

AFGHAN NATIONAL ARMY

STANDARD BUILDING DESIGN

200 STUDENT CLASSROOM BUILDING (4) 50 STUDENT CLASSROOMS

100% FINAL DESIGN SUBMITTAL



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description
0		

Designed by:	KMP/MMY	Date:	2/23/10
Dwn by:	RCG	Design file no.:	
Reviewed by:	LHM	Drawing code:	
Submitted by:	BAKER	File name:	ANAG0603-0103
		Plot date:	2/23/2010
		Plot scale:	XX

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS

COVER SHEET

Sheet reference number:
G-001

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G-001 COVER SHEET

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- E-601 ELECTRICAL LIGHT FIXTURE SCHEDULES
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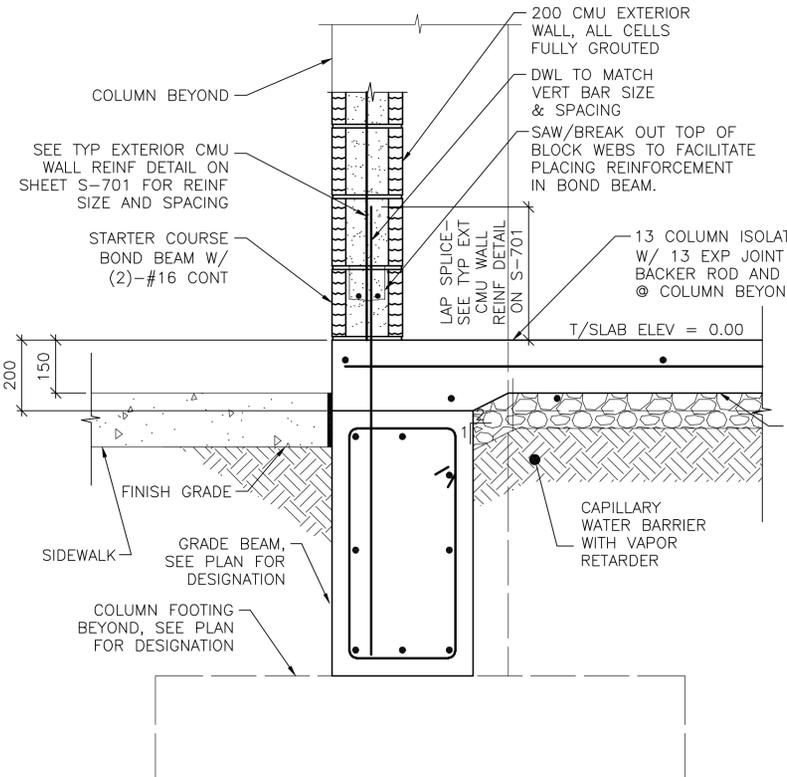
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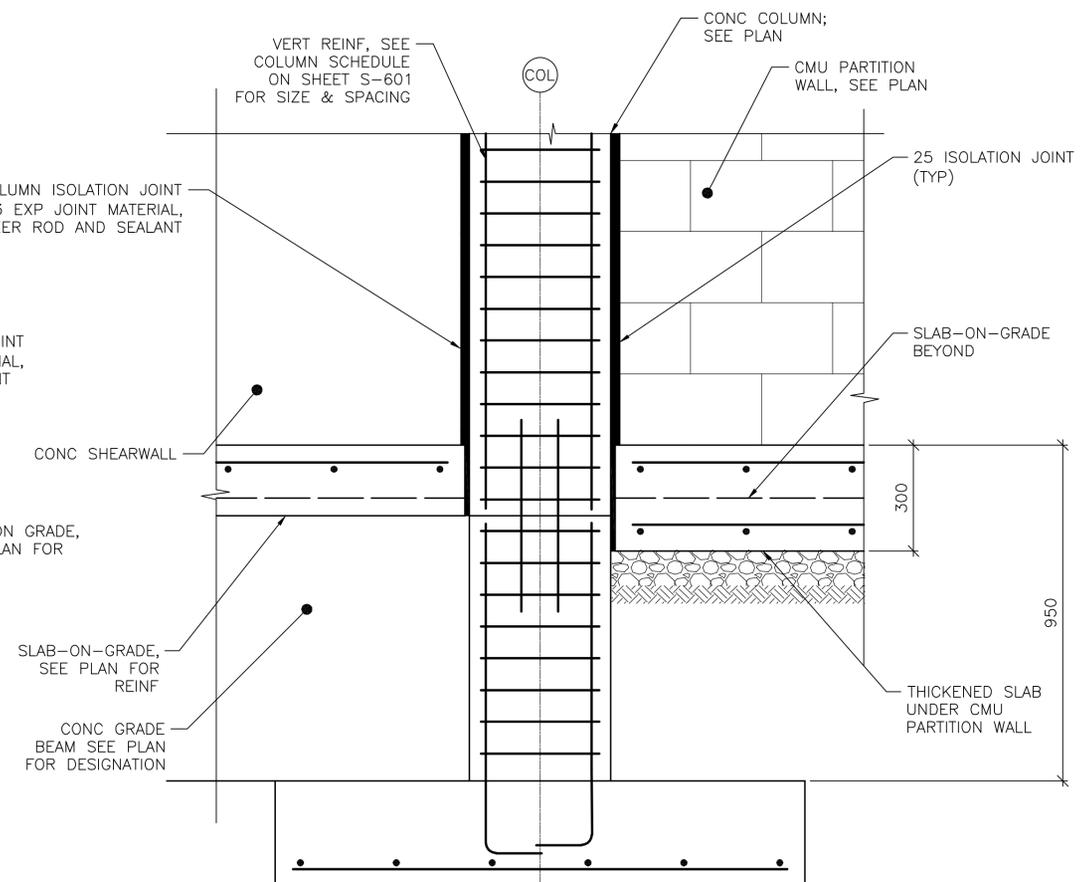
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5



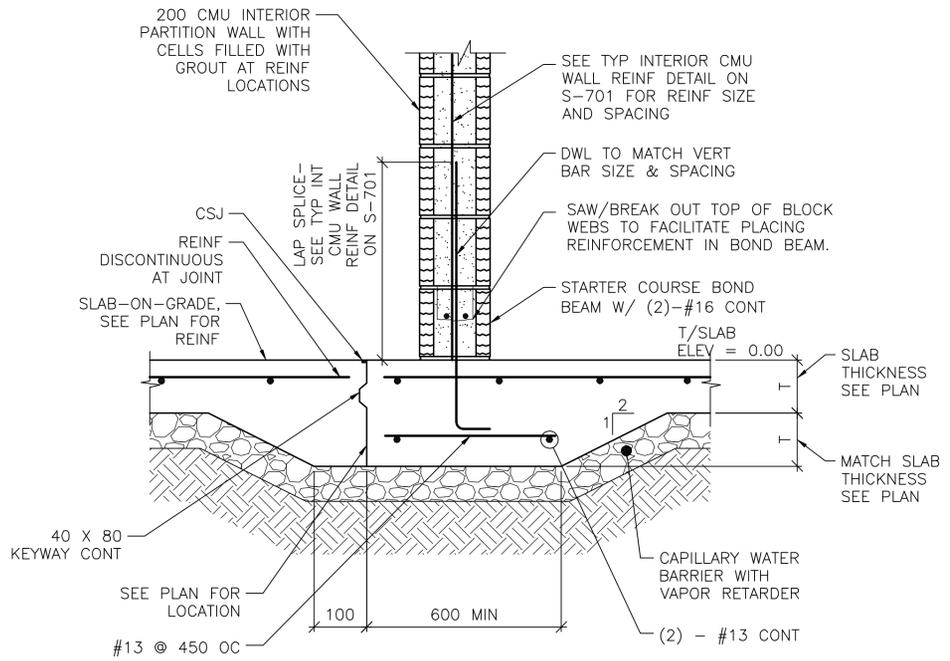
NOTE:
1. SECTION IS SIMILAR FOR INTERIOR CMU PARTITIONS OVER GRADE BEAMS SHOWING THICKENED 200 CONC SLAB AREA.

1 SECTION
S-101 SCALE: 1:10



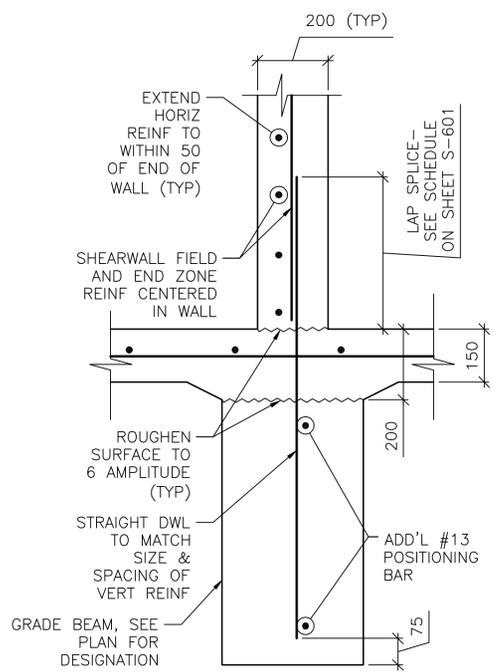
NOTE:
GRADE BEAM REINF NOT SHOWN FOR CLARITY.

2 SECTION
S-101 SCALE: 1:10



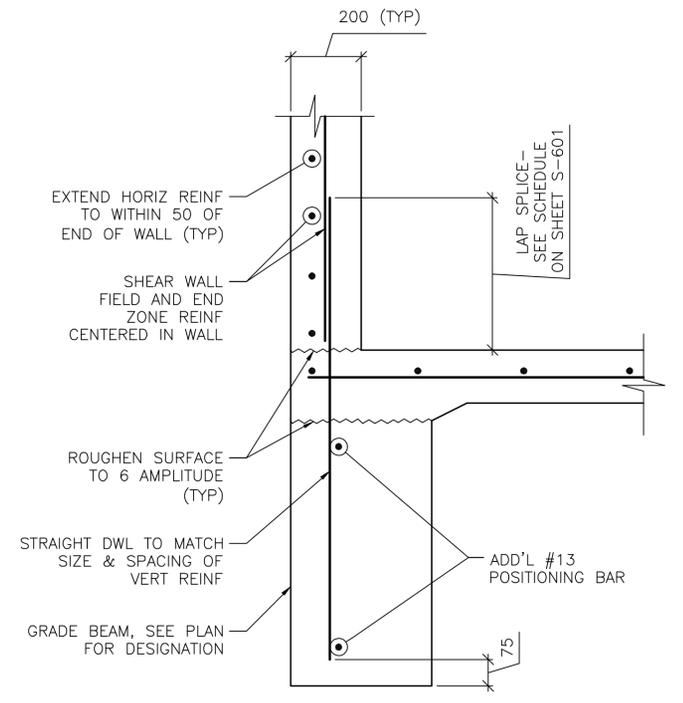
NOTE:
1. DETAIL IS APPLICABLE AT CONTROL JOINTS RUNNING PARALLEL TO CMU WALLS AND WITHIN 300 OF FACE OF WALL.

