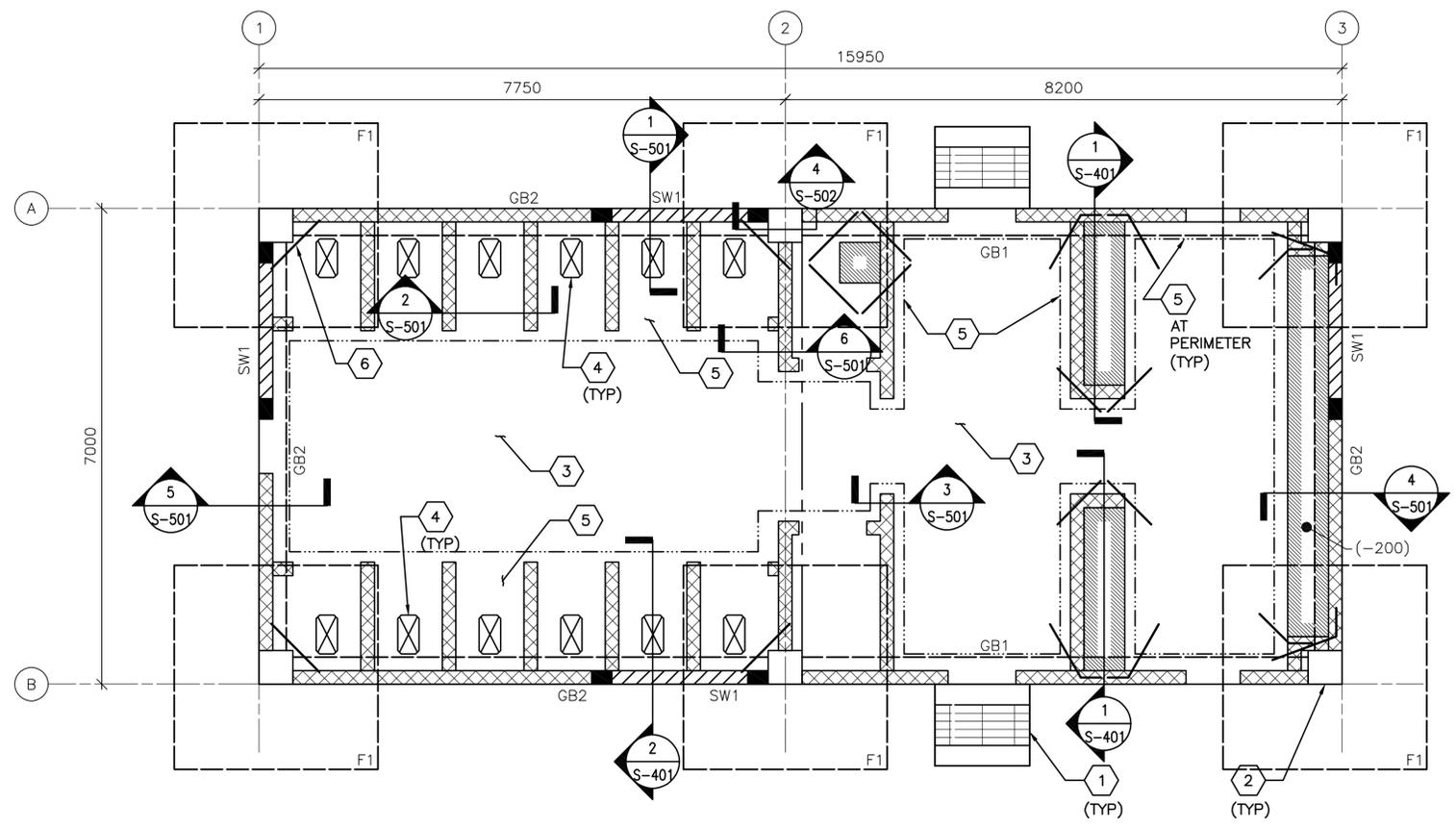








US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT



1 FOUNDATION/SLAB PLAN  
SCALE: 1:50

FOUNDATION/SLAB PLAN NOTES:

- 1. REFER TO SHEET S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
2. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.00) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
3. SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB UON. WHERE NOTED, 300 SLAB ON GRADE SHALL BE REINF W/ #13 @ 300 OC EW T&B. DEPRESS ALL SLABS 65 EXCEPT WHERE INDICATED. TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
4. COLUMN FOOTINGS INDICATED BY F# ON PLAN, REFER TO COLUMN FOOTING SCHEDULE ON SHEET S-601.
5. REFER TO COLUMN SCHEDULE ON SHEET S-601.
6. GRADE BEAM INDICATED BY GB# ON PLAN, REFER TO BEAM SCHEDULE ON SHEET S-601.
7. SHEARWALL INDICATED BY SW# ON PLAN, REFER TO SHEARWALL SCHEDULE ON SHEET S-601.
8. SEE TYP EXTERIOR AND INTERIOR CMU WALL REINF DETAILS ON SHEET S-701.
9. SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S-701 FOR DETAILS.

FOUNDATION/SLAB PLAN KEY NOTES: (X)

- 1. CONC PAD (ENTRANCE)-SEE ARCH DWGS FOR INFORMATION
2. REINF CONC COLUMN
3. REINF CONC SLAB-ON-GRADE
4. SLAB OPENING - COORDINATE W/ ARCH AND PLUMBING DWGS
5. 300 SLAB-ON-GRADE
6. (2)-#13 @ RE-ENTRANT CORNERS - SEE S-701 FOR INFORMATION

FOUNDATION/SLAB PLAN LEGEND:

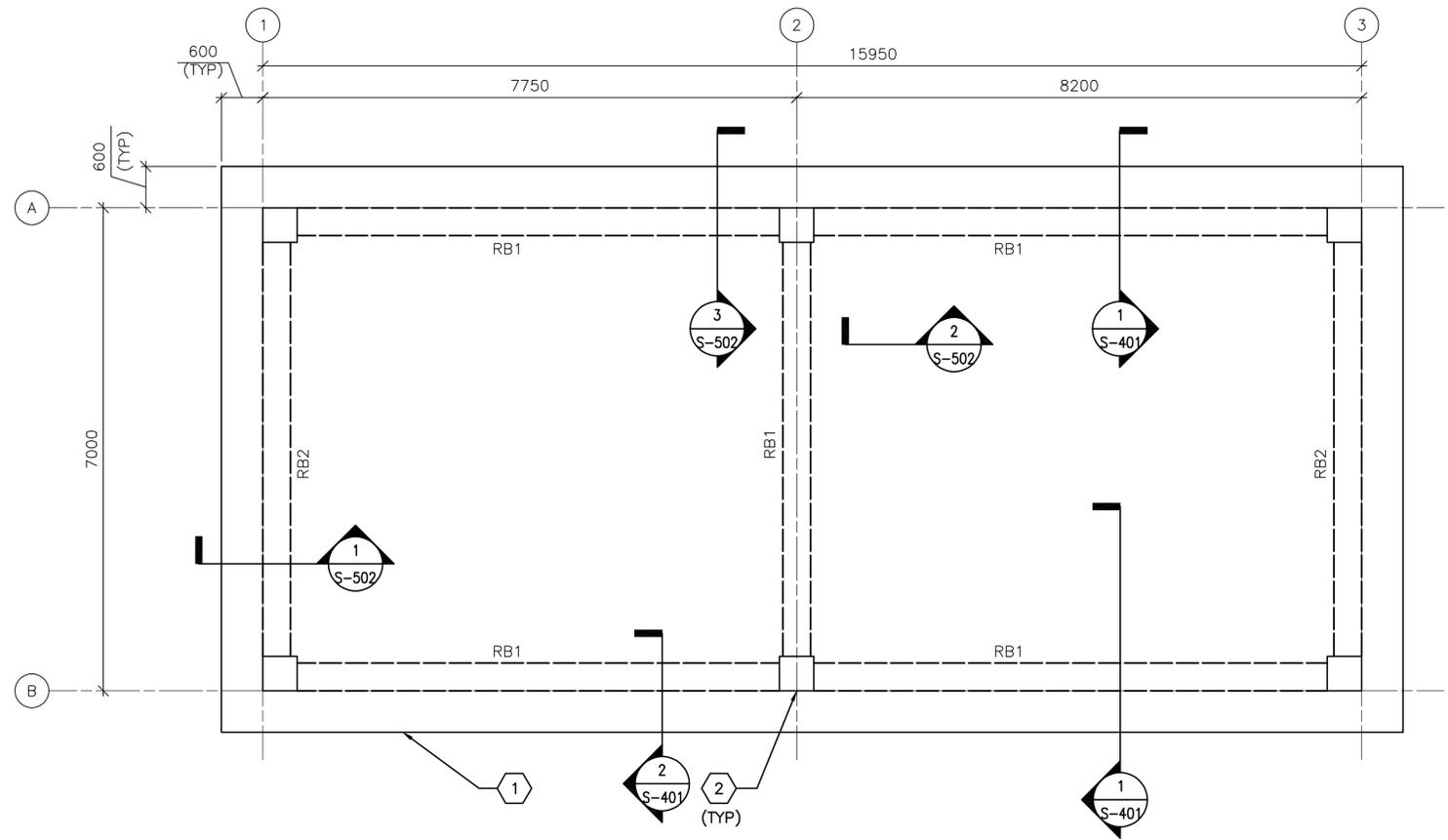
- REINF CONC SHEAR WALL
REINF CMU WALL
CONTROL JOINT
INDICATES DROP SLAB 200 BELOW FINISH FLOOR
TRANSITION BETWEEN 150 AND 300 THICK SLAB AREAS
SLAB OPENING. SEE SHEET S-701 FOR ADDITIONAL SLAB REINF AT OPENING

ROOF FRAMING PLAN NOTES:

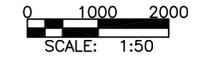
- 1. REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
2. TOP OF SLAB ELEVATION = 3500 UNLESS NOTED OTHERWISE.
3. ROOF SLAB IS 250 WITH #19 @ 300 OC EW T&B.
4. ROOF BEAM INDICATED BY RB# ON PLAN. REFER TO BEAM SCHEDULE ON SHEET S-601.
5. COORDINATE WITH ARCHITECTURAL SHEETS FOR COLD-FORMED STEEL OVERBUILT FRAMING ABOVE ROOF SLAB.
6. COLD-FORMED METAL OVERBUILD ROOF FRAMING NOT SHOWN FOR CLARITY. SEE OVERBUILD ROOF FRAMING DETAILS AND SECTIONS ON SHEET S-702.
7. CMU PARTITION WALLS (BELOW ROOF SLAB) NOT SHOWN FOR CLARITY.
8. OVERHANG AREAS OF ROOF SLAB CONTAIN ROOF VENT PENETRATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR INFORMATION.

