



**U.S. Army Corps
of Engineers
Afghanistan Engineer District**

**ANP UP Provincial HQ
And PRC #1**

Kandahar, Afghanistan

Appendix B

Standard Design Drawings

MINIMUM LAP SPLICES OF REINFORCING BARS IN TENSION (PER ACI 318M-05)

f'c = 28MPa CONCRETE						
BAR SIZE	CENTER TO CENTER BAR SPACING	(--TOP BARS--)		(--OTHER BARS--)		
		LESS THAN 4db	4db OR MORE	LESS THAN 4db	4db OR MORE	4db
#10		460	460	410	410	40
#13		660	610	510	480	50
#16		1020	760	790	580	60
#19		1450	910	1120	710	80
#22		1960	1090	1500	840	90
#25		2590	1450	1980	1120	100
#29		3280	1830	2510	1420	110
#32		4140	2340	3200	1780	130
#36		5080	2840	3910	2180	140

- NOTES:
- LAP SPLICES ABOVE ARE IN MILLIMETERS UON.
 - YIELD STRENGTH OF REINFORCEMENT, fy, IS 420MPa (LAP SPLICE LENGTH IS IN MILLIMETERS).
 - CONCRETE IS NORMAL WEIGHT (2400Kg/m³).
 - TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 300mm OR MORE OF FRESH CONCRETE.
 - SEE COLUMN SCHEDULE FOR COLUMN AND SHEAR WALL VERTICAL LAP SPLICE.
 - STRAIGHT DEVELOPMENT LENGTH OF AN UNLAPPED BAR IS EQUAL TO VALUE FROM TABLE DIVIDED BY 1.3.
 - CATEGORY FOR BARS SPACED LESS THAN 4d, OR ON CENTER CORRESPONDS TO CATEGORY 1 IN THE CRSI HANDBOOK WHEREAS FOR BARS SPACED 4d, OR MORE ON CENTER CORRESPOND TO CRSI CATEGORY 5.

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318M-05, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm.

FOOTINGS (EARTH FORMED)	70
COLUMNS / PIERS (TO TIES)	40
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP	40
BOTTOM (EARTH FORMED)	70
SIDES (EARTH FORMED)	70
SIDES (BOARD FORMED)	40
	#16 BAR & SMALLER
	#19 THRU #36 BAR
ELEVATED BEAMS & SLABS:	
BEAM TIES & STIRRUPS (NOT EXPOSED TO WEATHER)	40
BEAM TIES & STIRRUPS (EXPOSED TO WEATHER)	50
FLOOR SLABS (NOT EXPOSED TO WEATHER)	20
FLOOR SLABS (EXPOSED TO WEATHER)	
#19 & LARGER	50
#13 & SMALLER	40
ROOF SLAB BARS	25
SLABS-ON-GRADE (NO EXPOSURE TO WEATHER) FROM TOP	20
SLABS-ON-GRADE (EXPOSURE TO WEATHER) FROM TOP	40
UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS, (NO SURFACES SHALL BE EARTH FORMED)	
EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER):	
#16 BAR AND SMALLER	40
#19 THRU #36 BAR	50
PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.	

MASONRY CONCRETE LINTEL SCHEDULE

OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	BEAM DEPTH (mm)	MAIN REINFORCING			SHEAR REINF STIRRUPS
			TOP	BOTTOM	OTHER	
EXT WINDOW OR DOOR	900	400	(2)-#13	(2)-#13		----
INT WALL OPENING, NON-BEARING	1800	400		(2)-#13		----
INT WALL OPENING, NON-BEARING	900	200		(2)-#13		----

- STRUCTURAL DRAWINGS DO NOT INDICATE ALL OPENINGS IN MASONRY WALLS. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS FROM ARCHITECTURAL SHEETS AND APPROVED PLUMBING, MECHANICAL, AND ELECTRICAL SHC.
- NGTH OF 28
- MPa AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, DETAILS, LOCATIONS, ETC FOR ALL CAST-IN-PLACE BEAMS IN CMU WALLS.

TYPICAL CMU WALL REINFORCING SCHEDULE

WALL TYPE OR LOCATION	WALL THICKNESS (mm)	CONT. VERT. REINF. (CENTERED IN CMU, UON)	CONT. CAST IN PLACE LINTEL (CIP BB)			REMARKS
			DEPTH (mm)	REINF (BOTT UON)	MAX CIPL VERT SPACING (mm)	
ALL PERIMETER/EXTERIOR WALLS (UON)	200	1-#16 @ 800	200	2-#16	1200	----
NON-LOAD BEARING INTERIOR WALLS WITH TOP AND BOTT. SUPPORTS	200	1-#13 @ 1200	200	2-#16	1200	----

- NOTES:
- REINFORCING SIZES AND SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE THE ABOVE SCHEDULE REQUIREMENTS.
 - PROVIDE CONTINUOUS CAST IN PLACE CONCRETE BOND BEAM AT ALL WALL LATERAL SUPPORT LOCATIONS.
 - REINFORCING INDICATED SHALL BE CONTINUOUS FOR FULL EXTENT OF SPLICE FOLLOWING THE REQUIREMENTS OF THE LAP SPLICE TABLE SHOWN ON THIS SHEET.
 - WALLS HAVE BEEN DESIGNATED AS VERTICALLY SPANNING UON AND THEREFORE MUST BE TEMPORARILY SUPPORTED DURING CONSTRUCTION UNTIL THE SUPPORTING DIAPHRAGMS (FLOOR AND ROOF SYSTEMS) HAVE BEEN COMPLETELY INSTALLED. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL CMU WALLS SHALL BE FULLY GROUTED IN LIFTS NOT EXCEEDING THOSE BY CODE (UON)
 - SEE TYPICAL CMU WALL DETAILS ON SHEET S10.

CONCRETE MATERIALS SCHEDULE

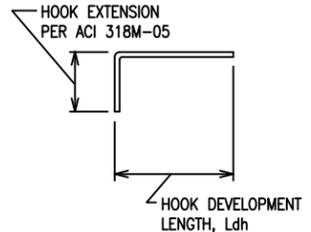
STRUCTURAL ELEMENT	f'c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (MPa)
SLAB-ON-GRADE/TURN-DOWN SLABS	28
FLOOR SLABS	28
ALL FOOTINGS (UON)	28
MISC. CURBS, WALLS AND PADS UON	28
CAST-IN-PLACE LINTEL	28
CONCRETE FRAMING - BEAMS AND COLUMNS	28

NOTES:

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (2400 Kg/m³ UON)
- ALL CONCRETE SHALL HAVE A MAX WATER-CEMENT RATIO OF 0.45.

STANDARD HOOKS IN TENSION PER (ACI 318M-05)

HOOK DEVELOPMENT LENGTH Ldh (mm)	
BAR SIZE	f'c 28 MPa
#10	180
#13	250
#16	300
#19	380
#22	430
#25	480
#29	560
#32	610
#36	690



- NOTES:
- CONCRETE IS NORMAL WEIGHT CONCRETE.
 - BAR YIELD STRENGTH, fy = 420 MPa
 - SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
 - HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

MASONRY REINFORCING MINIMUM LAP SPLICES

BAR SIZE	BASIC LAP SPLICE Ld FOR CMU REINFORCING
#10	450
#13	600
#16	750
#19	900
#22	1050
#25	1200

MAXIMUM CMU WALL UNSUPPORTED HEIGHT OR LENGTH

	WALL THICKNESS (mm)	EXTERIOR WALL NON-LOAD BEARING (mm)	INTERIOR NON-LOAD BEARING WALL (mm)
MAX HEIGHT OR LENGTH BETWEEN SUPPORTS	200	4800	7200

NOTE: CMU WALL MAXIMUM LATERAL SUPPORT SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE THE ABOVE SCHEDULE REQUIREMENTS.



SYMBOL	DESCRIPTION	DATE

DESIGNED BY: KMP	DATE: 09-30-09
DWN BY: RCG	SUBMITTED BY: BAKER
CHK BY: CWW	FILE NO.: ANPSDS-003XXX

Michael Baker Jr., Inc
A unit of Michael Baker Corporation
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STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
SCHEDULES

SHEET REFERENCE NUMBER:
S3

SYMBOL	DESCRIPTION	DATE	APP

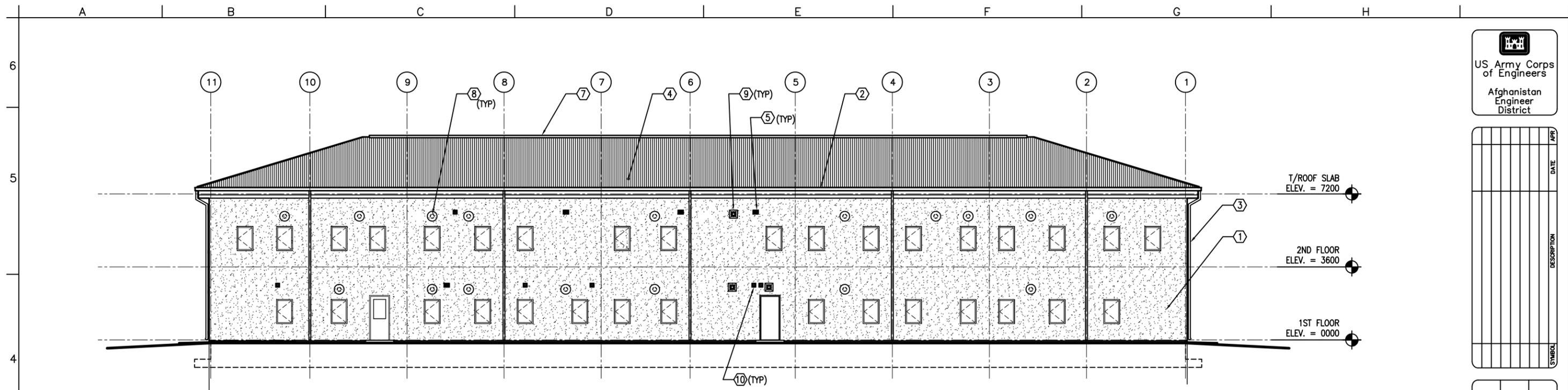
DESIGNED BY:	DATE:	09-30-09
KOB	SUBMITTED BY:	BAKER
DWN BY:	KJG	
CHK BY:	NLJ	
	FILE NO.:	ANPSDA-205XXX

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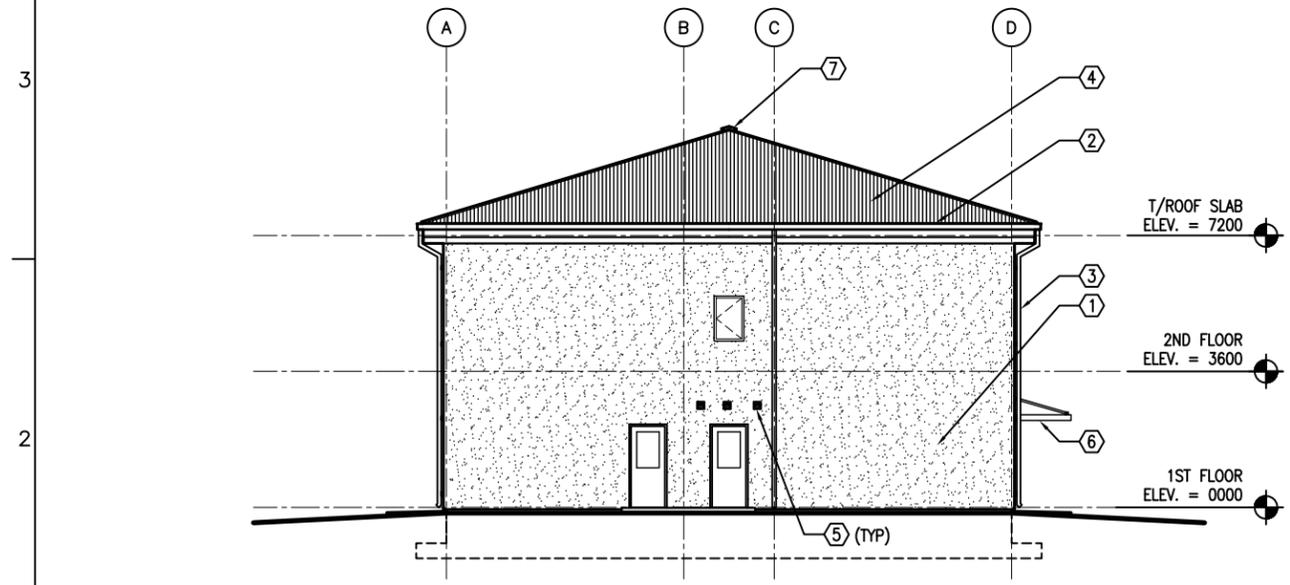
STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
EXTERIOR ELEVATIONS

SHEET
REFERENCE
NUMBER:
A5

100% SUBMISSION



1
WEST ELEVATION
SCALE: 1:100



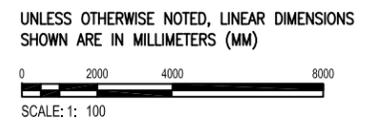
2
SOUTH ELEVATION
SCALE: 1:100

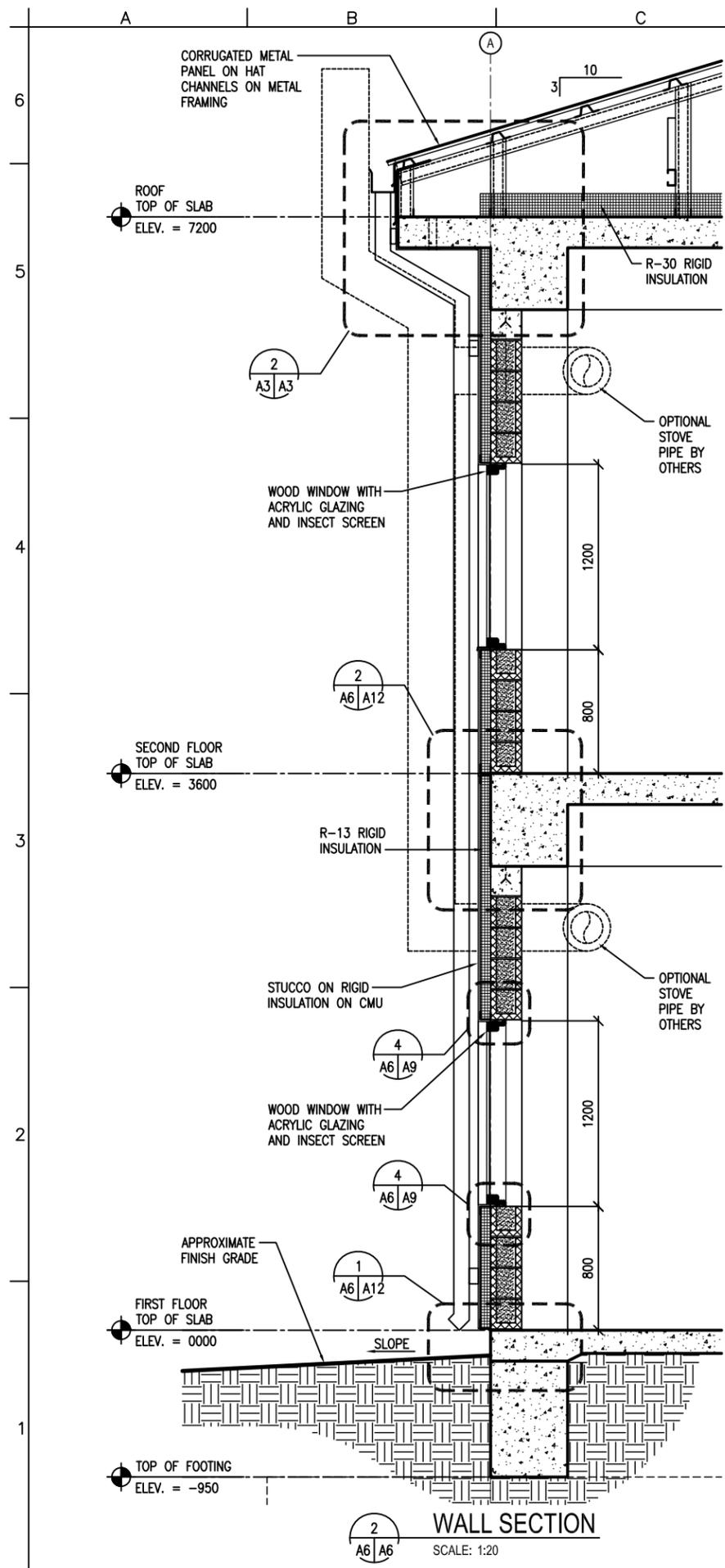
KEY NOTES:

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. LOUVER - RE: MECH
6. METAL ENTRANCE CANOPY
7. CONTINUOUS RIDGE VENT
8. TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.
9. EXHAUST FAN - RE: MECH
10. EXHAUST FAN WITH DUCT WALL CAP - RE: MECH

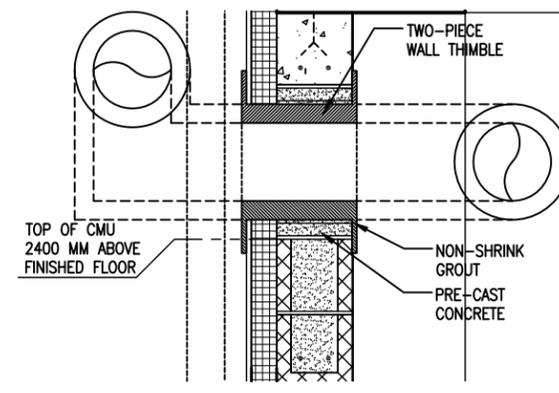
GENERAL NOTES:

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

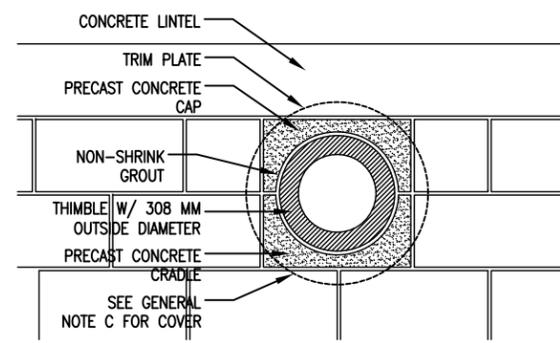




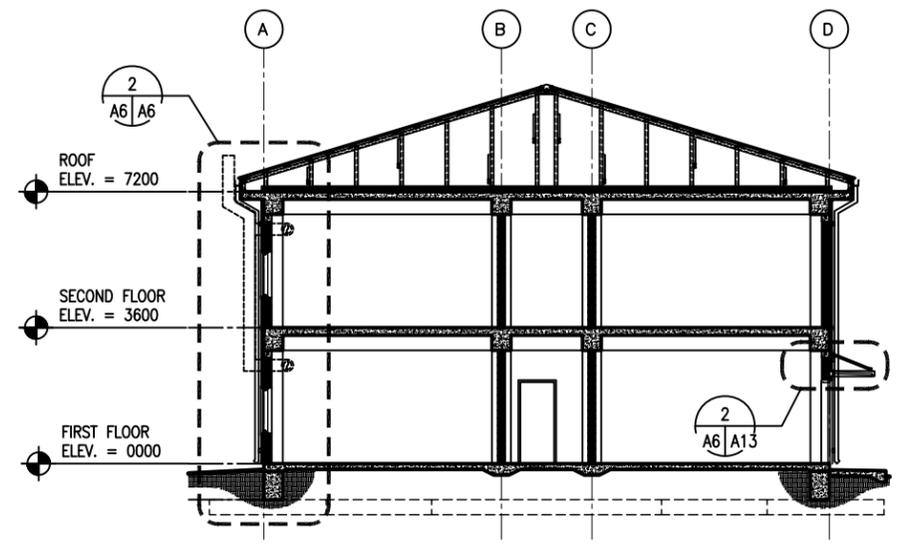
2 WALL SECTION
SCALE: 1:20



3 THIMBLE DETAIL, TYPICAL
SCALE: 1:10



4 THIMBLE DETAIL, TYPICAL
SCALE: 1:10

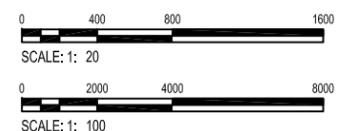


1 BUILDING SECTION
SCALE: 1:100

GENERAL NOTES:

- A. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
- B. PROVIDE STRUCTURAL LINTELS AS REQUIRED - RE: STRUCT
- C. PROVIDE 480 MM SQUARE, 1.5 MM THICK GALVANIZED SHEET METAL COVER WITH 13 MM HEMMED EDGE FOR WALL THIMBLE UNTIL STOVE PIPE IS PROVIDED. INSTALL COVER ON EXTERIOR FACE OF THIMBLE TRIM PLATE. COVER SHALL BE SET IN SILICONE SEALANT AND FASTENED WITH 4 STAINLESS STEEL SCREWS. ALIGN FASTENER LOCATIONS WITH COVER PLATE FASTENER OPENINGS SO ADDITIONAL FASTENER PENETRATIONS ARE NOT CREATED IN EXTERIOR FINISH.