4 SECTION
S-101 SCALE: 1:10



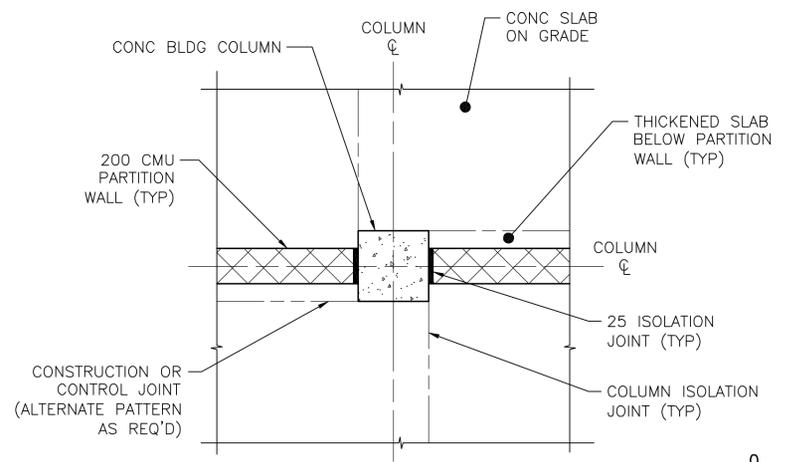
NOTE:
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY
2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

5 SECTION
S-101 SCALE: 1:10

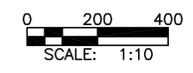


NOTE:
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY.
2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

3 SECTION
S-101 SCALE: 1:10



A SECTION
S-501 SCALE: NTS



UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

APPROVED:
Chris M...
A/E DESIGNER OF RECORD



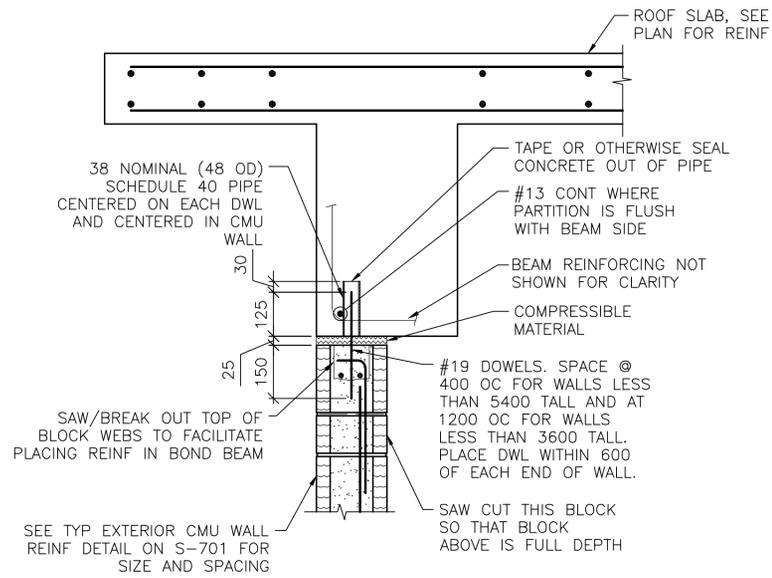
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1	2/23/10	Design file no.
2		Design file no.
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4		Design file no.
5		Design file no.
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7		Design file no.
8		Design file no.
9		Design file no.
10		Design file no.

Designed by: KMP/AMMY
Dwn by: RCG
Reviewed by: LHM
Submitted by: BAKER

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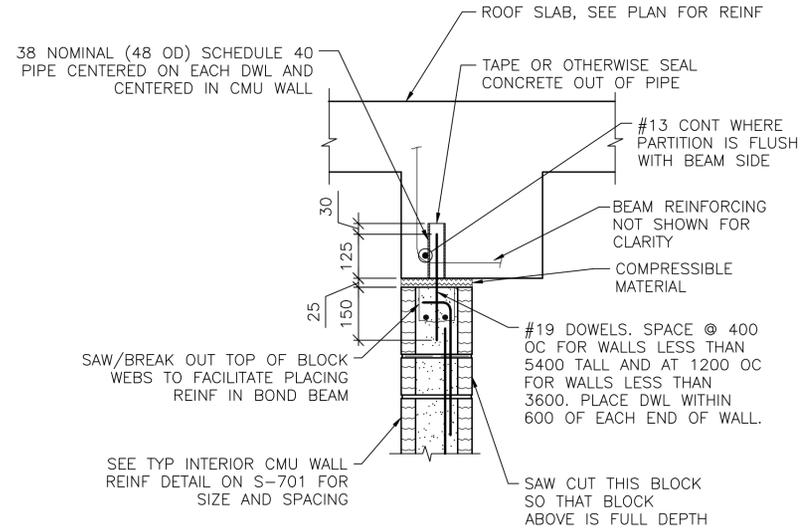
AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
FOUNDATION SECTIONS

Sheet reference number:
S-501



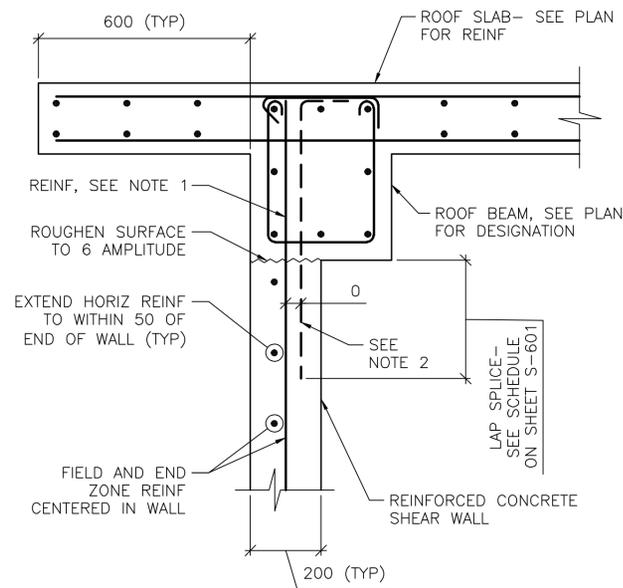
NOTES:
 1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION
 S-101 SCALE: 1:10



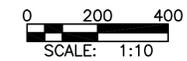
NOTES:
 1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.
 2. PARTITION WALL MAY BE CENTERED UNDER THE BEAM OR FLUSH AS SHOWN. SEE PLAN FOR LOCATION.
 3. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION
 S-101 SCALE: 1:10



NOTES:
 1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.
 2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.
 3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.

3 SECTION
 S-101 SCALE: 1:10



UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

APPROVED:

Chris Minto
 A/E DESIGNER OF RECORD

SEAL:



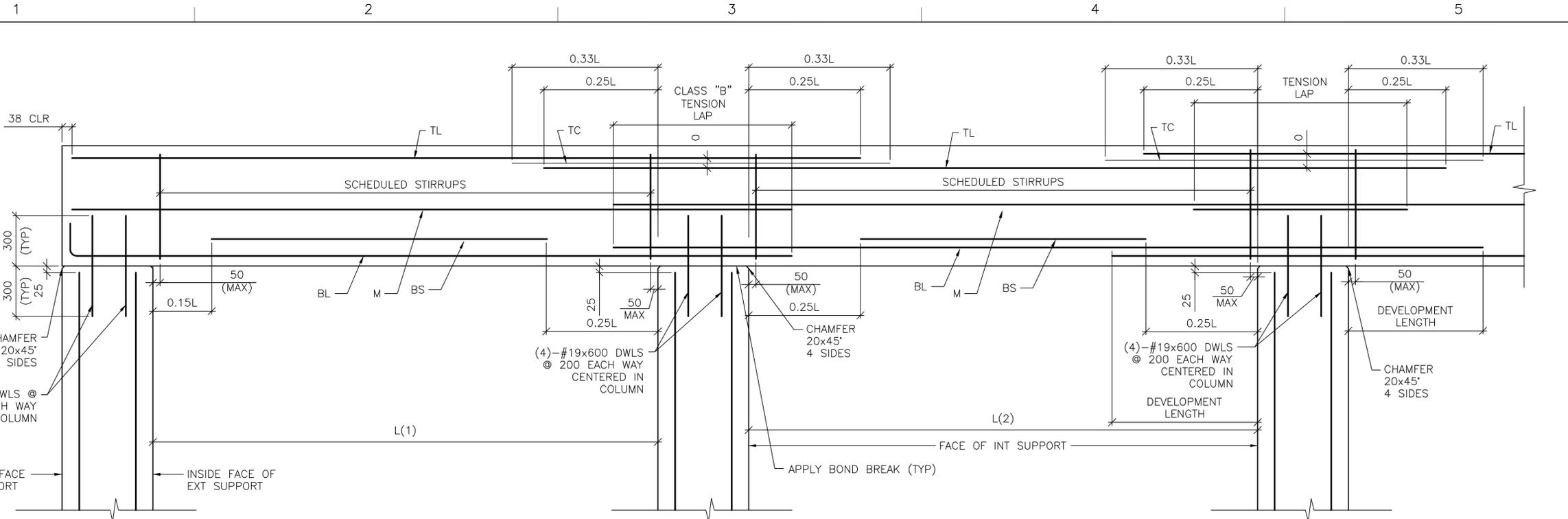
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Designed by:	KMP/MMY	Reviewed by:	LHM
Dwn by:	RCG	Submitted by:	BAKER
Calcd by:	CWW	Drawing code:	ANACR08-6028C
		File name:	ANACR08-6028C
		Plot date:	2/23/2010
		Plot scale:	x:1