ROOF FRAMING PLAN KEY NOTES: (X)

- 1. CONC ROOF SLAB (BELOW ROOF OVERBUILD)
2. REINF CONC COLUMN (BELOW CONC ROOF SLAB)



2 ROOF FRAMING PLAN  
SCALE: 1:50



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

APPROVED: [Signature]
A/E DESIGNER OF RECORD

SEAL:



Revision table with columns for Date, Description, Mark, and Date.

Project information table including Date (2/23/10), Design file no., Drawing code, File name, and Plot date.

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN
LATRINE BUILDING SMALL FOUNDATION/SLAB & ROOF FRAMING PLANS

Sheet reference number: S-101



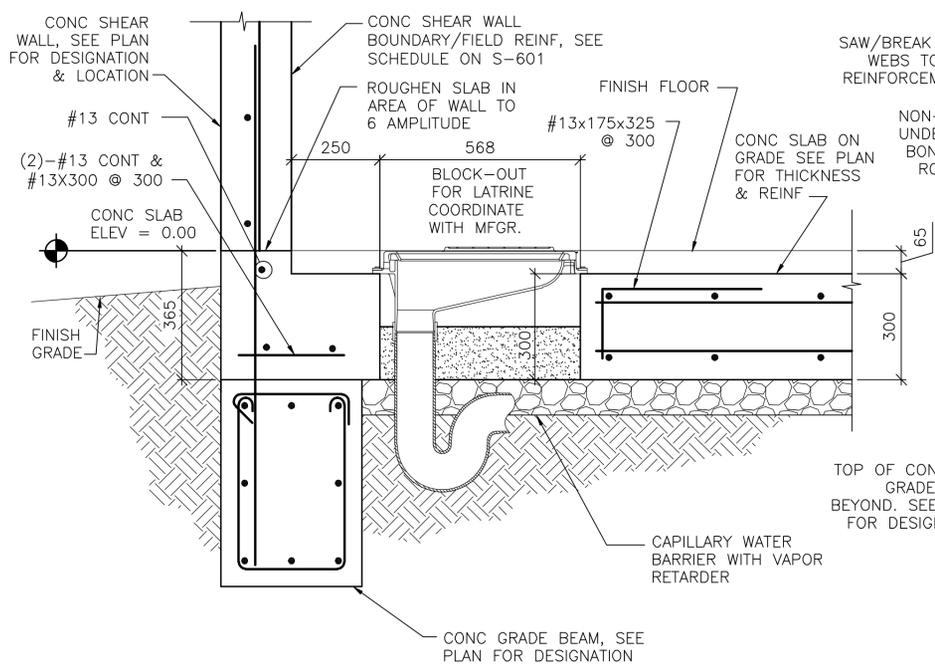
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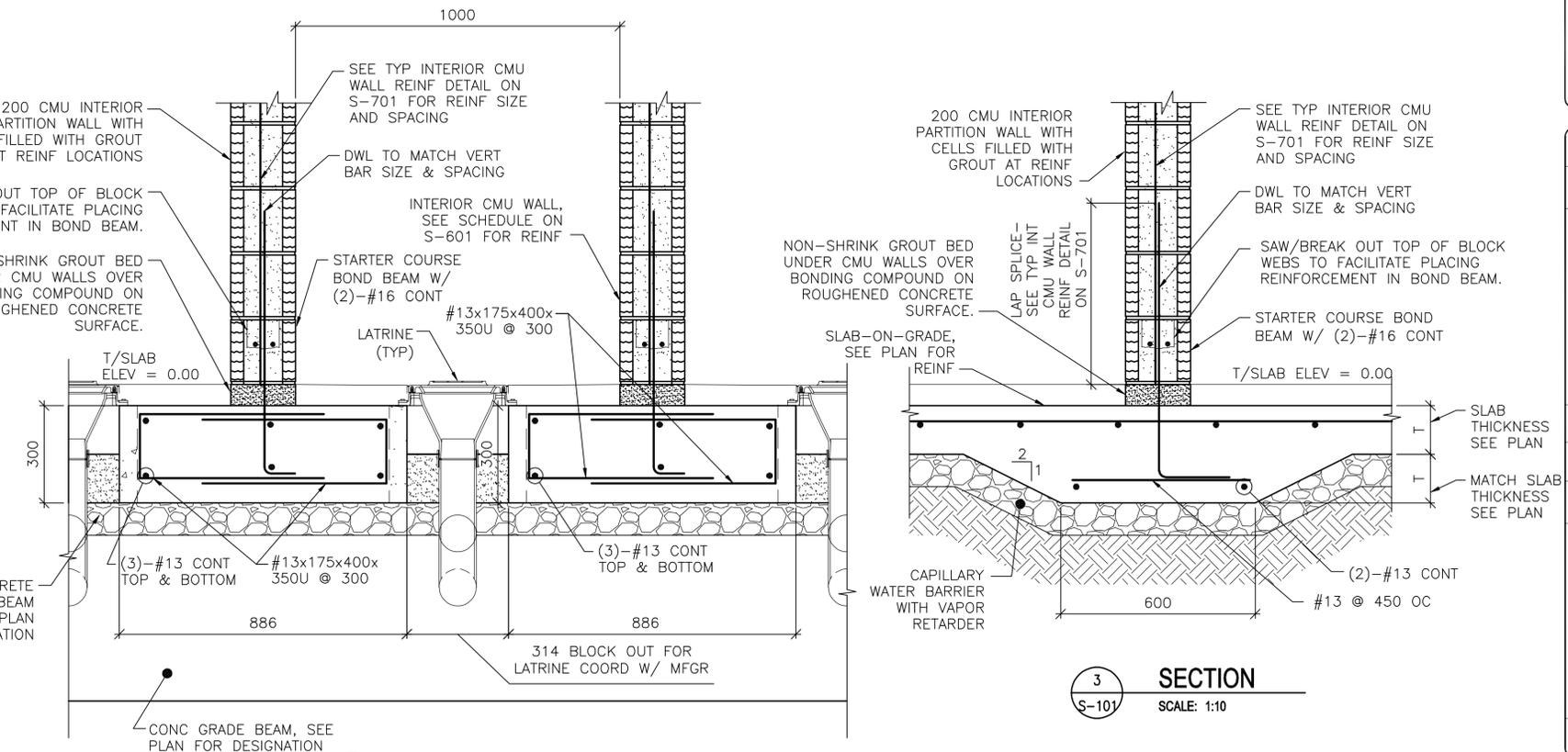
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4