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



US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY:	DATE:	09-30-09
KOB	SUBMITTED BY:	BAKER
DWN BY:	KJG	
CHK BY:	NLJ	
FILE NO.:	ANPSDA-306XXX	

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STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
BUILDING & WALL SECTIONS

SHEET REFERENCE NUMBER:
A6

100% SUBMISSION

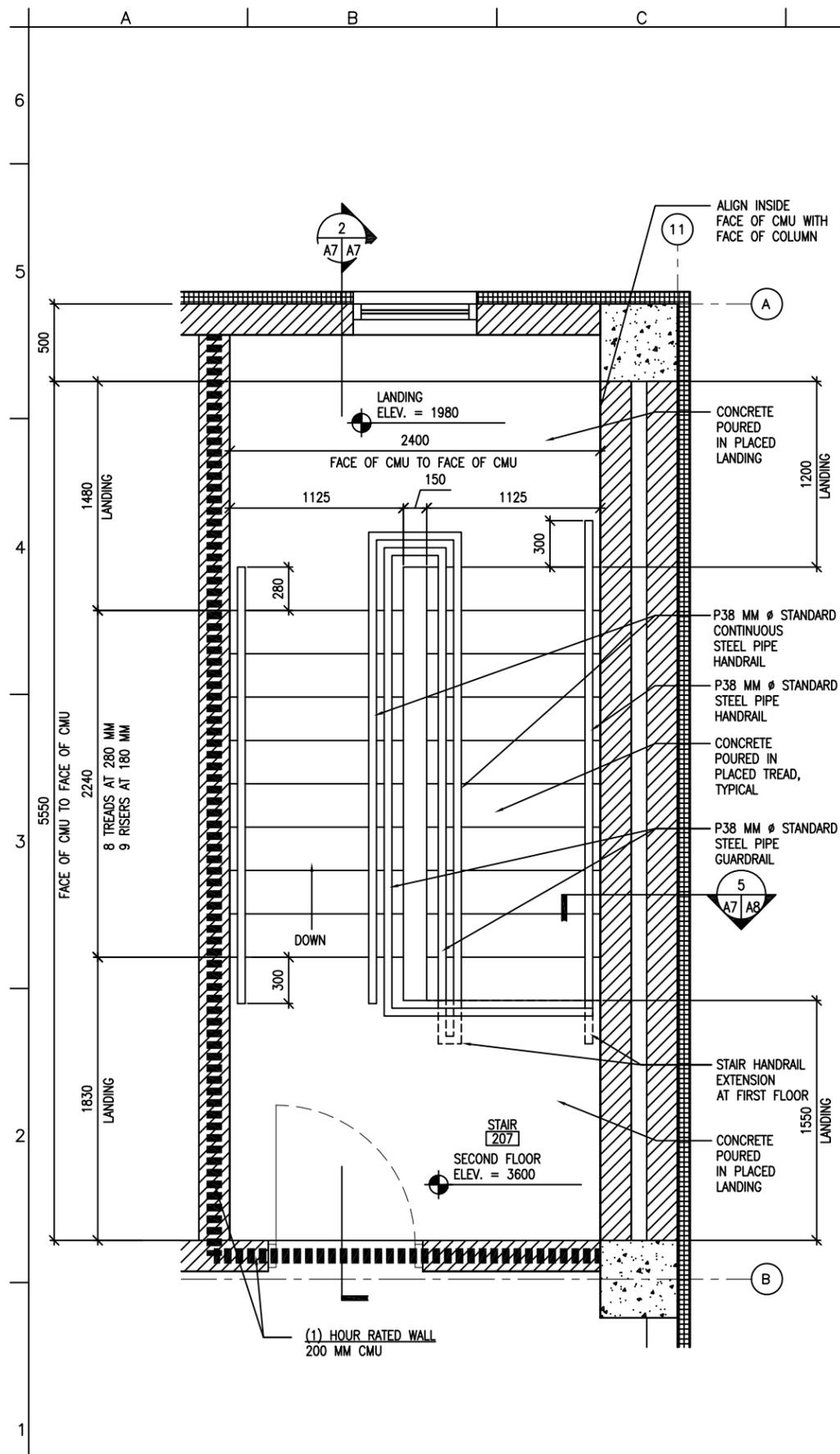
SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY:	DATE:	FILE NO.:
KOB	09-30-09	ANPSDA-307XXX
DWN BY:	SUBMITTED BY:	
KJG	BAKER	
CHK BY:		
NLJ		

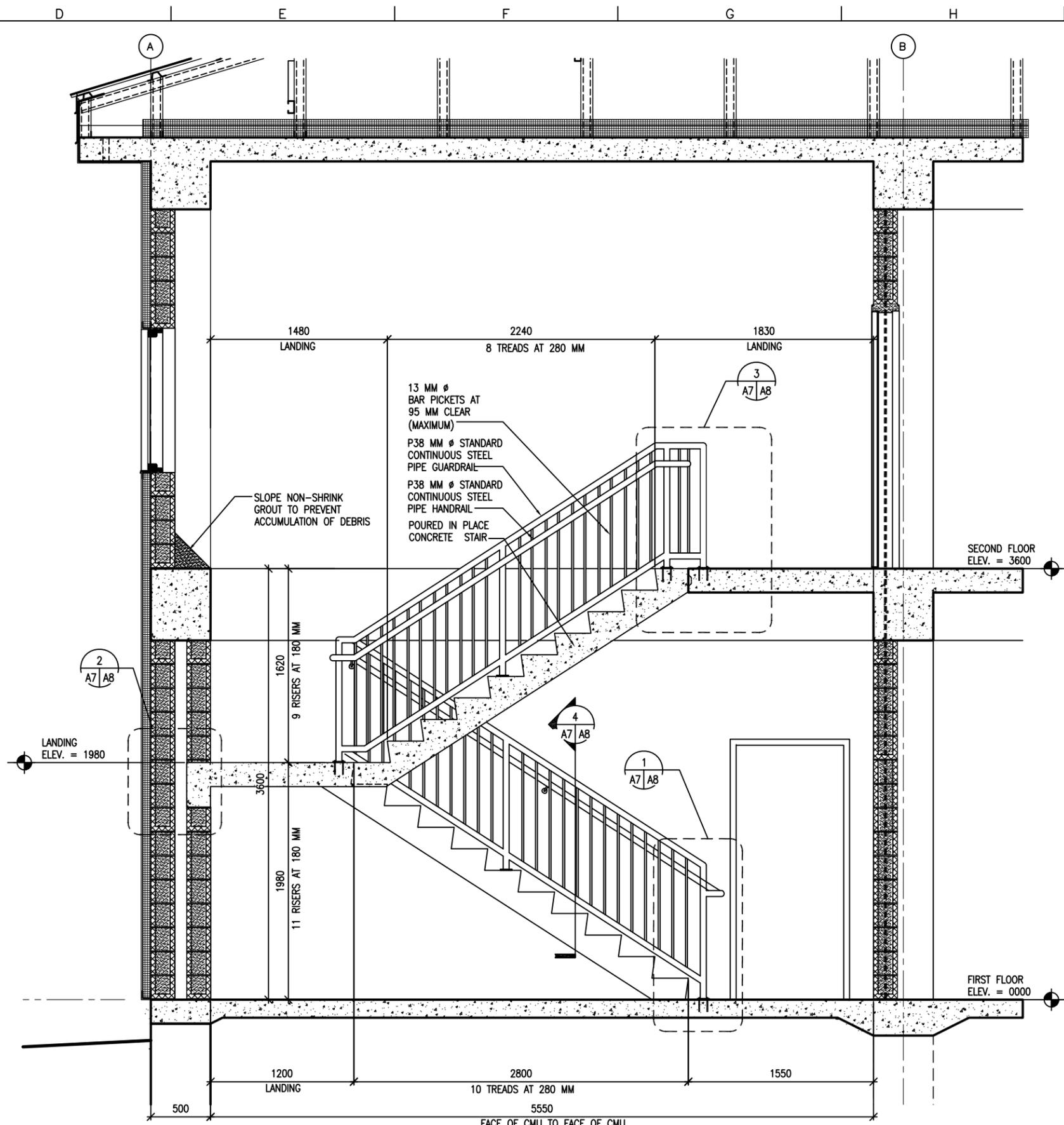
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STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
STAIR PLAN & SECTION

SHEET REFERENCE NUMBER:
A7



1
A2 | A7
STAIR PLAN
SCALE: 1:20



2
A7 | A7
STAIR SECTION
SCALE: 1:20

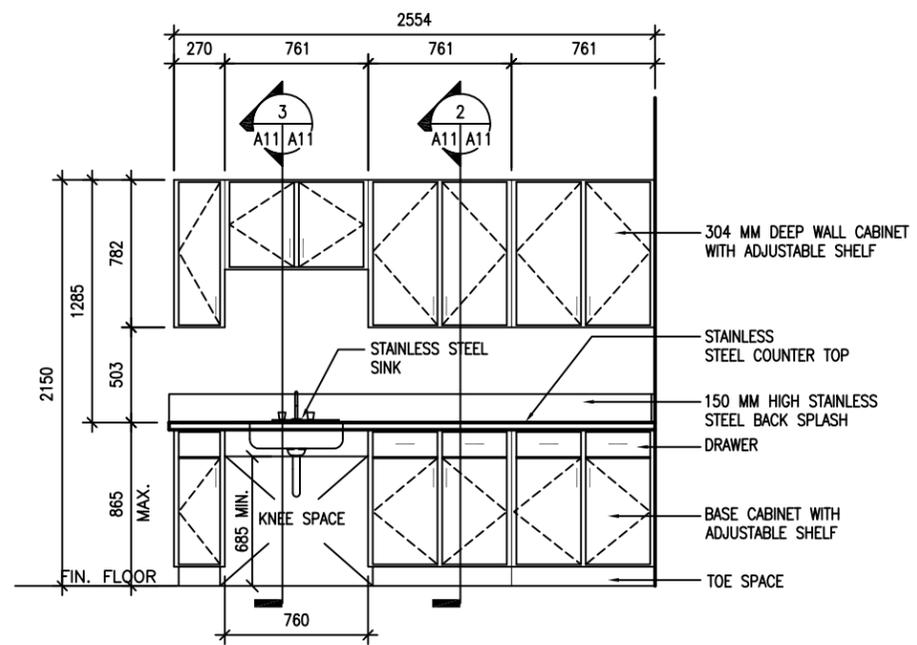
NOTE:
1. STAIR 222 SHALL BE OPPOSITE HAND.

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM)
SCALE: 1: 20

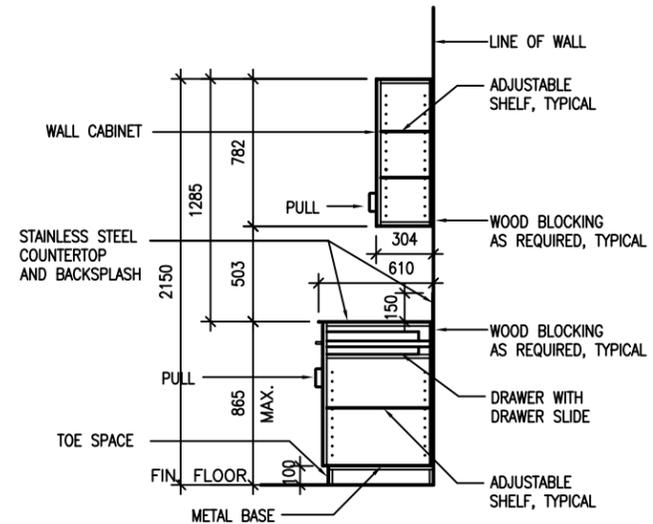
100% SUBMISSION

A B C D E F G H

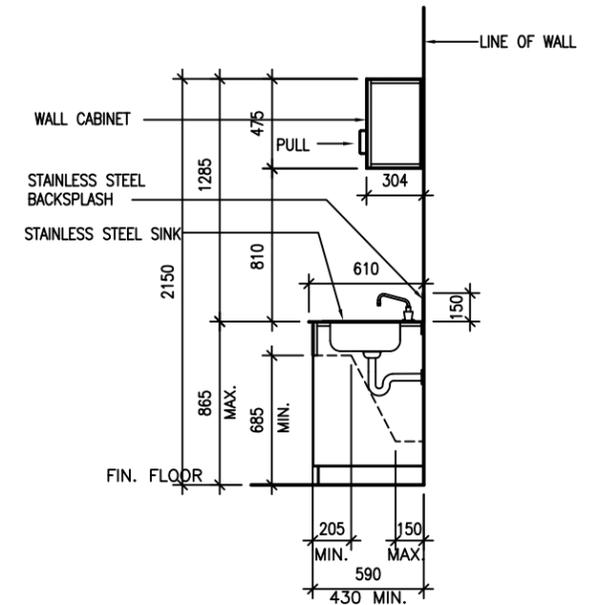
6
5
4
3
2
1



1
A11 | A11
CABINET ELEVATION
SCALE: 1:20



2
A11 | A11
CABINET SECTION
SCALE: 1:20



3
A11 | A11
CABINET SECTION
SCALE: 1:20

GENERAL NOTES:

1. VERIFY ALL CLEARANCES BEFORE CABINETS ARE CONSTRUCTED
2. COORDINATE SINK CUT OUT WITH PLUMBING.
3. CASEWORK SHALL BE A HEAVY GAUGE STEEL FULL-FRAME CONSTRUCTION.
4. CASEWORK SHALL BE PRIME GRADE, COLD-ROLLED, STANDARD STEEL SHEET WITH NO RAGGED EDGES.
5. ALL STEEL SHALL BE PAINTED, EXCEPT STAINLESS STEEL COUNTERTOP AND BACK SPLASH.

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

SCALE: 1: 20



SYMBOL	DESCRIPTION	DATE	APP

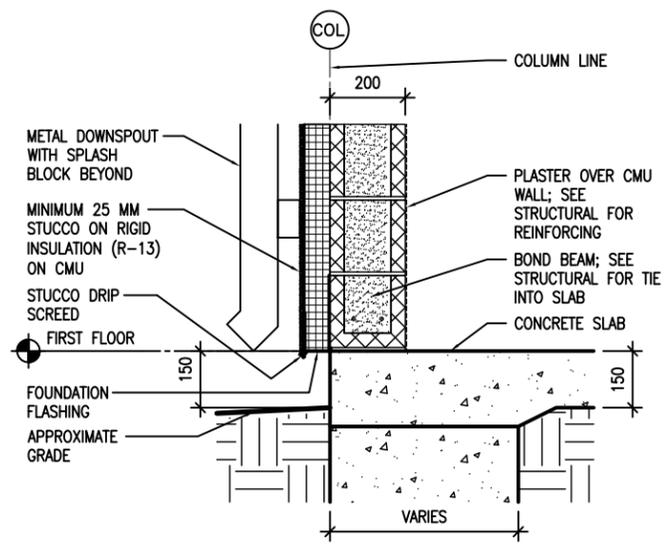
DESIGNED BY:	KOB	DATE:	09-30-09
DWN BY:	KJG	SUBMITTED BY:	BAKER
CHK BY:	NLJ	FILE NO.:	ANPSDA-511XXX

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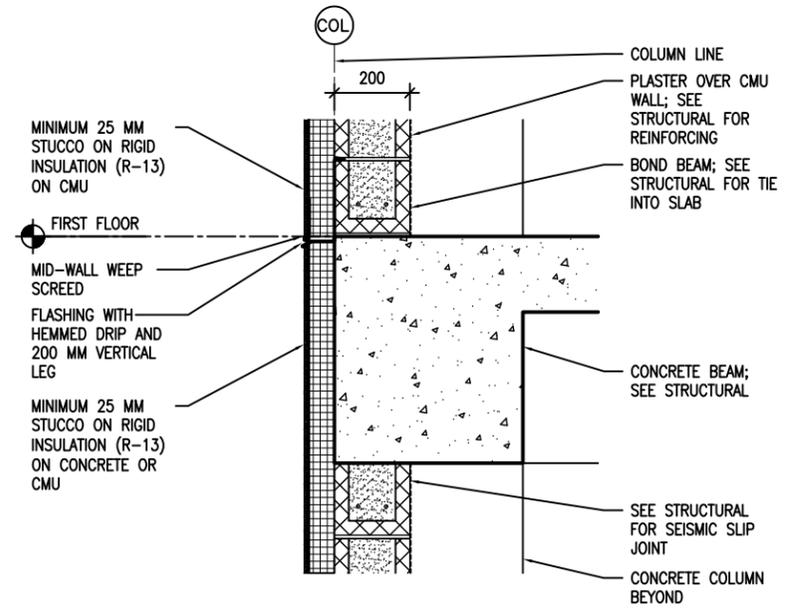
STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
CASEWORK ELEVATIONS, SECTIONS & DETAILS