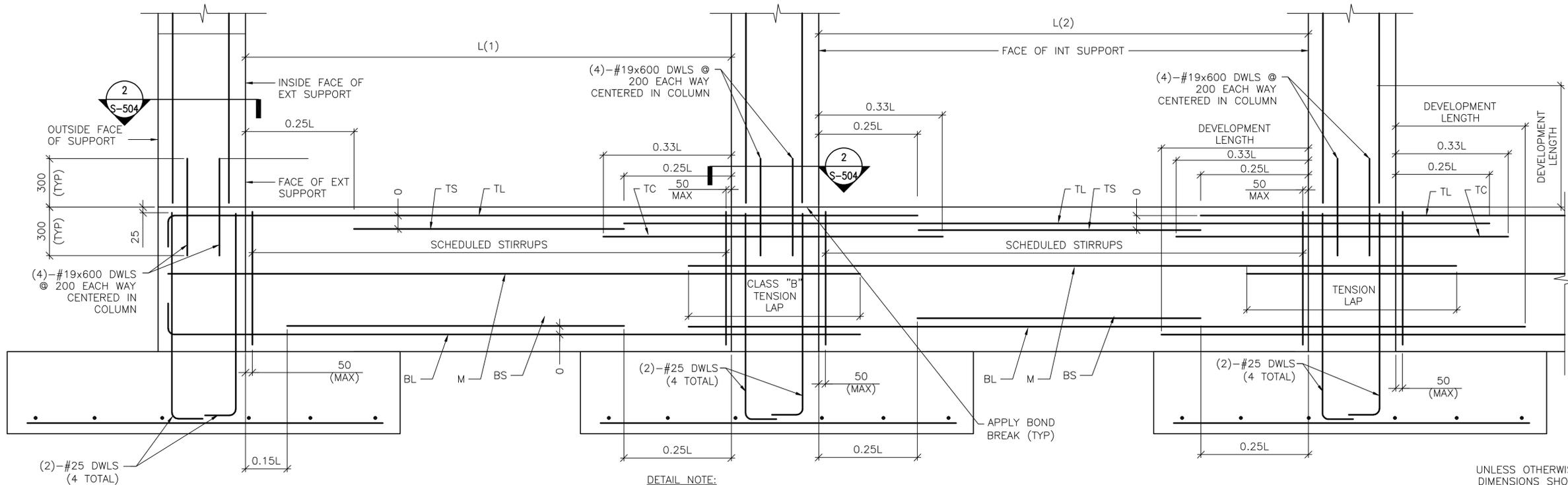
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 STANDARD DESIGN
 200 STUDENT CLASSROOM BUILDING
 (4) 50 STUDENT CLASSROOMS
 FRAMING SECTIONS

Sheet reference number:
 S-502



DETAIL NOTE:
 1. WORK THIS DETAIL WITH BEAM SCHEDULE ON SHEET S-601.
 2. L=GREATEST OF ADJACENT SPANS L(1) OR L(2)
 3. ONLY COLUMN CORNER BARS ARE SHOWN

1
S-503 **ROOF BEAM REINFORCING DETAIL**
 SCALE: NTS



DETAIL NOTE:
 1. WORK THIS DETAIL WITH BEAM SCHEDULE ON SHEET S-601.
 2. L=GREATEST OF ADJACENT SPANS L(1) OR L(2)
 3. ONLY COLUMN CORNER BARS ARE SHOWN.

2
S-503 **GRADE BEAM REINFORCING DETAIL**
 SCALE: NTS

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

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Chris White
 A/E DESIGNER OF RECORD

SEAL:



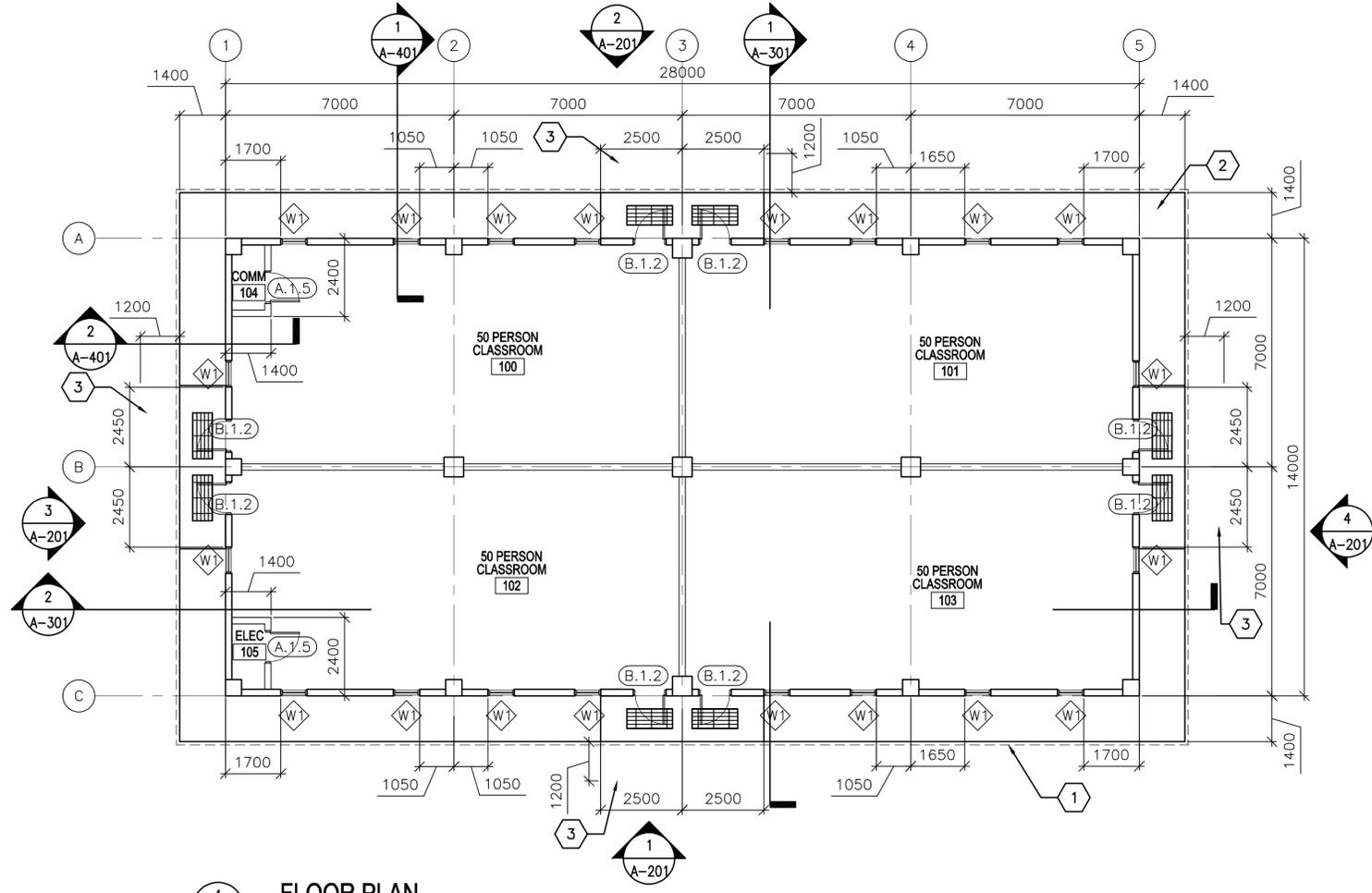

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Rev.	Date	Description
0	2/23/10	Design file no.
		Designed by: KMP/AMMY
		Dwn by: RCG
		Calcd by: CWV
		Reviewed by: LHM
		Submitted by: BAKER
		File name: ANAG2608-5030T
		Plot date: 2/22/2010
		Plot scale: XX

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 BEAM & COLUMN DETAILS

Sheet reference number:
S-503



1 FLOOR PLAN
SCALE: 1:100

GENERAL NOTES:

- A. DIMENSIONS ARE SHOWN TO OUTER EDGE OF EXTERIOR STRUCTURAL COLUMNS, STRUCTURAL COLUMN GRID, EDGE OF INTERIOR PARTITIONS, EDGE OF WINDOW OPENINGS, AND TO HINGE SIDE OF DOOR FRAME OPENINGS.
- B. HINGE SIDE OF OPENINGS FOR DOORS AND FRAMES SHALL BE LOCATED 200 MM FROM THE ADJACENT WALL OR COLUMN, UNLESS NOTED OTHERWISE.
- C. INTERIOR PARTITIONS SHALL BE 200 MM CMU. SEE STRUCTURAL DRAWINGS FOR LOCATION OF CONCRETE SHEAR WALLS.
- D. COSMETIC REPAIR OF MINOR DEFECTS: REPAIR OR FILL MORTAR JOINTS AND MINOR DEFECTS, INCLUDING BUT NOT LIMITED TO SPALLS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PRIOR TO COATING APPLICATION. SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF FOREIGN MATTER BEFORE APPLICATION OF PAINT. CLEANING SHALL BE SCHEDULED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON NEWLY PAINTED SURFACES.
- E. CONCRETE, PLASTER, AND MASONRY SURFACES SHALL BE ALLOWED TO CURE FOR AT LEAST 30 DAYS BEFORE PAINTING. CONCRETE SLABS-ON-GRADE SHALL BE ALLOWED TO CURE 90 DAYS BEFORE STAINING OR SEALING.
- F. DO NOT USE PAINT MATERIALS CONTAINING LEAD CONTENT IN EXCESS OF 0.009 PERCENT OF THE WEIGHT OF THE TOTAL NONVOLATILE CONTENT OF THE PAINT OR THE WEIGHT OF THE DRIED PAINT FILM.
- G. DO NOT USE ANY ASBESTOS CONTAINING MATERIALS (ACM) IN PROJECT. ACM IS DEFINED AS 1% OR MORE BY VOLUME.
- H. DO NOT USE PAINT MATERIALS CONTAINING MERCURIAL FUNGICIDES.
- I. FACTORY PRIMED METAL DOORS AND FRAMES SHALL RECEIVE TWO COATS OF PAINT.
- J. FILL REMAINING SPACE AT PENETRATIONS IN FIRE-RATED FLOORS, PARTITIONS AND CEILINGS WITH APPROPRIATE FIRESTOPPING MATERIALS.
- K. ALL CEILING FINISHES SHALL BE PAINTED PLASTER APPLIED TO STRUCTURE.
- L. ALL WALL FINISHES SHALL BE PAINTED PLASTER APPLIED TO STRUCTURE, UNLESS NOTED OTHERWISE.
- M. ALL FLOOR FINISHES SHALL BE EPOXY SEALED CONCRETE, UNLESS NOTED OTHERWISE.

KEY NOTES:

- 1. LINE OF ROOF OVERHANG ABOVE.
- 2. CONCRETE SIDEWALK - SEE DETAIL 2/A-503.
- 3. CONCRETE STOOP WITH GRATE - SEE DETAIL 1/A-503.

