have a 6 or 12 volt battery?			
E-13	JAS	E001	The Emergency Rechargeable Light should be wall-mounted, not ceiling pendant mounted.			
E-14	JAS	E101	The spacing of the emergency lights is too great to provide the average of 1 foot candle illumination required by NFPA 101.			
E-15	JAS	E101	Emergency lighting should be provided outside of every egress door.			
E-16	JAS	E101	Provide emergency lighting in all stairs.			
E-17	JAS	E101	Fluorescent fixtures located in the exterior stairways should be equipped with low temperature rated ballasts.			
E-18	JAS	E101	No circuit number is shown for the light over the sink in room 110.			

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E-19	JAS	E101	No circuit number is shown for the lights in room 101.			
E-20	JAS	E101	No circuit number is shown for the light over the sinks in room 113.			
E-21	JAS	E101	Add Exit Light over doors to exterior in Corridors 137A and 137B.			
E-22	JAS	E102	Add Exit Light in Corridor 102 pointing towards "Main Entrance" 101.			
E-23	JAS	E102	The spacing of the emergency lights is too great to provide the average of 1 foot candle illumination required by NFPA 101.			
E-24	JAS	E102	Provide emergency lighting in all stairs.			
E-25	JAS	E102	No circuit number is shown for the light over the sink in room 210.			
E-26	JAS	E102	No circuit number is shown for the light over the sinks in room 111.			
E-27	JAS	E102	No circuit number is shown for the light over the sinks in room 213.			
E-28	JAS	E103	Add Exit Light in Corridor 202 pointing towards "Main Stair 212.			
E-29	JAS	E103	Add a Ground Fault Circuit Interrupter (GFCI) receptacle in Room 110.			
E-30	JAS	E103	Add a receptacle on the outside wall of Classroom 114.			
E-31	JAS	E103	Coordinate location of receptacles with the furniture layout shown on the Architectural drawings.			
E-32	JAS	E103	How is the elevator powered? There is on equipment room show nor any circuiting.			
E-33	JAS	E104	Is there an elevator pit? If so, it must have lighting, emergency lighting and receptacles per National Electrical Code (NEC).			
E-34	JAS	E105	Need to provide receptacles for 15 computers in the Computer Lab 204. Coordinate with the Furniture Plan in the Architectural drawings.			
E-35	JAS	E107	How is the hood fan in Chemistry Lab 135 controlled?			
E-36	JAS	E108	Where is the "Ground Ring" detail? It is not shown on drawing E107 as noted. Should this be E108?			
E-37	JAS	E109	In the note for Air Terminals, the word "NOR" should be NOT. Typical of three locations.			
E-38	JAS	E109	The word "DEMOND Factor" should be DEMAND Factor. The word "future" is also misspelled.			
E-39	JAS	E110	The word "DEMOND Factor" should be DEMAND Factor. The word "future" is also misspelled.			
E-40	JAS	E110	It seems more reasonable to feed panel board LPB on the second floor from the bottom. It is located above panel board LPA which feeds it.			
E-41	JAS	E111	Without knowing the distance from the Generator House, there is no way to verify that 120 square mm cable is adequate for the loads on Panel board LPA without excessive voltage drop.			

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ELECTRICAL COMMENTS - DORMATORY BUILDING						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No sheet E001, General Legend was provided.			
E-2	JAS	General	No electrical specifications were provided.			
E-3	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-4	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-5	JAS	General	These drawings are labeled as "GIRLS DORM. Are we to assume that the "BOYS DORM. is identical?			
E-6	JAS	General	No Fire Alarm system is shown on the drawings. Pull stations and horn/strobes should be shown at a minimum.			
E-7	JAS	E101	The spacing of the emergency lights is too great to provide the average of 1 foot candle illumination required by NFPA 101.			
E-8	JAS	E101	Emergency lighting should be provided outside of every egress door.			
E-9	JAS	E101	Provide emergency lighting in all stairs.			
E-10	JAS	E101	Fluorescent fixtures located in the exterior stairways should be equipped with low temperature rated ballasts.			
E-11	JAS	E101	No Light Fixture Schedule is provided.			
E-12	JAS	E101	Do not locate panel boards in stairs.			
E-13	JAS	E101	Provide Exit sign with directional arrows in Corridor 102 pointing towards the main entrances.			
E-14	JAS	E101	No circuit number is shown for the lights over the sink in room 119.			
E-15	JAS	E101	No circuit number is shown for the lights over the sink in room 120.			
E-16	JAS	E102	The spacing of the emergency lights is too great to provide the average of 1 foot candle illumination required by NFPA 101.			
E-17	JAS	E102	Provide emergency lighting in all exterior stairs.			
E-18	JAS	E102	Do not locate panel boards in stairs.			
E-19	JAS	E102	Provide Exit sign with directional arrows in Corridor 122 pointing towards Main Stair 211.			
E-20	JAS	E103	Do not locate panel boards in stairs.			
E-21	JAS	E103	Coordinate locations of receptacles with the furniture layouts.			
E-22	JAS	E103	Provide Ground Fault Circuit Interrupter (GFCI) receptacles between sinks in Shower 119.			
E-23	JAS	E103	Provide GFCI receptacles between sinks in Toilets 120.			