5

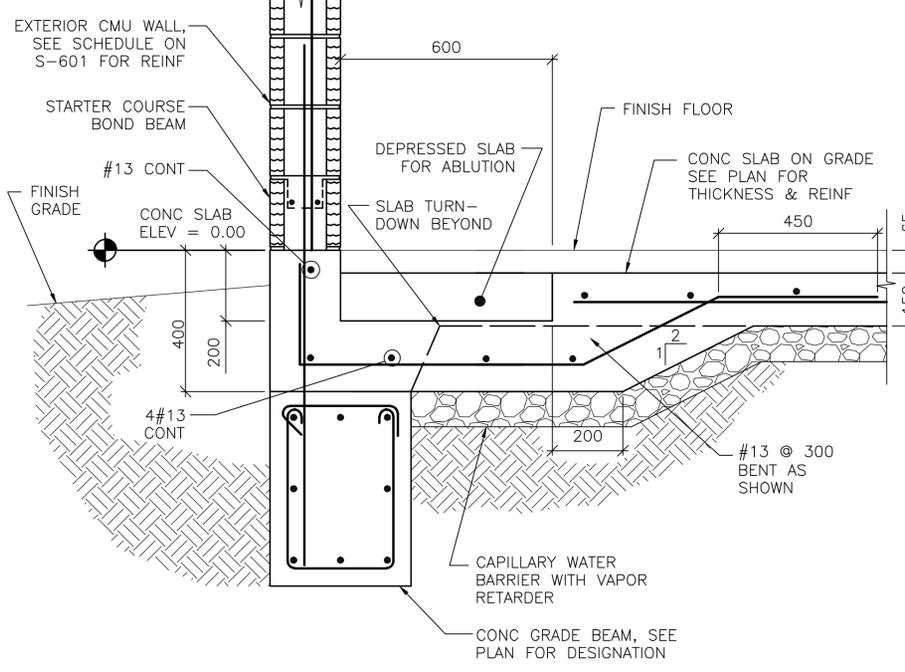


**1 SECTION**  
S-101 SCALE: 1:10

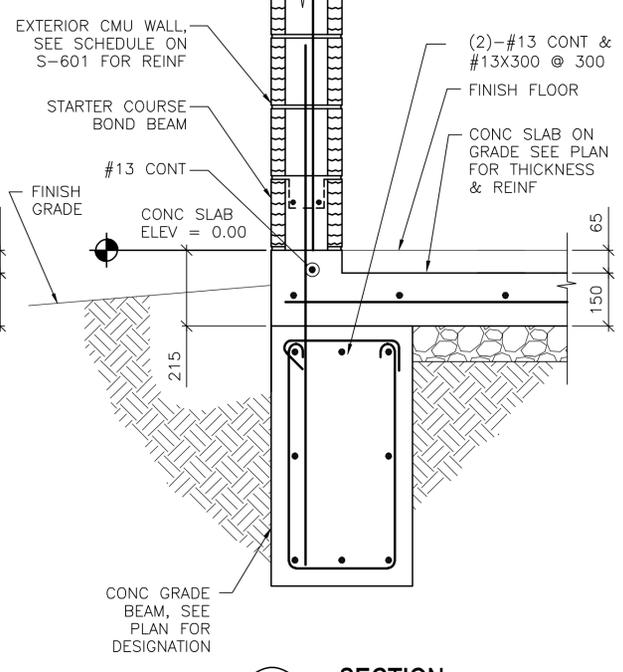


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S-101 SCALE: 1:10

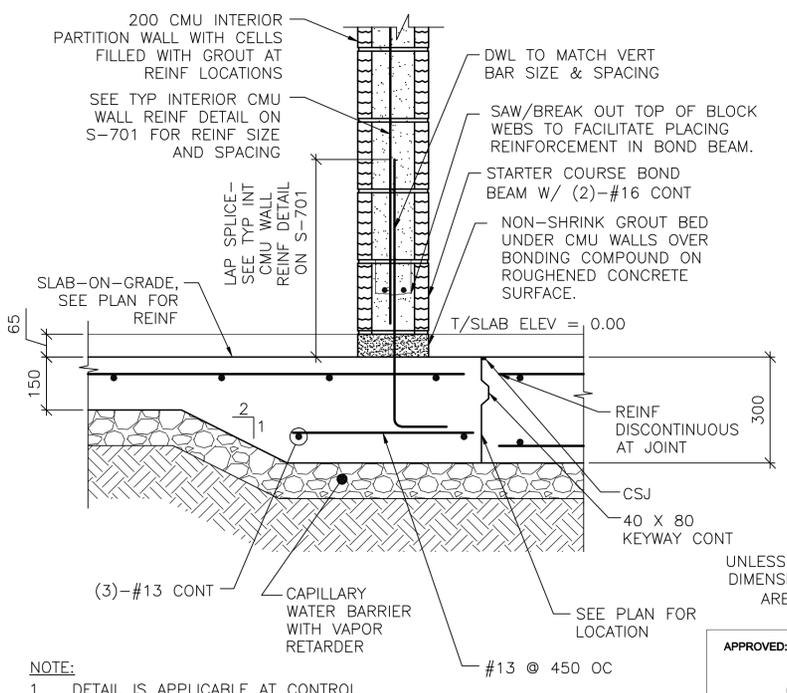
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S-101 SCALE: 1:10



**4 SECTION**  
S-101 SCALE: 1:10

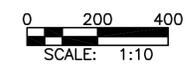


**5 SECTION**  
S-101 SCALE: 1:10



**6 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.



APPROVED:  
*Chui Minto*  
A/E DESIGNER OF RECORD  
SEAL:



Rev.	Date	Description	Appr.	Date
0	2/23/10	Design file no.		
		Design code:		
		File name: ANLATSS-018C		
		Plot date: 2/22/10		
		Plot scale: k:k		

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

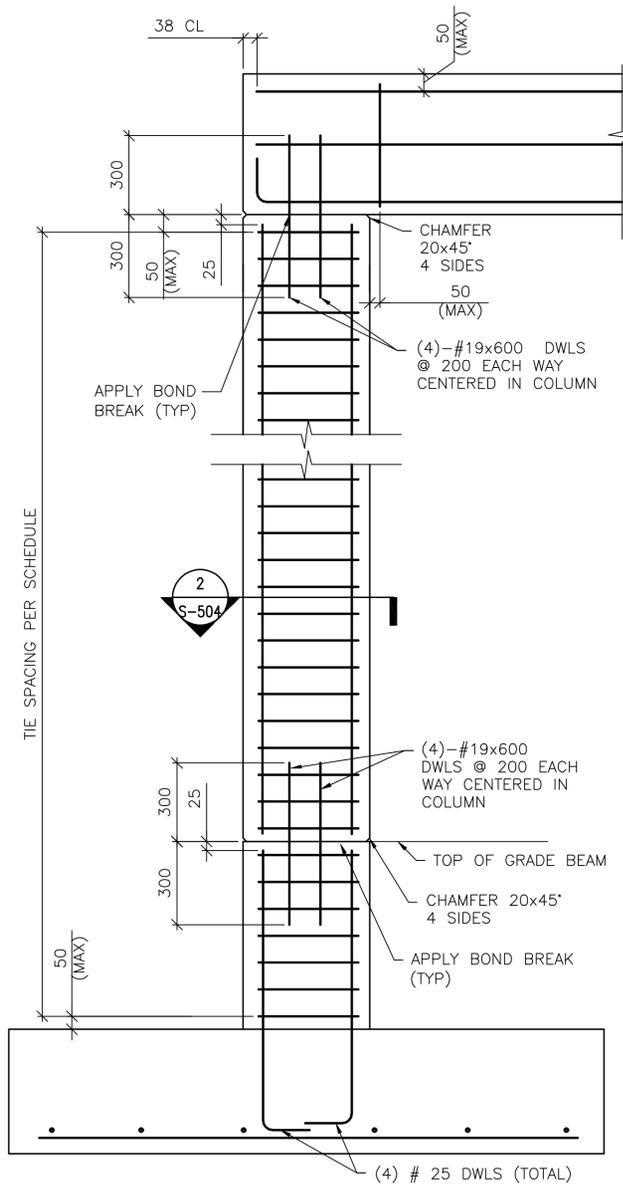
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338  
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A Unit of Michael Baker Corporation  
Arlside Business Park  
100 Arlside Drive, PA, 15108  
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REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
LATRINE BUILDING  
SMALL  
FOUNDATION SECTIONS

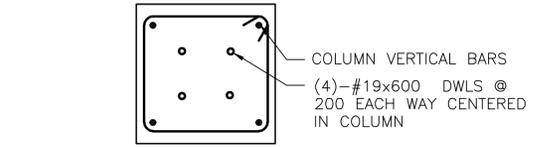
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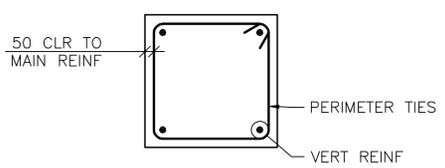




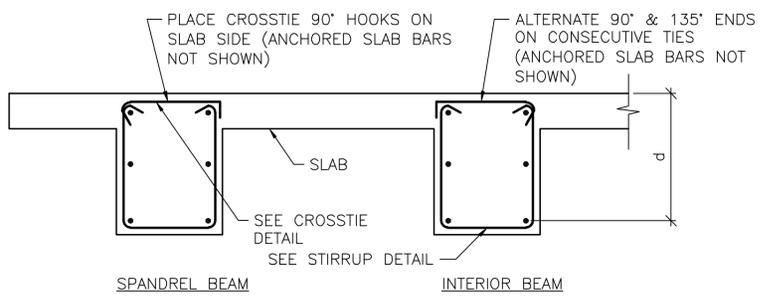
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S-504  
**1-STORY COLUMN REINF DETAILS**  
SCALE: NTS  
(WITH GRADE BEAM)



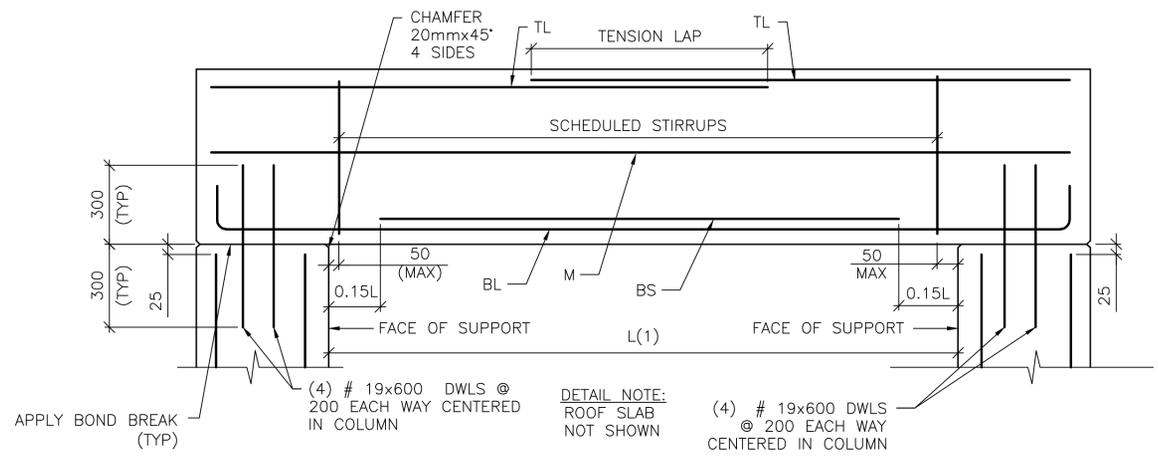
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S-503 S-504  
**SECTION**  
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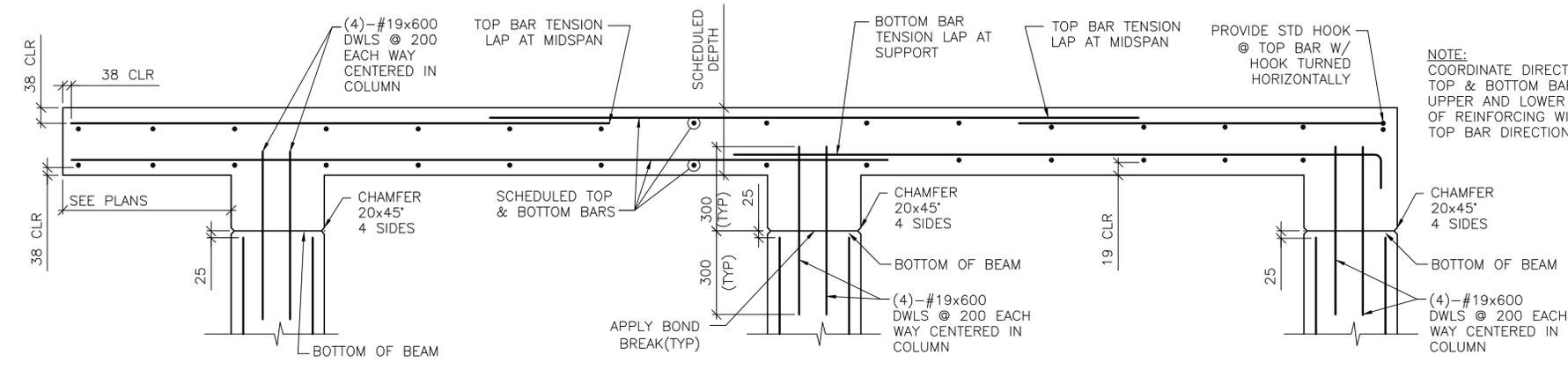
**A**  
S-504  
**4 BAR COLUMN**  
SCALE: NTS



