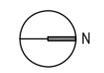


1
E3 E3
ROOF LIGHTNING PROTECTION PLAN
SCALE: 1:100



GENERAL NOTE:

1. REFER TO DRAWING #E0 FOR ELECTRICAL SYMBOLS LIST.
2. FLAG POLE SHALL HAVE THE SAME LIGHTNING PROTECTION SYSTEM AS THE POLE SUPPORTING THE PUBLIC ADDRESS SPEAKER CLUSTER. SEE DRAWING #E4 FOR DETAILS.
3. REFER TO DRAWING #E4 FOR DETAILS RELATING TO LIGHTNING PROTECTION AND GROUNDING.
4. AIR TERMINALS FOR LIGHTNING PROTECTION SYSTEM SHALL BE LOCATED 6.5 METERS MAXIMUM APART.
5. COPPER COUNTERPOISE GROUND SHALL BE LOCATED 700mm MINIMUM FROM BUILDING FOOTPRINT.

NUMBERED NOTE:

- ① TO LIGHTNING PROTECTION ON THE FLAGPOLE.
- ② TO LIGHTNING PROTECTION ON THE POLE THAT THE SPEAKER CLUSTER IS LOCATED ON.
- ③ CADWELD TO BUILDING STRUCTURE AT 18 METERS O.C. AROUND ENTIRE PERIMETER OF BUILDING. (TYPICAL).
- ④ 120mm² LIGHTNING PROTECTION CABLE.
- ⑤ AIR TERMINAL (TYPICAL).
- ⑥ (1) 120.0mm² BARE, TINNED COPPER COUNTERPOISE GROUND 700mm BELOW GRADE.
- ⑦ INSTALL DOWN CONDUCTOR IN 25mm SCHEDULE 80 PVC CONDUIT TO 20mm DIAMETER x 3 METERS SOLID COPPER TINNED GROUND ROD. (TYPICAL).
- ⑧ (1) 120mm² BARE, TINNED COPPER IN 25mm PVC CONDUIT.
- ⑨ CADWELD TO BUILDING STRUCTURE AND/OR TO THE GROUND LOOP.
- ⑩ (1) 120mm² BARE, TINNED COPPER IN 25mm CONDUIT.

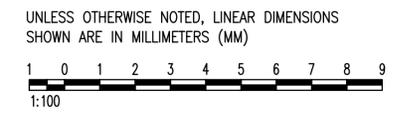


SYMBOL	DESCRIPTION	DATE	APP

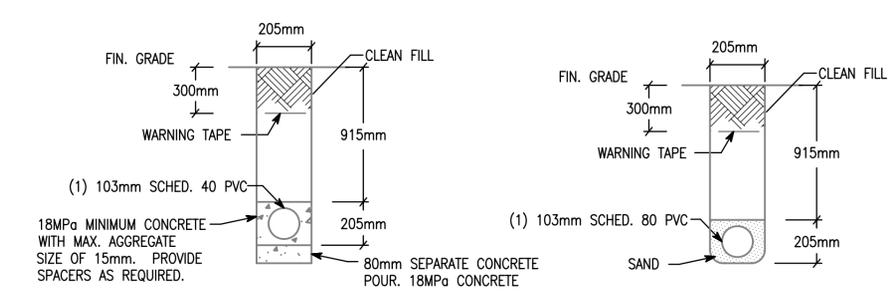
DESIGNED BY: JRG	DATE: 09-30-09	SUBMITTED BY: BAKER	FILE NO: ANPSDE-103XXX
DWN BY: KJG	CHK BY: KRC	Michael Baker, Jr. Inc. A Unit of Michael Baker Corporation 1000 Business Park Moon Township, PA 15108 www.mbakercorp.com	

AFGHAN NATIONAL POLICE
STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION
ROOF LIGHTNING PROTECTION PLAN

SHEET REFERENCE NUMBER:
E3

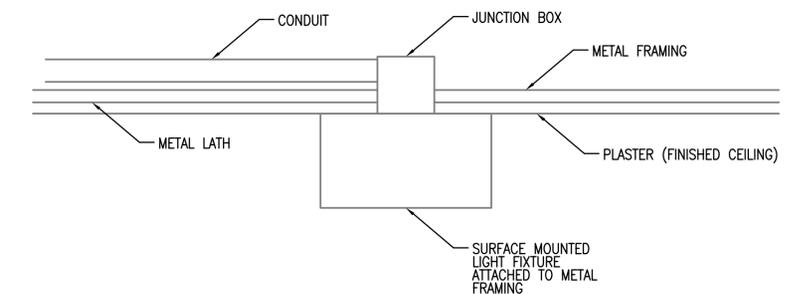


100% SUBMISSION

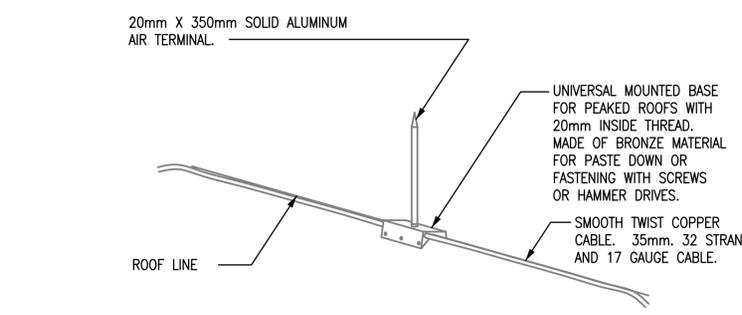


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

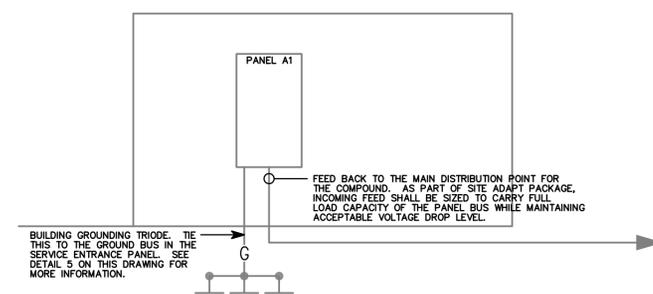
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.



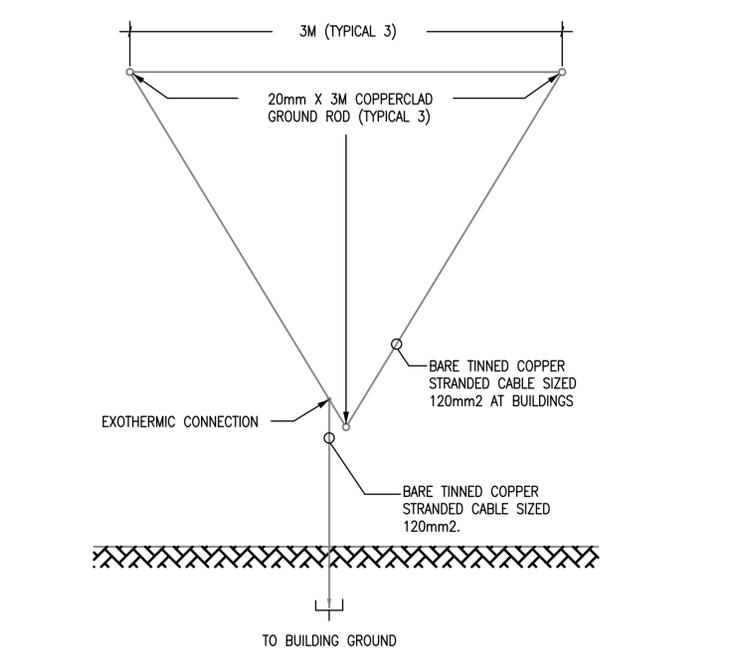
2 TYPICAL DETAIL FOR SURFACE MOUNTED LIGHT FIXTURES
SCALE: N.T.S.



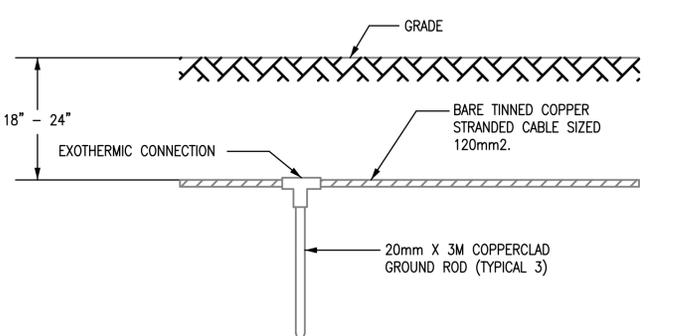
3 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: N.T.S.



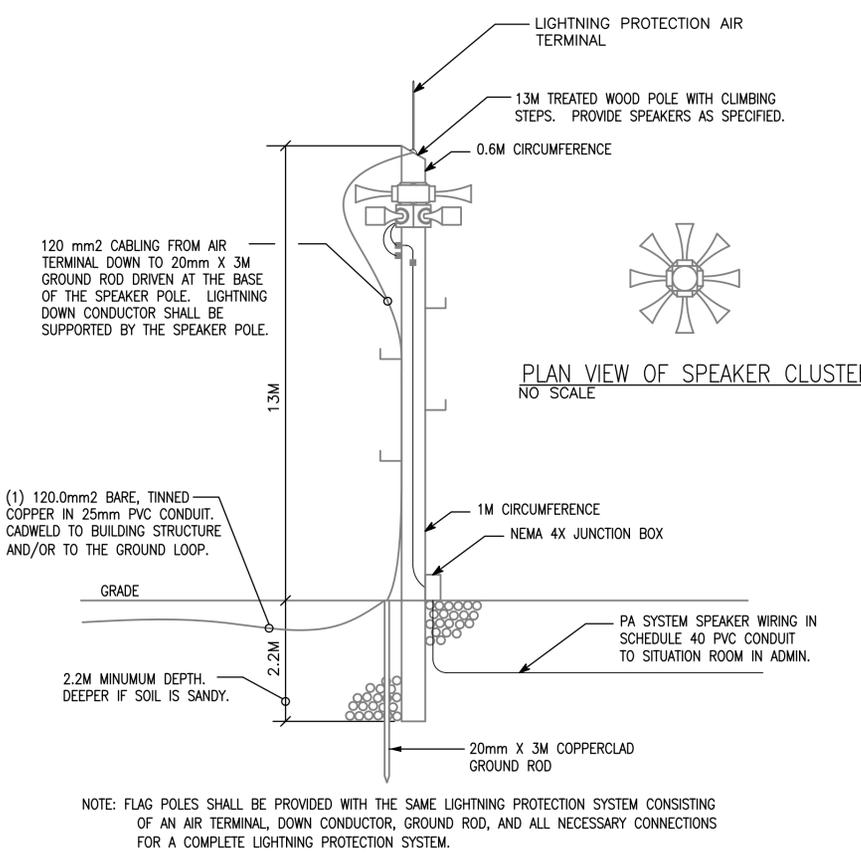
4 A.5 RISER DIAGRAM
SCALE: N.T.S.