SHEET
REFERENCE
NUMBER:
A11

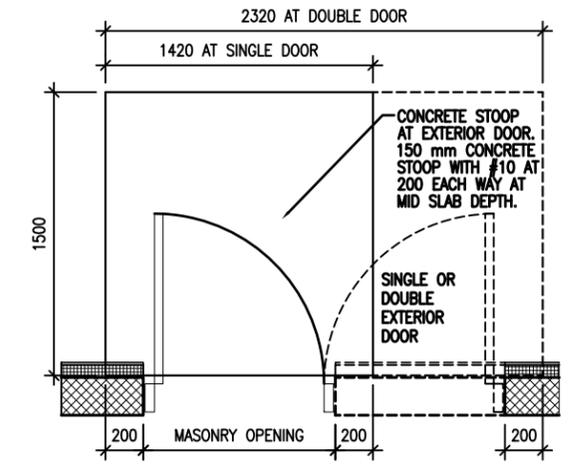
100% SUBMISSION



1
A6 | A12
SCALE: 1:10
STUCCO BASE DETAIL



2
A6 | A12
SCALE: 1:10
STUCCO JOINT DETAIL



3
A1 | A12
SCALE: 1:20
CONCRETE STOOP PLAN DETAIL

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

0 200 400 800
SCALE: 1: 10

0 400 800 1600
SCALE: 1: 20



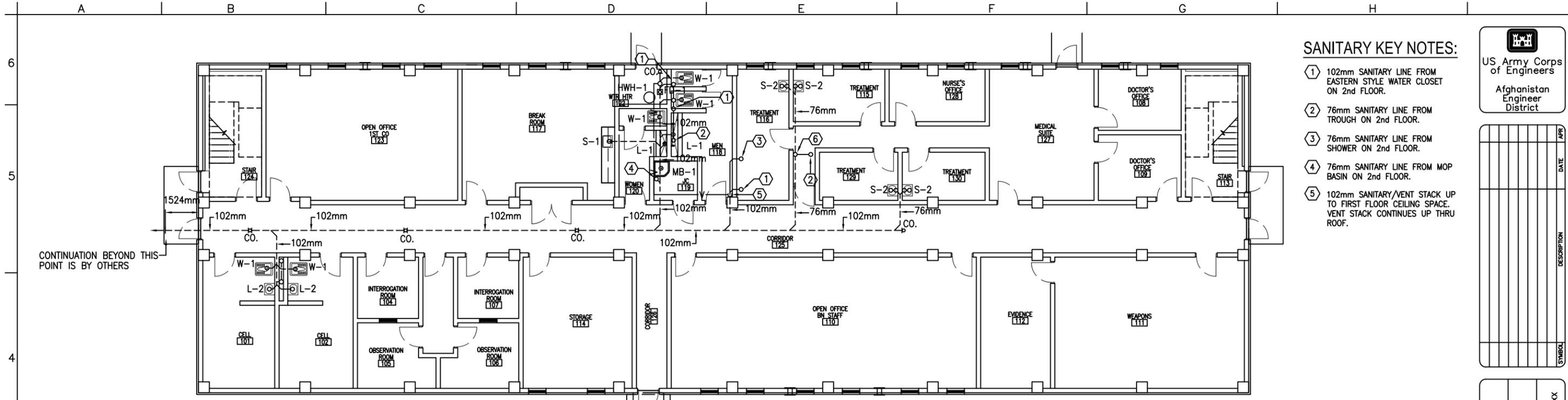
SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY:	KOB	DATE:	09-30-09
DWN BY:	KJG	SUBMITTED BY:	BAKER
CHK BY:	NLJ	FILE NO.:	ANPSDA-512XXX

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STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
SECTION DETAILS

SHEET REFERENCE NUMBER:
A12



1 ADMINISTRATION BUILDING FIRST FLOOR PLAN - PLUMBING (SANITARY)

SCALE: 1:100

SANITARY KEY NOTES:

- ① 102mm SANITARY LINE FROM EASTERN STYLE WATER CLOSET ON 2nd FLOOR.
- ② 76mm SANITARY LINE FROM TROUGH ON 2nd FLOOR.
- ③ 76mm SANITARY LINE FROM SHOWER ON 2nd FLOOR.
- ④ 76mm SANITARY LINE FROM MOP BASIN ON 2nd FLOOR.
- ⑤ 102mm SANITARY/VENT STACK UP TO FIRST FLOOR CEILING SPACE. VENT STACK CONTINUES UP THRU ROOF.

US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DATE	DESCRIPTION

DESIGNED BY: RMH	DATE: 09-30-09
DWN BY: RMH	SUBMITTED BY: BAKER
CHK BY: CJM III	FILE NO.: ANP5DP-101XXX

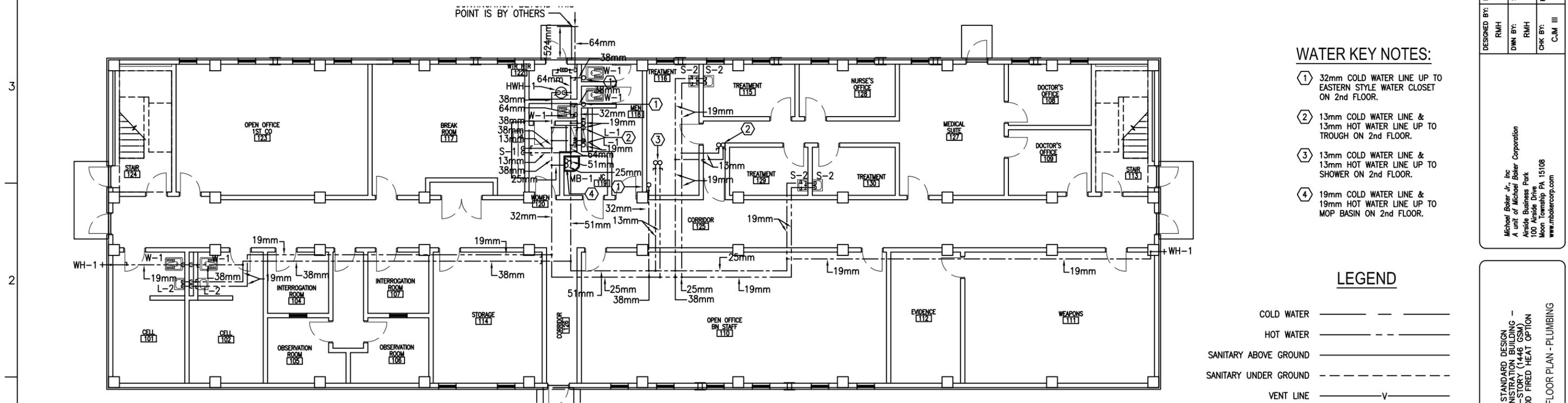
WATER KEY NOTES:

- ① 32mm COLD WATER LINE UP TO EASTERN STYLE WATER CLOSET ON 2nd FLOOR.
- ② 13mm COLD WATER LINE & 13mm HOT WATER LINE UP TO TROUGH ON 2nd FLOOR.
- ③ 13mm COLD WATER LINE & 13mm HOT WATER LINE UP TO SHOWER ON 2nd FLOOR.
- ④ 19mm COLD WATER LINE & 19mm HOT WATER LINE UP TO MOP BASIN ON 2nd FLOOR.

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LEGEND

- COLD WATER ————
- HOT WATER - - - - -
- SANITARY ABOVE GROUND ————
- SANITARY UNDER GROUND - - - - -
- VENT LINE ————V———



2 ADMINISTRATION BUILDING FIRST FLOOR PLAN - PLUMBING (WATER)

SCALE: 1:100

FLOOR PLAN NOTES:

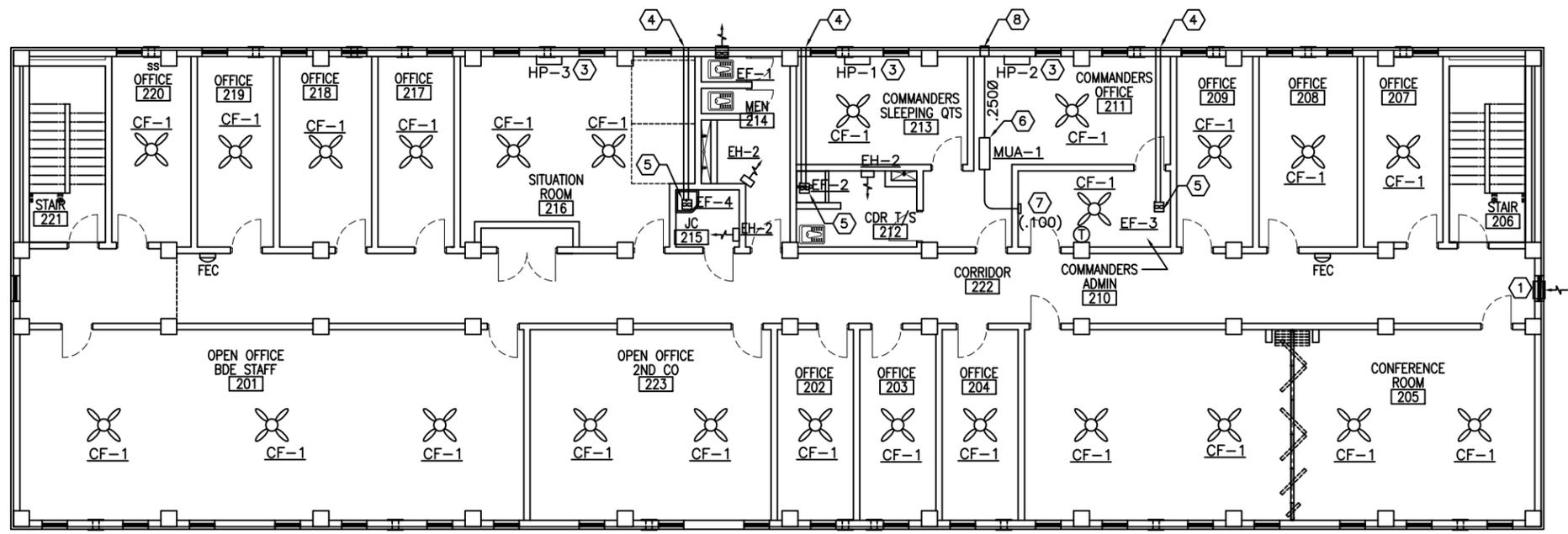
- 1. DO NOT SCALE DRAWINGS - ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- 2. ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE GOVERNING AUTHORITIES.
- 3. ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.
- 4. REPORT ANY DISCREPANCIES FOUND IN THE PLUMBING DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE ENGINEER.
- 5. ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A (1) INCH (25mm) COLD WATER CONNECTION AND A (4) INCH (102mm) SANITARY CONNECTION.
- 6. ALL TROUGH FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A (1/2 INCH) (13mm) COLD WATER, (1/2 INCH) (13mm) HOT WATER CONNECTION AND A (3 INCH) (76mm) SANITARY CONNECTION.
- 7. ALL SHOWER FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF SH-1. EACH FIXTURE SHALL HAVE A (1/2 INCH) (13mm) COLD WATER, (1/2 INCH) (13mm) HOT WATER CONNECTION AND A (3 INCH) (76mm) SANITARY CONNECTION TO A FLOOR DRAIN.
- 8. PLUMBING CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS AT ALL WATER CLOSETS.
- 9. PLUMBING CONTRACTOR TO PROVIDE TRAP PRIMERS AND 1/2" (13mm) COLD WATER LINES FOR ALL FLOOR DRAINS. COLD WATER LINES TO BE UNDER THE FLOOR FROM TRAP PRIMERS TO TRAPS ON FLOOR DRAINS.
- 10. REFER TO SHEET P4 FOR DETAILS AND SYMBOLS.
- 11. ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL. WATER, SANITARY AND VENT LINES IN CELL 101 & CELL 102 TO BE PIPED IN CHASE.



STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
FIRST FLOOR PLAN - PLUMBING

SHEET REFERENCE NUMBER:
P1

100% SUBMISSION



SECOND FLOOR PLAN - HVAC

SCALE: 1:100



SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: RML	DATE: 09-30-09
DWN BY: JLN	SUBMITTED BY: BAKER
CHK BY: CJM	FILE NO.: ANPSDM-102XXX

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STANDARD DESIGN
ADMINISTRATION BUILDING -
2-STORY (1446 GSM)
WOOD FIRED HEAT OPTION
SECOND FLOOR PLAN - HVAC

SHEET REFERENCE NUMBER:
M2

100% SUBMISSION

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
- (.050) AIR VOLUME IN CUBIC METERS PER SECOND CMS
- VOLUME DAMPER
- SDW SUPPLY DIFFUSER WALL
- FD FIRE DAMPER
- (T) THERMOSTAT WITH LOCKING COVER
MOUNT ALL THERMOSTATS AT 1.5M (5 FT) AFF.

NUMBERED NOTE:

- 200X400 (8X16) LOW LEAKAGE GRAVITY WALL LOUVER FOR INTAKE AIR. PROVIDE WEATHERPROOF LOUVER W/ 50mm (2") WASH DOWN FILTER AND SAND TRAP.
- REMOTE MOUNTED CONDENSING UNIT MOUNTED ON 1M X 155mm THICK CONCRETE PAD, SERVING INDOOR HP UNIT. EXTEND INSULATED REFRIGERATION LINES UP WALL TO INDOOR UNIT AS REQ'D. UNIT SHALL BE SECURED TO CONCRETE PAD. SEE DETAIL ON SHEET M3
- WALL MOUNTED HP UNIT. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. FINAL ELECTRICAL CONNECTIONS BY EC. SEE DETAIL ON SHEET M3.
- WALL CAP PER FAN MANUFACTURER.
- EXHAUST FAN WITH WALL CAP. DUCT SIZE SHALL MATCH FAN OUTLET.
- ELECTRIC MAKE UP AIR HEATER SECURED TO STRUCTURE ABOVE. ALL FINAL ELECTRICAL CONNECTIONS SHALL BE BY THE EC.
- 150x150 (6x6) SDW, BALANCE TO CMS IN PARENTHESIS.
- 200X200 (8X8) LOW LEAKAGE GRAVITY WALL LOUVER FOR SUPPLY AIR. PROVIDE WEATHERPROOF LOUVER W/ 2" WASH DOWN FILTER AND SAND TRAP.

MAKE UP AIR HEATERS							
NO.	BLOWER CMS	FUSE	KW	MIN. TEMP RISE °C	SP mmH2O	ELECT. CHAR.	CONTROL
MUA-1	0.100	30	5	5	13	220/1/50	REMOTE

- NOTES:
- PROVIDE REMOTE MOUNTED THERMOSTAT WITH LOCKING COVER.
 - INTERLOCK BLOWER OPERATION WITH EXHAUST FANS.
 - BLOWER SHALL BE SET TO ENERGIZE WITH EXHAUST FAN(S). HEAT SHALL BE CONTROLLED BY THERMOSTAT. PROVIDE AIR SENSING SWITCH FOR HEATING OPERATION.

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECT. CHAR.	SWITCH
EF-1	WALL	0.100	DIRECT	FRACT	13	220/1/50	WALL
EF-2	CEILING	0.050	DIRECT	FRACT	13	220/1/50	WALL
EF-3	CEILING	0.100	DIRECT	FRACT	13	220/1/50	WALL
EF-4	CEILING	0.050	DIRECT	FRACT	13	220/1/50	WALL

- NOTES:
- WALL MOUNTED EXHAUST FAN MOUNT AT 600mm BELOW CEILING.
 - CEILING MOUNTED FANS SHALL BE HELD TIGHT TO STRUCTURE.

ELECTRIC UNIT HEATER SCHEDULE					
NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-2	.200	2.6	38	370/1/50	WALL HUNG
EH-4	.200	4	38	370/1/50	WALL HUNG
EH-5	.200	5	38	370/1/50	WALL HUNG

- NOTES:
- UNIT HEATERS SHALL BE MOUNTED FROM STRUCTURE ABOVE.
 - UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.

GENERAL NOTE:

- REFER TO DRAWING #E0 FOR ELECTRICAL SYMBOLS LIST.
- FLAG POLE SHALL HAVE THE SAME LIGHTNING PROTECTION SYSTEM AS THE POLE SUPPORTING THE PUBLIC ADDRESS SPEAKER CLUSTER. SEE DRAWING #E6 FOR DETAILS.
- REFER TO DRAWING #E6 FOR DETAILS RELATING TO LIGHTNING PROTECTION AND GROUNDING.

GENERAL NOTE:

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



SYMBOL	DESCRIPTION	DATE	APP

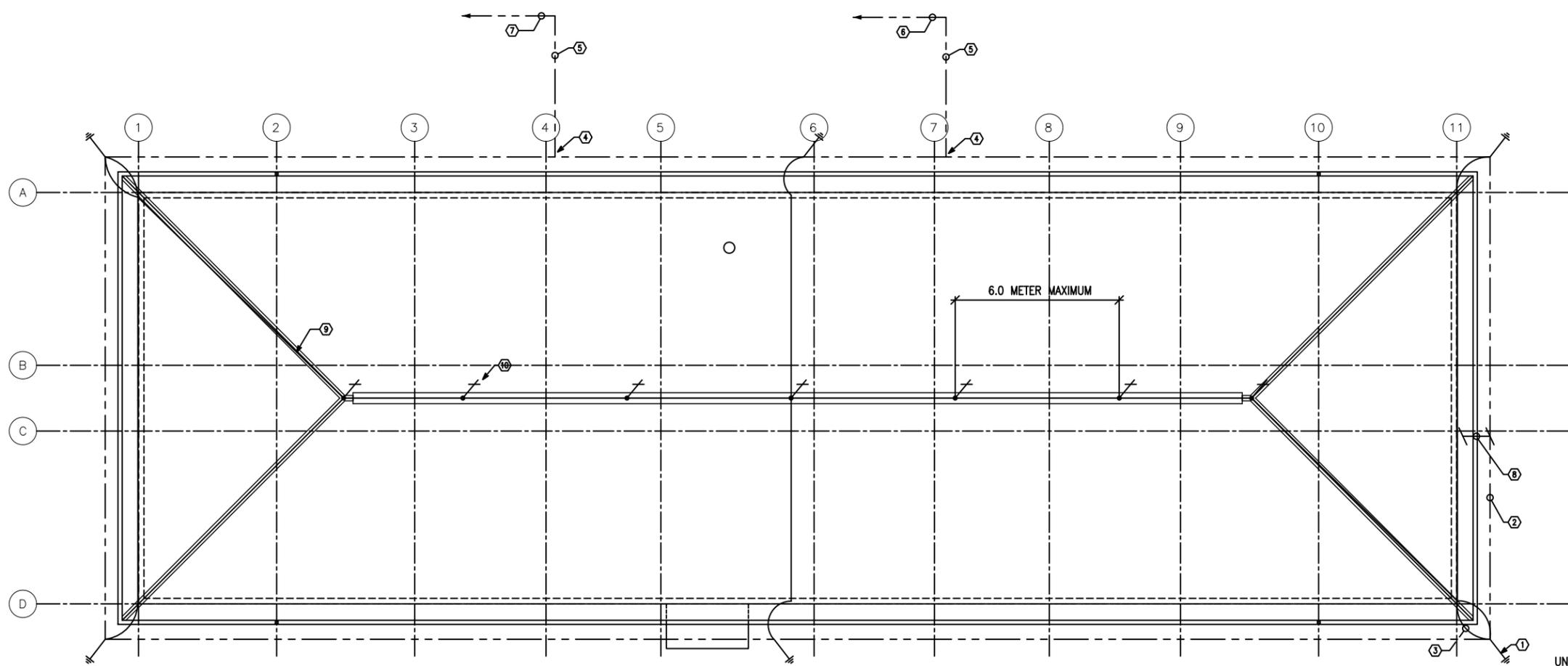
DESIGNED BY:	DATE:	09-30-09
JRG	SUBMITTED BY:	BAKER
DWN BY:	JRG	
CHK BY:	JRG	FILE NO.: ANPSDE-105XXX

Michael Baker Jr., Inc
 A unit of Michael Baker Corporation
 Airside Business Park
 100 Airside Drive
 Moon Township PA 15108
 www.mbakercorp.com