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E-24	JAS	E103	Is there any laundry equipment requiring special power outlets?			
E-25	JAS	E104	Do not locate panel boards in stairs.			
E-26	JAS	E104	Coordinate locations of receptacles with the furniture layouts.			
E-27	JAS	E104	Provide Ground Fault Circuit Interrupter (GFCI) receptacles between sinks in Shower 219.			
E-28	JAS	E104	Provide GFCI receptacles between sinks in Toilets 220.			
E-29	JAS	E104	Is there any laundry equipment requiring special power outlets?			
E-30	JAS	E105	Do not locate panel boards in stairs.			
E-31	JAS	E105	Provide circuit number for Exhaust Fans in Shower 119.			
E-32	JAS	E105	Provide circuit number for Exhaust Fans in Toilets 120.			
E-33	JAS	E105	"GIRLE" should be GIRLS in detail title.			
E-34	JAS	E106	Do not locate panel boards in stairs.			
E-35	JAS	E106	Provide circuit number for Exhaust Fans in Shower 119.			
E-36	JAS	E106	Provide circuit number for Exhaust Fans in Toilets 120.			
E-37	JAS	E106	"GIRLE" should be GIRLS in detail title.			
E-38	JAS	E1-8	In the note for Air Terminals, the word "NOR" should be NOT.			
E-39	JAS	E109	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-40	JAS	E110	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-41	JAS	E110	It seems more reasonable to feed panel board LPD on the second floor from the bottom. It is located above panel board LPC which feeds it.			
E-42	JAS	E110	"GIRLE" should be GIRLS in detail title.			
E-43	JAS	E111	Show 3X63A Auto Main Switch for panel board LPD.			
E-44	JAS	E111	Without knowing the distance from the Generator House, there is no way to verify that 95 square mm cable is adequate for the loads on Panel board LPC without excessive voltage drop.			
E-45	JAS	E111	The word "SINGALE" in both detail titles should be "SINGLE"			
E-46	JAS	E111	Both panel board are labeled for BOYS' DORMITORY. Everything else has been labeled as Girls Dormitory. Which is correct?			
E-47	JAS	E111	The total load for panel board LPC should be 54.369 KVA.			

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ELECTRICAL COMMENTS - KITCHEN						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No separate electrical specifications were provided. Those provided on E001 are incomplete.			
E-2	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-3	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-4	JAS	General	No Fire Alarm system is shown on the drawings. Pull stations and horn/strobes should be shown at a minimum, even though notes on E001 call for the fire alarm to be provided on a "Design-Build" basis.			
E-5	JAS	E001	In the symbol definition for Schuko duplex receptacle, the word "ampere" is misspelled.			
E-6	JAS	E001	In the symbol definition for electric water heater, the work "which" is misspelled.			
E-7	JAS	E001	Delete the word "are" in the first note in the second column.			
E-8	JAS	E001	The specification for "Panel Boards" is repeated under the "Equipment Specifications" and should be deleted from the second column.			
E-9	JAS	E001	Provide a "Type identification number" for all lighting fixtures in the Light Fixture Schedule.			
E-10	JAS	E001	Does the first fixture type have 2-36 watt lamps or 4-18 watt lamps? Information in the schedule is contradictory.			
E-11	JAS	E001	What type of lamp is required for the "Wall Mounted Search Light"? Is it incandescent or High Intensity Discharge (HID)? (i.e. Metal Halide or High Pressure Sodium)			
E-12	JAS	E001	Is the Emergency Rechargeable Light to have a 6 or 12 volt battery?			
E-13	JAS	E001	The Emergency Rechargeable Light should be wall-mounted, not ceiling pendant mounted.			
E-14	JAS	E101	Emergency lighting should be provided outside of every egress door.			
E-15	JAS	E101	Provide a second emergency light in both Dining Rooms near the second exit sign.			
E-16	JAS	E101	Provide exit signs in the Kitchen 111 and Dry Storage 113.			
E-17	JAS	E101	Verify circuit numbers are shown for all lighting circuits.			
E-18	JAS	E102	Typically the refrigerator and freezer should each be on its own separate circuit.			