**B**  
S-504  
**BEAM REINFORCEMENT DETAILS**  
SCALE: NTS



**3**  
S-504  
**SINGLE SPAN ROOF BEAM REINFORCING DETAIL**  
SCALE: NTS



**4**  
S-504  
**FRAMED SLAB REINFORCING DETAIL**  
SCALE: NTS

NOTE:  
COORDINATE DIRECTION OF  
TOP & BOTTOM BARS IN  
UPPER AND LOWER MATS  
OF REINFORCING WITH BEAM  
TOP BAR DIRECTIONS

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

APPROVED:  
*Chris Minto*  
A/E DESIGNER OF RECORD  
SEAL:



Rev.	Date	Description
0	2/23/10	Design file no.
		Drawing code:
		File name: ANA14155-940T
		Plot date: 2/23/2010
		Plot scale: xx

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

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN  
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REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

LATRINE BUILDING  
SMALL

BEAM & COLUMN DETAILS

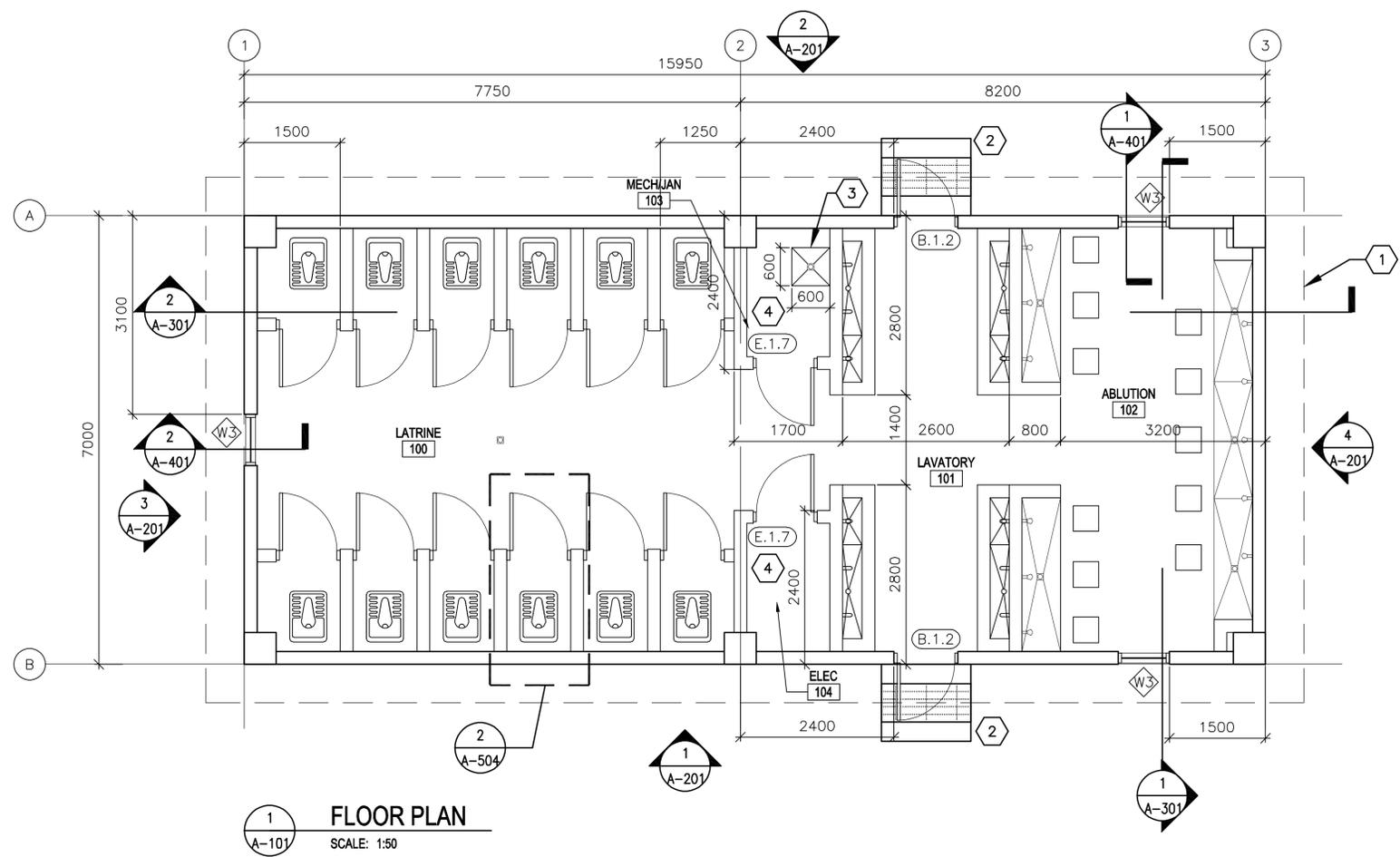
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number:  
**S-504**











**1**  
A-101  
**FLOOR PLAN**  
SCALE: 1:50

**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 HINGED SIDE OF DOOR FRAME OPENINGS.
- B. 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 OR PLASTERED 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 OR TILING. 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 CERAMIC TILE TO 2000 MM WITH PAINTED PLASTER APPLIED TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
- M. ALL FLOOR FINISHES SHALL BE TERRAZZO TILE.
- N. PROVIDE TILE FINISHES AS INDICATED IN DETAILS.
- O. ALL TOILET STALL DOORS, FRAMES & HARDWARE TYPE SHALL BE F.2.12
- P. HEIGHT OF ALL TOILET PARTITIONS SHALL BE 2000 MM ABOVE FINISHED FLOOR.
- Q. PROVIDE POLISHED STAINLESS STEEL MIRROR 600 X 900 ABOVE EVERY LAVATORY FAUCET.

**KEY NOTES:**

- 1. LINE OF ROOF OVERHANG ABOVE.
- 2. CONCRETE STOOP WITH GRATE - SEE DETAIL 1/A-503.
- 3. RECESSED TROUGH - SEE DETAIL 7/A-504.
- 4. WALL FINISH: PAINTED PLASTER APPLIED TO STRUCTURE.

**LEGEND:**

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

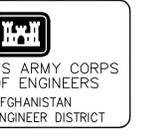
**ABBREVIATIONS:**

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

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

SEAL:  
STATE OF SOUTH CAROLINA  
KEVIN R. CHAFIN  
N. Charleston, SC  
6374  
REGISTERED ARCHITECT

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED  
0 1000 2000  
SCALE: 1:50



Rev.	Date	Description

Designed by:	KRC	Cad by:	NLJ
Dwn by:	EBB	Reviewed by:	LHM
Submitted by:	BAKER	File name:	ANALATA-101FP
Date:	2/23/10	Plot date:	2/23/2010
Design file no.:		Plot scale:	x:1

AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
LATRINE BUILDING  
SMALL  
FLOOR PLAN