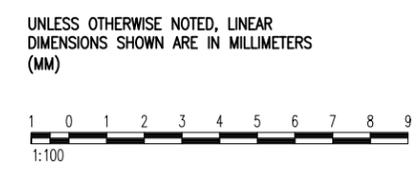
STANDARD DESIGN
 ADMINISTRATION BUILDING -
 2-STORY (1446 GSM)
 WOOD FIRED HEAT OPTION
 ROOF LIGHTNING PROTECTION PLAN

SHEET REFERENCE NUMBER:
E5

100% SUBMISSION



ROOF LIGHTNING PROTECTION PLAN
 SCALE: 1:100



US Army Corps of Engineers
Engineer
District

SYMBOL	DESCRIPTION	DATE	BY

DESIGNED BY: DATE:	JRG	09-30-09
OWN BY: SUBMITTED BY:	JRG	BAKER
CHK BY: FILE NO.:	JRG	ANPDE-105XXX

Michael Baker Jr., Inc
 A unit of Michael Baker Corporation
 Anetco Business Park
 100 Anetco Drive
 Moon Township, PA 15108
 www.mbakercorp.com

STANDARD DESIGN
 ADMINISTRATION BUILDING -
 2-STORY (1446 GSM)
 ELECTRIC HEAT OPTION
 ROOF LIGHTNING PROTECTION PLAN

SHEET
 REFERENCE
 NUMBER:
E5

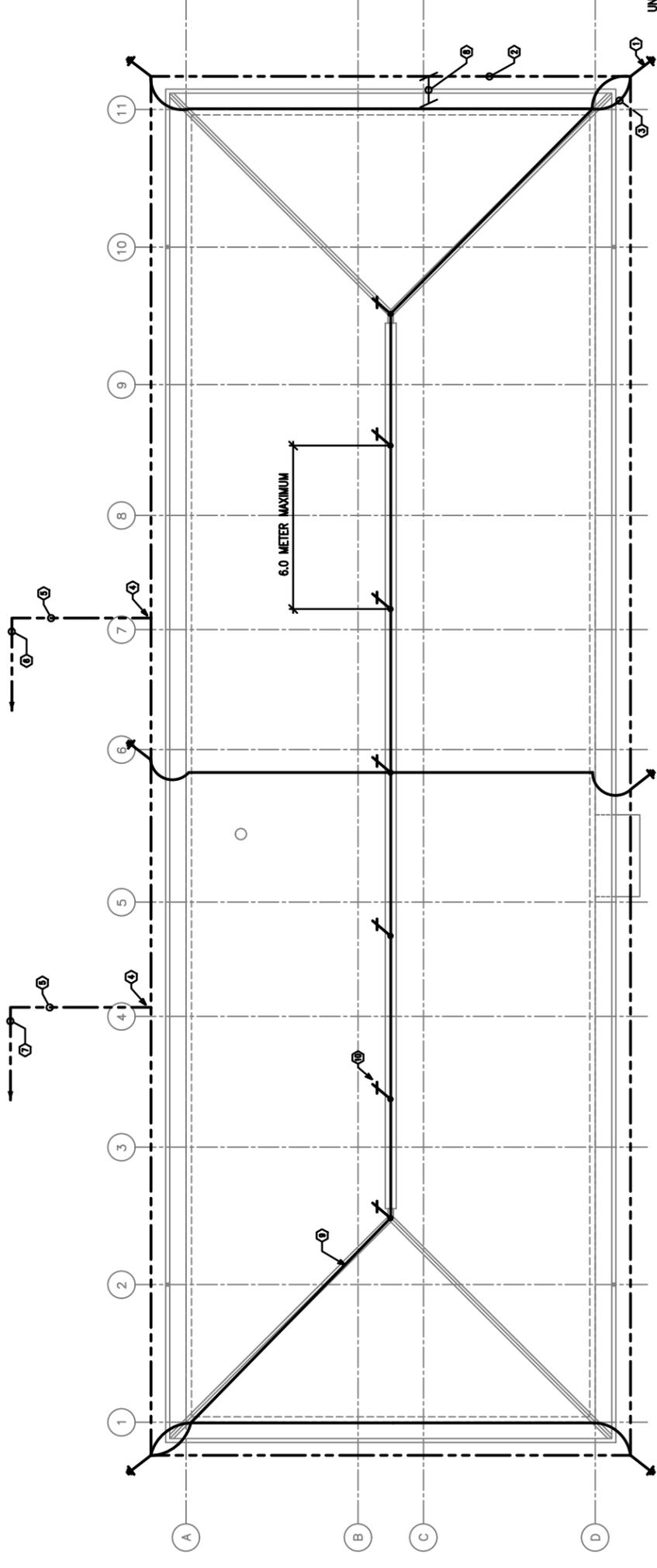
GENERAL NOTE:

- REFER TO DRAWING #E0 FOR ELECTRICAL SYMBOLS LIST.
- FLAG POLE SHALL HAVE THE SAME LIGHTNING PROTECTION SYSTEM AS THE POLE SUPPORTING THE PUBLIC ADDRESS SPEAKER CLUSTER. SEE DRAWING #E6 FOR DETAILS.
- REFER TO DRAWING #E6 FOR DETAILS RELATING TO LIGHTNING PROTECTION AND GROUNDING.

GENERAL NOTE:

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

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



1
E5 ROOF LIGHTNING PROTECTION PLAN
 SCALE: 1:100

A B C D E F G H

6 5 4 3 2 1

PANELBOARD A1 SURFACE MOUNTED ASYM. A.I.C. MIN.																											
400 AMP. MAIN LUGS (OR) 400 AMP. MAIN BREAKER W/ 400 AMP. TRIP																											
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE WIRE 50 HZ 400 AMP. BUS																											
CIRCUIT NO.	TRIP AMPS	WIRE SIZE	WIRE MM ²	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	
							A0	B0	C0								A0	B0	C0								A0
1	20	1	4.0	4.0	20	LIGHTING	1.4			1.1					20	LIGHTING	20	4.0	4.0	1	20	2				20	2
3	20	1	4.0	4.0	20	LIGHTING		0.9		2.2					20	LIGHTING	20	4.0	4.0	1	20	4				20	4
5	20	1	4.0	4.0	20	LIGHTING			1.4				1.5		20	LIGHTING	20	4.0	4.0	1	20	6				20	6
7	20	1	4.0	4.0	20	RECEPTACLES	1.0			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	8				20	8
9	20	1	4.0	4.0	20	RECEPTACLES		1.2		1.2					20	RECEPTACLES	20	4.0	4.0	1	20	10				20	10
11	20	1	4.0	4.0	20	RECEPTACLES			0.6				0.5		20	F.A.C.P.	20	4.0	4.0	1	20	12				20	12
13	20	1	4.0	4.0	20	EXHAUST FANS - 101, 102	0.5			8.0					20		20	4.0	4.0	1	20	14				20	14
15	20	1	4.0	4.0	20	EXHAUST FANS - 105, 106	0.5			8.0					20	WATER HEATER - 122	32	6.0	25.0	3	60	16				20	16
17	20	1	4.0	4.0	20	EXHAUST FANS - 111, 112			0.5		8.0				20		20	4.0	4.0	1	20	18				20	18
19	20	1	4.0	4.0	20	EXHAUST FANS - 118, 122	0.5			1.0					20	RECEPTACLES	20	4.0	4.0	1	20	20				20	20
21	20	1	4.0	4.0	20	EXHAUST FANS - 119, 120	0.5			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	22				20	22
23	20	1	4.0	4.0	20	EXHAUST FANS - 129, 130			0.5		1.0				20	RECEPTACLES	20	4.0	4.0	1	20	24				20	24
25	20	1	4.0	4.0	20	EXHAUST FANS - 109	0.5			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	26				20	26
27	20	1	4.0	4.0	20	RECEPTACLES		1.2		1.2					20	RECEPTACLES	20	4.0	4.0	1	20	28				20	28
29	20	1	4.0	4.0	20	RECEPTACLES			1.2		1.2				20	RECEPTACLES	20	4.0	4.0	1	20	30				20	30
31	20	1	4.0	4.0	20	RECEPTACLES	1.2			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	32				20	32
33	20	1	4.0	4.0	20	RECEPTACLES		1.2		1.2					20	RECEPTACLES	20	4.0	4.0	1	20	34				20	34
35	20	1	4.0	4.0	20	RECEPTACLES			1.2		1.2				20	RECEPTACLES	20	4.0	4.0	1	20	36				20	36
37	40	1	10.0	6.0	20	MUA-1	5.0			1.2				20	RECEPTACLES	20	4.0	4.0	1	20	38				20	38	
39	40	1	10.0	6.0	20	MUA-2		5.0		0.5				20	EXHAUST FANS - 104, 107	20	4.0	4.0	1	20	40				20	40	
41	40	1	10.0	6.0	20	MUA-3			5.0		5.0			20	MUA-3	20	6.0	10.0	1	40	42				20	42	
							10.1	10.5	10.4	14.9	15.5	18.4															
TOTAL CONN. LOAD PER PHASE (KVA): A0 72.2 B0 69.9 C0 65.1																											
TOTAL CONN. LOAD 207.2 KVA, 70 % DEMAND = ESTIMATED DEMAND LOAD 145.1 SUPPLIED FROM SWITCHGEAR MAIN DISTRIBUTION																											

- MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE
- PROVIDE WITH FEED-THROUGH LUGS
- THE LOAD ON THIS PANEL INCLUDES A1 (SECTIONS 1 AND 2) AND A2 (SECTIONS 1 AND 2).

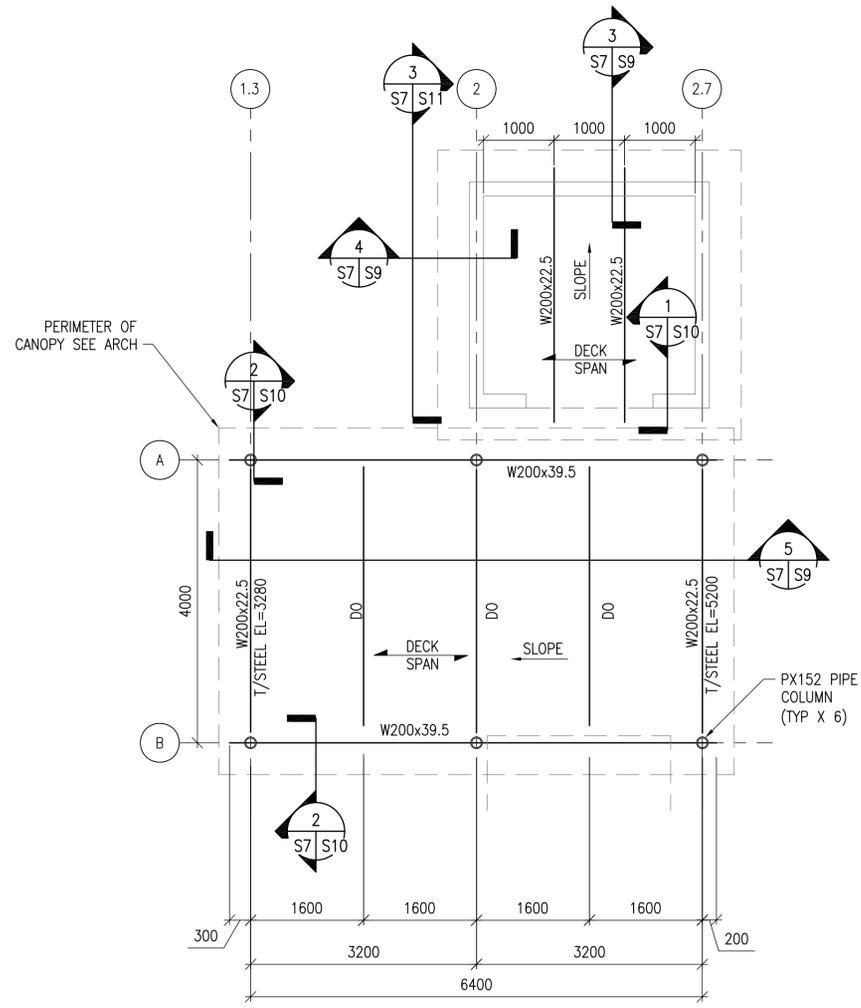
PANELBOARD A2 (SECTION 1) SURFACE MOUNTED ASYM. A.I.C. MIN.																											
200 AMP. MAIN LUGS (OR) 200 AMP. MAIN BREAKER W/ 200 AMP. TRIP																											
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE WIRE 50 HZ 200 AMP. BUS																											
CIRCUIT NO.	TRIP AMPS	WIRE SIZE	WIRE MM ²	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	
							A0	B0	C0								A0	B0	C0								A0
1	20	1	4.0	4.0	20	LIGHTING	1.7			1.5					20	LIGHTING	20	4.0	4.0	1	20	2				20	2
3	20	1	4.0	4.0	20	LIGHTING		1.1		1.2					20	LIGHTING	20	4.0	4.0	1	20	4				20	4
5	20	1	4.0	4.0	20	LIGHTING			1.2		1.2				20	RECEPTACLES	20	4.0	4.0	1	20	6				20	6
7	20	1	4.0	4.0	20	RECEPTACLES	1.0			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	8				20	8
9	20	1	4.0	4.0	20	RECEPTACLES		1.2		1.2					20	RECEPTACLES	20	4.0	4.0	1	20	10				20	10
11	20	1	4.0	4.0	20	RECEPTACLES			1.2		1.2				20	RECEPTACLES	20	4.0	4.0	1	20	12				20	12
13	20	1	4.0	4.0	20	RECEPTACLES	1.2			1.2					20	RECEPTACLES	20	4.0	4.0	1	20	14				20	14
15	20	1	4.0	4.0	20	RECEPTACLES		1.2		1.2					20	RECEPTACLES	20	4.0	4.0	1	20	16				20	16
17	20	1	4.0	4.0	20	EXHAUST FANS - 214, 215			0.5		1.2				20	RECEPTACLES	20	4.0	4.0	1	20	18				20	18
19	20	1	4.0	4.0	20	EXHAUST FAN - 212	0.5			1.0					20	RECEPTACLES	20	4.0	4.0	1	20	20				20	20
21	40	1	10.0	6.0	20	MUA-1		5.0		1.0				20	RECEPTACLES	20	4.0	4.0	1	20	22				20	22	
23	20	1	4.0	4.0	20	RECEPTACLES			0.6		0.6				20	RECEPTACLES	20	4.0	4.0	1	20	24				20	24
25	20	1	4.0	4.0	20	RECEPTACLES	0.8			0.3					20	SPEAKER AMPLIFIER	20	4.0	4.0	1	20	26				20	26
27	20	1	4.0	4.0	20	RECEPTACLES		0.8		1.2					20	CEILING FAN-201,202	20	4.0	4.0	1	20	28				20	28
29	20	1	4.0	4.0	20	RECEPTACLES			0.6		1.2				20	CEILING FAN-203,204,205	20	4.0	4.0	1	20	30				20	30
31	20	1	4.0	4.0	20	RECEPTACLES	1.2			1.0					20	CEILING FAN-207-211	20	4.0	4.0	1	20	32				20	32
33	20	1	4.0	4.0	20	RECEPTACLES		1.2			0.6				20	CEILING FAN-213,216	20	4.0	4.0	1	20	34				20	34
35	20	1	4.0	4.0	20	RECEPTACLES			1.0		0.8				20	CEILING FAN-217-220	20	4.0	4.0	1	20	36				20	36
37	50	1	16.0	6.0	25	HP-1 (INDOOR)	6.5			2.6				20	ELECTRIC HEATERS-214,215	20	4.0	4.0	2	20	38				20	38	
39	50	1	16.0	6.0	25	HP-2 (INDOOR)		6.5		2.6				20		20	4.0	4.0	2	20	40				20	40	
41	50	1	16.0	6.0	25	HP-3 (INDOOR)			6.5					20	SPARE					1	20	42				20	42
							12.9	17.0	11.6	8.8	9.0	6.2															
TOTAL CONN. LOAD PER PHASE (KVA): A0 23.0 B0 27.3 C0 17.8																											
TOTAL CONN. LOAD 68.1 KVA, 70 % DEMAND = ESTIMATED DEMAND LOAD 47.7 SUPPLIED FROM PANEL A1 (SECTION 2)																											

- MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE
- PROVIDE WITH FEED-THROUGH LUGS
- THE LOAD ON THIS PANEL INCLUDES A2 (SECTIONS 1 AND 2).