5 GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



6 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
SCALE: N.T.S.



7 POLE DETAIL - PA SYSTEM
SCALE: N.T.S.

US Army Corps of Engineers
Afghanistan Engineer District

NO.	DESCRIPTION	DATE	APP.

DESIGNED BY:	JRG	DATE:	09-30-09
DWN BY:	JRG	SUBMITTED BY:	BAKER
CHK BY:	JRG	FILE NO.:	ANPSDE-504XXX

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STANDARD DESIGN
ADMINISTRATION BUILDING (508 GSM)
WOOD FIRED HEAT OPTION

DETAILS

SHEET REFERENCE NUMBER:
E4

100% SUBMISSION

DATE	DESCRIPTION
APR	

DESIGNED BY: DATE: 09-30-09	MMY	SUBMITTED BY: BAKER	FILE NO: ANFSDS-306XXX
DWN BY: RCG	CHK BY: CWV		

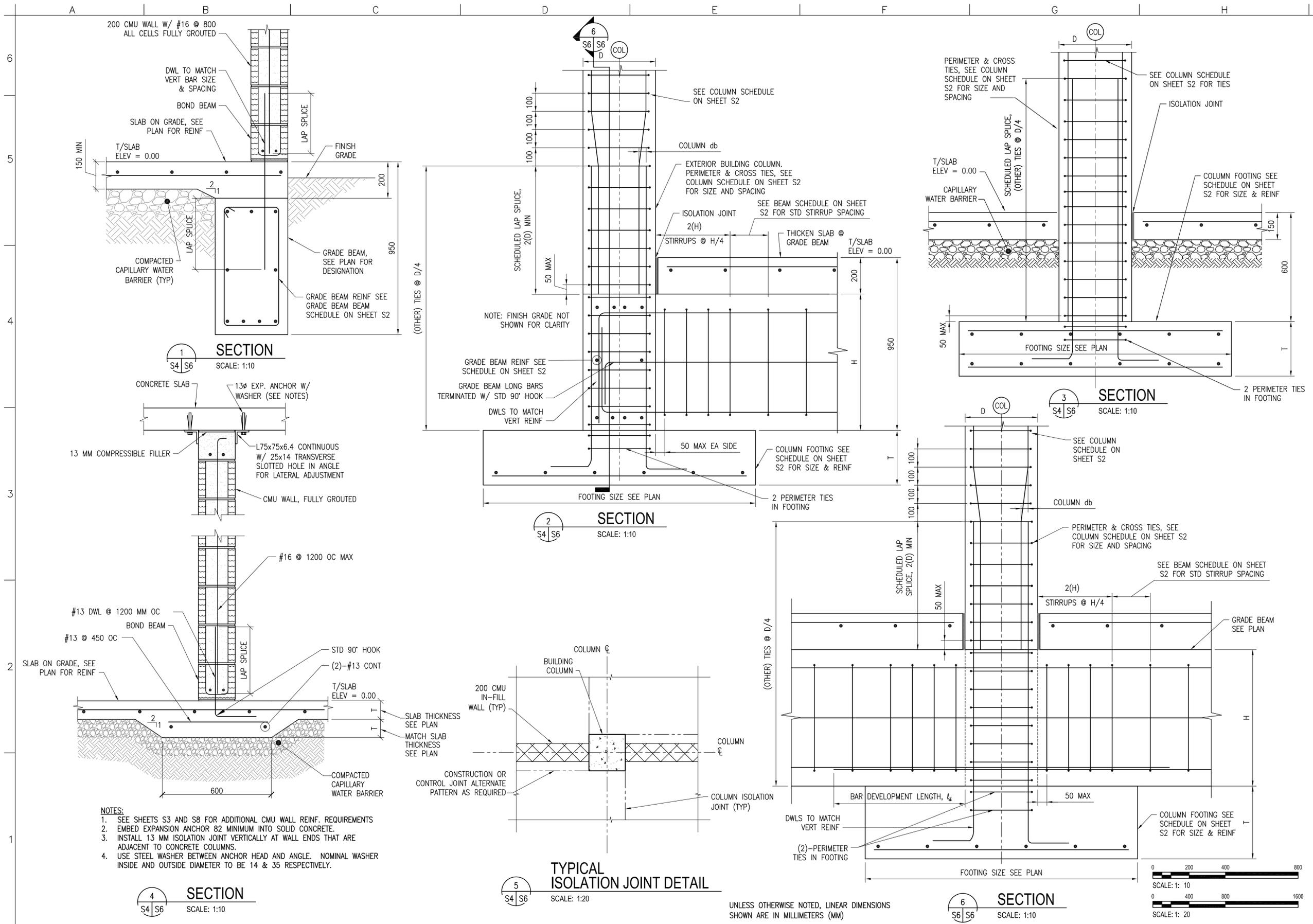
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A Unit of Michael Baker Corporation
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Moon Township, PA 15108
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STANDARD DESIGN
BARRACK BUILDING, OPEN BAY (579 GSM)
WOOD FIRED HEAT OPTION

FOUNDATION SECTIONS & DETAILS

SHEET REFERENCE NUMBER:
S6

100% SUBMISSION

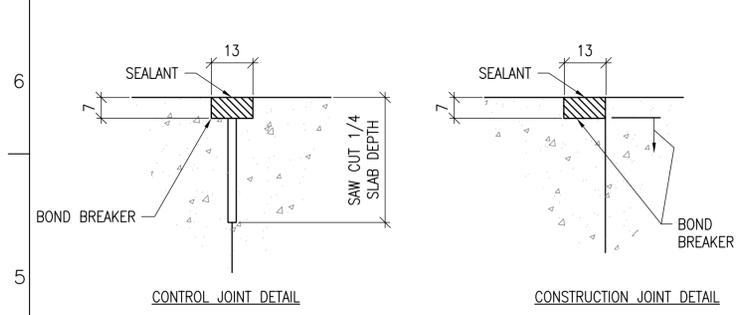


- NOTES:
- SEE SHEETS S3 AND S8 FOR ADDITIONAL CMU WALL REINF. REQUIREMENTS
 - EMBED EXPANSION ANCHOR 82 MINIMUM INTO SOLID CONCRETE.
 - INSTALL 13 MM ISOLATION JOINT VERTICALLY AT WALL ENDS THAT ARE ADJACENT TO CONCRETE COLUMNS.
 - USE STEEL WASHER BETWEEN ANCHOR HEAD AND ANGLE. NOMINAL WASHER INSIDE AND OUTSIDE DIAMETER TO BE 14 & 35 RESPECTIVELY.

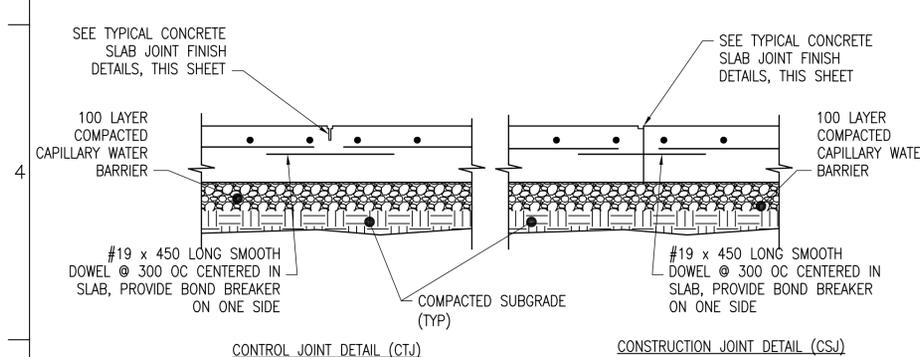
UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)



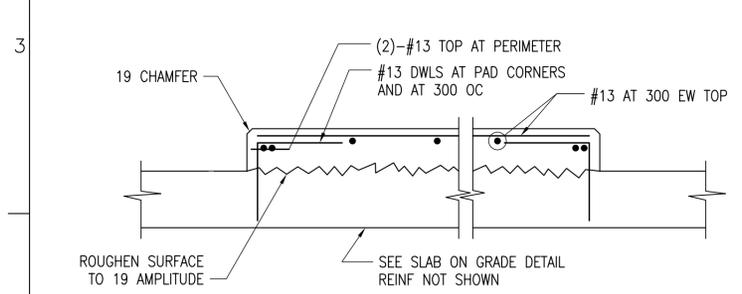
A B C D E F G H



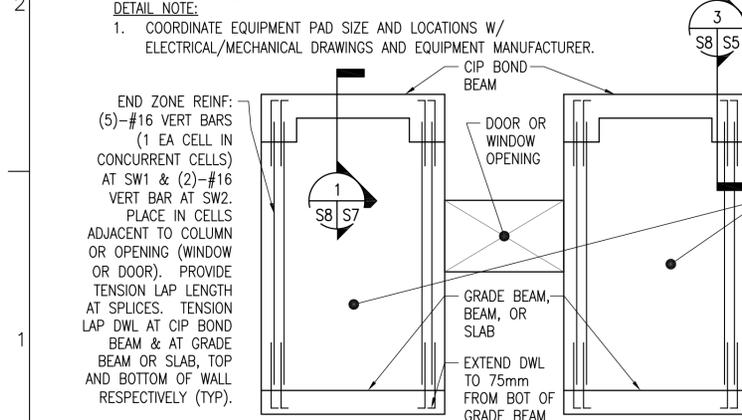
TYPICAL CONCRETE SLAB JOINT FINISH DETAIL
SCALE: NTS



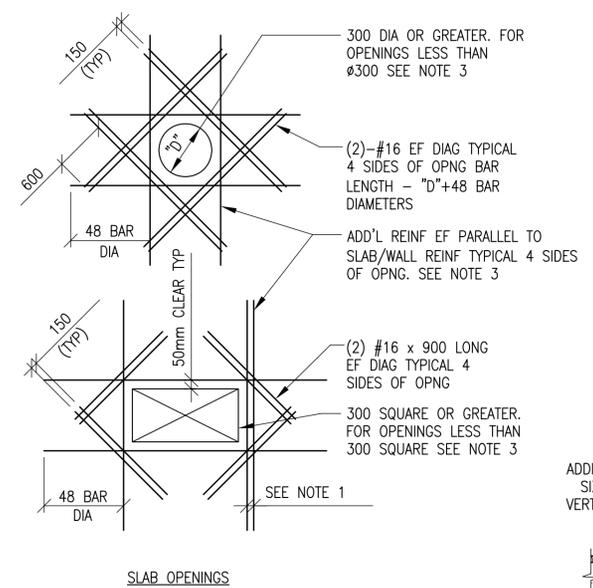
TYPICAL SLAB ON GRADE JOINT DETAILS
SCALE: NTS