Sheet reference number:  
**A-101**

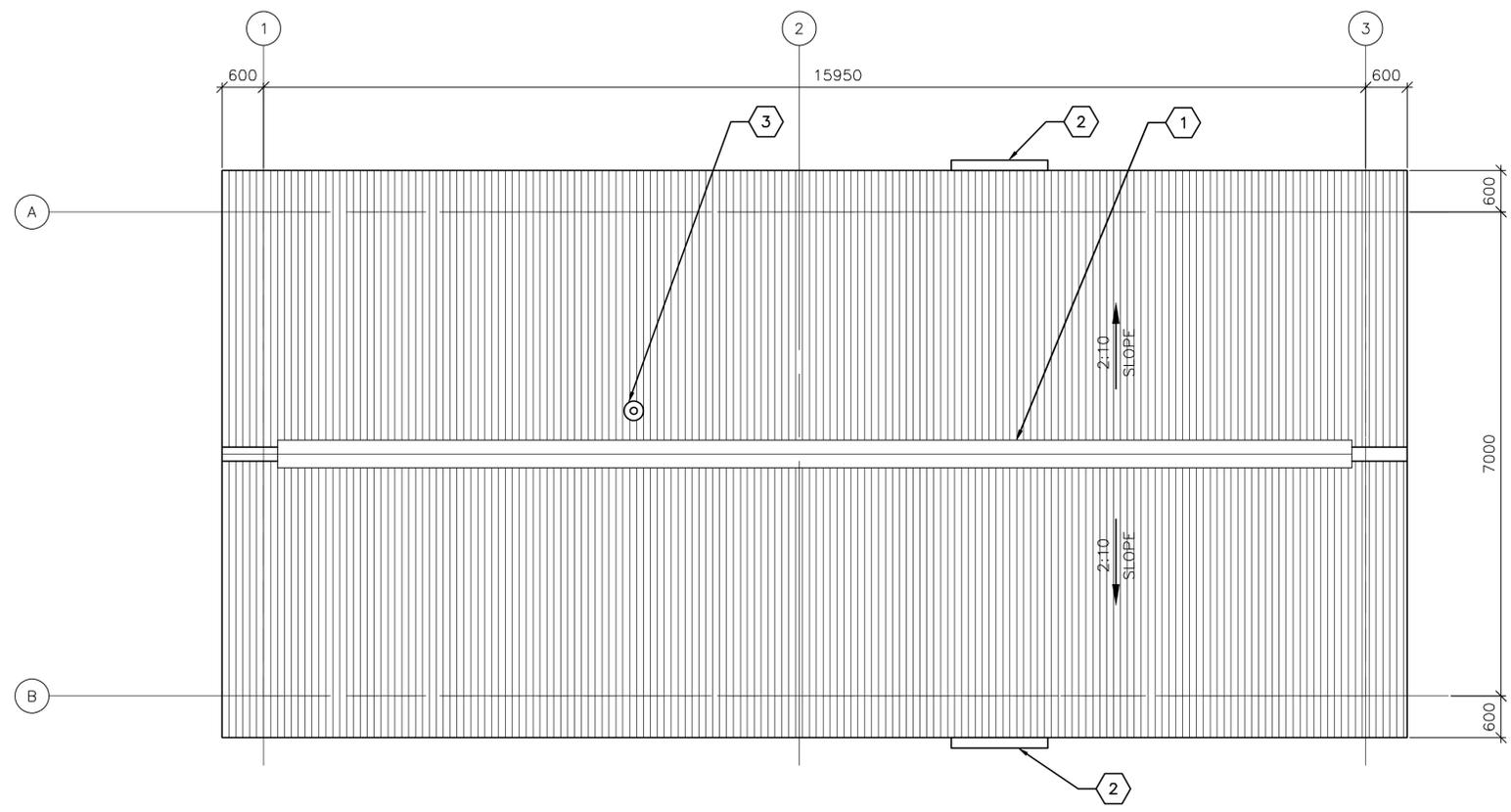
1

2

3

4

5



1  
A-102  
**ROOF PLAN**  
SCALE: 1:50

**GENERAL NOTES:**

- A. THE APPROXIMATE LOCATION OF ROOF DEVICES AND PENETRATIONS ARE SHOWN ON THE ROOF PLAN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE ACTUAL LOCATION OF THESE AND ALL OTHER ITEMS PRIOR TO BEGINNING CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL AND PLUMBING WORK.
- B. PLUMBING VENT PENETRATIONS SHALL TERMINATE 300 MM MINIMUM ABOVE THE ROOF.
- C. UNLESS OTHERWISE NOTED, NOTES, DETAILS OR FEATURES INDICATED FOR ONE CONDITION SHALL BE APPLICABLE FOR ALL ALIKE AND SIMILAR CONDITIONS.
- D. STOCKPILING OF MATERIALS, EQUIPMENT AND ANY OTHER ITEMS ON THE ROOF IS PROHIBITED.
- E. ROOFS SHALL BE CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING ON CONCRETE SLAB.



Rev.	Date	Description	Mark	Appr.
0	2/23/10			

**KEY NOTES:**

- 1. CONTINUOUS METAL RIDGE VENT SEE DETAIL 4/A-501.
- 2. METAL GUTTER, CENTER ON DOOR, 1400 MM - SEE DETAIL 1A/A-501.
- 3. PLUMBING VENT - SEE DETAIL 5/A-501.

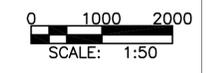
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Dwn by: EBB	Reviewed by: LHM	Design file no.:	Drawing code: ANALATS-A102RP
Submitted by: BAKER	File name: ANALATS-A102RP	Plot date: 2/23/2010	Plot scale: x:1

AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
LATRINE BUILDING  
SMALL  
ROOF PLAN

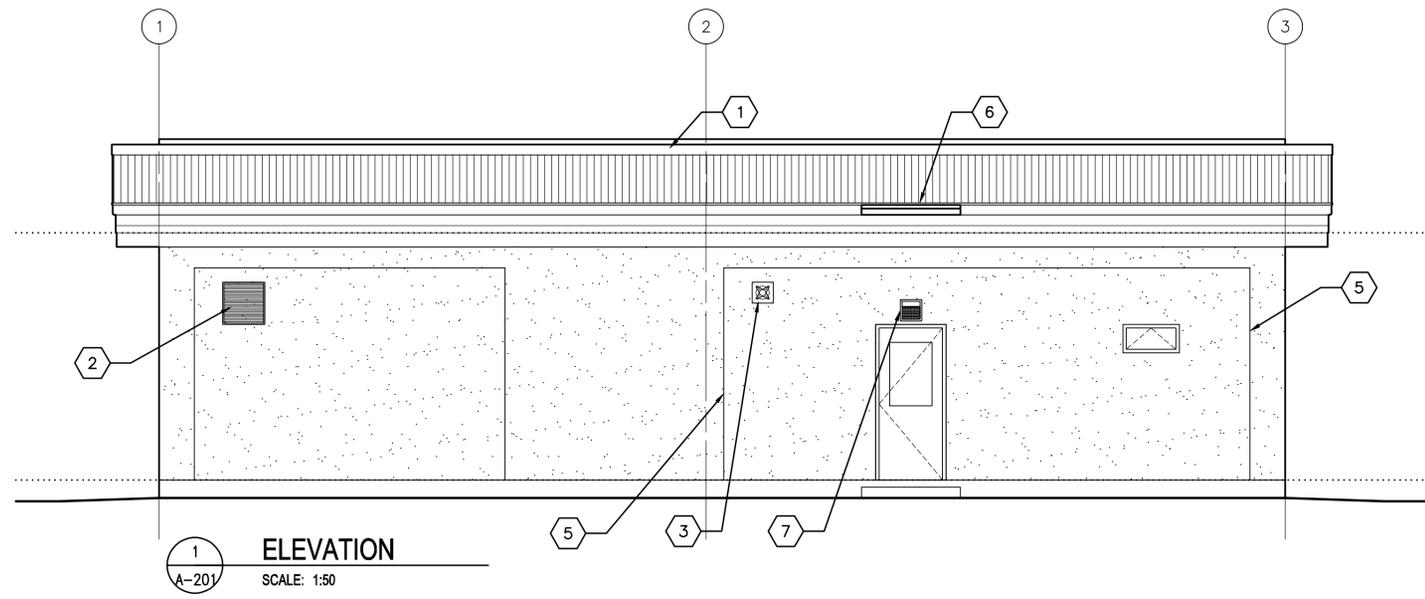
APPROVED:  
*K. R. Chafin*  
A/E DESIGNER OF RECORD



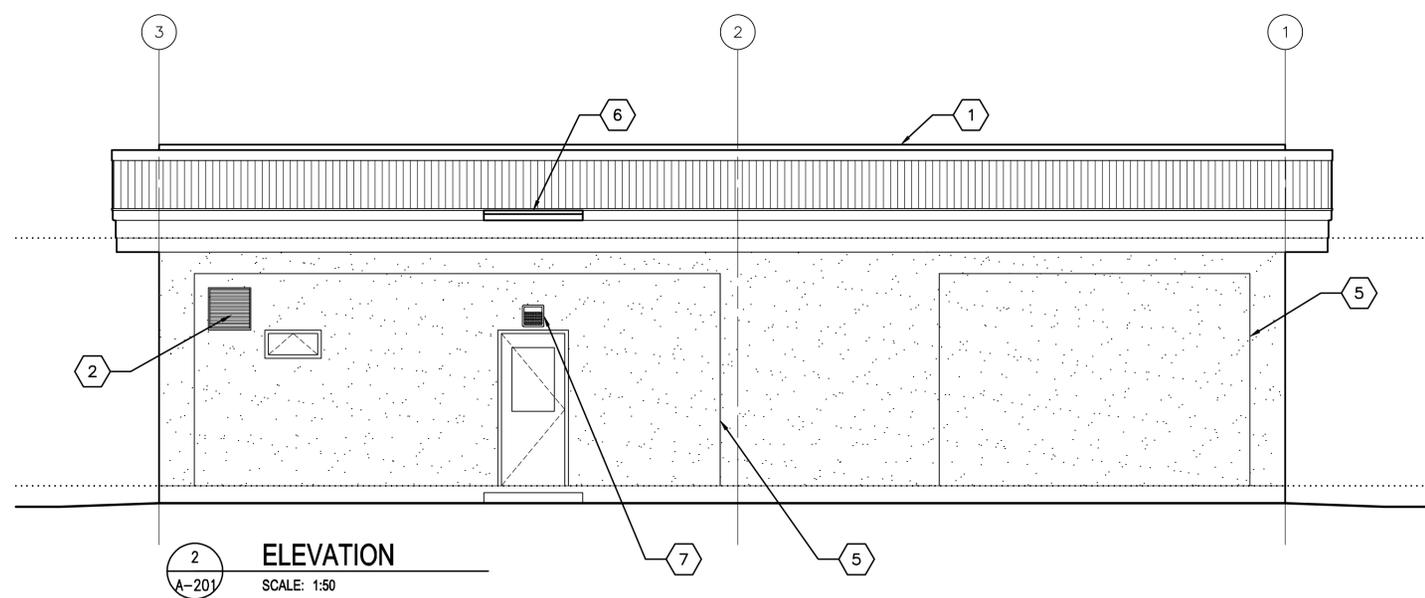
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED



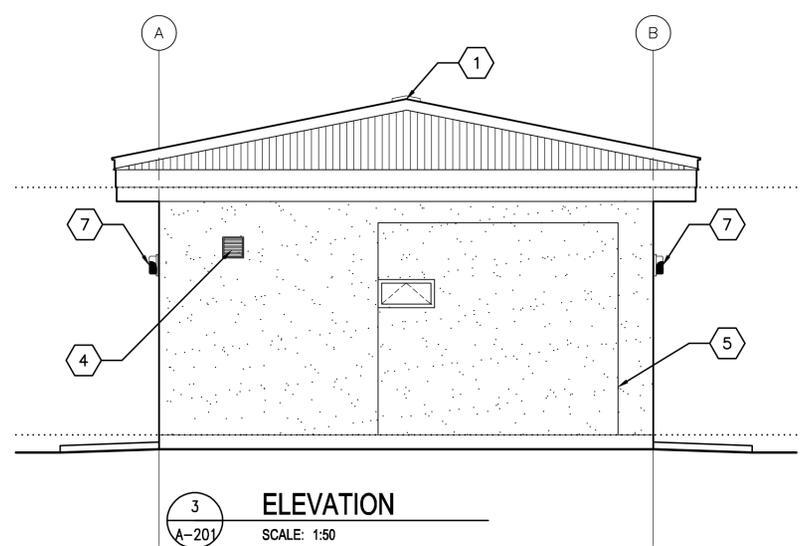
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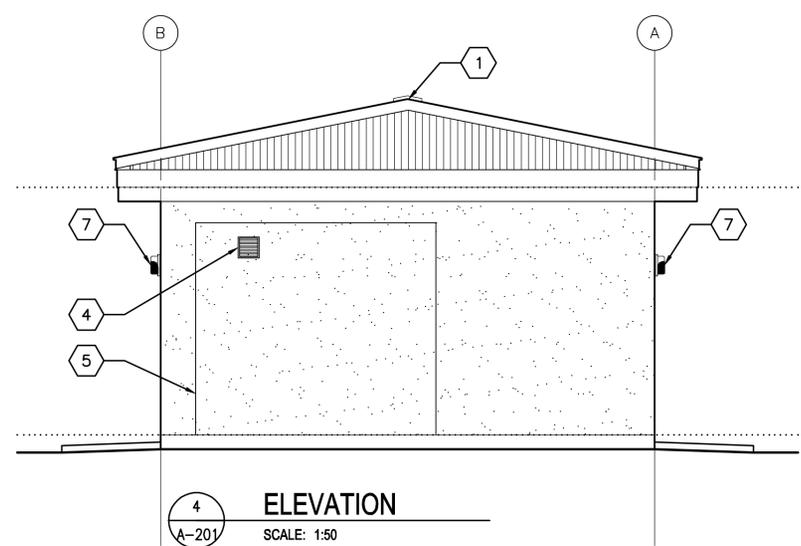
**1**  
ELEVATION  
A-201 SCALE: 1:50