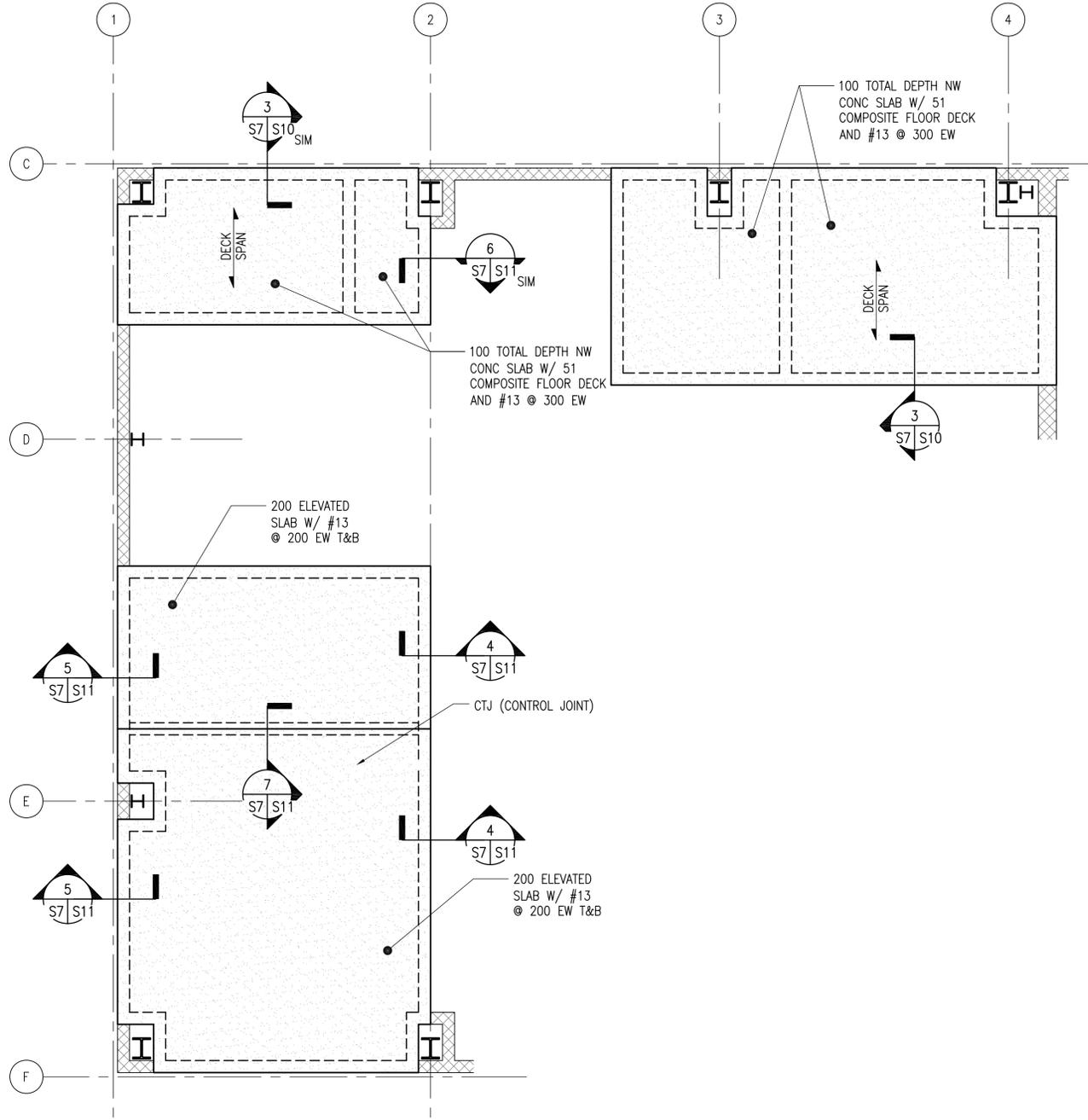
PANELBOARD A1 SURFACE MOUNTED ASYM. A.I.C. MIN.																											
400 AMP. MAIN LUGS (OR) 400 AMP. MAIN BREAKER W/ 400 AMP. TRIP																											
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE WIRE 50 HZ 400 AMP. BUS																											
CIRCUIT NO.	TRIP AMPS	WIRE SIZE	WIRE MM ²	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	LOAD-Y.A.			LOAD SERVED	CONDUIT MM	GND MM ²	WIRE MM ²	WIRE SIZE	TRIP AMPS	CIRCUIT NO.	
							A0	B0	C0								A0	B0	C0								A0
43	20	1	4.0	4.0	20	CEILING FANS-110	0.6			0.4					20	CEILING FANS-123	20	4.0	4.0	1	20	44				20	44
45	20	1	4.0	4.0	20	CEILING FANS-108,109,128	0.6			2.5					20	ELECTRIC HEATER-125	20	4.0	4.0	2	20	46				20	46
47	20	1	4.0	4.0	20	HP-1 (OUTDOOR)			2.5						20		20	4.0	4.0	2	20	48				20	48
49	20	1	4.0	4.0	20	HP-1 (OUTDOOR)	2.5			2.0					20	ELECTRIC HEATER-111	20	4.0	4.0	2	20	50				20	50
51	20	1	4.0	4.0	20	HP-2 (OUTDOOR)		2.5		2.0					20		20	4.0	4.0	2	20	52				20	52
53	20	1	4.0	4.0	20	HP-3 (OUTDOOR)			2.5		2.0				20	ELECTRIC HEATER-111	20	4.0	4.0	2	20	54				20	54
55	50	1	25.0	6.0	32	HP-2 (INDOOR)	6.5			2.0				20		20	4.0	4.0	2	20	56				20	56	
57							23.0			1.3					20	ELECTRIC HEATER-112	20	4.0	4.0	2	20	58				20	58
59	200	3	95.0	16.0	50	PANEL A2			27.3		1.3			20		20	4.0	4.0	2	20	60				20	60	
61									17.8		2.5				20	ELECTRIC HEATER-125	20	4.0	4.0	2	20	62				20	62
63						SPARE				2.5					20		20	4.0	4.0	2	20	64				20	64
65						SPARE				2.5					20	ELECTRIC HEATER-117	20	4.0	4.0	2	20	66				20	66
67						SPARE				2.5					20		20	4.0	4.0	2	20	68				20	68
69																											

A B C D E F G H

6
5
4
3
2
1



ENLARGED KITCHEN ANNEX AND WOOD STORAGE ROOF FRAMING PLAN
SCALE: 1:50



ENLARGED ELEVATED SLAB STORAGE AREA FRAMING PLAN
SCALE: 1:50

- NOTES:**
1. REFER TO SHEETS S1 TO S4 FOR STRUCTURAL NOTES, BASIS OF DESIGN SYMBOLS AND ABBREVIATIONS.
 2. SEE SPECIFICATION FOR LATERAL DRIFT REQUIREMENTS.
 3. ROOF DECK OVER KITCHEN ANNEX BUILDING SHALL BE 38mm, 18 GAUGE, TYPE B WIDE RIB METAL DECK.
 4. SEE CMU WALL REINFORCING SCHEDULE ON SHEET S4.

US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY:	DATE:	09-30-09
WJ	SUBMITTED BY:	BAKER
DWN BY:	RCC	
CHK BY:	CWW	
	FILE NO.:	ANFSDS-107XXX

Michael Baker, Jr. Inc.
A Unit of Michael Baker Corporation
1000 Independence Blvd.
Moon Township, PA 15108
www.mbakercorp.com

AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION
ENLARGED KITCHEN ANNEX AND
WOOD STORAGE ROOF FRAMING PLAN

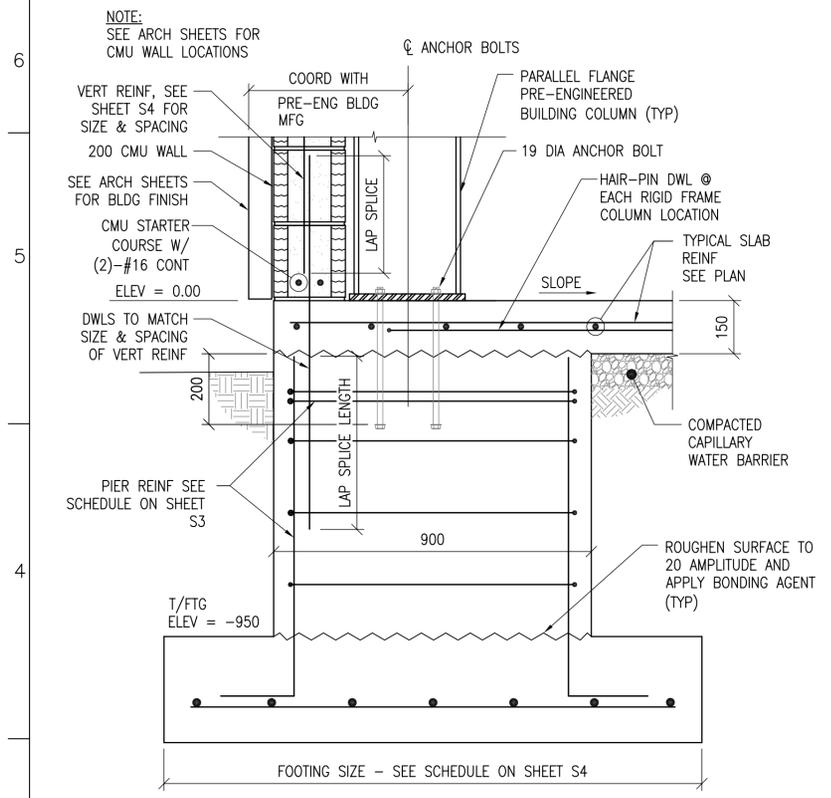
SHEET REFERENCE NUMBER:
S7

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

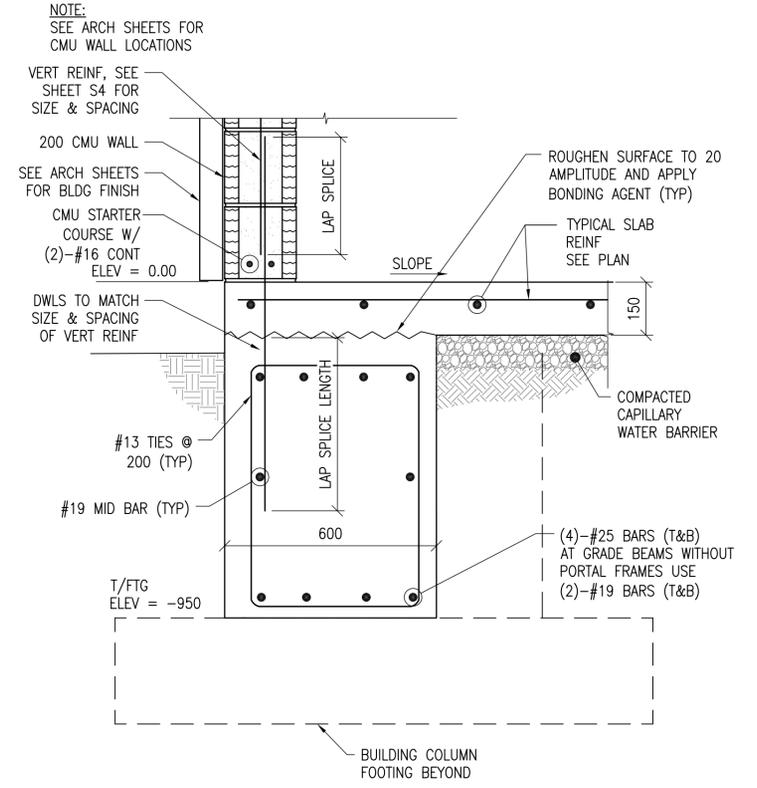
SCALE: 1: 50

100% SUBMISSION

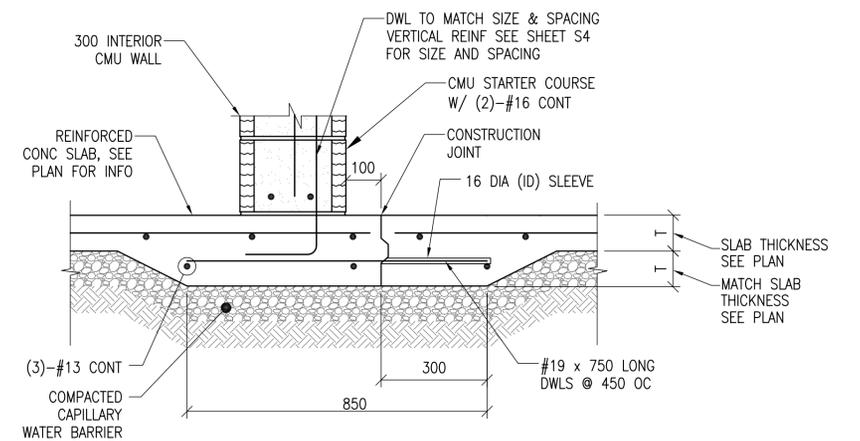
A B C D E F G H



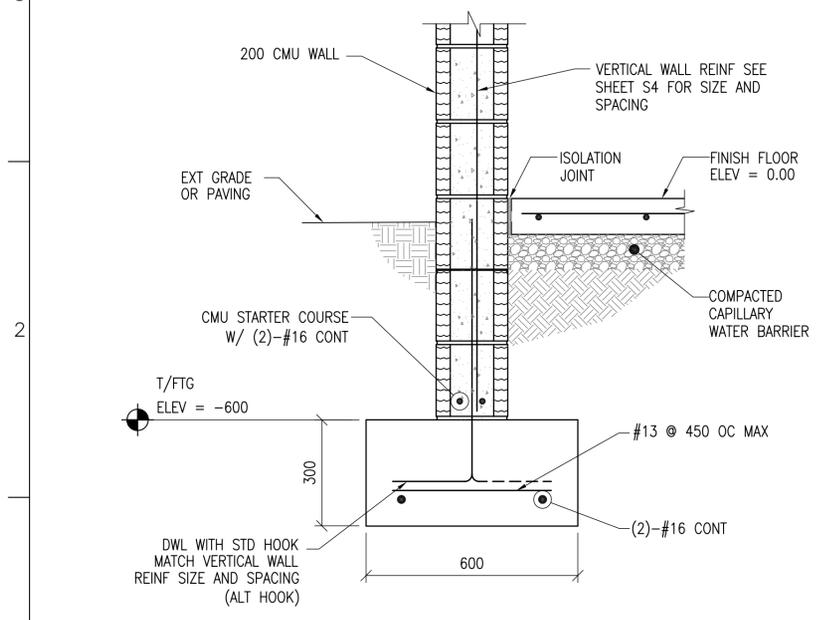
1 SECTION
S5 S8 SCALE: 1:10



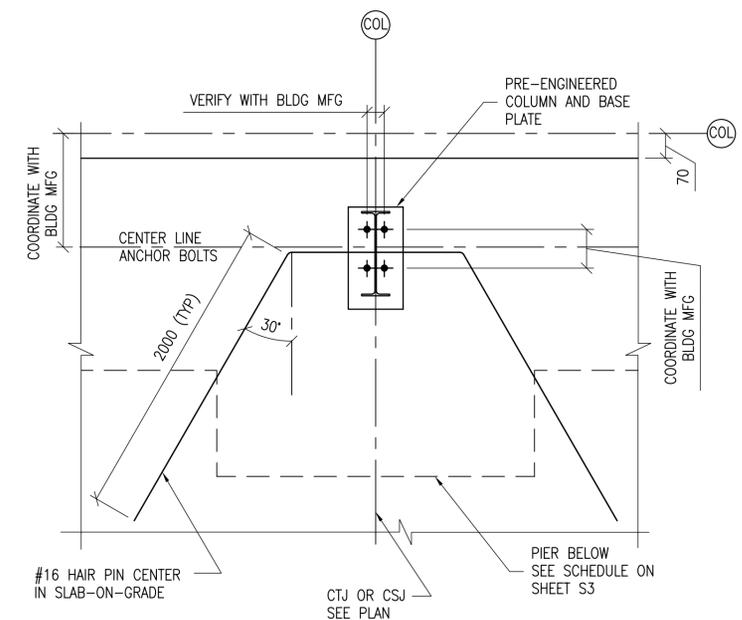
2 SECTION
S5 S8 SCALE: 1:10



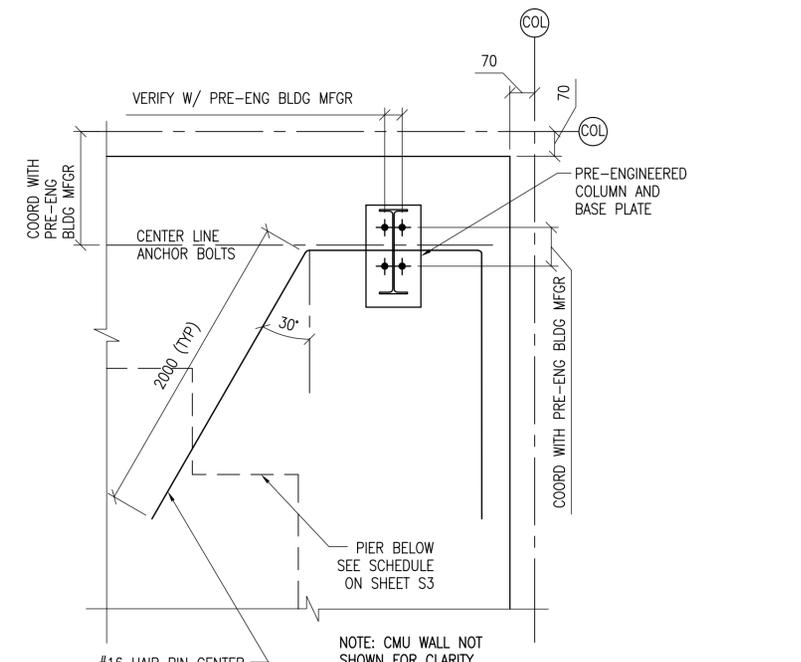
3 CONTROL JOINT DETAIL AT CMU WALL
S5 S8 SCALE: 1:10



4 SECTION
S5 S8 SCALE: 1:10



A COLUMN DETAIL
S5 S8 SCALE: 1:10



B COLUMN DETAIL
S5 S8 SCALE: 1:10

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

0 200 400 800
SCALE: 1: 10

US Army Corps of Engineers
Afghanistan Engineer District

DATE	DESCRIPTION	SYMBOL
APR		

DESIGNED BY: WJJ	DATE: 09-30-09
DWN BY: RCG	SUBMITTED BY: BAKER
CHK BY: CWV	FILE NO: ANPSDS-308XXX

Michael Baker, Inc.
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1000 Business Park
Moon Township, PA 15108
www.mbakercorp.com

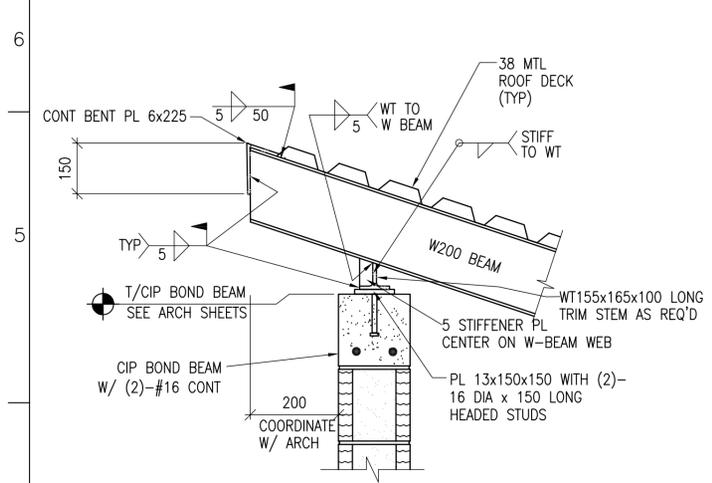
AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION

SECTIONS & DETAILS

SHEET REFERENCE NUMBER:
S8

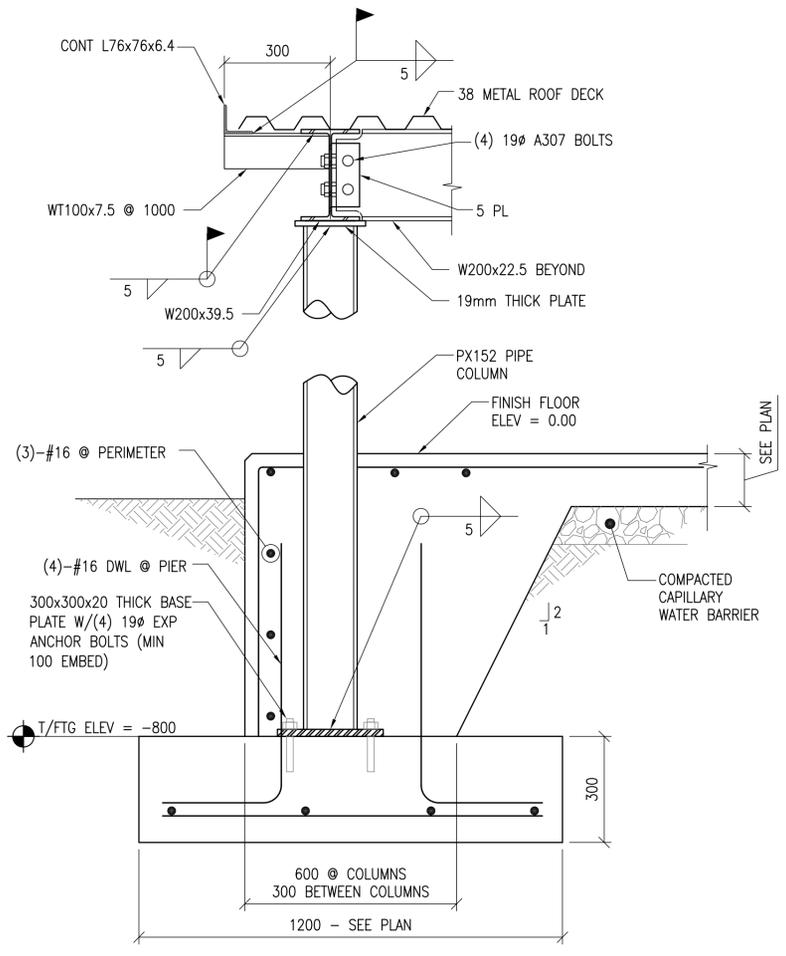
100% SUBMISSION

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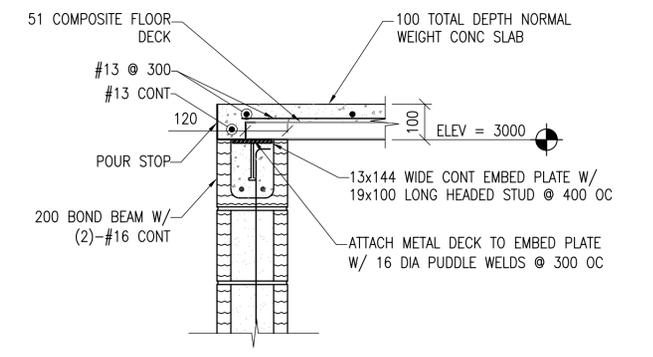