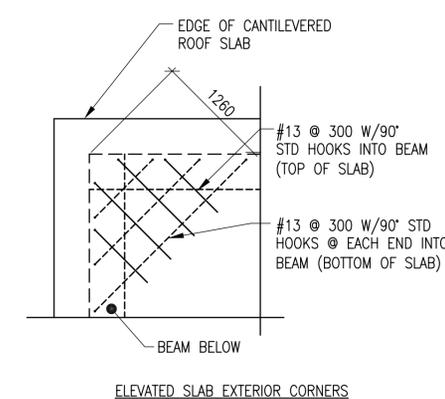
INTERIOR EQUIPMENT PAD DETAIL
SCALE: NTS



SPECIAL REINFORCED MASONRY SHEAR WALL ELEVATION
SCALE: NTS



SLAB OPENINGS

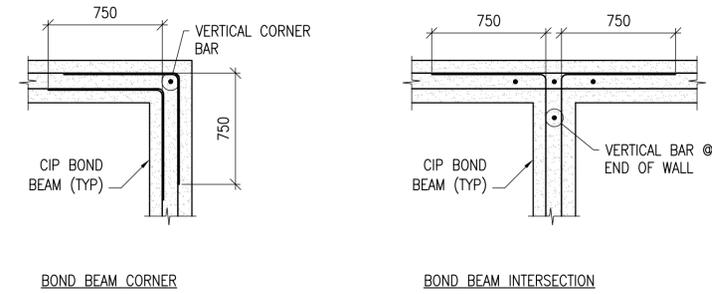


ELEVATED SLAB EXTERIOR CORNERS

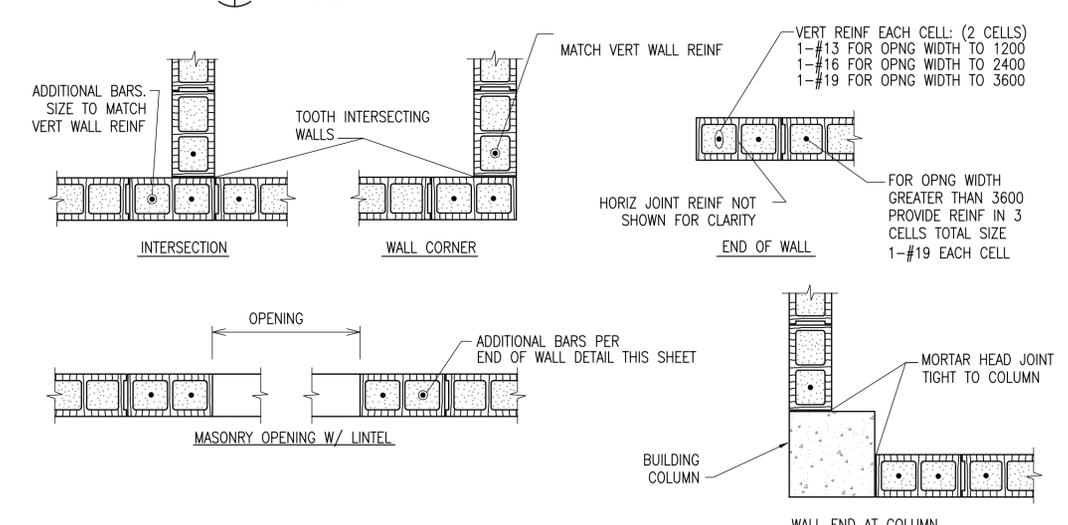
ADD'L REINFORCEMENT DETAILS
SCALE: NTS

- DETAIL NOTES:
- WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINF THE ADDITIONAL REINF BARS SHALL BE SPACED AT 100 ON CENTER.
 - ADDITIONAL REINF PARALLEL TO THE SLAB/WALL REINF SHALL BE #16 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE OF THE OPENING EQUAL TO 1/2 THE AREA OF THE REINF CUT BY THE OPENING.
 - FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 300 SPREAD THE SLAB/WALL REINF TO CLEAR THE OPENING.

- DETAIL NOTE:
- PROVIDE (2)-#16 IN BOND BEAMS AT 1200 OC, NOT SHOWN.

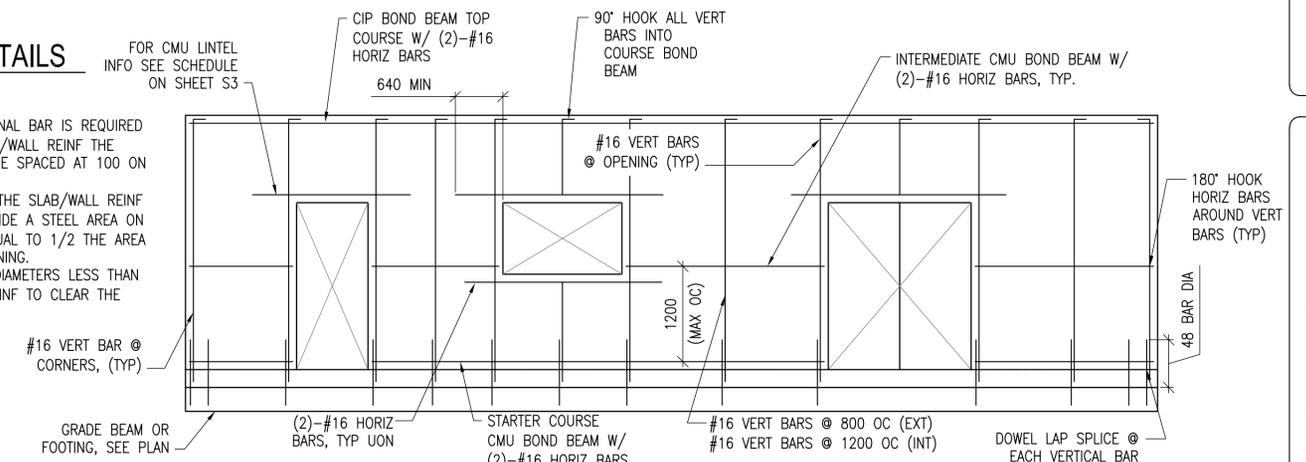


CIP BOND BEAM DETAILS
SCALE: NTS



- NOTES:
- OPENING WIDTH SHALL NOT EXCEED 3600 FOR THIS TYPE OF JAMB
 - ALL CELLS FULLY GROUTED

TYPICAL CMU DETAILS
SCALE: NTS



MIN CMU WALL REINFORCING
SCALE: NTS

- LINTEL NOTES:
- CMU LINTEL REINFORCEMENT AS PER SCHEDULE ON SHEET S3

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

DATE	DESCRIPTION
APR	

DESIGNED BY:	DATE:	09-30-09
MMY	SUBMITTED BY:	BAKER
DWN BY:	RCG	
CHK BY:	CWW	
FILE NO.:	ANFSDS-508XXX	

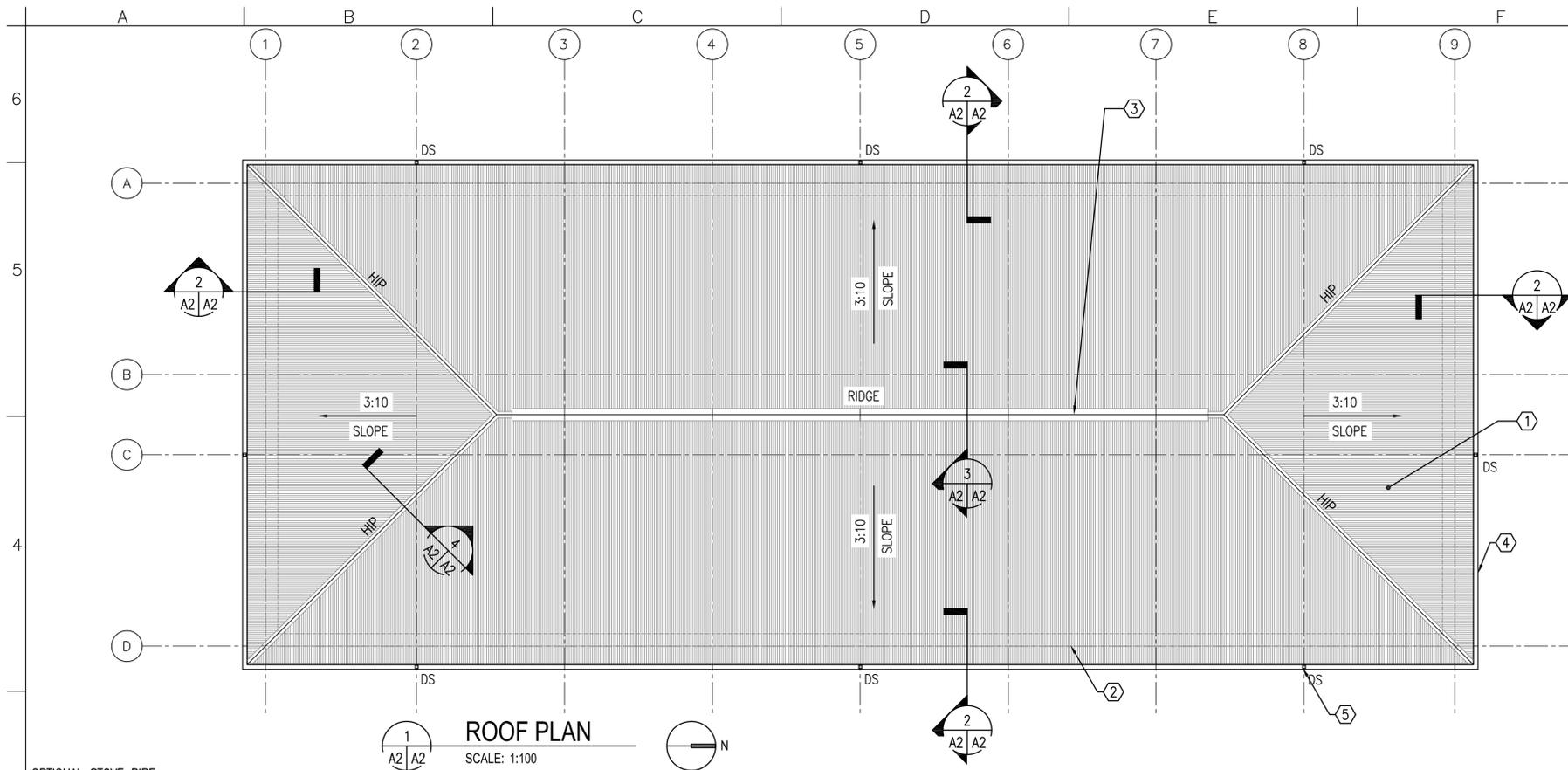
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
BARRACK BUILDING, OPEN BAY (579 GSM)
WOOD FIRED HEAT OPTION