LEGEND:

- (XXX) DOOR FRAME AND HARDWARE TYPE, SEE SHEET A-601
- (A) WINDOW TYPE, SEE SHEET A-601
- (X) KEY NOTE

ABBREVIATIONS:

- ELEC ELECTRICAL
- MECH MECHANICAL
- JAN JANITOR
- CLOS CLOSET
- COMM COMMUNICATIONS

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED



Date	Appr.	Mark	Description

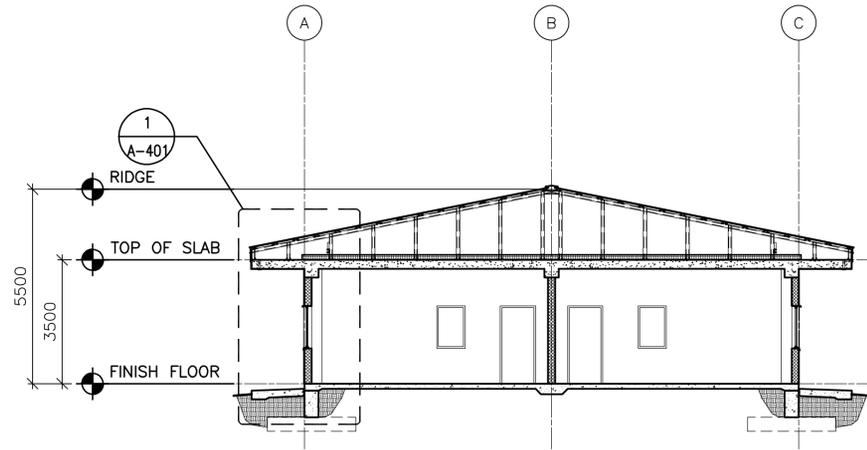
Designed by: KRC	Checked by: KJG	Reviewed by: LHM	Submitted by: BAKER
Date: 2/23/10	Design file no.:	Drawing code: ANACBQA-101FP	File name: ANACBQA-101FP
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AFGHAN NATIONAL ARMY
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200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
FLOOR PLAN

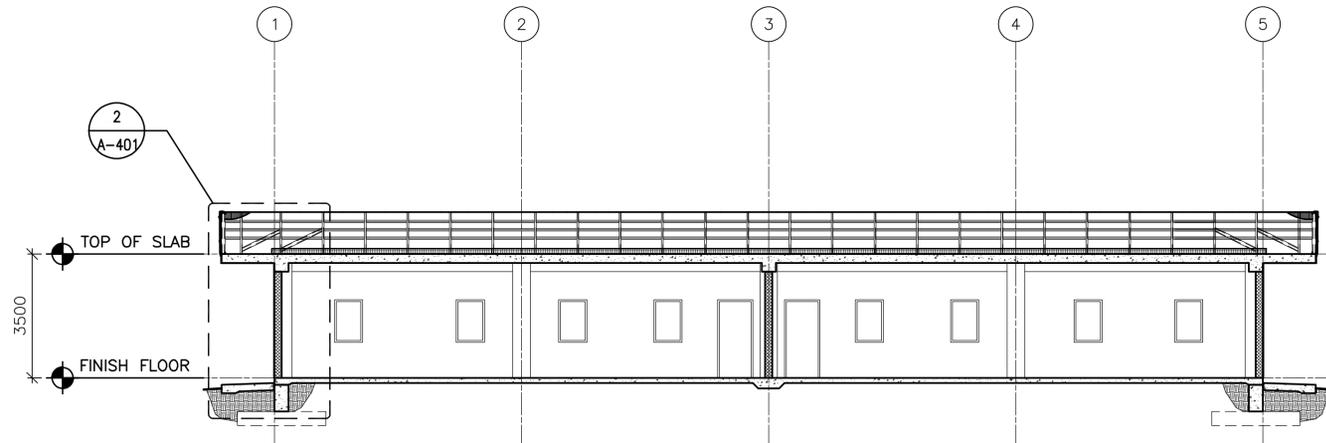
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Sheet reference number:
A-101



1 BUILDING SECTION
A-301 SCALE: 1:100



2 BUILDING SECTION
A-301 SCALE: 1:100

LINEAR DIMENSIONS SHOWN
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K. R. Chafin
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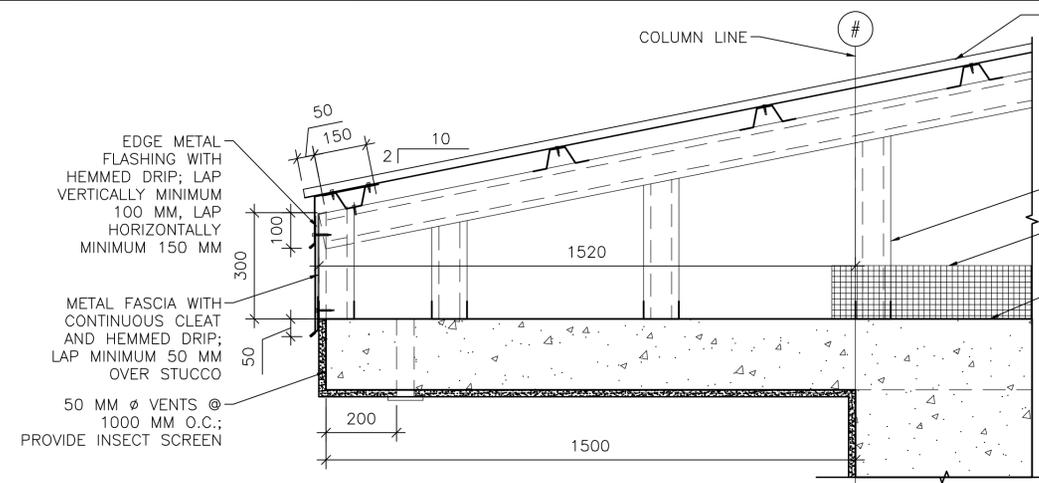
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0	2/23/10			

Designed by:	KRC	Checked by:	NLJ
Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANACB00A-301B
File name:	ANACB00A-301B	Plot date:	2/23/2010
Plot scale:	x:1		

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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
BUILDING SECTIONS

Sheet
reference
number:
A-301



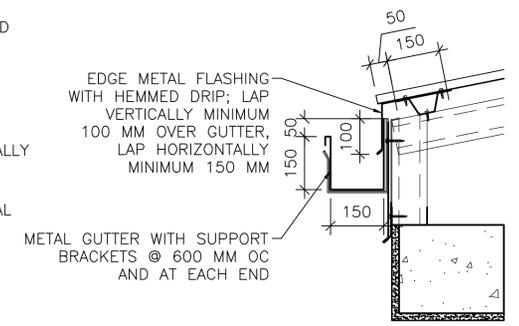
1 EAVE DETAIL
A-501 SCALE: 1:10

CORRUGATED ROOF PANELS ON METAL HAT CHANNELS; SEE SPECIFICATIONS FOR FASTENING PATTERN AND OVERLAP REQUIREMENTS; USE SEALANT AND HIGH-DOMED GASKETED FASTENERS AT ALL CONNECTIONS