NOTE:
1. VERTICAL CMU WALL REINF NOT SHOWN FOR CLARITY, SEE SHEE S4 FOR SIZE AND SPACING (TYP)

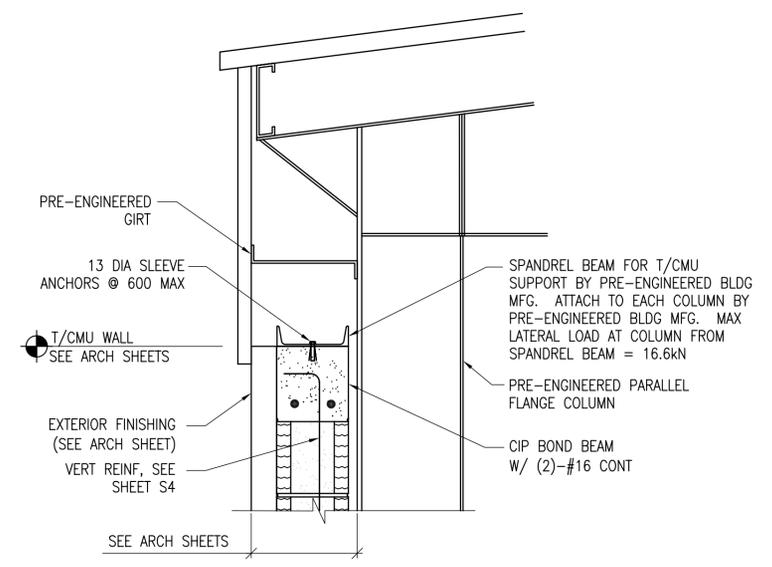
1 SECTION
SCALE: 1:10



2 SECTION
SCALE: 1:10



3 DETAIL
SCALE: 1:10



NOTE:
VERTICAL CMU WALL REINF NOT SHOWN FOR CLARITY, SEE SHEET S4 FOR SIZE AND SPACING (TYP)

4 SECTION
SCALE: 1:10

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

SCALE: 1: 10

US Army Corps of Engineers
Afghanistan Engineer District

NO.	DATE	DESCRIPTION	SYMBOL

DESIGNED BY: WJJ	DATE: 09-30-09
DWN BY: RCG	SUBMITTED BY: BAKER
CHK BY: CWV	FILE NO: ANPSDS-310XXX

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AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION

SECTIONS & DETAILS

SHEET REFERENCE NUMBER:
S10

100% SUBMISSION

SYMBOL	DESCRIPTION	DATE

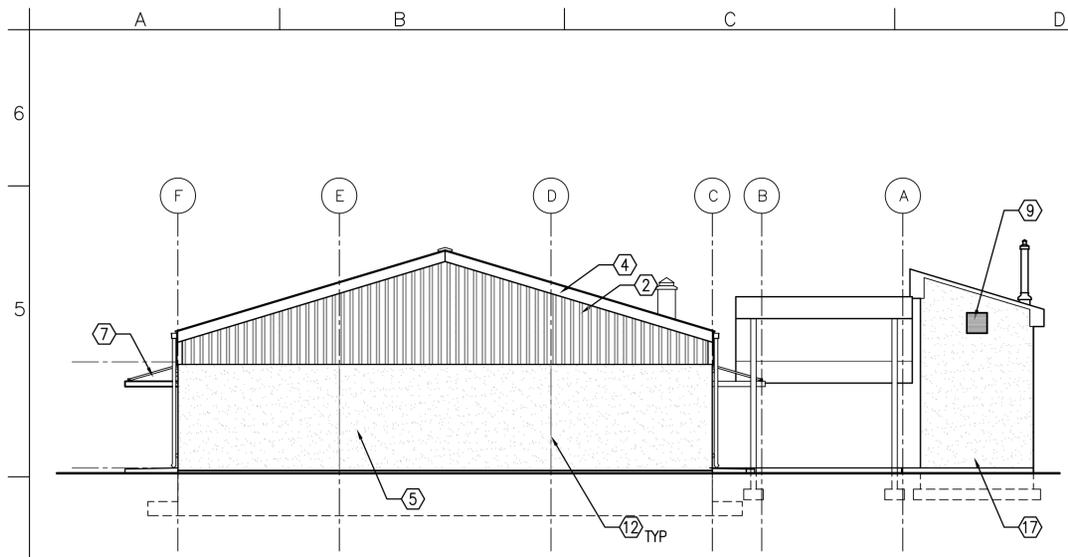
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DWN BY:	ECN	SUBMITTED BY:	BAKER
CHK BY:	NLJ	FILE NO.:	ANPSDA-203XXX

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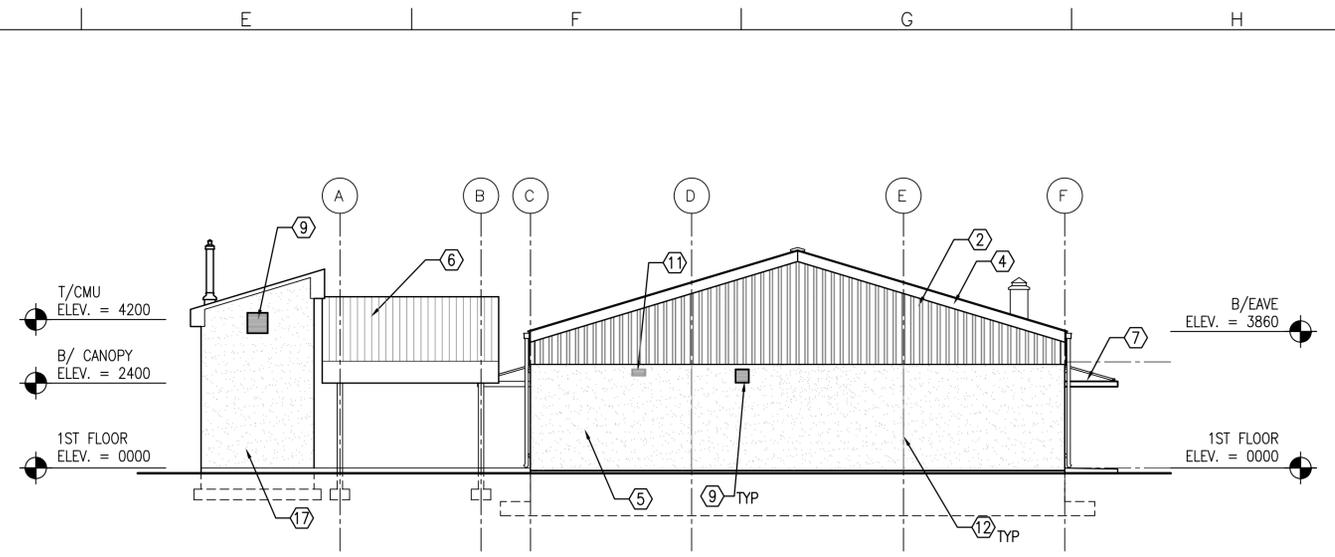
AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION
EXTERIOR ELEVATIONS

SHEET REFERENCE NUMBER:
A3

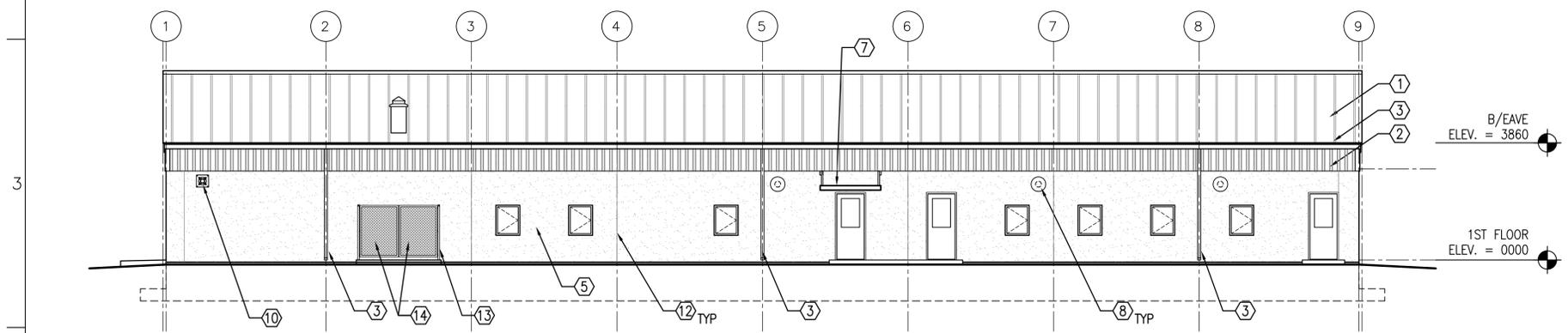
100% SUBMISSION



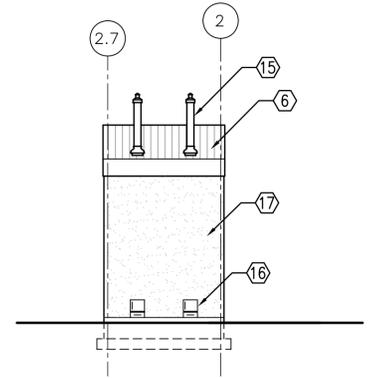
1 NORTH ELEVATION
A1|A2 SCALE: 1:100



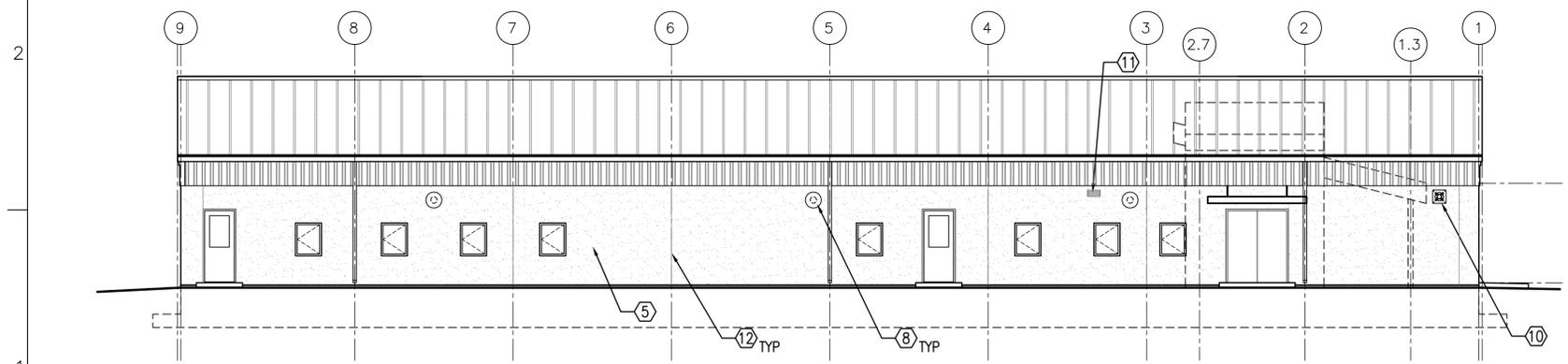
2 SOUTH ELEVATION
A1|A2 SCALE: 1:100



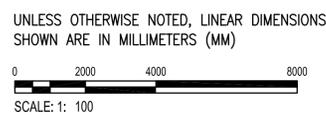
3 WEST ELEVATION
A1|A2 SCALE: 1:100



4 KITCHEN ANNEX ELEVATION
A1|A3 SCALE: 1:100



5 EAST ELEVATION
A1|A2 SCALE: 1:100

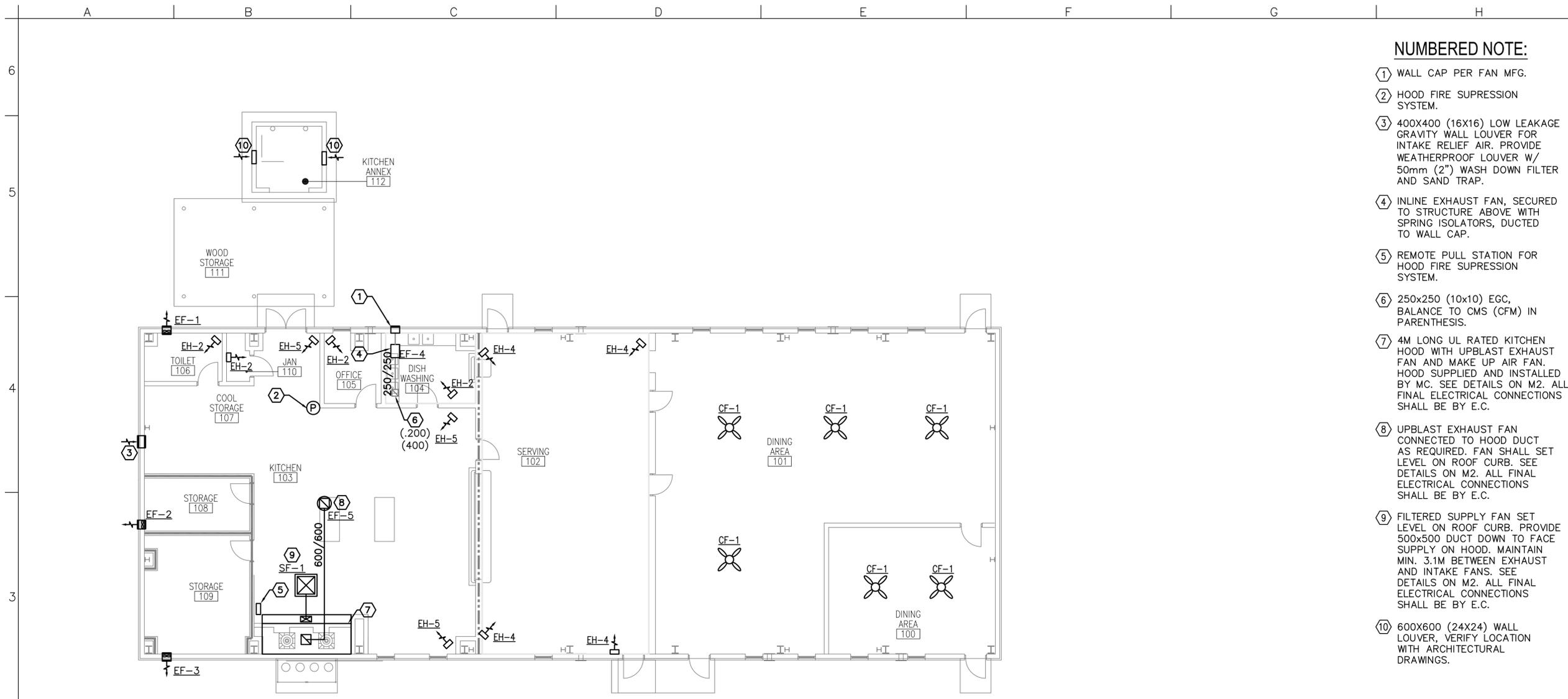


KEY NOTES:

- PRE-FINISHED METAL ROOF PANELS BY METAL BUILDING MANUFACTURER.
- PRE-FINISHED METAL WALL PANELS BY METAL BUILDING MANUFACTURER.
- METAL GUTTERS AND DOWNSPOUTS BY METAL BUILDING MANUFACTURER, TYPICAL
- RAKE TRIM BY METAL BUILDING MANUFACTURER
- STUCCO AND RIGID INSULATION ON CMU
- CORRUGATED METAL ROOF PANELS
- METAL ENTRANCE CANOPY
- TWO-PIECE WALL THIMBLE AND TRIM PLATE FOR OPTIONAL WOOD BURNING STOVE CHIMNEY PIPE. STOVE AND PIPE BY OTHERS.
- LOUVER - RE: MECH
- EXHAUST FAN - RE: MECH
- EXHAUST FAN WITH DUCT WALL CAP - RE: MECH
- CMU CONTROL JOINT, TYPICAL.
- POSTS: 50 MM DIAMETER GALVANIZED PIPE, RE: SHEET A9
- GATES: GALVANIZED CHAINLINK FENCE ATTACHED TO 50 MM DIAMETER GALVANIZED PIPE. FINISHED HEIGHT SHALL BE 1800 MM MINIMUM.
- STAINLESS STEEL VENT PIPE
- CAST IRON DOORS
- STUCCO ON CMU

GENERAL NOTES:

- COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
- PROVIDE STRUCTURAL LINTELS AS REQUIRED - RE: STRUCT.
- PROVIDE CMU CONTROL JOINT AT EACH STEEL COLUMN - RE: DETAIL 6/A4.



NUMBERED NOTE:

- ① WALL CAP PER FAN MFG.
- ② HOOD FIRE SUPPRESSION SYSTEM.
- ③ 400X400 (16X16) LOW LEAKAGE GRAVITY WALL LOUVER FOR INTAKE RELIEF AIR. PROVIDE WEATHERPROOF LOUVER W/ 50mm (2") WASH DOWN FILTER AND SAND TRAP.
- ④ INLINE EXHAUST FAN, SECURED TO STRUCTURE ABOVE WITH SPRING ISOLATORS, DUCTED TO WALL CAP.
- ⑤ REMOTE PULL STATION FOR HOOD FIRE SUPPRESSION SYSTEM.
- ⑥ 250x250 (10x10) EGC, BALANCE TO CMS (CFM) IN PARENTHESIS.
- ⑦ 4M LONG UL RATED KITCHEN HOOD WITH UPBLAST EXHAUST FAN AND MAKE UP AIR FAN. HOOD SUPPLIED AND INSTALLED BY MC. SEE DETAILS ON M2. ALL FINAL ELECTRICAL CONNECTIONS SHALL BE BY E.C.
- ⑧ UPBLAST EXHAUST FAN CONNECTED TO HOOD DUCT AS REQUIRED. FAN SHALL SET LEVEL ON ROOF CURB. SEE DETAILS ON M2. ALL FINAL ELECTRICAL CONNECTIONS SHALL BE BY E.C.
- ⑨ FILTERED SUPPLY FAN SET LEVEL ON ROOF CURB. PROVIDE 500x500 DUCT DOWN TO FACE SUPPLY ON HOOD. MAINTAIN MIN. 3.1M BETWEEN EXHAUST AND INTAKE FANS. SEE DETAILS ON M2. ALL FINAL ELECTRICAL CONNECTIONS SHALL BE BY E.C.
- ⑩ 600X600 (24X24) WALL LOUVER, VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS.