**2**  
ELEVATION  
A-201 SCALE: 1:50



**3**  
ELEVATION  
A-201 SCALE: 1:50



**4**  
ELEVATION  
A-201 SCALE: 1:50

**GENERAL NOTES:**

- A. COORDINATE SIZE AND LOCATION OF OPENINGS FOR MECHANICAL ITEMS WITH MECHANICAL DRAWINGS.
- B. PROVIDE STRUCTURAL LINTELS AS REQUIRED - SEE STRUCTURAL DRAWINGS
- C. ALL EXTERIOR WALL FINISHES SHALL BE STUCCO OVER CMU AND CONCRETE SUBSTRATES. PROVIDE CONTROL JOINTS IN STUCCO WALL FINISH AS NOTED.
- D. ROOF SHALL BE CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING ON CONCRETE SLAB.



Date	Rev.	Appr.	Mark	Description
	0			

**KEY NOTES:**

- 1. CONTINUOUS METAL RIDGE VENT - SEE DETAIL 4/A-501.
- 2. LOUVER, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 3. EXHAUST FAN, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 4. WALL GRILL, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 5. STUCCO CONTROL JOINT - SEE DETAIL 2A/A-501.
- 6. METAL GUTTER, CENTER ON DOOR, 1400 MM - SEE DETAIL 1A/A501.
- 7. EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL.

Designed by: KRC	Checked by: NLJ	Date: 2/23/10	Rev: 0
Dwn by: EBB	Reviewed by: LHM	Design file no.:	Design code:
Submitted by: BAKER		File name: ANALATS-001REV	Plot date: 2/23/2010
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN CORPS OF ENGINEERS APO AE 96338		Michael Baker, Inc. A unit of Michael Baker Corporation 100 Ardsley Drive, PA, 15108 www.mbakercorp.com	Plot scale: 1:50

APPROVED:  
*K. R. Chafin*  
A/E DESIGNER OF RECORD



AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
LATRINE BUILDING  
SMALL  
ELEVATIONS

Sheet reference number:  
**A-201**



1

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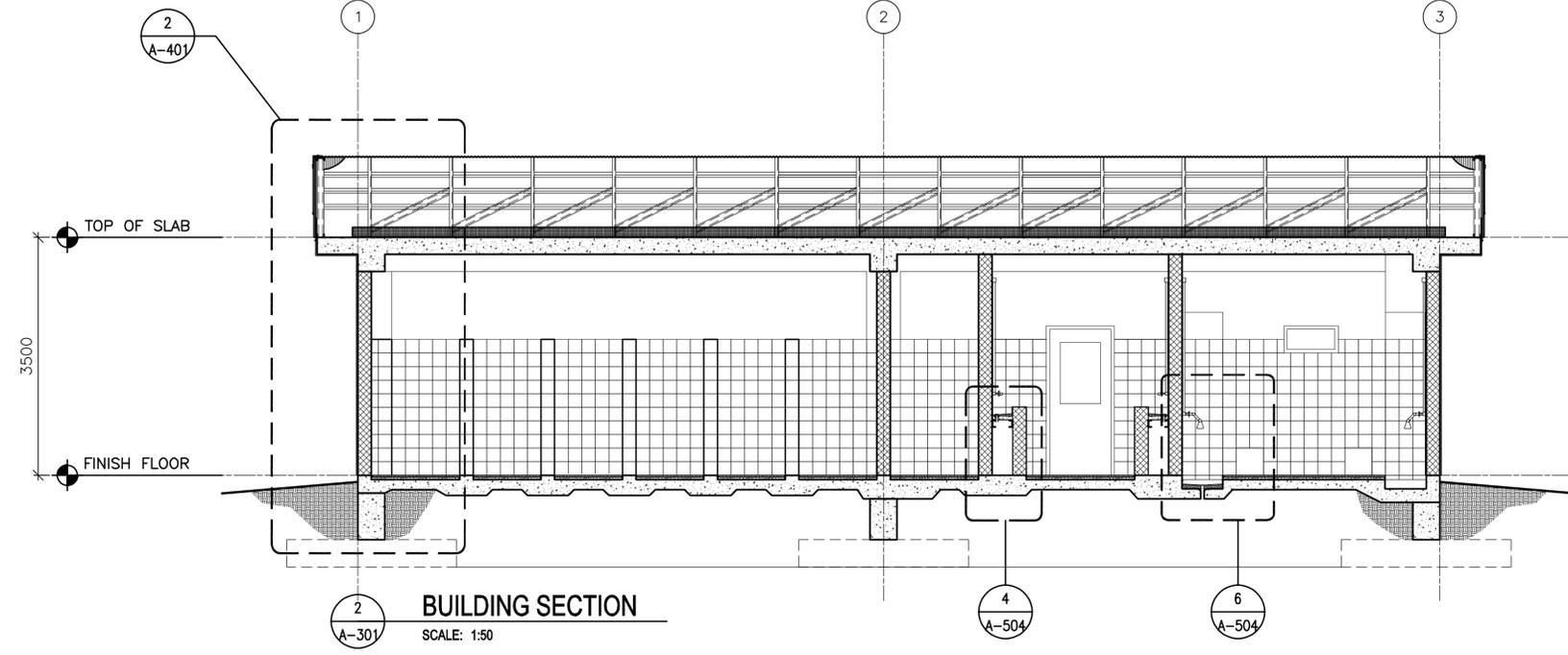
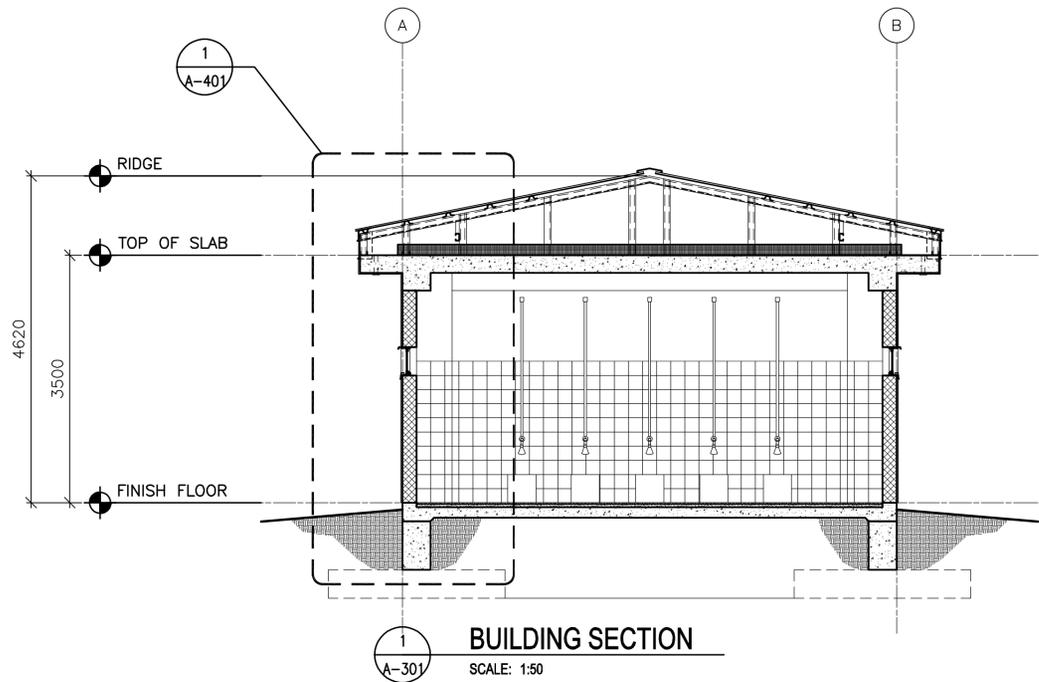
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D

C

B

A



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

0 1000 2000  
SCALE: 1:50

APPROVED:  
*K. R. Chafin*  
A/E DESIGNER OF RECORD

SEAL:  
STATE OF SOUTH CAROLINA  
KEVIN R. CHAFIN  
N. Charleston, SC  
6374  
REGISTERED ARCHITECT



Rev.	Date	Description	Mark	Date	Appr.
0	2/23/10				

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CORPS OF ENGINEERS  
APO AE 96338

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A Unit of Michael Baker Corporation  
Arlside Business Park  
100 Arlside Drive, PA 15108  
www.mbakercorp.com

Designed by: KRC  
Dwn by: EBB  
Ctd by: NLJ  
Reviewed by: LHM  
Submitted by: BAKER

Date: 2/23/10  
Design file no.:  
Drawing code: ANALATS-301B5  
File name: ANALATS-301B5  
Plot date: 2/23/2010  
Plot scale: x:k

AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN

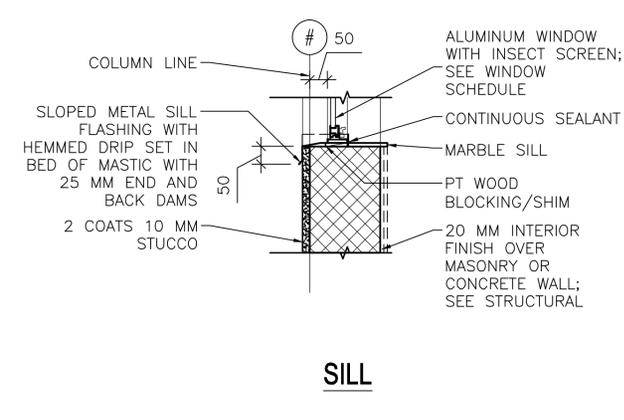
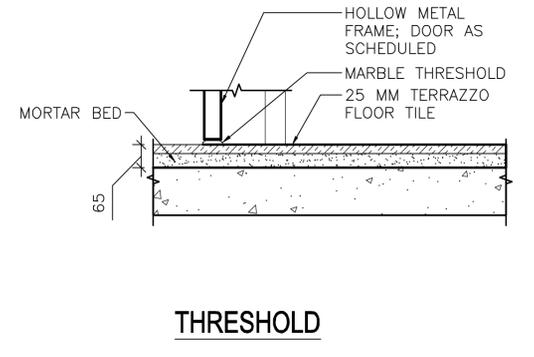
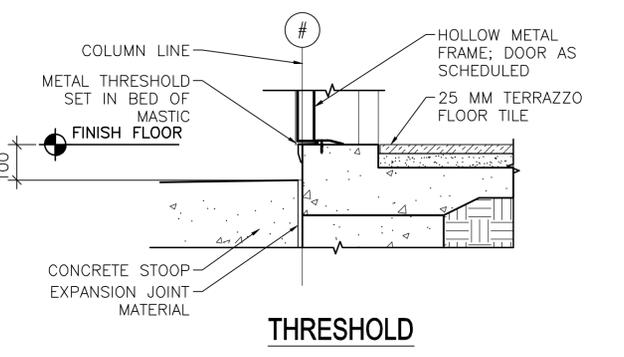
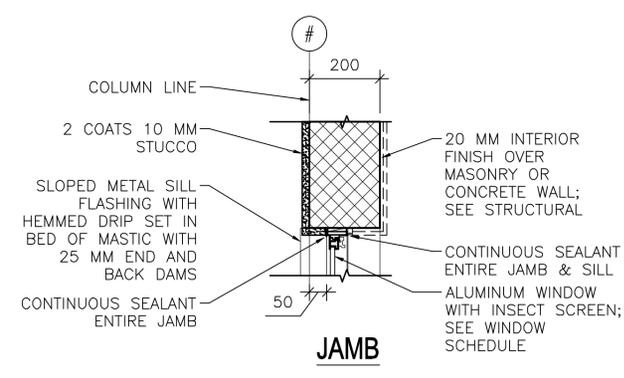
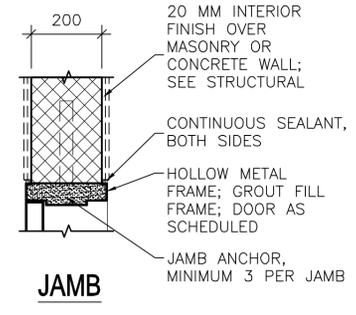
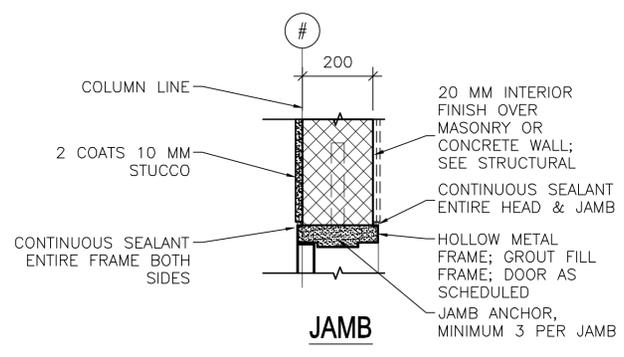
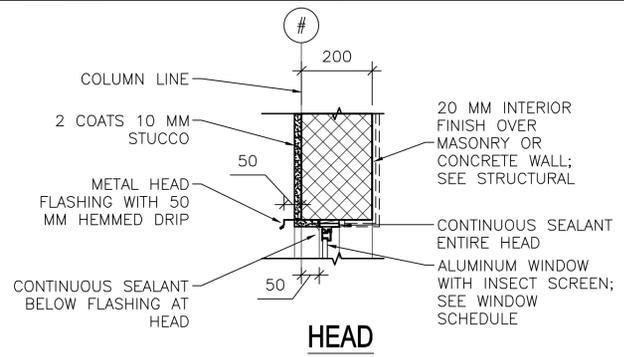
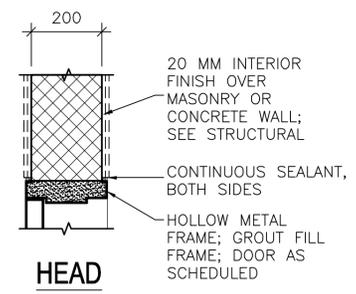
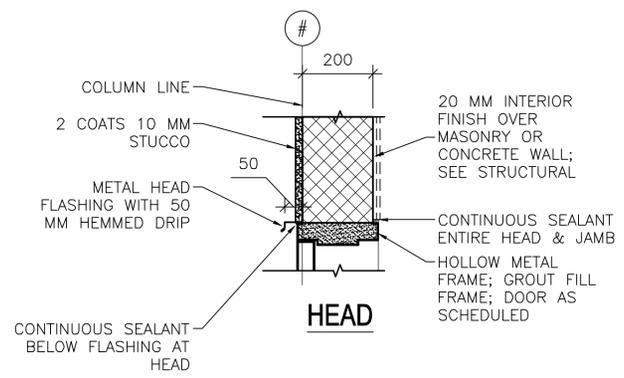
LATRINE BUILDING  
SMALL

BUILDING SECTIONS

Sheet  
reference  
number:  
**A-301**







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



Rev.	Date	Description	Mark	Date	Appr.
0	2/23/10				

Designed by:	KRC	Checked by:	NLJ
Dwn by:	EBB	Reviewed by:	LHM
Submitted by:	BAKER		

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN  
CORPS OF ENGINEERS  
APO AE 96338  
Michael Baker, Jr., Inc.  
A Unit of Michael Baker Corporation  
Alside Business Park  
100 Alside Drive, PA 15108  
www.mbakercorp.com

Date: 2/23/10  
Design file no.:  
Drawing code: ANALATS-A-502HUS  
File name: ANALATS-A-502HUS  
Prot date: 2/23/2010  
Prot scale: XX

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	LATRINE BUILDING SMALL HEAD, JAMB & SILL DETAILS
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Sheet reference number:  
A-502

APPROVED:  
*K. R. Chafin*  
A/E DESIGNER OF RECORD



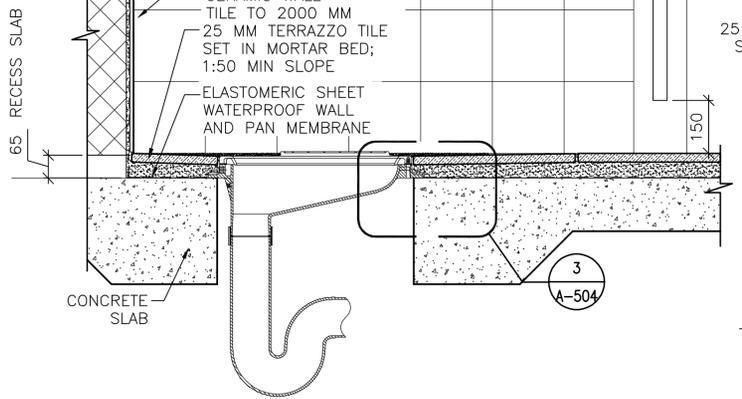
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

0 200 400  
SCALE: 1:10



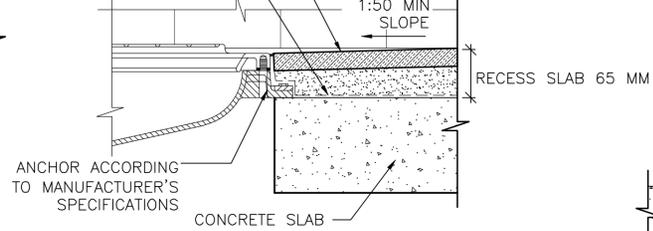
CMU OR CONCRETE WALL; SEE STRUCTURAL

200 X 200 THINSET CERAMIC WALL TILE TO 2000 MM  
25 MM TERRAZZO TILE SET IN MORTAR BED; 1:50 MIN SLOPE  
ELASTOMERIC SHEET WATERPROOF WALL AND PAN MEMBRANE