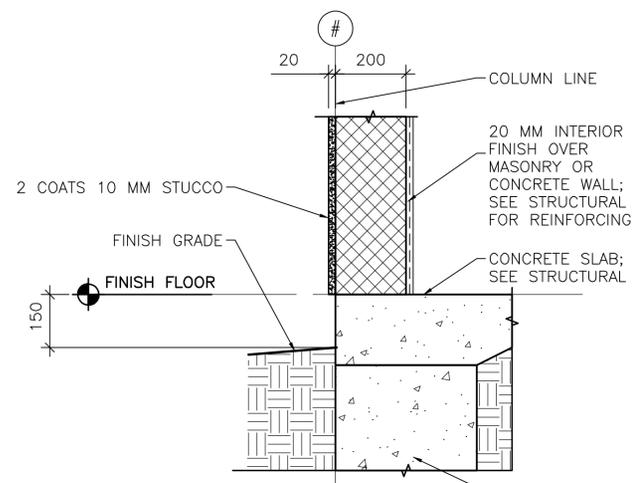
METAL FRAMING; SEE STRUCTURAL

150 MM (R-30) RIGID INSULATION MECHANICALLY FASTENED TO SLAB

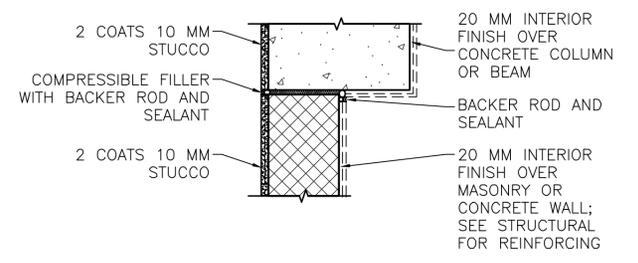
CONCRETE SLAB AND BEAM; SEE STRUCTURAL



1A GUTTER DETAIL
A-501 SCALE: 1:10

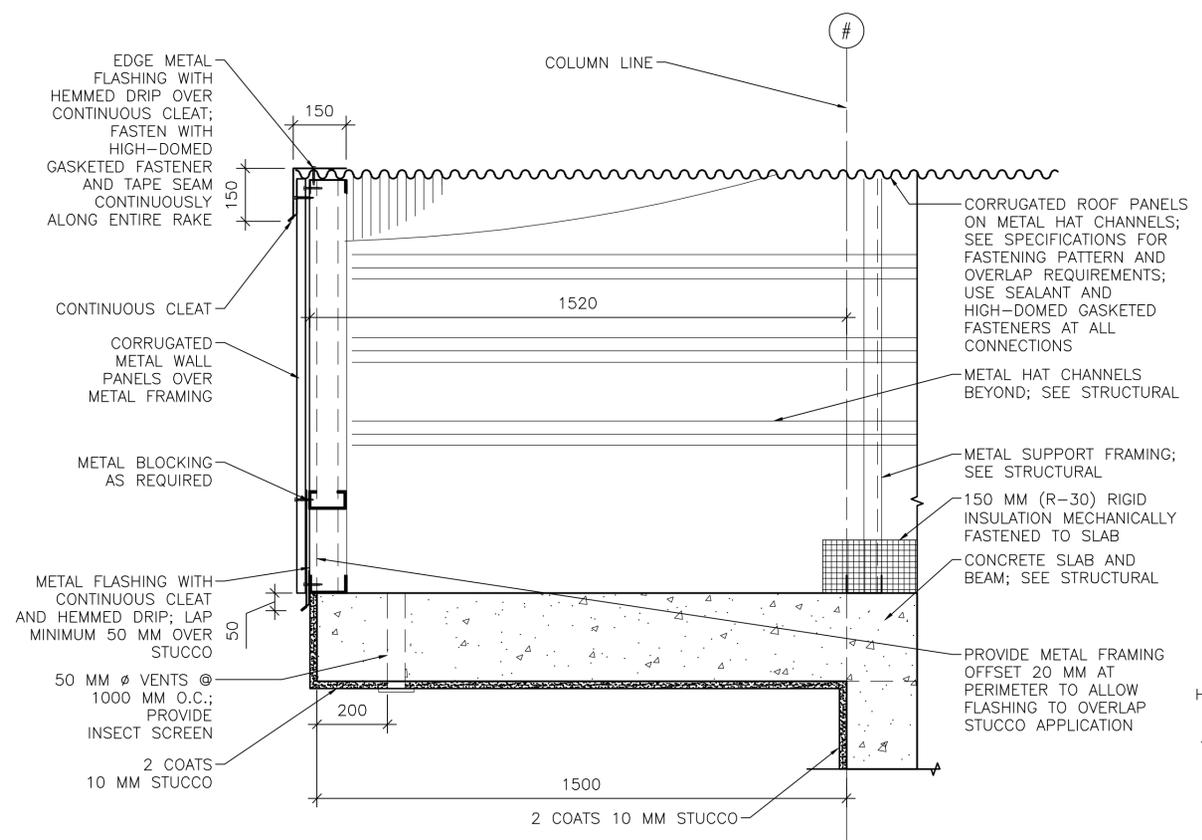


2 STUCCO BASE DETAIL
A-501 SCALE: 1:10

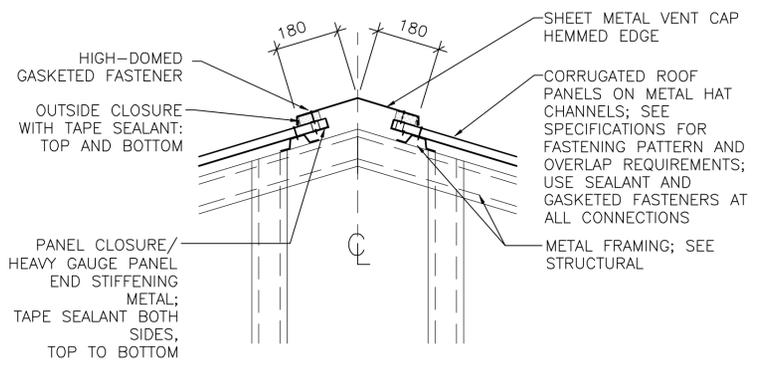


2A STUCCO JOINT DETAIL
A-501 SCALE: 1:10

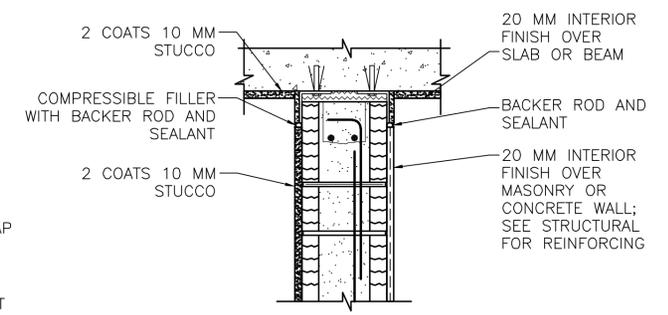
NOTE: DETAIL TYPICAL AT ALL WALL/COLUMN AND WALL/BREAM LOCATIONS, SEE ALTERNATE BRACING DETAIL BELOW. 2B/A-501.



3 RAKE/EAVE DETAIL
A-501 SCALE: 1:10

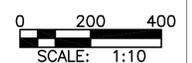


4 RIDGE VENT DETAIL
A-501 SCALE: 1:10



2B ALTERNATE BRACING DETAIL
A-501 SCALE: 1:10

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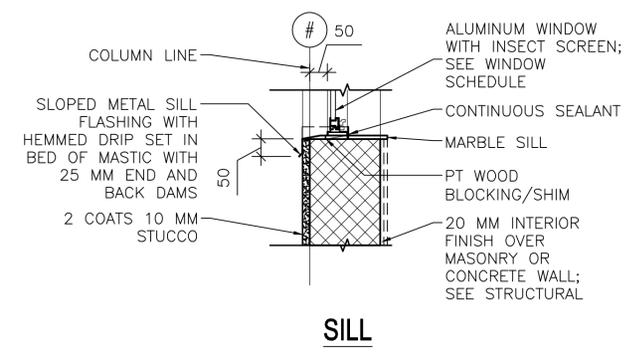
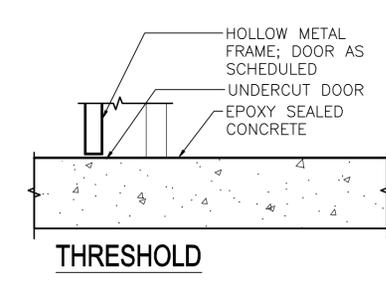
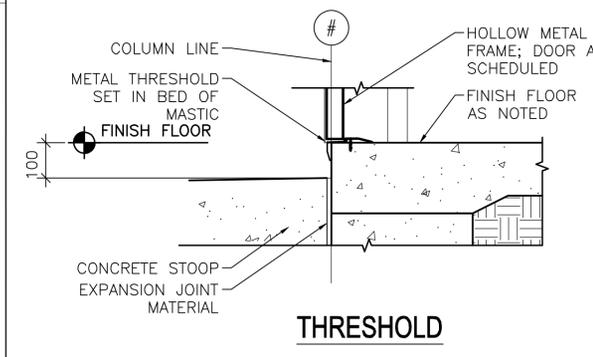
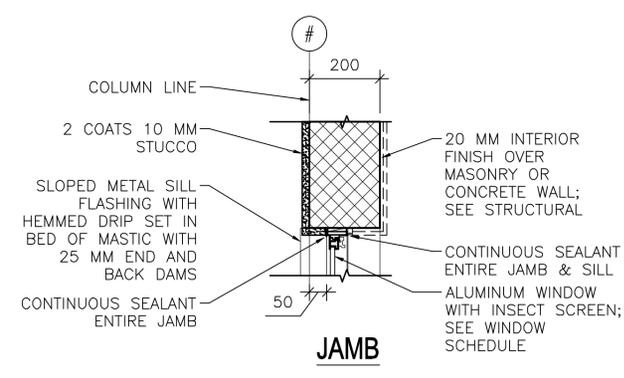
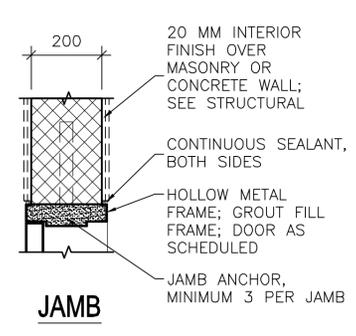
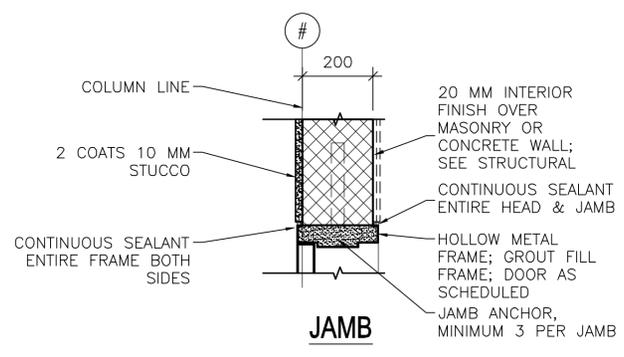
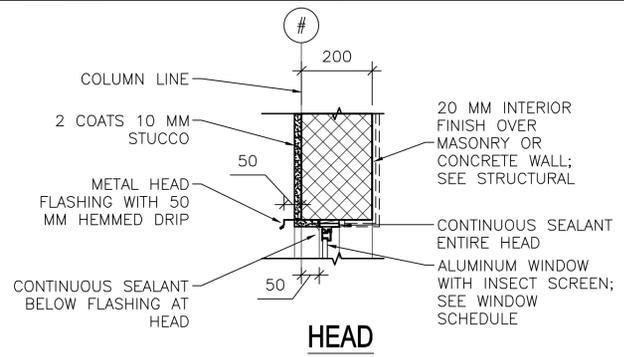
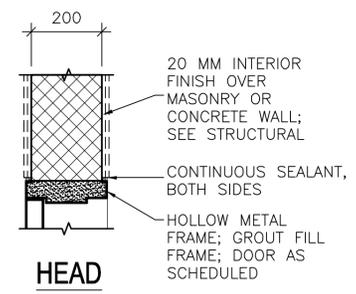
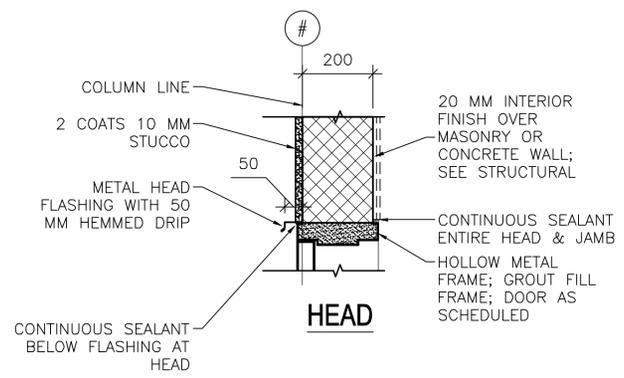
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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
EXTERIOR DETAILS

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A/E DESIGNER OF RECORD



Sheet reference number:
A-501



1 EXTERIOR DOOR DETAILS
A-502 SCALE: 1:10

2 INTERIOR DOOR DETAILS
A-502 SCALE: 1:10

3 EXTERIOR WINDOW DETAILS
A-502 SCALE: 1:10



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Date: 2/23/10
 Design file no.:
 Drawing code: ANACR00A-02045
 File name: ANACR00A-02045
 Plot date: 2/22/2010
 Plot scale: x:1

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 STANDARD DESIGN
 200 STUDENT CLASSROOM BUILDING
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 HEAD, JAMB & SILL
 DETAILS

Sheet reference number:
A-502

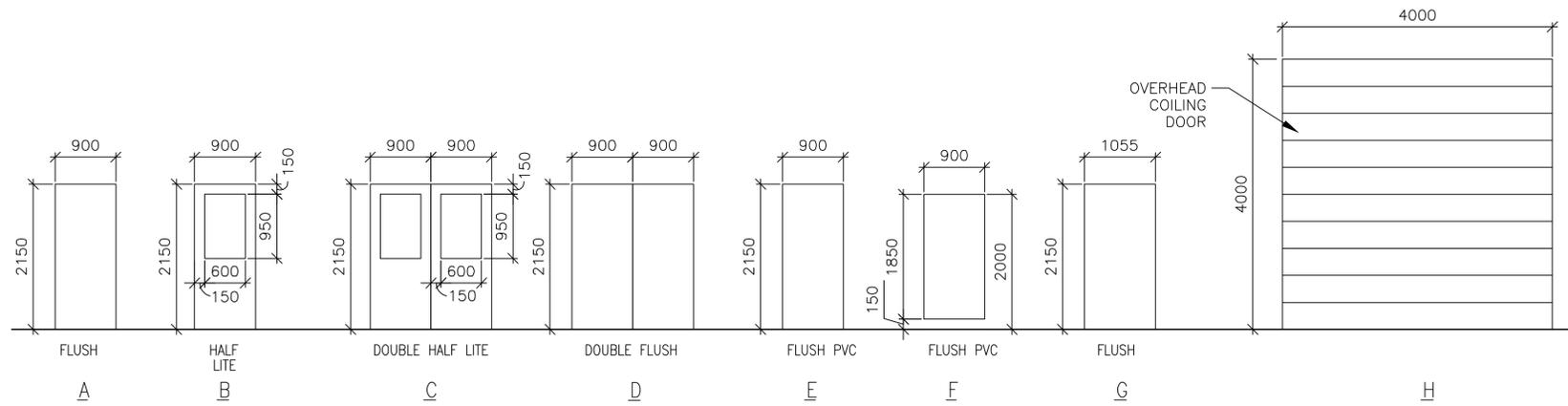
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SEAL:

LINEAR DIMENSIONS SHOWN
 ARE IN MILLIMETERS (MM),
 UNLESS OTHERWISE NOTED

SCALE: 1:10



THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/ WINDOW/ HARDWARE TYPES FOR THE ENTIRE RMTC CONTRACT. NOT ALL DOOR/ WINDOW/ HARDWARE TYPES ARE USED FOR ANY PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE FLOOR PLAN FOR THE TYPES BEING USED.