US Army Corps of Engineers
Afghanistan Engineer District

NO.	DATE	DESCRIPTION	SYMBOL

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

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FLOOR 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.

- SYMBOLS:**
- (X) KEY NOTE
 - (.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
 - FD FIRE DAMPER
 - ☒ EXHAUST AIR GRILLE

NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECT. CHAR.	SWITCH
EF-1	WALL	0.050	DIRECT	FRACT	13	220/1/50	☉ WALL
EF-2	WALL	0.050	DIRECT	FRACT	13	220/1/50	☉ WALL
EF-3	WALL	0.050	DIRECT	FRACT	13	220/1/50	☉ WALL
EF-4	INLINE	0.200	DIRECT	FRACT	13	220/1/50	☉ WALL
EF-5	UPBLAST	2.500	DIRECT	2	25	220/1/50	☉ HOOD
SF-1	SUPPLY	2.400	DIRECT	2	13	220/1/50	☉ HOOD

- NOTE:**
- EF-2 SHALL BE EXPLOSION PROOF.
 - INLINE FANS SHALL BE SURFACE MOUNTED WITH SPRING ISOLATORS.
 - ALL FINAL ELECTRICAL CONNECTIONS ARE BY THE ELECTRICAL CONTRACTOR.

NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-2	.200	2.6	38	370/1/50	WALL HUNG
EH-4	.200	4	38	370/1/50	WALL HUNG
EH-5	.200	5	38	370/1/50	WALL HUNG

- NOTES:**
- UNIT HEATERS SHALL BE MOUNTED FROM STRUCTURE ABOVE.
 - UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.

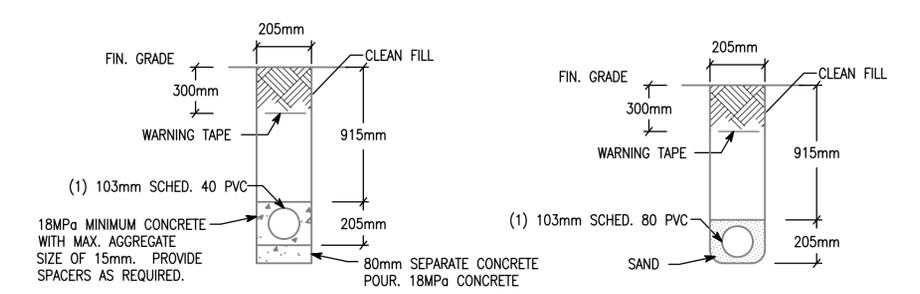
NO.	BLADE SIZE		VOLTAGE	SWITCH
	mm	IN		
CF-1	1320	52	220/1/50	☉ WALL

- NOTES:**
- FINAL ELECTRICAL CONNECTIONS BY EC.

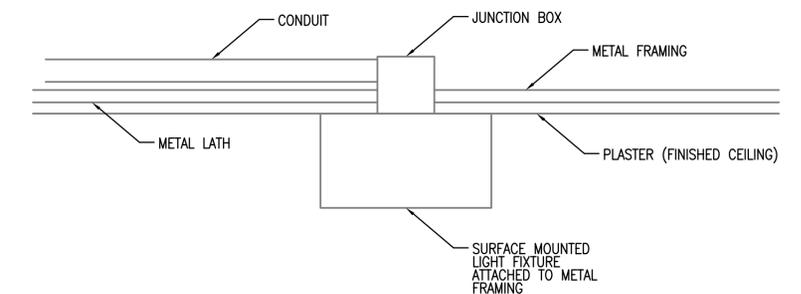
AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION
HVAC FLOOR PLAN

SHEET REFERENCE NUMBER:
M1

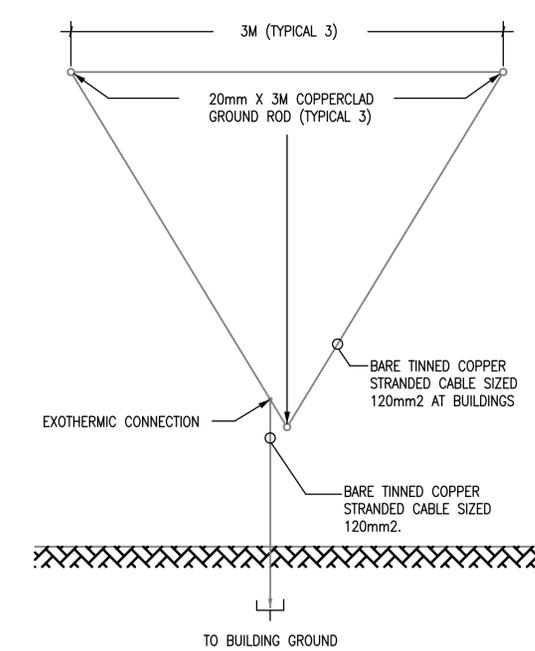
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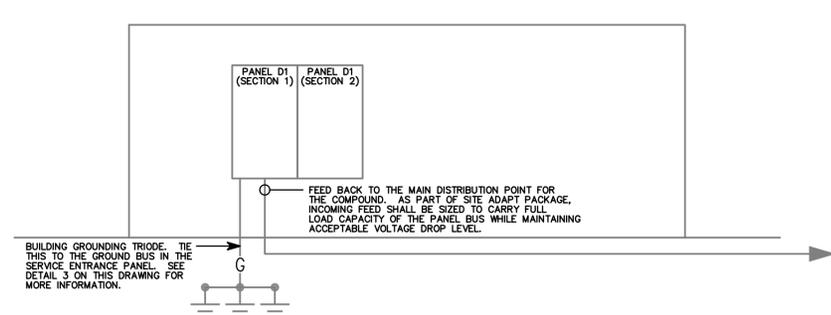
1
E5 E3
TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.



2
E3 E3
TYPICAL DETAIL FOR SURFACE MOUNTED LIGHT FIXTURES
SCALE: N.T.S.



3
E3 E3
GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



4
E3 E3
D.2 RISER DIAGRAM
SCALE: N.T.S.

US Army Corps of Engineers
Afghanistan Engineer District

SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: JRG DATE: 09-30-09
 DWN BY: JRG SUBMITTED BY: BAKER
 CHK BY: JRG FILE NO.: ANFSDE-503XXX
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AFGHAN NATIONAL POLICE
STANDARD DESIGN
DINING FACILITIES BUILDING (559 GSM)
WOOD FIRED HEAT OPTION
DETAILS

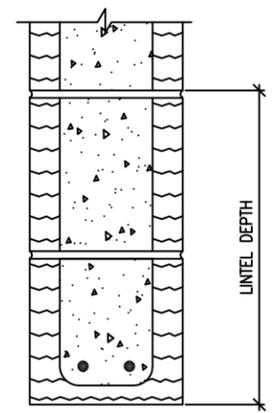
SHEET REFERENCE NUMBER:
E3

100% SUBMISSION

MASONRY CONCRETE LINTEL SCHEDULE

OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	BEAM DEPTH (mm)	MAIN REINFORCING			SHEAR REINF STIRRUPS
			TOP	BOTTOM	OTHER	
EXT WALL OPENING, 1-STORY BLDG	1800	400	(2)-#13	(2)-#13		----
EXT WALL OPENING, 1-STORY BLDG	900	200		(2)-#13		----
INT WALL OPENING, NON-BEARING	2400	400		(2)-#13		----
INT WALL OPENING, NON-BEARING	1800	200		(2)-#13		----
INT WALL OPENING, NON-BEARING	900	200		(2)-#13		----
INT WALL OPENING, SHEAR WALL	900	200		(2)-#13		----
INT WALL OPENING, SHEAR WALL	1800	200	(2)-#13	(2)-#13		----
INT WALL OPENING, SHEAR WALL	2400	400	(2)-#16	(2)-#16		#13 @ 300

- STRUCTURAL SHEETS DO NOT INDICATE ALL OPENINGS IN MASONRY WALLS. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS FROM ARCHITECTURAL SHEETS AND APPROVED PLUMBING, MECHANICAL, AND ELECTRICAL SHOP DRAWINGS.
- PROVIDE 200mm BEARING EA END FOR 200mm DEEP CMU LINTEL PROVIDE 400mm BEARING EA END FOR 400mm DEEP CMU LINTEL.
- FOR HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.
- REINFORCING SHALL BE ASTM A615M, GRADE 400. CONCRETE FOR CAST-IN-PLACE BEAMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, DETAILS, LOCATIONS, ETC FOR ALL CAST-IN-PLACE BEAMS IN CMU WALLS.



TYPICAL CMU LINTEL DETAIL

SCALE: NTS

- NOTE:
- SEE SCHEDULE THIS SHEET FOR REINFORCING & LINTEL DEPTH

MAXIMUM CMU WALL UNSUPPORTED HEIGHT OR LENGTH

	WALL THICKNESS (mm)	EXTERIOR WALL NON-LOAD BEARING (mm)	INTERIOR NON-LOAD BEARING WALL (mm)
MAX HEIGHT OR LENGTH BETWEEN SUPPORTS	200	4800	7200

NOTE: CMU WALL MAXIMUM LATERAL SUPPORT SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE THE ABOVE SCHEDULE REQUIREMENTS.

MASONRY REINFORCING MINIMUM LAP SPLICES

BAR SIZE	BASIC LAP SPLICE Ld FOR CMU REINFORCING (mm)
#10	450
#13	600
#16	750
#19	900
#22	1050
#25	1200

TYPICAL CMU WALL REINFORCING SCHEDULE

WALL TYPE OR LOCATION	WALL THICKNESS (mm)	CONT VERT REINF (CENTERED IN CMU, UON)	CONT CAST IN PLACE BOND BEAM			REMARKS
			DEPTH (mm)	REINF (BOTT UON)	MAX BOND BEAM VERT SPACING (mm)	
ALL PERIMETER/EXTERIOR WALLS (UON)	200	1-#16 @ 600	200	2-#16	1200	----
NON-LOAD BEARING INTERIOR WALLS WITH TOP AND BOTT SUPPORTS	200	1-#13 @ 1200	200	2-#16	1200	----

- NOTES:
- REINFORCING SIZES AND SPACING GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE THE ABOVE SCHEDULE REQUIREMENTS.
 - PROVIDE CONTINUOUS CAST IN PLACE CONCRETE BOND BEAM AT ALL WALL LATERAL SUPPORT LOCATIONS.
 - REINFORCING INDICATED SHALL BE CONTINUOUS FOR FULL EXTENT OF SPLICE FOLLOWING THE REQUIREMENTS OF THE LAP SPLICE TABLE SHOWN ON THIS SHEET.
 - WALLS HAVE BEEN DESIGNATED AS VERTICALLY SPANNING UON AND THEREFORE MUST BE TEMPORARILY SUPPORTED DURING CONSTRUCTION UNTIL THE SUPPORTING DIAPHRAGMS (FLOOR AND ROOF SYSTEMS) HAVE BEEN COMPLETELY INSTALLED. SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL CMU WALLS SHALL BE FULLY GROUTED IN LIFTS NOT EXCEEDING THOSE BY CODE (UON)
 - SEE TYPICAL CMU WALL DETAILS ON SHEET S9.

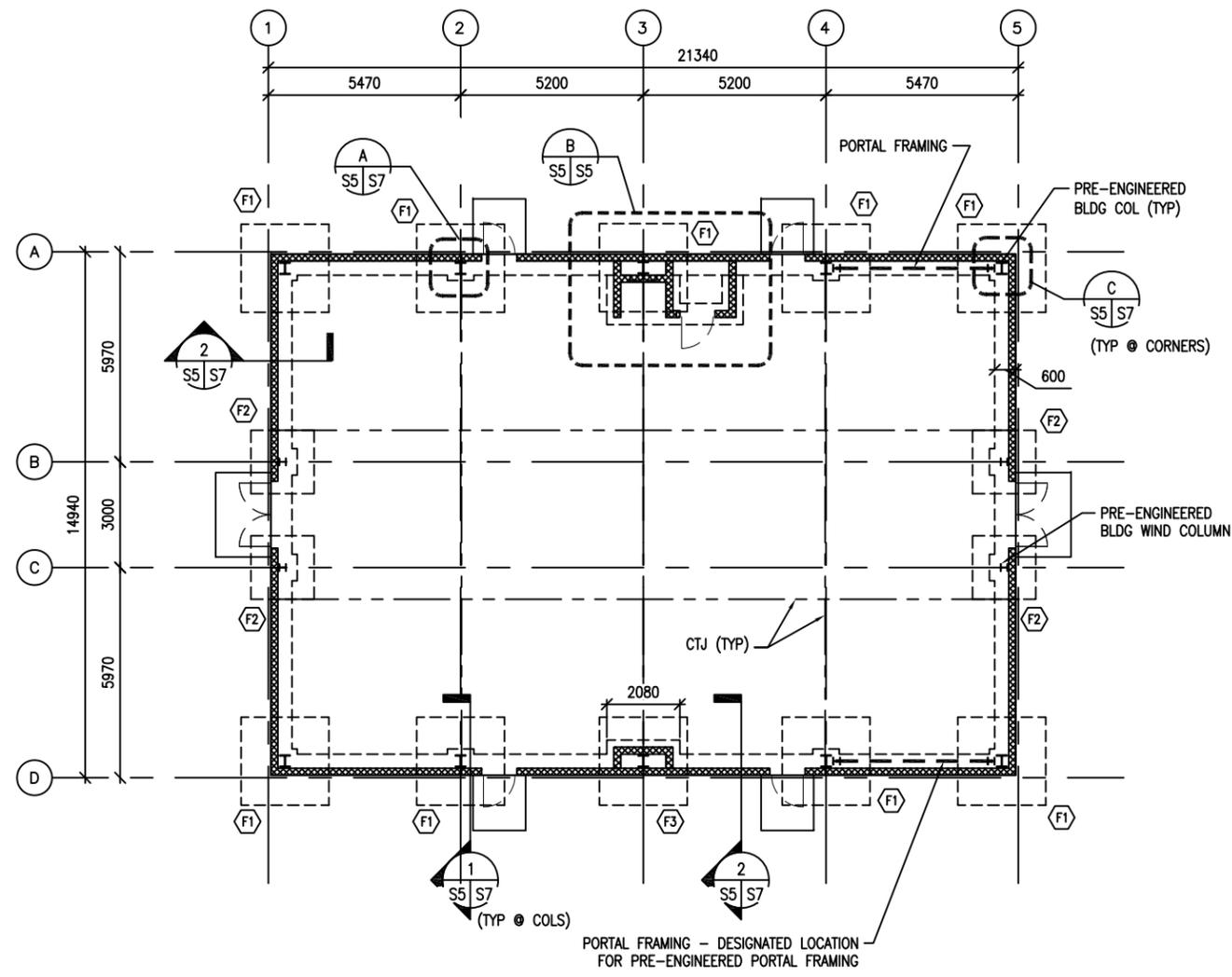
SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: WJW	DATE: 09-30-09	SUBMITTED BY: BAKER	FILE NO.: ANPSDS-004XXX
DWN BY: RCG		CHK BY: CWV	

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Arlside Business Park
100 Arslide Drive
Moon Township PA 15108
www.mbakercorp.com

STANDARD DESIGN TRAINING BUILDING WOOD FIRED HEAT OPTION
GENERAL NOTES

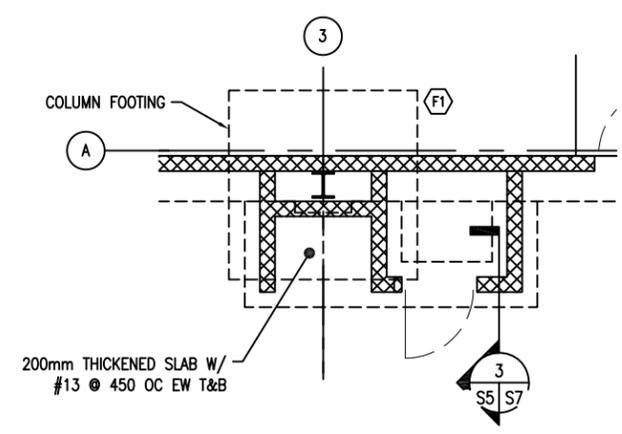
SHEET REFERENCE NUMBER:
S4



FOUNDATION PLAN
SCALE: 1:100

PLAN NOTES:

1. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.0). ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
2. TOP OF FOOTINGS SHALL BE -500 UNLESS OTHERWISE INDICATED.
3. UNLESS OTHERWISE INDICATED, FLOORS SHALL BE 150 THICK CONCRETE SLAB-ON-GRADE W/ #13 REBAR @ 450 OC EW (38 CLR TOP) OVER 100 COMPACTED CAPILLARY WATER BARRIER (#57 STONE).
4. SPREAD FOOTINGS INDICATED THUS (XXXX) ON PLAN. REFER TO SPREAD FOOTING SCHEDULE ON SHEET S3.
5. REFER TO SHEETS S1 TO S3 FOR STRUCTURAL NOTES, BASIS OF DESIGN, SYMBOLS, & ABBREVIATIONS.
6. CTJ & CSJ INDICATES SLAB CONTROL OR CONSTRUCTION JOINTS RESPECTIVELY. REFER TO SHEET S9 FOR DETAILS.
7. REFER TO ARCHITECTURAL SHEETS FOR MASONRY PARTITION TYPES.
8. ALL CMU TO BE FULLY GROUTED UNLESS OTHERWISE NOTED. SEE CMU WALL REINFORCING SCHEDULE ON SHEET S4.
9. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S9 FOR DETAILS.
10. PRIOR TO CONSTRUCTION OF FOUNDATIONS, THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FOOTINGS, PIERS, AND TURN DOWN SLAB EDGES WITH THE PRE-ENGINEERED BUILDING DRAWINGS AND REVISE AS NECESSARY.
11. PRE-ENGINEERED COLUMN BASES SHALL BE DESIGNED AS PINNED ONLY.
12. LOCATIONS OF PORTAL FRAMES HAVE BEEN SHOWN IN PLAN AND SHALL NOT BE MODIFIED UNLESS APPROVED BY THE CONTRACTING OFFICER.
13. PORTAL FRAME COLUMNS ARE TO BE ATTACHED TO MAIN RIGID FRAME COLUMNS AT BASE AND DO NOT REQUIRE ADDITIONAL PIERS.
14. ALL PIERS FOR PRE-ENGINEERED BUILDING COLUMNS SHALL HAVE HAIR-PIN TIES AS INDICATED IN THE DETAILS.
15. ANCHOR BOLTS FOR PRE-ENGINEERED BUILDING COLUMNS/PORTAL FRAMES SHALL BE (4)-20 DIA A36M ANCHOR BOLTS (MIN) WITH 300 EMBED MIN INTO PIER/GRADE BEAM.
16. TOP OF PIER ELEVATION SET AT -100. COORDINATE BOTTOM/BASE PLATE AND GROUT REQUIREMENTS WITH PRE-ENGINEERED BUILDING MANUFACTURER.