TYPICAL DETAILS

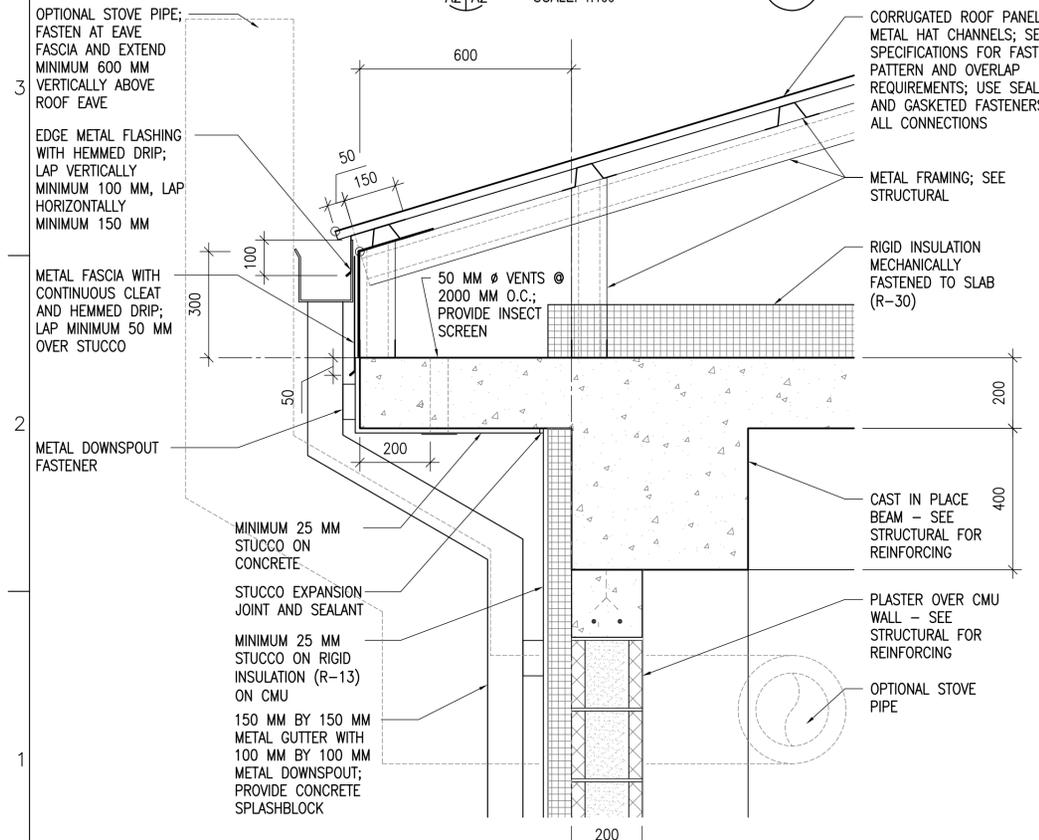
SHEET REFERENCE NUMBER:
S8

100% SUBMISSION



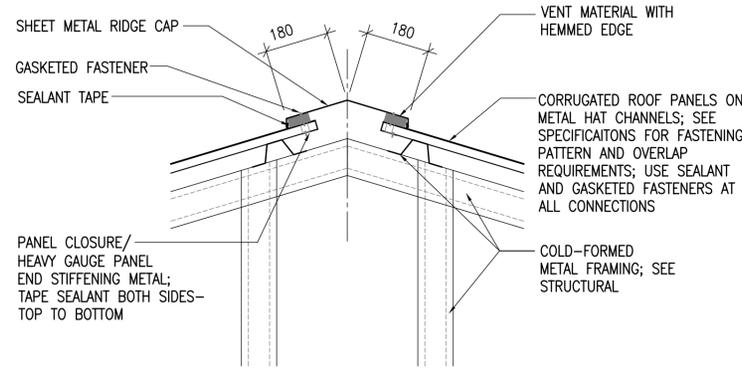
1 ROOF PLAN

SCALE: 1:100



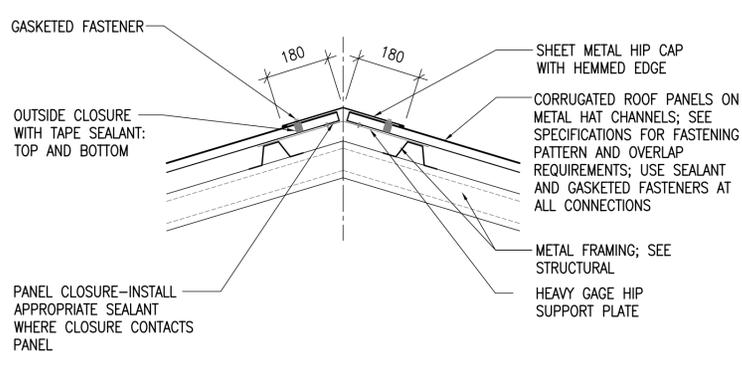
2 EAVE DETAIL

SCALE: 1:10



3 RIDGE VENT DETAIL

SCALE: 1:10



4 HIP DETAIL

SCALE: 1:10

KEY NOTES:

1. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING
2. LINE OF BUILDING WALL BELOW
3. CONTINUOUS RIDGE VENT
4. METAL GUTTER
5. METAL DOWNSPOUT WITH SPLASHBLOCK

US Army Corps of Engineers
Afghanistan Engineer District

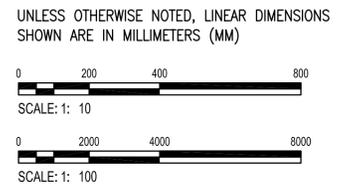
SYMBOL	DESCRIPTION	DATE

DESIGNED BY:	DATE:	09-30-09
DWB:	SUBMITTED BY:	BAKER
AAR:	CHK BY:	KRC
FILE NO.:	ANPSDA-102XXX	

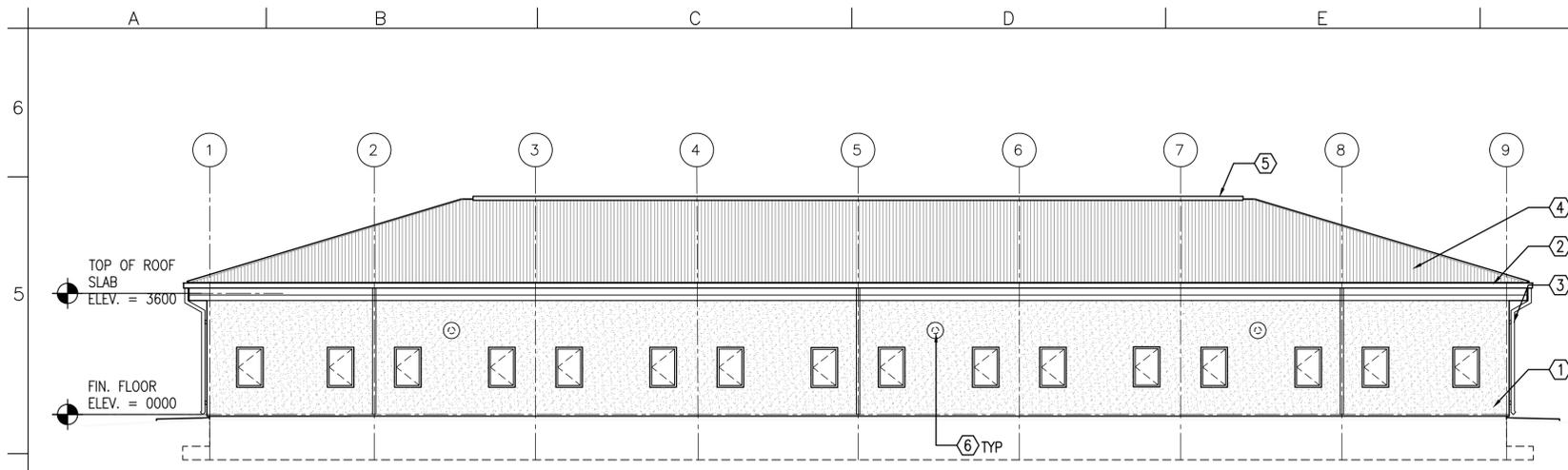
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WOOD FIRED HEAT OPTION

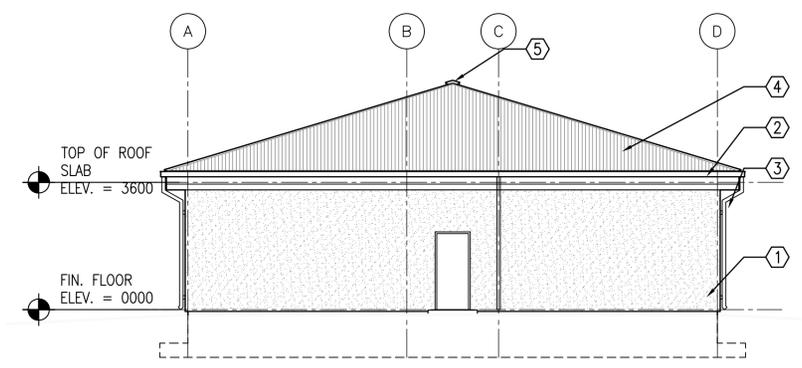
SHEET REFERENCE NUMBER:
A2



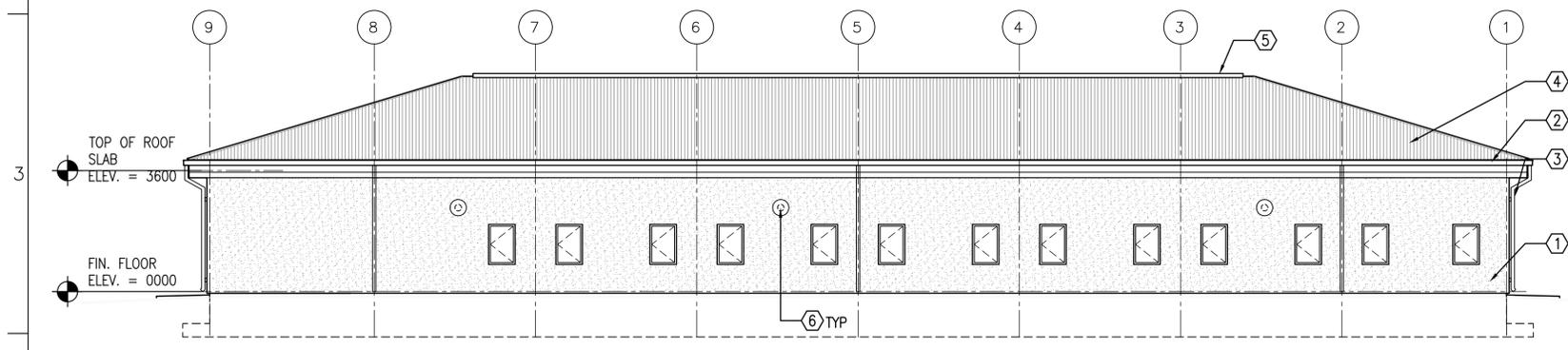
100% SUBMISSION



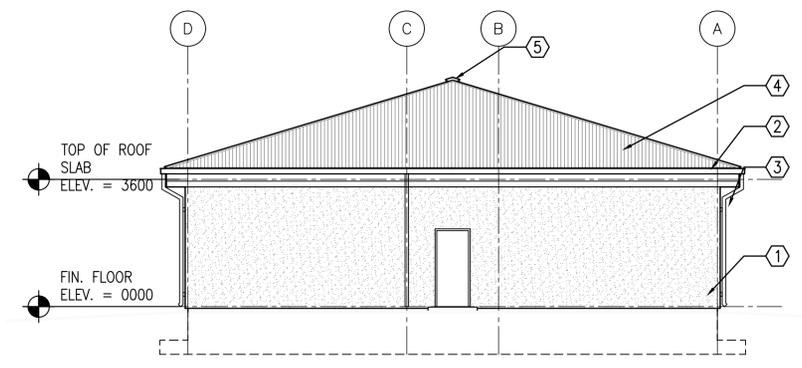
1 EAST ELEVATION
A1/A3 SCALE: 1:100



3 SOUTH ELEVATION
A1/A3 SCALE: 1:100



2 WEST ELEVATION
A1/A3 SCALE: 1:100



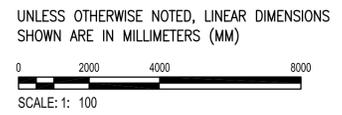
4 NORTH ELEVATION
A1/A3 SCALE: 1:100

KEY NOTES:

1. STUCCO AND RIGID INSULATION SYSTEM OVER CMU AND CONCRETE.
2. METAL GUTTER
3. METAL DOWNSPOUT WITH SPLASH BLOCK
4. CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING.
5. CONTINUOUS RIDGE VENT
8. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.