INTERIOR DOOR HARDWARE TYPES:

- HW-5 1-1/2 PR HINGES, A8133 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011
- HW-6 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-7 1-1/2 PR HINGES, A8133
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011
- HW-8 1-1/2 PR HINGES, A8112
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-9 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-10 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
- HW-11 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F13, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
1 EA ROBE HOOK
- HW-12 1-1/2 PR HINGES, A8133
1 EA LATCHSET W/LEVER HANDLES, F76 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011
1 EA ROBE HOOK
- HW-13 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
- HW-14 3 PR HINGES, A5112 114 X 114
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011

EXTERIOR DOOR HARDWARE TYPES:

- HW-1 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-2 1-1/2 PR HINGES, A5112 114 X 114
1 EA LOCKSET, F13 ENTRY LOCK W/LEVER HANDLES, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-3 3 PR HINGES, A5112 114 X 114
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011
- HW-4 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA MAGNETIC HOLDER PIN, ATTACHED TO DOOR LEAF
2 EA MAGNETIC HOLDER RECEIVER, ATTACHED TO STOOP
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011

DOOR AND HARDWARE NOTES:

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
3. DIMENSIONS SHOWN ON DOOR TYPES DETAIL ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2200 MM FOR STANDARD PERSONNEL DOORS. CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
4. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A SATIN OR BRUSHED FINISH.
5. HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
6. DOORS IN 2 HOUR RATED PARTITIONS SHALL BE 1.5 HOUR (90 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
7. DOORS AT STAIR ENCLOSURES SHALL BE 1 HOUR (60 MINUTE) RATED AT 1 HOUR WALL IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
8. DOORS IN 1 HOUR RATED WALLS SHALL BE 3/4 HOUR (45 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
9. DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
10. PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.

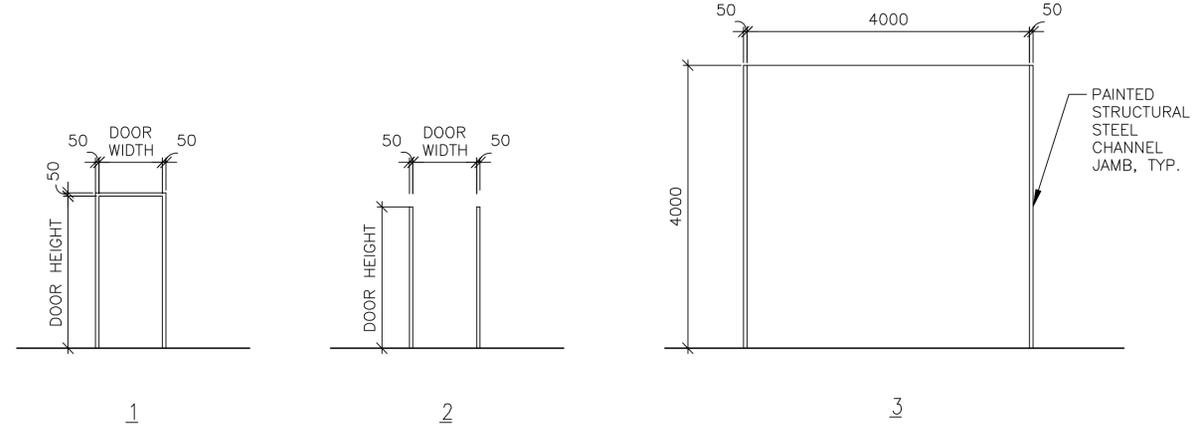
WINDOW TYPE NOTES:

1. ALL EXTERIOR WINDOWS SHALL BE ALUMINUM WITH INSECT SCREENS. WINDOWS SHALL BE COMMERCIAL GRADE.
2. ALL EXTERIOR WINDOWS SHALL BE OPERABLE.

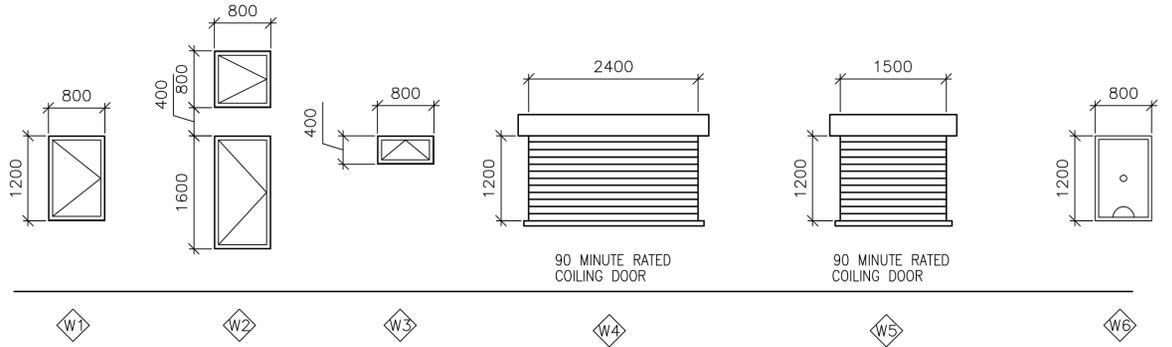
DOOR TAG NOTES:

1. THE DOOR TAG INDICATES THE DOOR TYPE, FRAME TYPE AND HARDWARE SET FOR EACH DOOR.
2. THE DOOR TAG FOR RATED DOORS INCLUDES THE RATING OF THE DOOR IN MINUTES.

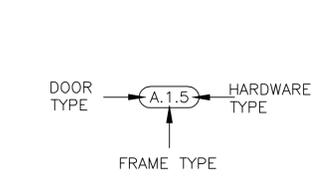
1 DOOR TYPES
SCALE: 1:50



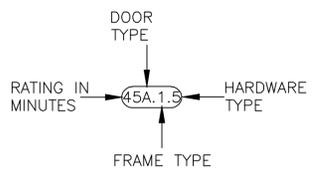
2 FRAME TYPES
SCALE: 1:50



3 WINDOW TYPES
SCALE: 1:50



4 DOOR TAG
SCALE: NTS



5 RATED DOOR TAG
SCALE: NTS

APPROVED: *[Signature]*
A/E DESIGNER OF RECORD



Rev.	Date	Description	Mark	Appr.

Designed by: KRC
Dwn by: KJG
Cld by: NLJ
Reviewed by: LHM
Submitted by: BAKER

Date: 2/23/10
Design file no.:
Drawing code: ANCR00A-07RICH
File name: ANCR00A-07RICH
Plot date: 2/23/2010
Plot scale: xx

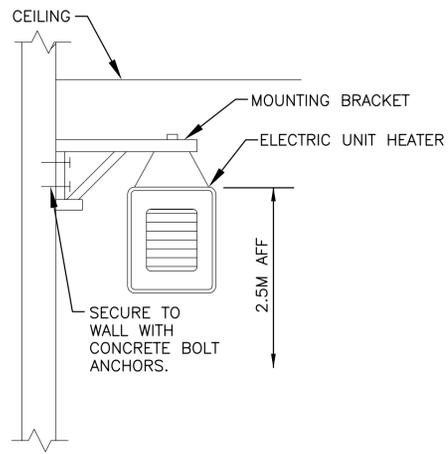
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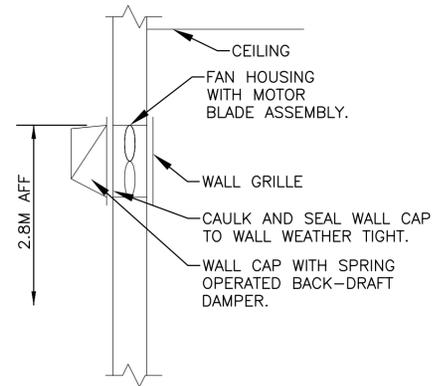
200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS

WINDOW AND DOOR SCHEDULES

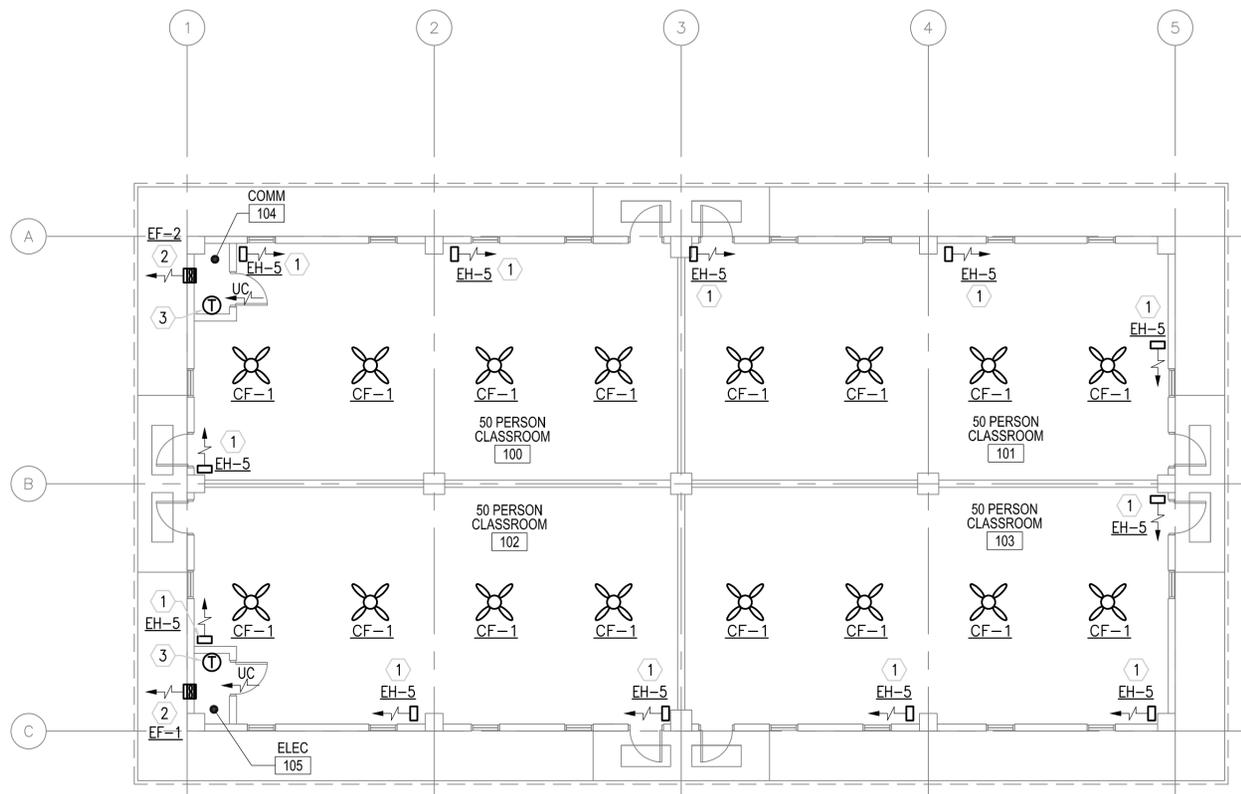
Sheet reference number:
A-601



2 ELECTRIC UNIT HEATER MOUNTING DETAIL
M-101 N.T.S.



3 THROUGH THE WALL EXHAUST FAN DETAIL
M-101 N.T.S.



1 FLOOR PLANS - HVAC
M-101 SCALE: 1:100

GENERAL NOTES:

- DO NOT SCALE DRAWINGS — ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE GOVERNING AUTHORITIES.
- ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.

SYMBOLS:

- (X) KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- UC DOOR UNDERCUT

ABBREVIATIONS:

- AFF ABOVE FINISH FLOOR
- CF CEILING FANS
- CMS CUBIC METERS PER SECOND
- EC ELECTRICAL CONTRACTOR
- STATS THERMOSTATS

KEY NOTE:

- UNIT HEATER SECURED FROM WALL. SEE DETAIL THIS SHEET.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL 3 THIS SHEET.
- THERMOSTAT MOUNTED AS HIGH AS POSSIBLE. INTERLOCK STAT WITH CORRESPONDING EXHAUST FAN, SET FAN TO ENERGIZE ON RISE IN TEMPERATURE ABOVE 25°C (77°F).

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT
EF-2	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

- NOTES:
1. FANS SHALL HAVE SPRING OPERATED BACK-DRAFT DAMPER.

ELECTRIC UNIT HEATER SCHEDULE					
NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-5	0.200	5	38	380/1/50	WALL HUNG

- NOTES:
1. UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
2. COORDINATE LOCATION AND ORIENTATION IN FIELD.

CEILING FAN					
NO.	BLADE SIZE		VOLTAGE	SWITCH	REMARKS
	mm	IN			
CF-1	1320	52	220/1/50	⊙ WALL	3 SPEED REVERSIBLE MOTOR

- NOTES:
1. PROVIDE EXTENSION DOWN RODS, INSTALL FANS 2.5M AFF.
2. PROVIDE WITH OUT LIGHT FIXTURE.
3. PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH SHOWN ON ELECTRICAL DRAWINGS.



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Rev.	Date	Description
0	02/23/10	Design file no.

Designed by: RML	Drawn by: JLN	Checked by: CUM	Reviewed by: MRS	Submitted by: BAKER
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AFGHAN NATIONAL ARMY
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200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
HVAC PLANS, SCHEDULES AND DETAILS

Sheet reference number:
M-101

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

0 2000 4000
SCALE: 1:100

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS. SEE WIRING DIAGRAM DETAIL 6, DRAWING #E-501.
3. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E-501 FOR THE POWER RISER.
5. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
6. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM DETAIL 5, DRAWING # E-501.



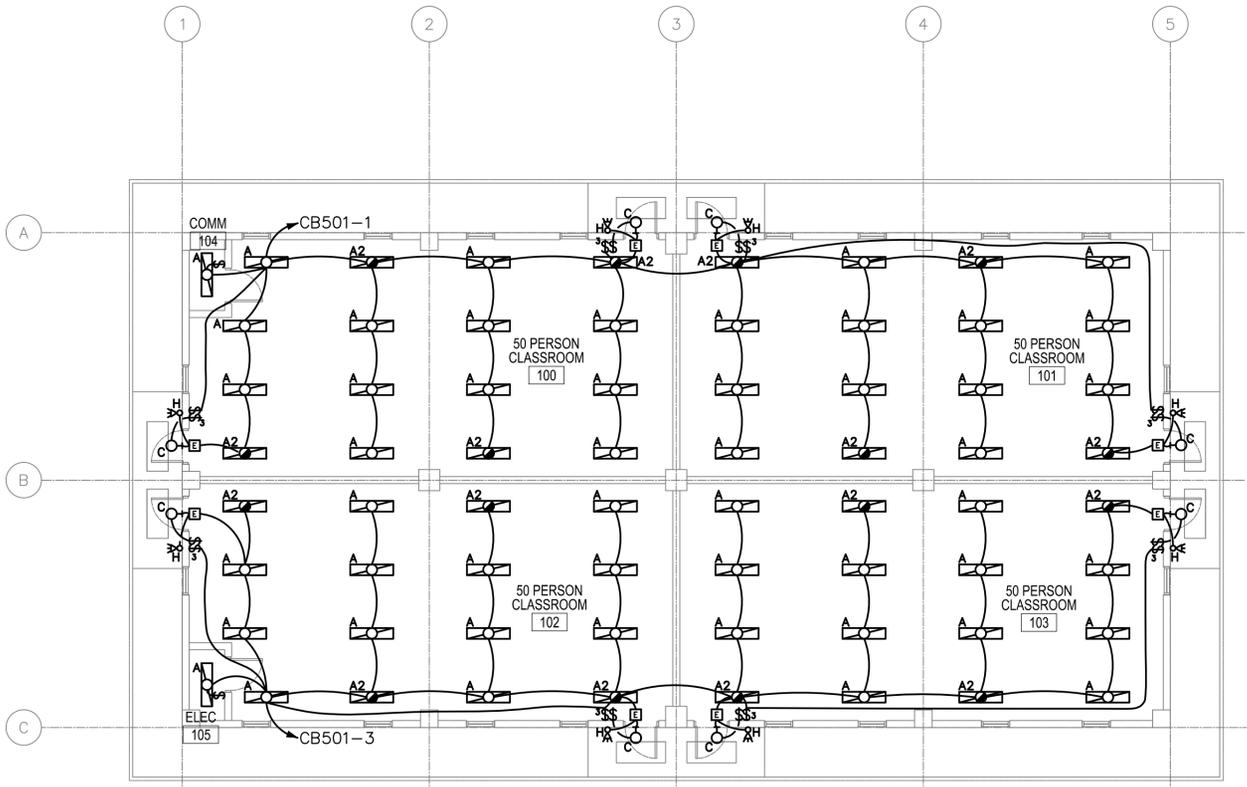
US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Date	Rev.	Description
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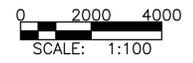
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Drawn by: BUB	Design file no.:	
Reviewed by: JRG	Drawing code:	
Submitted by: BAKER	File name:	
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AFGHAN NATIONAL ARMY
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STANDARD DESIGN
200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
ELECTRICAL LIGHTING PLAN

Sheet reference number:
E-101



200 STUDENT TOTAL
(4) 50-STUDENT CLASSROOMS - LIGHTING
SCALE: 1:100



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GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E-501 FOR THE POWER RISER.
3. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
4. COORDINATE EXACT MOUNTING LOCATION OF DISCONNECTING MEANS FOR MECHANICAL AND PLUMBING EQUIPMENT IN THE FIELD.
5. FUSIBLE SAFETY SWITCHES THAT ARE NOT OTHERWISE IDENTIFIED SHALL BE 380V, 1P, 30A FUSED SAFETY SWITCHES WITH 20A FUSES.

NUMBERED NOTES:

- 1 PANEL CB501.
- 2 PANEL CB502.
- 3 PROVIDE A 1200mm X 2400mm SHEET OF PLYWOOD PAINTED WITH FIRE RESISTANT PAINT FOR MOUNTING TELECOMMUNICATIONS EQUIPMENT.
- 4 PROVIDE CONDUIT STUB UP IN THE ROOM FOR INCOMING TELECOMMUNICATIONS SERVICES FROM THE CENTRAL COMMUNICATIONS SYSTEM IN THE GARRISON.
- 5 PROVIDE POWER CONNECTION TO EXHAUST FANS. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- 6 PROVIDE POWER CONNECTION TO ELECTRIC UNIT HEATER #5. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.