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E-19	JAS	E105	In the note for Air Terminals, the word "NOR" should be NOT.			
E-20	JAS	E105	Is there any roof mounted equipment that should have air terminals installed?			
E-21	JAS	E106	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-22	JAS	E107	Without knowing the distance from the Generator House, there is no way to verify that 25 square mm cable is adequate for the loads on Panel board LPK without excessive voltage drop.			

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ELECTRICAL COMMENTS - PRAYER BUILDING						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No separate electrical specifications were provided. Those provided on E001 are incomplete.			
E-2	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-3	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-4	JAS	E108	How are the exterior "Search Lights" controlled? There is no photocell shown on the drawing.			
E-5	JAS	E108	In the note for Air Terminals, the word "NOR" should be NOT.			
E-6	JAS	E108	Adjust the scale on the Ceiling Fan Switches in Detail 5.			
E-7	JAS	E109	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-8	JAS	E109	Without knowing the distance from the Generator House, there is no way to verify that 6 square mm cable is adequate for the loads on Panel board LPM without excessive voltage drop.			
E-9	JAS	E109	It seems more reasonable to feed panel board LPM from the bottom assuming the service is fed underground.			
E-10	JAS	E109	MOSQUE is misspelled in the panel board schedule.			

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ELECTRICAL COMMENTS - GENERATOR ROOM						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No separate electrical specifications were provided. Those provided on E001 are incomplete.			
E-2	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-3	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-4	JAS	E112	The Note refers to Room G01. There is no Room G01 shown on the drawings.			
E-5	JAS	E112	Coordinate the location of the Emergency Battery units with the layout of the generator duct.			
E-6	JAS	E112	In the note for Air Terminals, the word "NOR" should be NOT.			
E-7	JAS	E112	Coordinate the location of the receptacles with the layout of the generator duct.			
E-8	JAS	E112	On Ground Plan the sheet referenced should be E112			
E-9	JAS	E112	On Single Line Diagram the total load plus spare should be 6.924 KVA.			
E-10	JAS	E113	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-11	JAS	E113	There should be circuits for a battery charger and other generator accessories.			
E-12	JAS	E113	There are no details of the generator installation.			
E-13	JAS	E114	Guard and Academic are misspelled on the panel board schedule.			
E-14	JAS	E114	On the Power Riser Diagram list the building names that the panel boards are located in.			
E-15	JAS	E115	Adjust text size on the Single Line Diagram. Some of it is too small to read.			
E-16	JAS	E115	Verify Total Loads for the various panel boards. Many do not agree with the values shown on the individual panel board schedules.			
E-17	JAS	E115	No specifications were provided for the generator other than what is shown on this sheet.			

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ELECTRICAL COMMENTS - GUARD HOUSE						
T-1	JLB	All	There was no Technology or Communications information to review.			
E-1	JAS	General	No separate electrical specifications were provided. Those provided on E001 are incomplete.			
E-2	JAS	General	No electrical calculations were provided for review, such as Lighting, voltage drop, short circuit current, etc.			
E-3	JAS	General	There is no Electrical Site Plan showing the locations and numbers of the various buildings and the distances between them. There is no indication that there are two dormitories other than on the main panel board schedule and the Power Riser Diagram.			
E-4	JAS	E110	Emergency lighting should be provided outside of the egress door.			
E-5	JAS	E110	Provide GFCI receptacle next to sinks in Shower 103.			
E-6	JAS	E110	In the note for Air Terminals, the word "NOR" should be NOT.			
E-7	JAS	E111	The word "DEMOND Factor" should be DEMAND Factor. The word "FUTURE is also misspelled.			
E-8	JAS	E111	Without knowing the distance from the Generator House, there is no way to verify that 6 square mm cable is adequate for the loads on Panel board LPG without excessive voltage drop.			
E-9	JAS	E111	It seems more reasonable to feed panel board LPG from the bottom assuming the service is fed underground.			
E-10	JAS	E-111	GUARDHOUSE is misspelled in panel board schedule.			