GENERAL NOTES:

1. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
2. PROVIDE STRUCTURAL LINTELS AS REQUIRED - RE: STRUCT



US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY:	DATE:	09-30-09
DWN BY:	DLB	
CHK BY:	AAR	
KRC		
SUBMITTED BY:	BAKER	
FILE NO.:	ANPSDA-203XXX	

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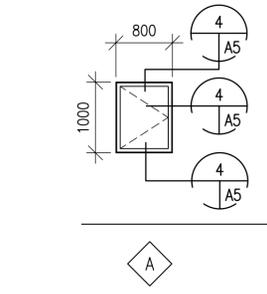
AFGHAN NATIONAL POLICE
STANDARD DESIGN
BARRACK BUILDING, OPEN BAY (579 GSM)
WOOD FIRED HEAT OPTION
EXTERIOR ELEVATIONS

SHEET REFERENCE NUMBER:
A3

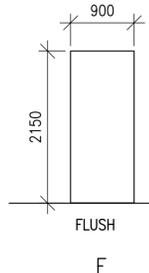
100% SUBMISSION

A B C D E F G H

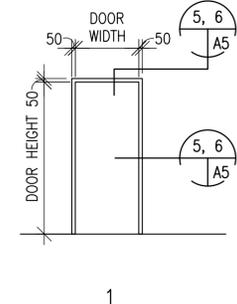
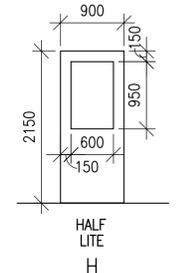
6
5
4
3
2
1



1 WINDOW TYPES
SCALE: 1:50



2 DOOR TYPES
SCALE: 1:50



3 FRAME TYPES
SCALE: 1:50

WINDOW TYPES NOTES:

1. ALL EXTERIOR WINDOWS SHALL BE WOOD WITH INSECT SCREENS. WINDOWS SHALL BE COMMERCIAL GRADE.
2. GLAZING SHALL BE ACRYLIC SHEET.

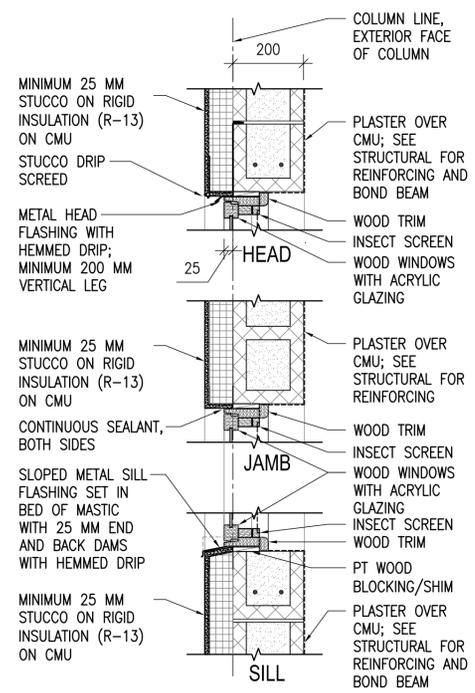
DOOR TYPES NOTES:

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A MATTE FINISH.
3. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE FASTENING POINTS PER SIDE AT REGULAR INTERVALS.
4. DIMENSIONS SHOWN ON DOOR SCHEDULE ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2200mm 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.
5. DOORS SHALL BE 45 MINUTE DOORS AS REQUIRED IN 1 HOUR RATED WALLS. (NFPA 101, TABLE 8.3.4.2.).

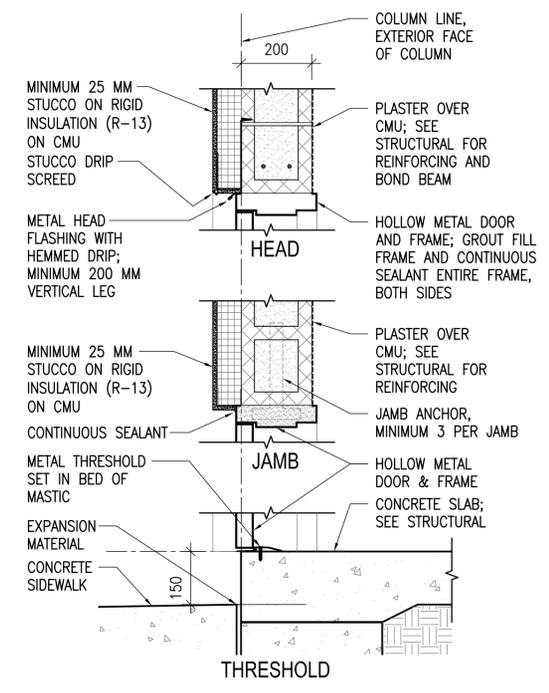


DOOR HARDWARE TYPES:

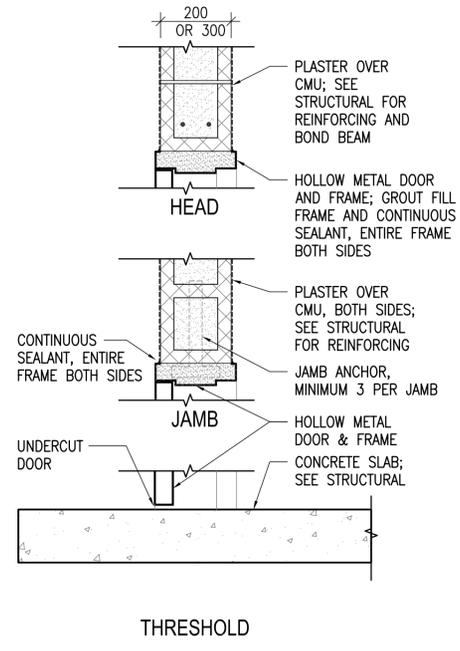
- HW-1 1-1/2 PR HINGES
 1 EA EXIT DEVICE, SURFACE MOUNTED F08
 1 EA CYLINDER, GRADE 1
 1 EA DOOR CLOSER, C02061, LOW RESISTANCE
 1 EA THRESHOLD J32130
- HW-2 1-1/2 PR HINGES
 1 EA LOCKSET W/LEVERS, GRADE 1
 1 EA DOOR CLOSER, C02061, LOW RESISTANCE



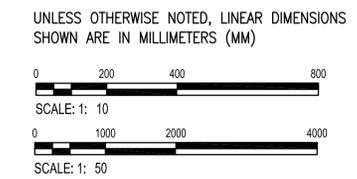
4 WINDOW DETAILS
SCALE: 1:10



5 EXTERIOR DOOR DETAILS
SCALE: 1:10



6 INTERIOR DOOR DETAILS
SCALE: 1:10



SYMBOL	DESCRIPTION	DATE

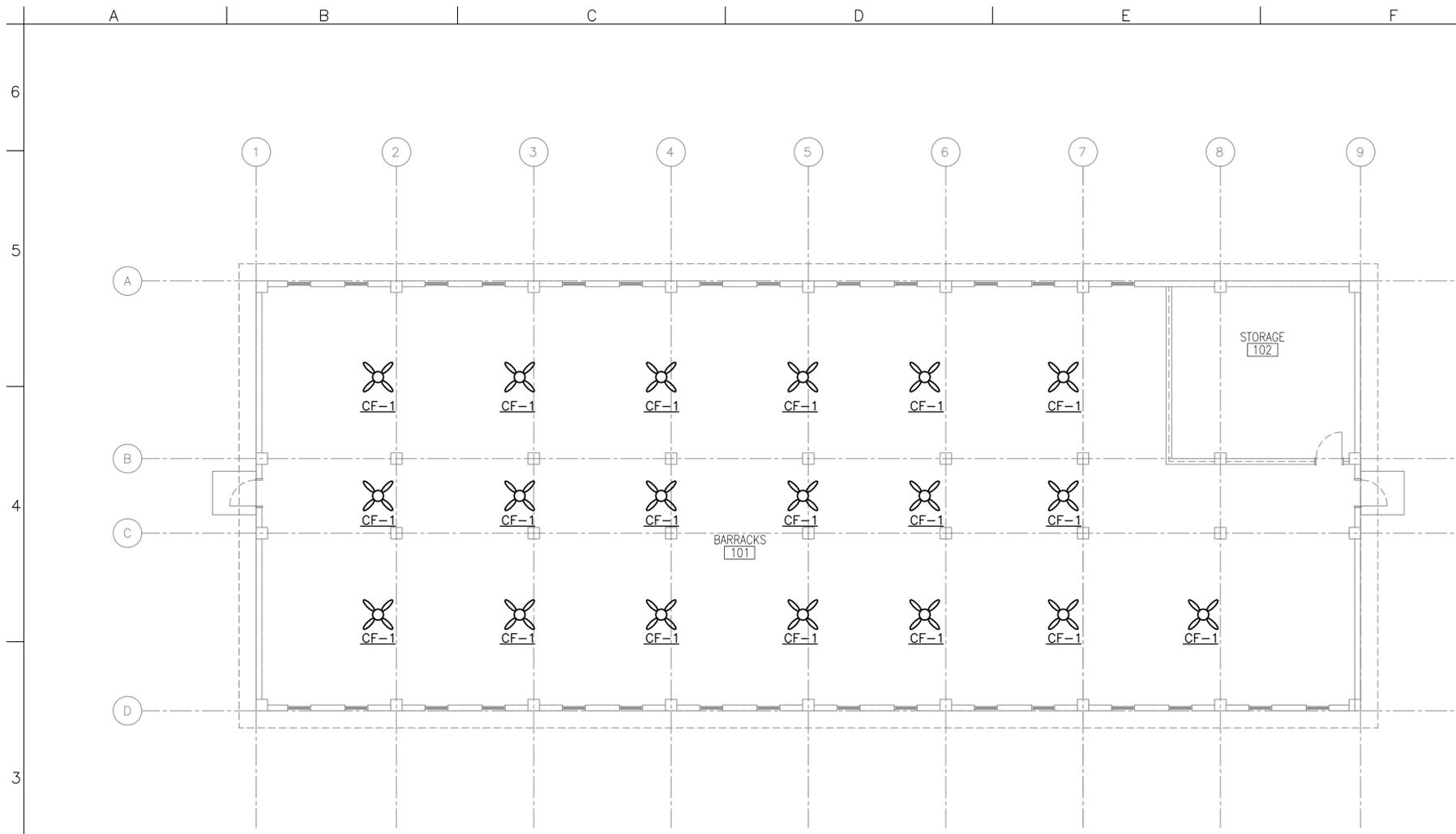
DESIGNED BY:	DATE:	09-30-09
DWB	SUBMITTED BY:	BAKER
AAR	CHK BY:	KRC
FILE NO.:	ANPSDA-305XXX	

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AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 BARRACK BUILDING, OPEN BAY (579 GSM)
 WOOD FIRED HEAT OPTION
 DOOR, WINDOW & FINISH TYPES & DETAILS

SHEET REFERENCE NUMBER:
A5

100% SUBMISSION




PLAN - HVAC
 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.