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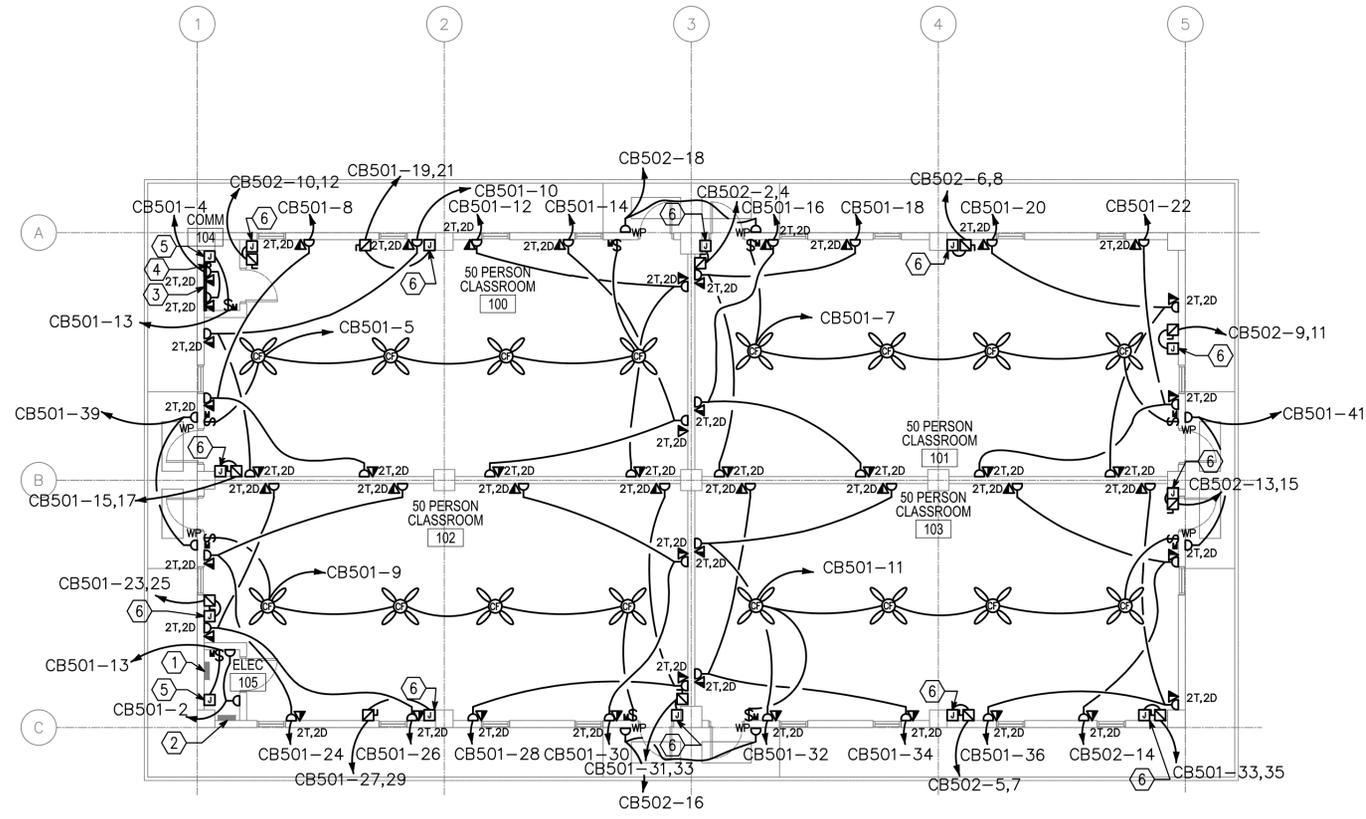
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		Date
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200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
ELECTRICAL POWER AND SYSTEMS PLAN

Sheet reference number:
E-102



200 STUDENT TOTAL
(4) 50-STUDENT CLASSROOMS - POWER AND SYSTEMS

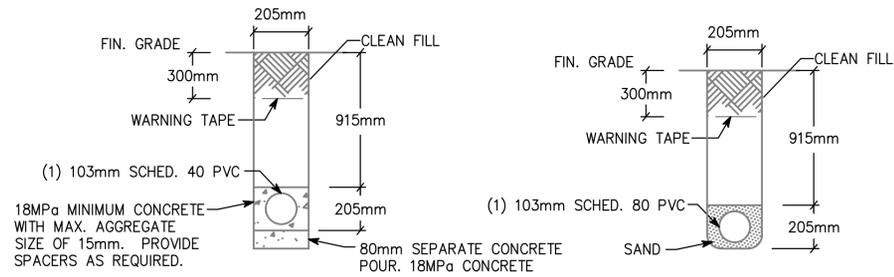
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E-102 SCALE: 1:100

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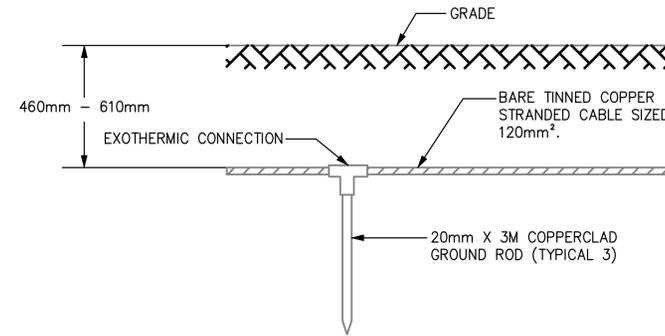
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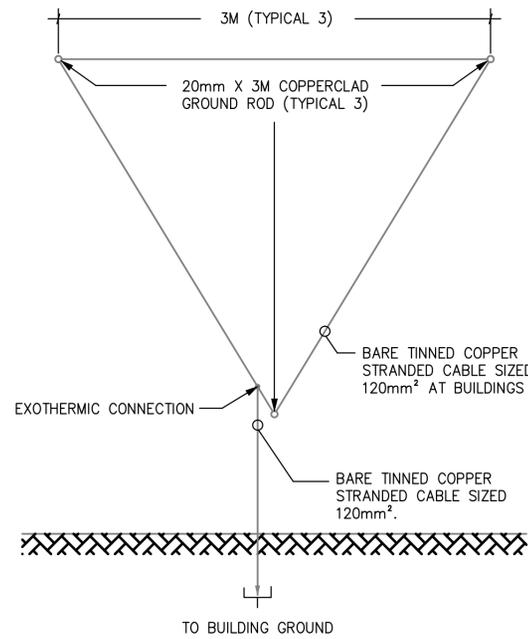


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

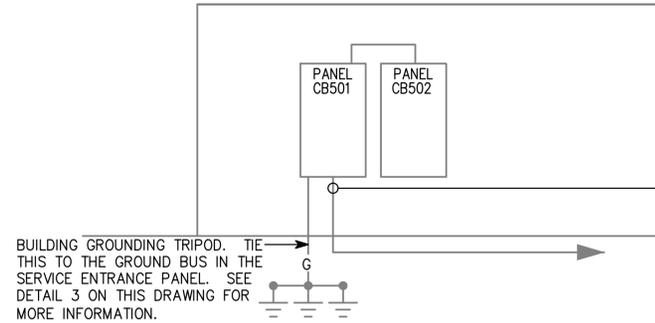
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
E-501 SCALE: N.T.S.



2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
E-501 SCALE: N.T.S.

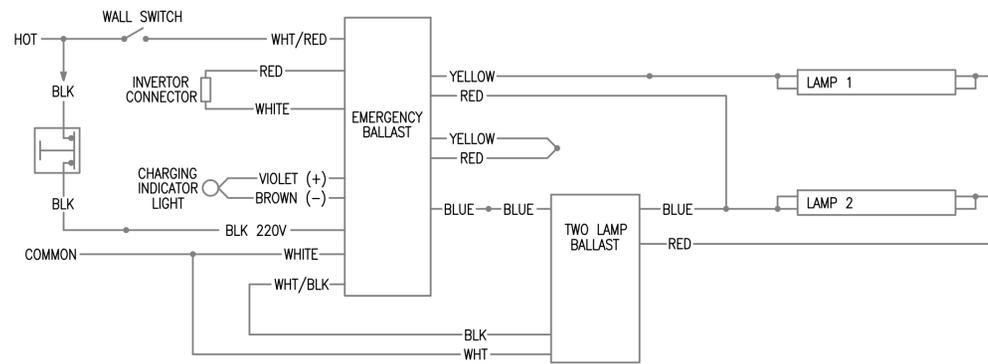


3 GROUND TRIPOD SYSTEM DETAIL - PLAN
E-501 SCALE: N.T.S.

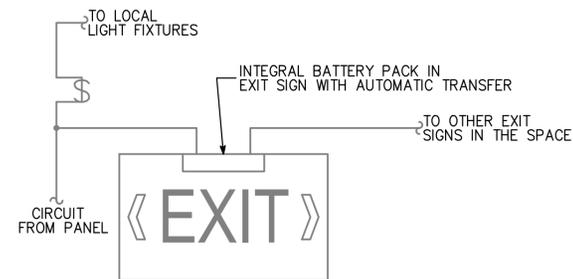


4 CB50 RISER DIAGRAM
E-501 SCALE: N.T.S.

FEED BACK TO THE MAIN DISTRIBUTION POINT FOR THE COMPOUND. AS PART OF SITE ADAPT PACKAGE, INCOMING FEED SHALL BE SIZED TO CARRY FULL LOAD CAPACITY OF THE PANEL BUS WHILE MAINTAINING ACCEPTABLE VOLTAGE DROP LEVEL. EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM PANEL TO MDP PER NEC 250.32(B). THE MINIMUM FEED SIZE SHALL BE (4) 120mm² AND (1) 25mm² GROUND IN 60mm CONDUIT.



5 EMERGENCY FIXTURE WIRING DIAGRAM
E-501 SCALE: N.T.S.



6 EXIT SIGN WIRING DIAGRAM
E-501 SCALE: N.T.S.

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		File name:
		Plot date:
		Plot scale:
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AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	200 STUDENT CLASSROOM BUILDING (4) 50 STUDENT CLASSROOMS ELECTRICAL DETAILS
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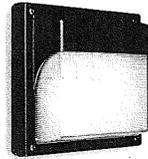
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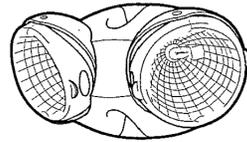
FIXTURE MARK 'A'



FIXTURE MARK 'C'



FIXTURE MARK 'H'



FIXTURE MARK 'E'



LIGHT FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
A	PARABOLIC SURFACE/PENDANT MOUNTED 300MM X 1200MM FLUORESCENT FIXTURE WITH ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IREDESCENCE TYPE.
A2	SAME AS FIXTURE 'A' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IREDESCENCE TYPE. EMERGENCY BALLAST SELF TEST.
C	INCANDESCENT ONE PIECE W/ APPROVED LENS STABILIZED HIGH IMPACT POLY CARBONATE.	(1) A19 - 100W INCANDESCENT	220V - 1Ø 50HZ	WALL MOUNTED ABOVE EXTERIOR DOORS	
H	REMOTE HEAD EXTERIOR LIGHT HEAD POWERED FROM EXIT SIGN BATTERY- 12V DOUBLE HEAD CORROSION RESISTANT WITH UL34 WEATHERPROOF CONSTRUCTION	(2) 12W/12V HALOGEN LAMP	12V - 1Ø 50HZ	EXTERIOR WALL MOUNTED AT TOP OF DOOR HEIGHT	
E	UNIVERSAL MOUNT ENGINEER GRADE THERMOPLASTIC HOUSING EXIT SIGN WITH LED LAMPS, RED LETTERS 6" IN HEIGHT WITH ARROWS AS INDICATED, WITH 12V CADMIUM BATTERY WITH REMOTE HEAD CAPABILITY	LED LAMPS	220V - 1Ø 50HZ	UNIVERSAL MOUNTING	



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Submitted by: BAKER	File name: BAKER	Plot date:	Plot scale:

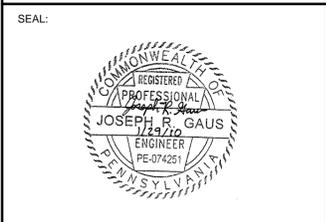
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200 STUDENT CLASSROOM BUILDING
(4) 50 STUDENT CLASSROOMS
ELECTRICAL LIGHTING FIXTURE SCHEDULE

Sheet reference number:
E-601

APPROVED:

A/E DESIGNER OF RECORD



D

C

B

A