DETAIL
SCALE: 1:50

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

0 1000 2000 4000

SCALE: 1: 50

0 2000 4000 8000

SCALE: 1: 100



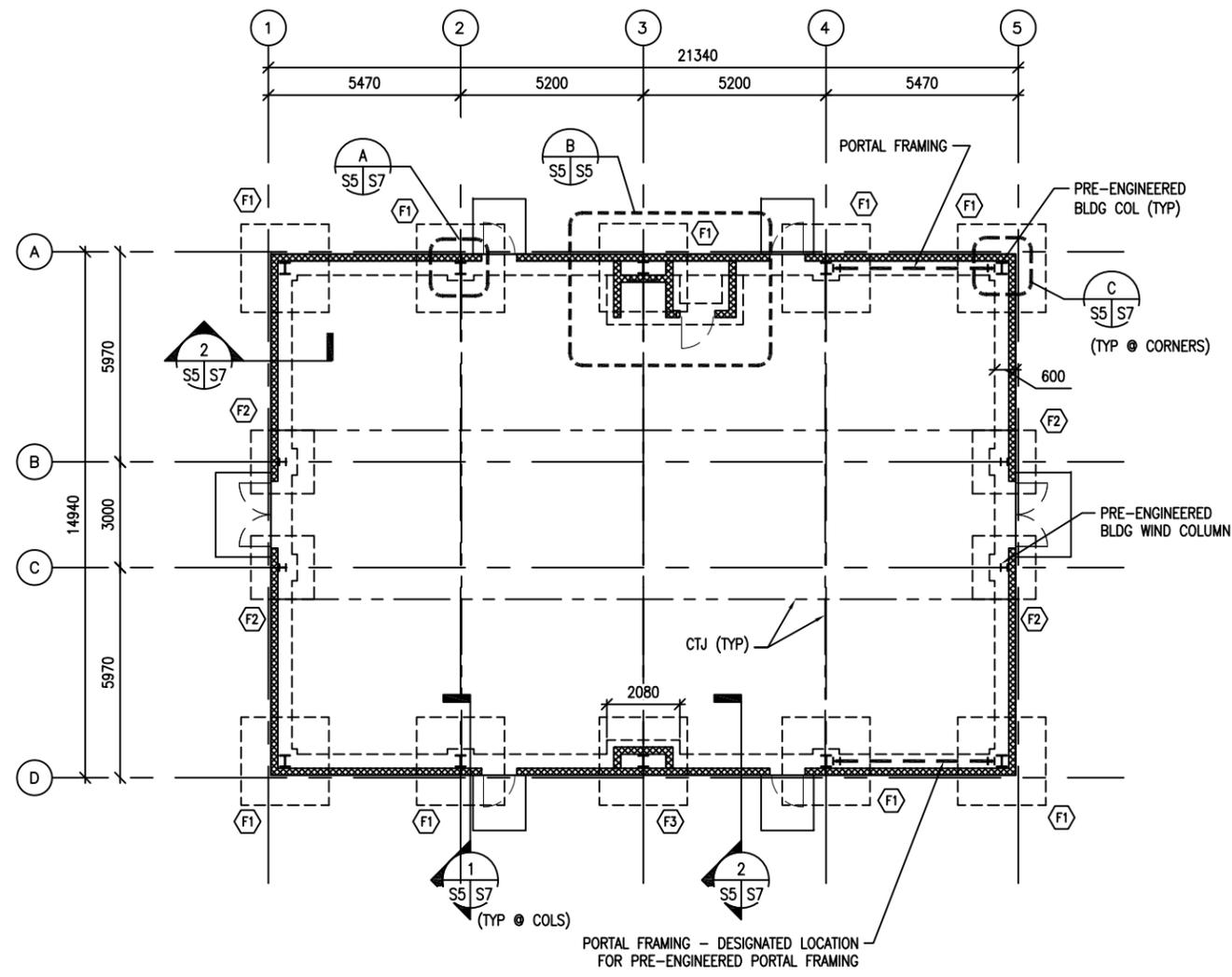
DATE	DESCRIPTION	SYMBOL

DESIGNED BY: WJW	DATE: 09-30-09
DWN BY: RCG	SUBMITTED BY: BAKER
CHK BY: CWV	FILE NO.: ANPSDS-105XXX

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Moon Township PA 15108
www.mbakercorp.com

STANDARD DESIGN
TRAINING BUILDING
WOOD FIRED HEAT OPTION
FOUNDATION/SLAB PLAN

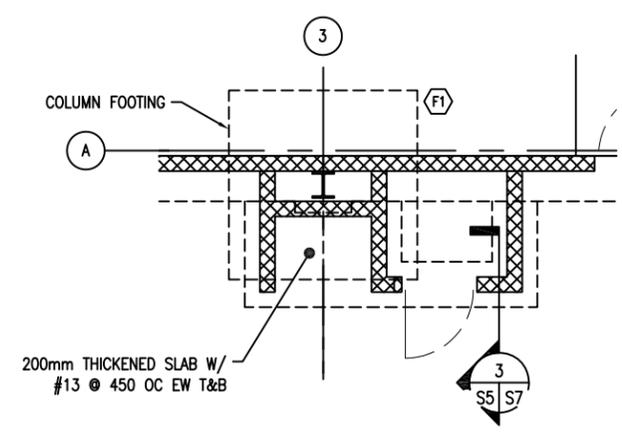
SHEET REFERENCE NUMBER:
S5



FOUNDATION PLAN
SCALE: 1:100

PLAN NOTES:

1. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.0). ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
2. TOP OF FOOTINGS SHALL BE -500 UNLESS OTHERWISE INDICATED.
3. UNLESS OTHERWISE INDICATED, FLOORS SHALL BE 150 THICK CONCRETE SLAB-ON-GRADE W/ #13 REBAR @ 450 OC EW (38 CLR TOP) OVER 100 COMPACTED CAPILLARY WATER BARRIER (#57 STONE).
4. SPREAD FOOTINGS INDICATED THUS (XXXX) ON PLAN. REFER TO SPREAD FOOTING SCHEDULE ON SHEET S3.
5. REFER TO SHEETS S1 TO S3 FOR STRUCTURAL NOTES, BASIS OF DESIGN, SYMBOLS, & ABBREVIATIONS.
6. CTJ & CSJ INDICATES SLAB CONTROL OR CONSTRUCTION JOINTS RESPECTIVELY. REFER TO SHEET S9 FOR DETAILS.
7. REFER TO ARCHITECTURAL SHEETS FOR MASONRY PARTITION TYPES.
8. ALL CMU TO BE FULLY GROUTED UNLESS OTHERWISE NOTED. SEE CMU WALL REINFORCING SCHEDULE ON SHEET S4.
9. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S9 FOR DETAILS.
10. PRIOR TO CONSTRUCTION OF FOUNDATIONS, THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL FOOTINGS, PIERS, AND TURN DOWN SLAB EDGES WITH THE PRE-ENGINEERED BUILDING DRAWINGS AND REVISE AS NECESSARY.
11. PRE-ENGINEERED COLUMN BASES SHALL BE DESIGNED AS PINNED ONLY.
12. LOCATIONS OF PORTAL FRAMES HAVE BEEN SHOWN IN PLAN AND SHALL NOT BE MODIFIED UNLESS APPROVED BY THE CONTRACTING OFFICER.
13. PORTAL FRAME COLUMNS ARE TO BE ATTACHED TO MAIN RIGID FRAME COLUMNS AT BASE AND DO NOT REQUIRE ADDITIONAL PIERS.
14. ALL PIERS FOR PRE-ENGINEERED BUILDING COLUMNS SHALL HAVE HAIR-PIN TIES AS INDICATED IN THE DETAILS.
15. ANCHOR BOLTS FOR PRE-ENGINEERED BUILDING COLUMNS/PORTAL FRAMES SHALL BE (4)-20 DIA A36M ANCHOR BOLTS (MIN) WITH 300 EMBED MIN INTO PIER/GRADE BEAM.
16. TOP OF PIER ELEVATION SET AT -100. COORDINATE BOTTOM/BASE PLATE AND GROUT REQUIREMENTS WITH PRE-ENGINEERED BUILDING MANUFACTURER.



DETAIL
SCALE: 1:50

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

0 1000 2000 4000

SCALE: 1: 50

0 2000 4000 8000

SCALE: 1: 100



DATE	DESCRIPTION	SYMBOL

DESIGNED BY: WJW	DATE: 09-30-09
DWN BY: RCG	SUBMITTED BY: BAKER
CHK BY: CWV	FILE NO.: ANPSDS-105XXX

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www.mbakercorp.com

STANDARD DESIGN
TRAINING BUILDING
WOOD FIRED HEAT OPTION
FOUNDATION/SLAB PLAN

SHEET REFERENCE NUMBER:
S5

DATE	DESCRIPTION
APR	

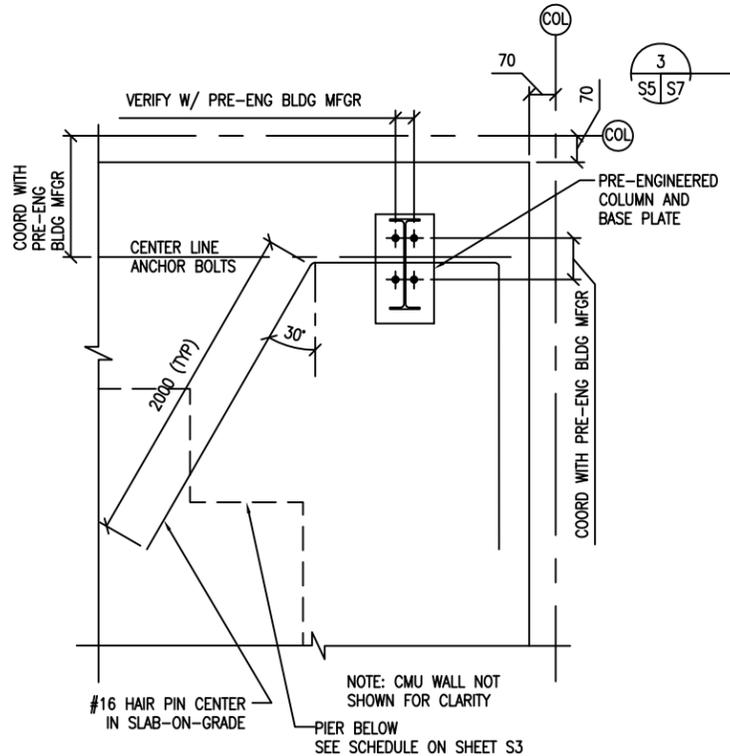
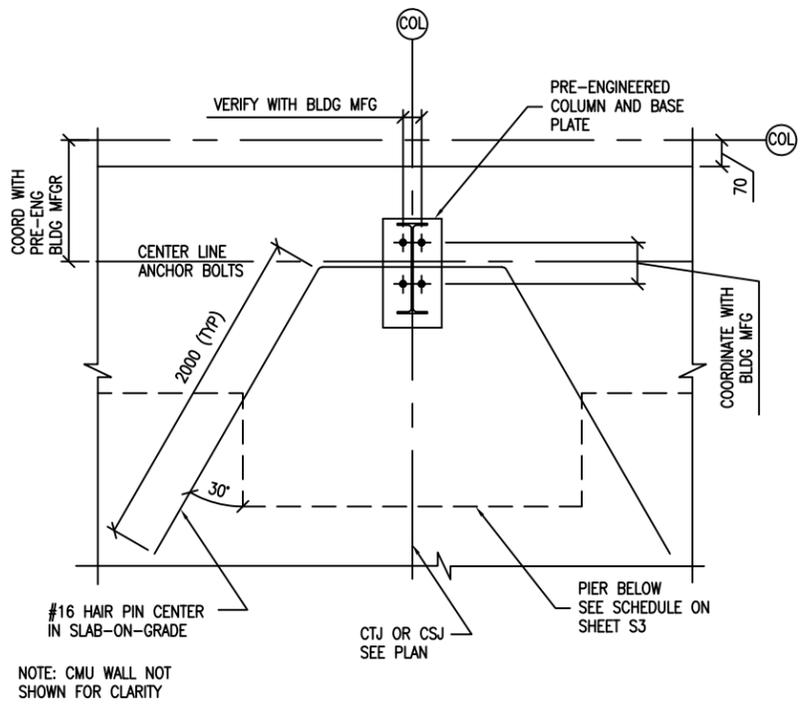
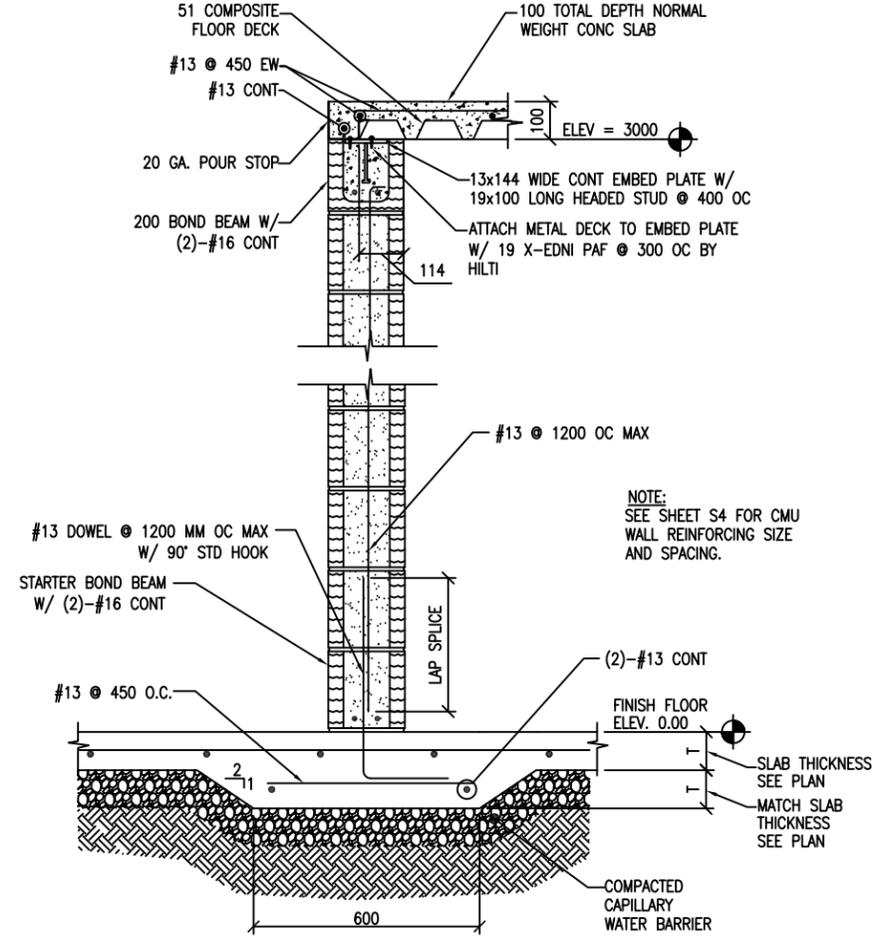
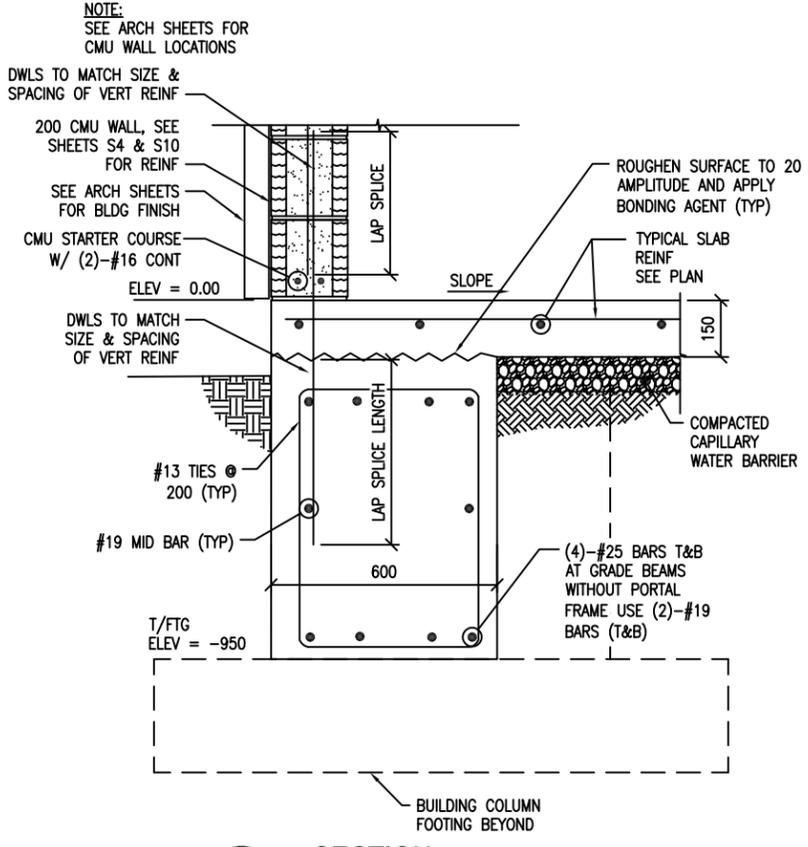
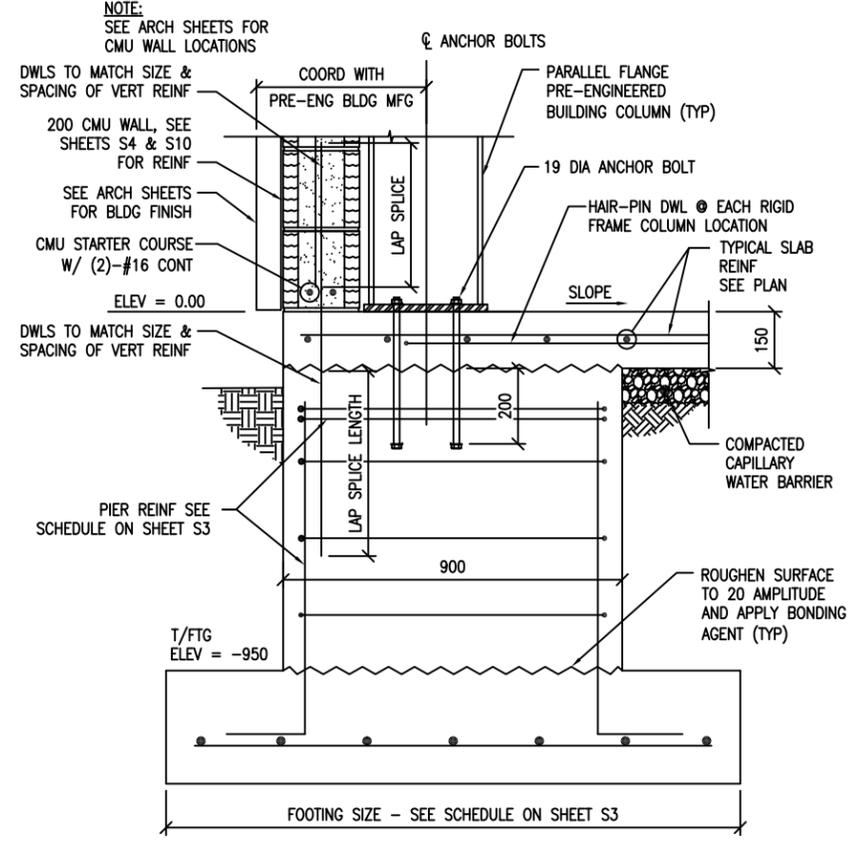
DESIGNED BY:	DATE:	09-30-09
WJW	SUBMITTED BY:	BAKER
DWN BY:	RCG	
CHK BY:	CWW	FILE NO.:
		ANPSDS-307XXX

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

SCALE: 1: 10