NO.	BLADE SIZE		VOLTAGE	SWITCH
	mm	IN		
CF-1	1320	52	220/1/50	⊙ WALL

NOTES:
 1. FINAL ELECTRICAL CONNECTIONS BY EC.



DATE	DESCRIPTION	SYMBOL

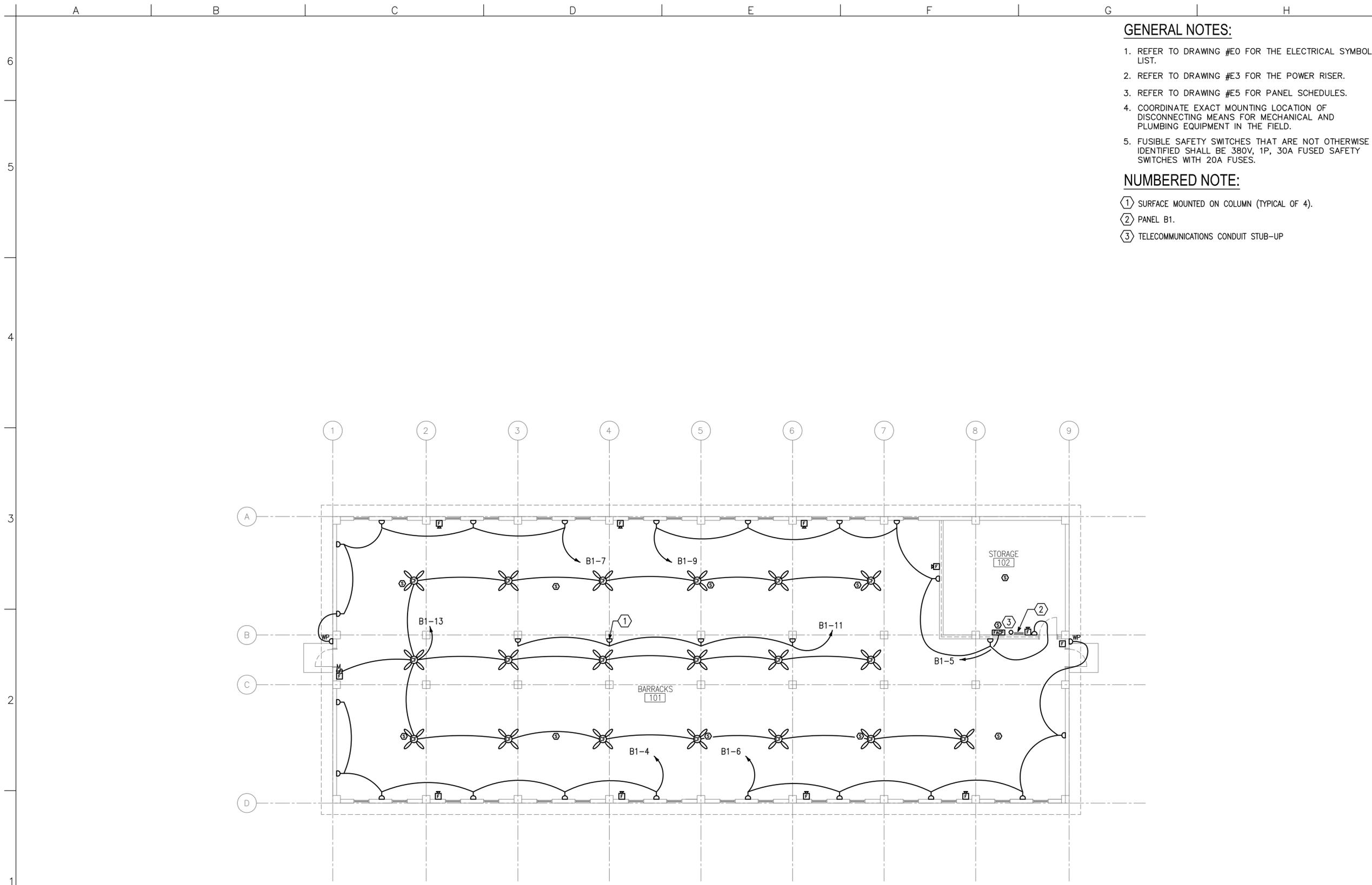
DESIGNED BY:	DATE:	09-30-09
RML	SUBMITTED BY:	BAKER
DWN BY:	JUN	
CHK BY:	CJM	
	FILE NO.:	ANFSDM-101XXX

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AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 BARRACK BUILDING, OPEN BAY (579 GSM)
 WOOD FIRED HEAT OPTION
 PLAN - HVAC

SHEET
 REFERENCE
 NUMBER:
M1

100% SUBMISSION

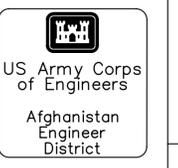


GENERAL NOTES:

1. REFER TO DRAWING #E0 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E3 FOR THE POWER RISER.
3. REFER TO DRAWING #E5 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 NOTE:

- ① SURFACE MOUNTED ON COLUMN (TYPICAL OF 4).
- ② PANEL B1.
- ③ TELECOMMUNICATIONS CONDUIT STUB-UP



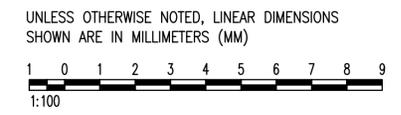
SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: JRG	DATE: 09-30-09
DWN BY: JRG	SUBMITTED BY: BAKER
CHK BY: JRG	FILE NO: ANPSDE-102XXX
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AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 BARRACK BUILDING, OPEN BAY (579 GSM)
 WOOD FIRED HEAT OPTION
 POWER AND SYSTEMS PLAN

SHEET REFERENCE NUMBER:
E2

POWER AND SYSTEMS PLAN
 SCALE: 1:100



100% SUBMISSION

STRUCTURAL DESIGN CRITERIA (CONT)

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE IBC 2006 AS APPLICABLE

1.5 WIND LOADS (PER IBC 2006)

1.5.1 DESIGN PARAMETERS

BASIC WIND SPEED	137 Km/h
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE CATEGORY	D
DIRECTIONALITY COEFFICIENT (Kd)	0.85
TOPOGRAPHIC FACTOR (Kzt)	1.0

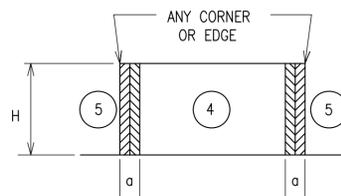
1.5.2 DESIGN WIND PRESSURE – MAIN WINDFORCE RESISTING SYSTEM

LOCATION	CORNER ZONE WIDTH "a"	MEAN ROOF HEIGHT (h)	WINDWARD WALL (@ MEAN ROOF HEIGHT)	LEEWARD WALL (@ MEAN ROOF HEIGHT)	ROOF
FIELD ZONE	N/A	4920 mm	680 N/m ²	-480 N/m ²	-470 N/m ²
CORNER ZONE	1440mm	4920 mm	800 N/m ²	-418 N/m ²	-750 N/m ²

a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 0.9M.
 h = MEAN ROOF HEIGHT, IN METERS, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLE GREATER THAN 10°.

1.5.3 DESIGN WIND PRESSURE – WALL COMPONENTS AND CLADDING

EXTERIOR WALL SYSTEMS & THEIR ATTACHMENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE DIAGRAM BELOW:



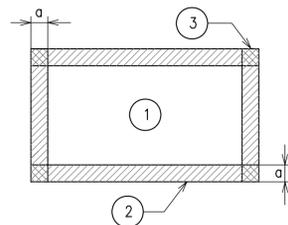
LOCATION	WINDWARD PRESSURE N/m ² (inward)		LEEWARD PRESSURE N/m ² (outward)		a (mm)
	④	⑤	④	⑤	
MAIN BUILDING					(mm)
AREA = 1 m ²	788	788	-850	-1050	1440
AREA = 2 m ²	748	748	-815	-967	1440
AREA = 5 m ²	700	700	-765	-880	1440
AREA = 10 m ²	648	648	-715	-750	1440

NOTES:
 1. DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
 2. LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

1.5 WIND LOADS (CONT)

1.5.4 DESIGN WIND PRESSURE – ROOF COMPONENTS AND CLADDING

ROOF COMPONENTS & THEIR ATTACHMENTS SHALL BE DESIGNED FOR THE PRESSURES SHOWN IN THE ADJACENT DIAGRAM & TABLE BELOW:



ROOF MEAN HEIGHT

LOCATION	GROSS UPLIFT PRESSURE N/m ² (upward)			a (mm)
	①	②	③	
MAIN BUILDING				(mm)
AREA = 1 m ²	-787	-931	-1738	1440
AREA = 2 m ²	-787	-931	-1738	1440
AREA = 5 m ²	-787	-931	-1738	1440
AREA = 10 m ²	-787	-931	-1738	1440

NOTES:
 1. DESIGN WIND PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF INTERNAL AND EXTERNAL PRESSURE) APPLIED NORMAL TO ALL SURFACES.
 2. LINEAR INTERPOLATION BETWEEN VALUES OF TRIBUTARY AREA IS PERMISSIBLE.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURE TOWARD AND AWAY FROM THE EXTERIOR SURFACE, RESPECTIVELY.

2.0 FOUNDATION DESIGN CRITERIA (TO BE CONFIRMED BY THE CONTRACTOR)

THE GEOTECHNICAL ANALYSIS FOR THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR AWARDED THE WORK. DESIGN VALUES USED IN THE STRUCTURAL ANALYSIS OF THE BUILDINGS HEREIN INDICATED HAVE BEEN ASSUMED AND SHALL BE CONFIRMED AND VERIFIED AS PART OF THE GEOTECHNICAL INVESTIGATION. VALUES WHICH DO NOT MEET THE REQUIREMENTS INDICATED BELOW SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER FOR CONSIDERATION AND DETERMINATION ON THE NEXT APPROPRIATE COURSE OF ACTION.

2.1.1 SOIL DESIGN PARAMETERS

NET ALLOWABLE SOIL BEARING CAPACITY	96.0 KPa
UNIT WEIGHT OF SOIL (moist)	1800 Kg/m ³
COEFF ACTIVE EARTH PRESSURE (Kpa)	0.30
COEFF PASSIVE EARTH PRESSURE (Kpp)	3.33
COEFF AT-REST EARTH PRESSURE (Kpr)	.55
COEFF OF SOIL FRICTION	.35
SUBGRADE MODULUS	4120 g/cm ³
MINIMUM BEARING DEPTH BELOW GRADE	800mm
SEISMIC SITE CLASS (based on in-situ soil)	D

CONCRETE BEAM SCHEDULE

GRADE BEAM						
MARK	SIZE (BxH)	REINFORCING			REMARKS	
		TOP	BOTTOM	STIRRUPS		
GB1	400x750	(3)-#22	(3)-#22	#13 @ 200	(1) #22 EF	TOP BAR LAP AT CENTER BOT BAR LAP PAST COL

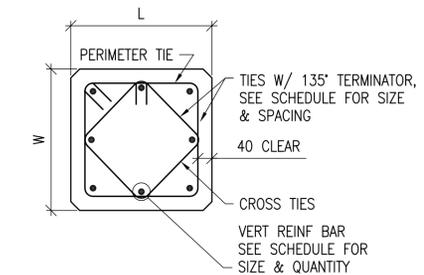
ROOF BEAM						
MARK	SIZE (BxH)	REINFORCING			REMARKS	
		TOP	BOTTOM	STIRRUPS		
RB1	400x600	(2)-#19	(2)-#19	#13 @ 250	N/A	TOP BAR LAP AT CENTER BOT BAR LAP PAST COL

NOTE:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.

CONCRETE COLUMN SCHEDULE

MARK	SIZE (LxW)	REINFORCING	
		VERT BARS	TIES
C1	400x400	(8)-#25	#13 @ 100 (CORE OF EXT & CORNER COLUMNS) #13 @ 150 (CORE OF INTERIOR COLUMNS) #13 @ 200 (OTHER)

NOTE:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.
 2. SECOND STORY COLUMNS ARE SAME AS FIRST STORY COLUMNS.
 3. CORE INDICATES THE AREA OF COLUMN & BEAM INTERSECTION
 4. TIE INDICATES PERIMETER & CROSS TIE COMBINED



1 COLUMN DETAIL
 SCALE: 1:10

SPREAD FOOTING SCHEDULE

MARK	FOOTING SIZE (mm)			FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS		
F1	4200	2400	300	(5) #22 LONG BOTT (6) #22 SHORT BOTT	-----
F2	6100	2100	350	(6) #25 LONG BOTT (8) #25 SHORT BOTT	-----
F3	2600	2000	300	(5) #22 LONG BOTT (4) #22 SHORT BOTT	-----

NOTES:
 1. DIMENSIONS NOTED ARE MILLIMETERS (mm) UON.

US Army Corps of Engineers
 Afghanistan Engineer District

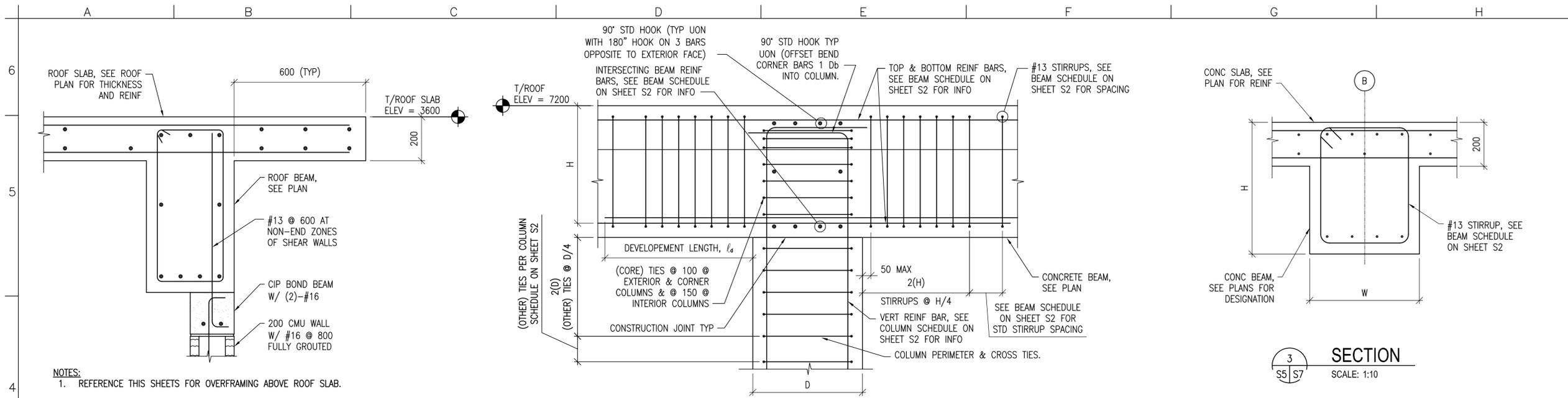
NO.	DATE	DESCRIPTION	SYMBOL

DESIGNED BY: DATE: 09-30-09
 MMY
 SUBMITTED BY: BAKER
 RCG
 CHK BY: CWV
 FILE NO: ANPSDS-02XXX
 Michael Baker, Jr. Inc.
 A Unit of Michael Baker Corporation
 1000 Business Park
 Moon Township, PA 15108
 www.mbakercorp.com

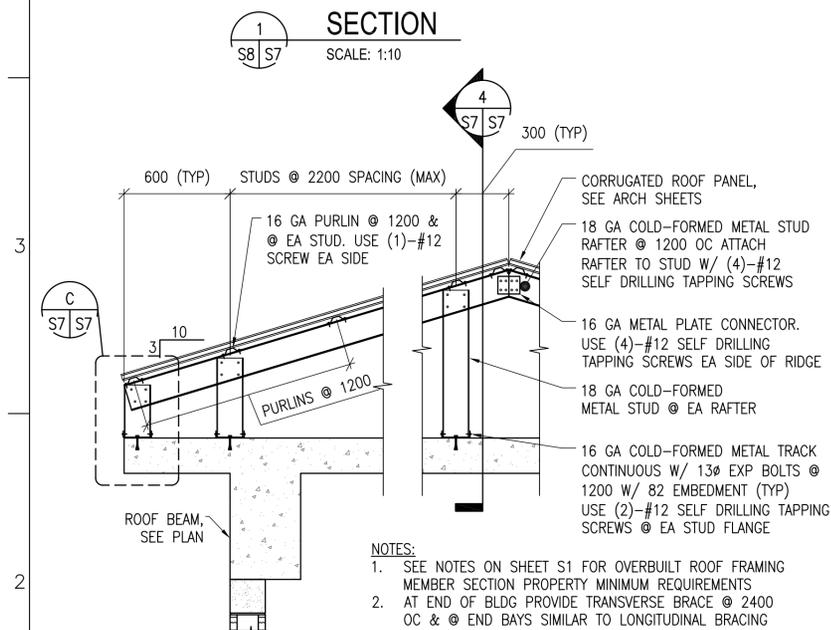
AFGHAN NATIONAL POLICE
 STANDARD DESIGN
 BARRACK BUILDING (384 GSM)
 WOOD FIRED HEAT OPTION
 DESIGN CRITERIA & SCHEDULES

SHEET REFERENCE NUMBER:
S2

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)
 0 200 400 600
 SCALE: 1: 10

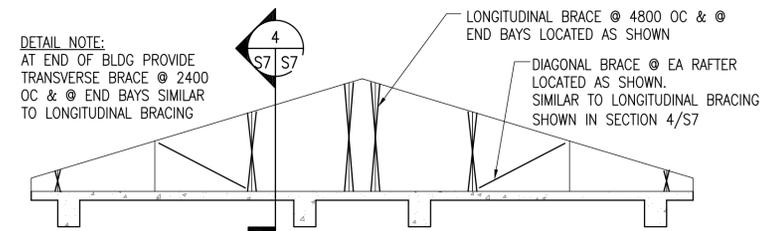


NOTES:
1. REFERENCE THIS SHEETS FOR OVERFRAMING ABOVE ROOF SLAB.

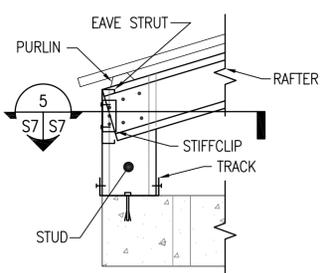
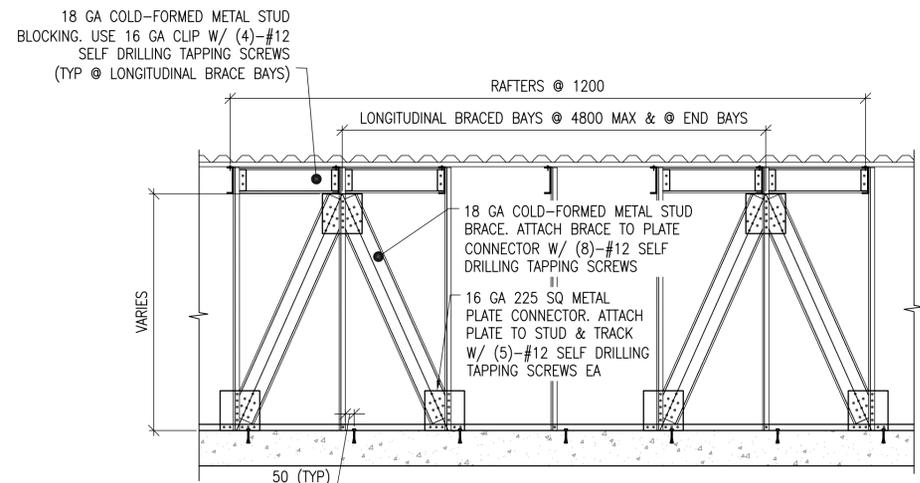


NOTES:
1. SEE NOTES ON SHEET S1 FOR OVERBUILT ROOF FRAMING MEMBER SECTION PROPERTY MINIMUM REQUIREMENTS
2. AT END OF BLDG PROVIDE TRANSVERSE BRACE @ 2400 OC & @ END BAYS SIMILAR TO LONGITUDINAL BRACING

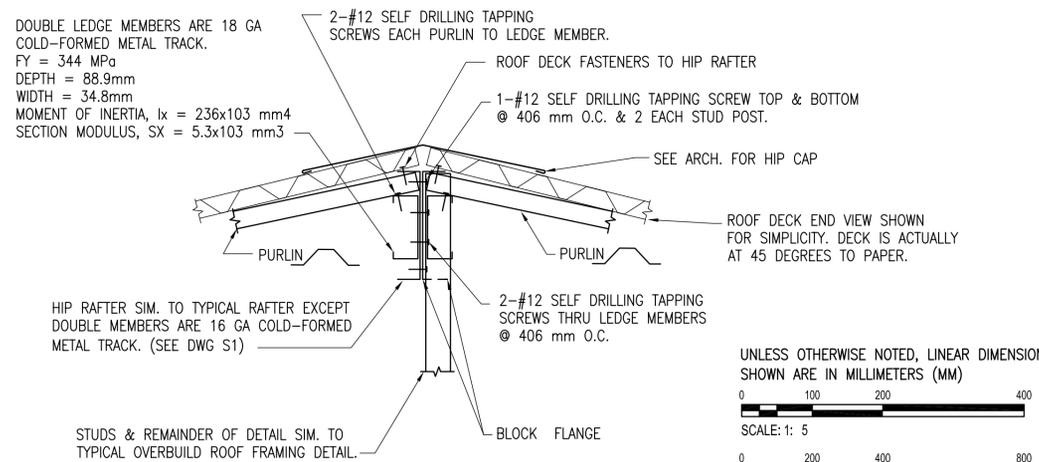
TYPICAL OVERBUILT ROOF FRAMING DETAIL
SCALE: 1:20



TYPICAL ROOF BRACE LAYOUT DETAIL
SCALE: NTS



DETAIL
SCALE: 1:10



TYPICAL HIP FRAMING DETAIL
SCALE: 1:5

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

SCALE: 1: 5
SCALE: 1: 10
SCALE: 1: 20

US Army Corps of Engineers
Afghanistan Engineer District

DATE	DESCRIPTION

DESIGNED BY: DATE: 09-30-09
MAY
SUBMITTED BY: BAKER
RCG
CHK BY: CWV
FILE NO: ANPSDS-307XXX

Michael Baker, Inc.
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1000 Business Park
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
BARRACK BUILDING (384 GSM)
WOOD FIRED HEAT OPTION

SECTIONS & DETAILS

SHEET REFERENCE NUMBER:
S7

100% SUBMISSION

SYMBOL	DESCRIPTION	DATE	APP

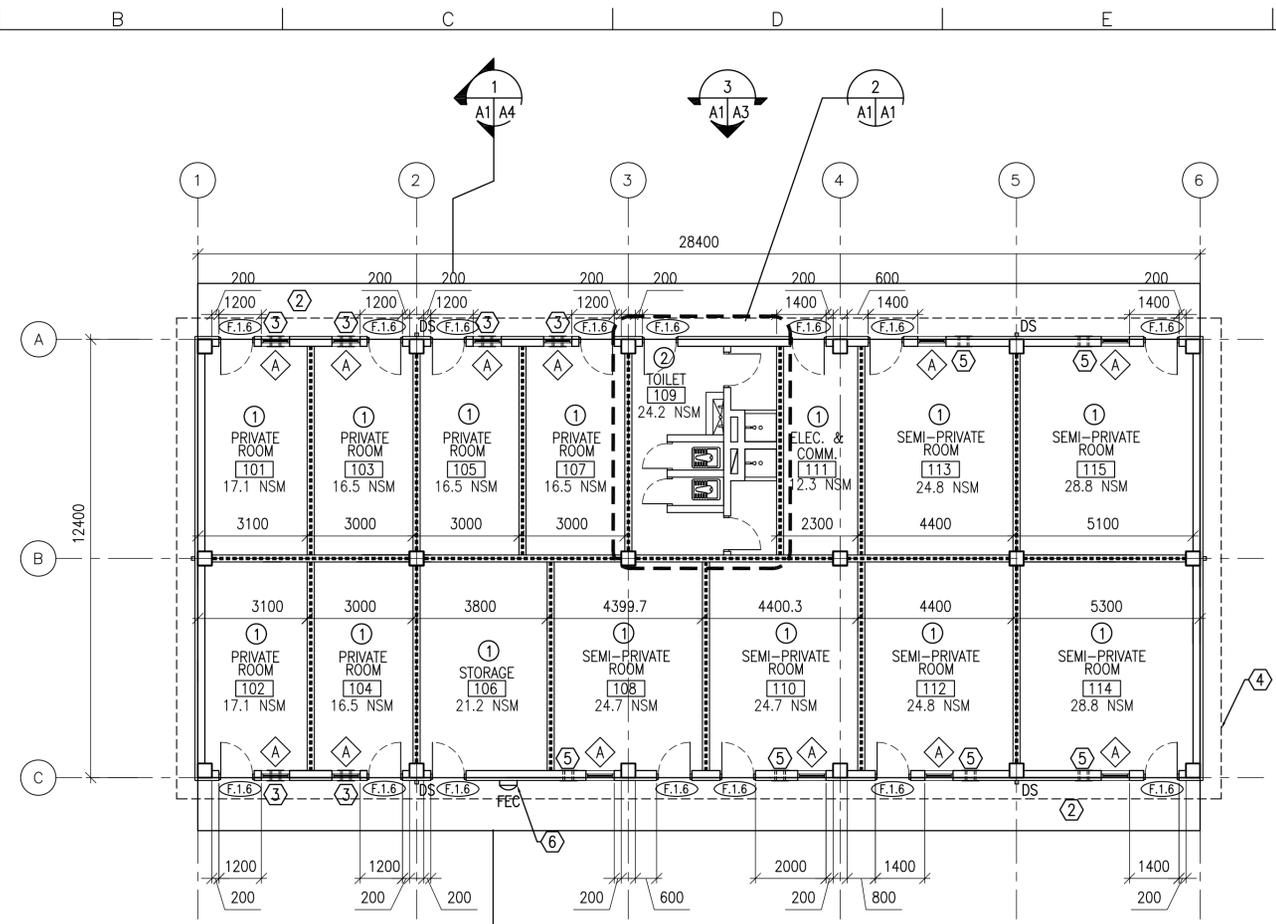
DESIGNED BY: DLB	DATE: 09-30-09
DWN BY: AAR	SUBMITTED BY: BAKER
CHK BY: KRC	FILE NO: ANPSDA-101XXX

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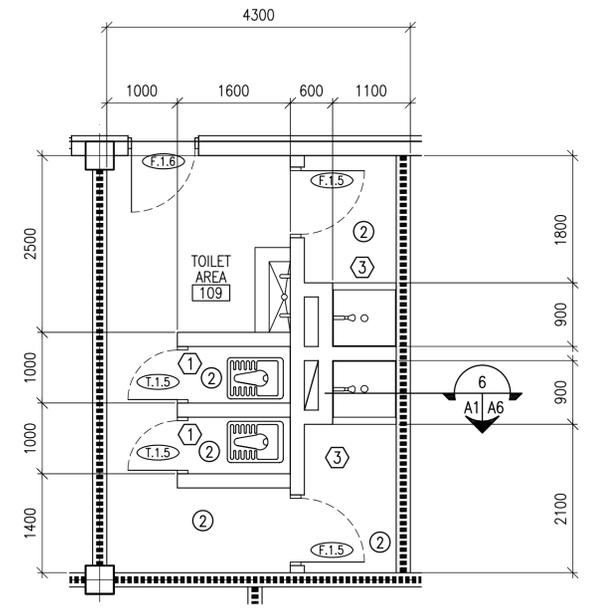
AFGHAN NATIONAL POLICE
STANDARD DESIGN
BARRACK BUILDING (384 GSM)
WOOD FIRED HEAT OPTION
FLOOR PLAN

SHEET REFERENCE NUMBER:
A1

100% SUBMISSION



1 FLOOR PLAN
SCALE: 1:100
384.0 GSM



2 ENLARGED TOILET PLAN
SCALE: 1:50

GENERAL NOTES:

- A. INTERIOR PARTITIONS SHALL BE 200 MM CMU UNLESS NOTED OTHERWISE
- B. OPENINGS FOR DOORS SHALL BE LOCATED 200 MM FROM THE ADJACENT WALL UNLESS NOTED OTHERWISE
- C. 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 WET, NEWLY PAINTED SURFACES.
- D. CONCRETE AND INTERIOR MASONRY SURFACES GROUTED SOLID SHALL BE ALLOWED TO DRY AT LEAST 30 DAYS BEFORE PAINTING EXCEPT CONCRETE SLAB ON GRADE WHICH SHALL BE ALLOWED TO CURE 90 DAYS BEFORE PAINTING.
- E. PAINTS CONTAINING LEAD IN EXCESS OF 0.06 PERCENT BY WEIGHT OF THE TOTAL NONVOLATILE CONTENT SHALL NOT BE USED.
- F. MERCURIAL FUNGICIDES SHALL NOT BE USED IN OIL-BASE PAINT.
- G. REMOVE LOOSE DIRT AND CLEAN SURFACES BEFORE PAINTING. APPLY PAINT TO INTERIOR STRUCTURAL RIGID FRAMINGS AND CEILINGS AND TEST FOR ADHESION. PRIMER COAT FOR MASONRY. INITIAL FIRST COAT WITH AN ACRYLIC LATEX PAINT FOR EXTERIOR SURFACES AND A SECOND COAT WITH A WATER REPELLENT ACRYLIC LATEX PAINT.
- H. METAL DOORS AND FRAMES SHALL RECEIVE A PRIMER COAT PLUS TWO COATS OF PAINT.
- I. DIMENSIONS ARE TO STRUCTURAL COLUMN GRID, EDGE OF WINDOW OPENINGS, AND TO HINGE SIDE OF DOOR OPENINGS.

- J. PROVIDE 1 HOUR FIRE RATED PARTITIONS IN ACCORDANCE WITH NFPA 101, 28.3.7.1. FILL ANULAR SPACE AT ANY AND ALL FLOOR, WALL OR CEILING PENETRATIONS WITH APPROPRIATE FIRE STOPPING MATERIALS.

ROOM FINISHES:

- 1. WALLS: PAINTED PLASTER,
FLOOR: SEALED CONCRETE
CEILING: PAINTED PLASTER APPLIED TO STRUCTURE
- 2. WALLS: 2400 MM HIGH CERAMIC TILE WAINSCOT,
FLOOR: PAINTED PLASTER ABOVE WAINSCOT
CEILING: CERAMIC TILE
CEILING: PAINTED PLASTER

KEY NOTES:

- 1. TYPICAL TOILET STALL LAYOUT - RE: DETAIL 2/A6
- 2. CONCRETE SIDEWALK RE: DETAIL 2/A7 AND 3/A7
- 3. TWO-PIECE WALL THIMBLE AND TRIM PLATE MOUNTED IN WALL ABOVE WINDOW.
- 4. LINE OF ROOF OVERHANG ABOVE
- 5. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.
- 6. PROVIDE FEC IN ACCORDANCE WITH NFPA 101, 28.3.5.8.

LEGEND:

- (A) DOOR TYPE, SEE SHEET A6
- (A) WINDOW TYPE, SEE SHEET A6
- (X) KEY NOTE
- FEC FIRE EXTINGUISHER CABINET
- 1-HOUR RATED PARTITION
- (1) ROOM FINISH TYPE DESIGNATION