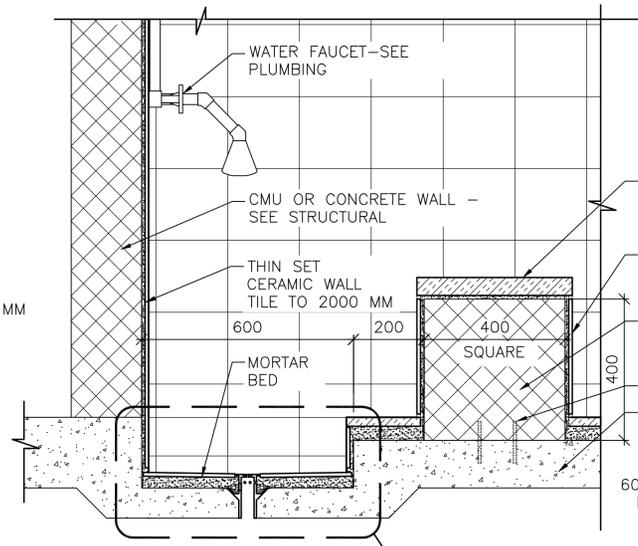


1 LATRINE DETAIL  
SCALE: 1:10

25 MM TERRAZZO TILE SET IN MORTAR BED; 1:50 MIN SLOPE  
ELASTOMERIC SHEET WATERPROOF MEMBRANE

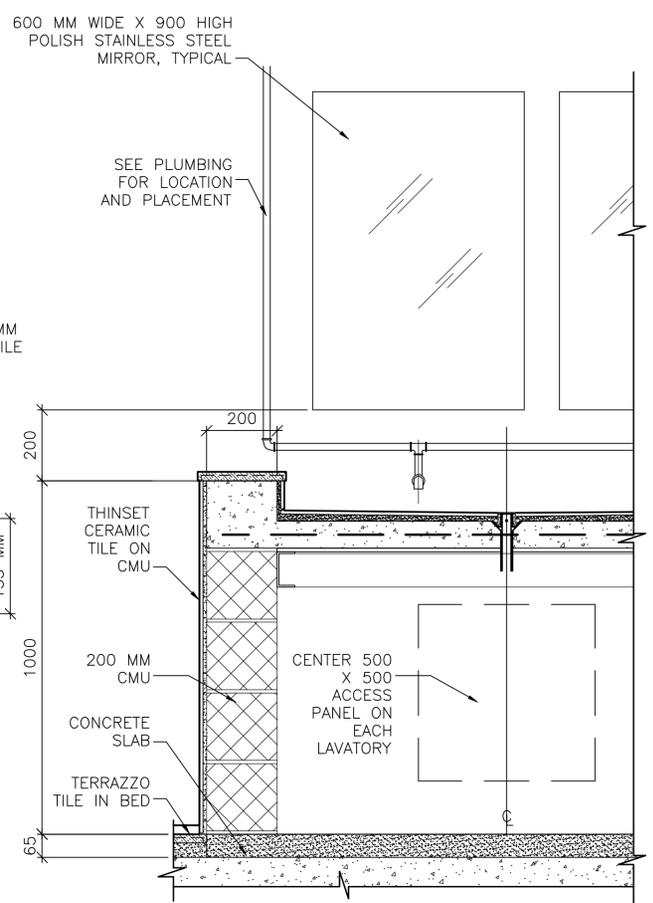


3 MOUNTING DETAIL  
SCALE: 1:5

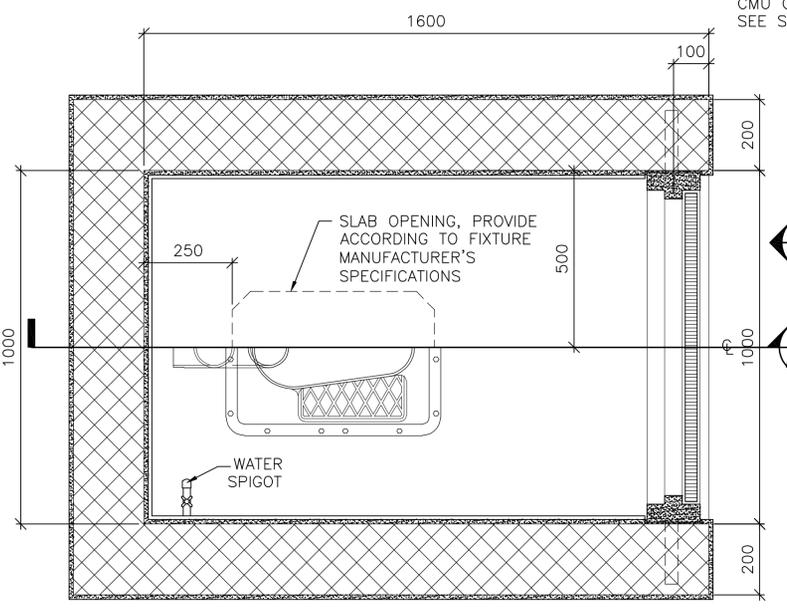


6 ABLUTION DETAIL  
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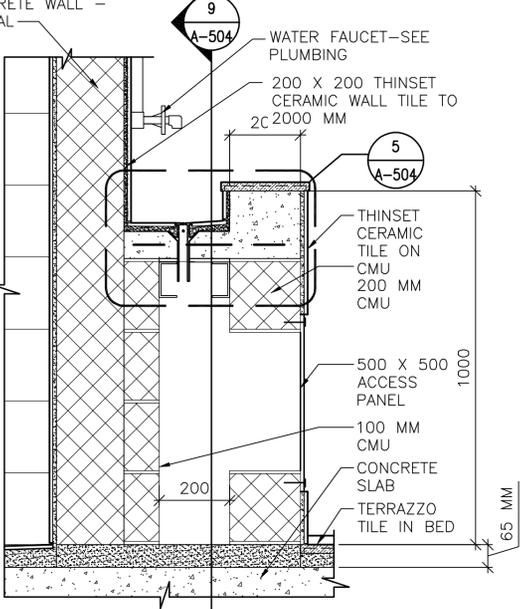
25 MM TERRAZZO TILE; SET IN MORTAR BED  
200 X 200 CERAMIC TILE ON BOND COAT SET IN MIN. 20 MM MORTAR BED; THINSET WALL TILE  
CONCRETE OR CMU PEDESTAL  
DOWELS  
CONCRETE SUBFLOOR



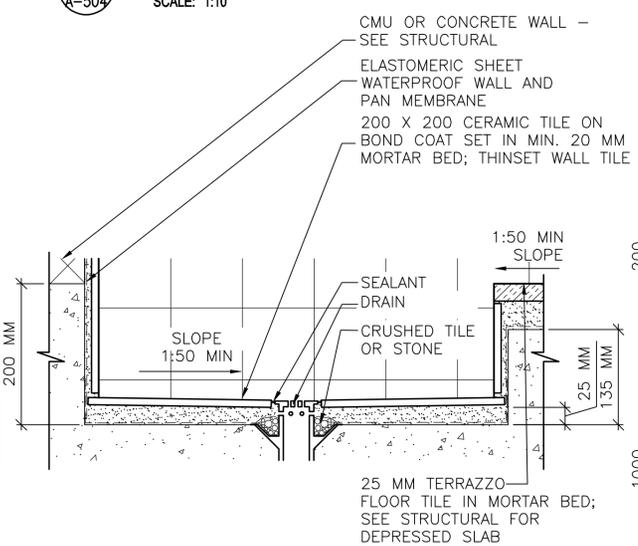
9 LAVATORY SECTION  
SCALE: 1:10



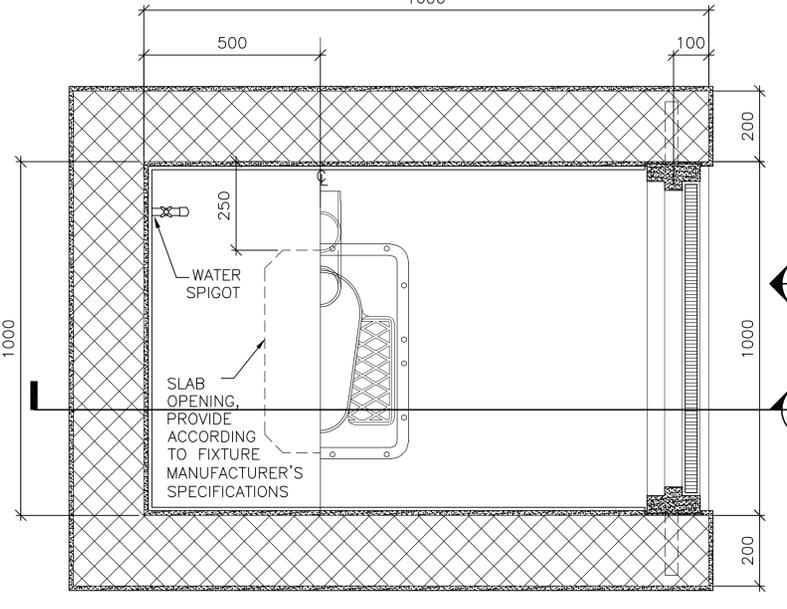
2 TOILET DETAIL  
SCALE: 1:10



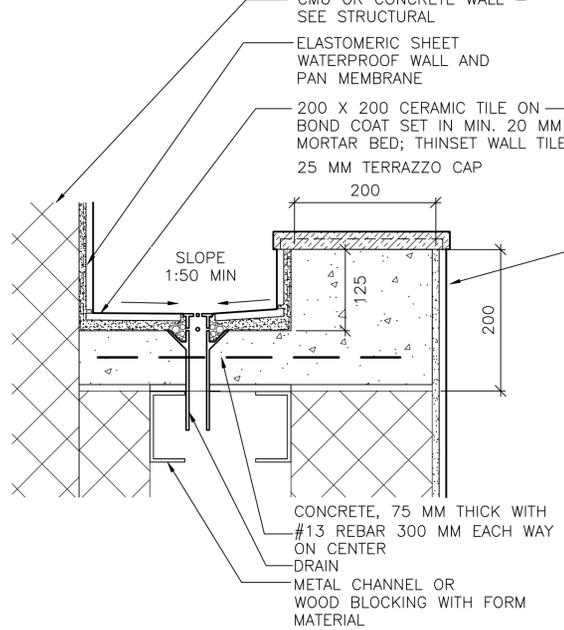
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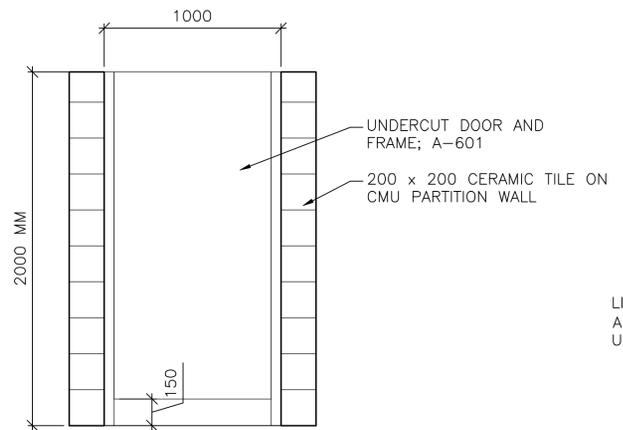
7 RECESSED TROUGH  
SCALE: 1:5



2A TOILET DETAIL  
SCALE: 1:10

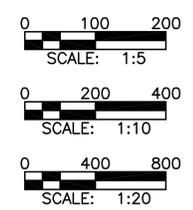


5 LAVATORY DETAIL  
SCALE: 1:5

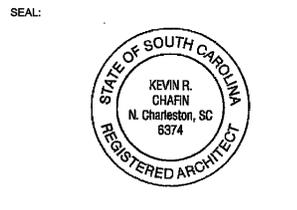


8 TOILET PARTITION DOOR ELEVATION  
SCALE: 1:20

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



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

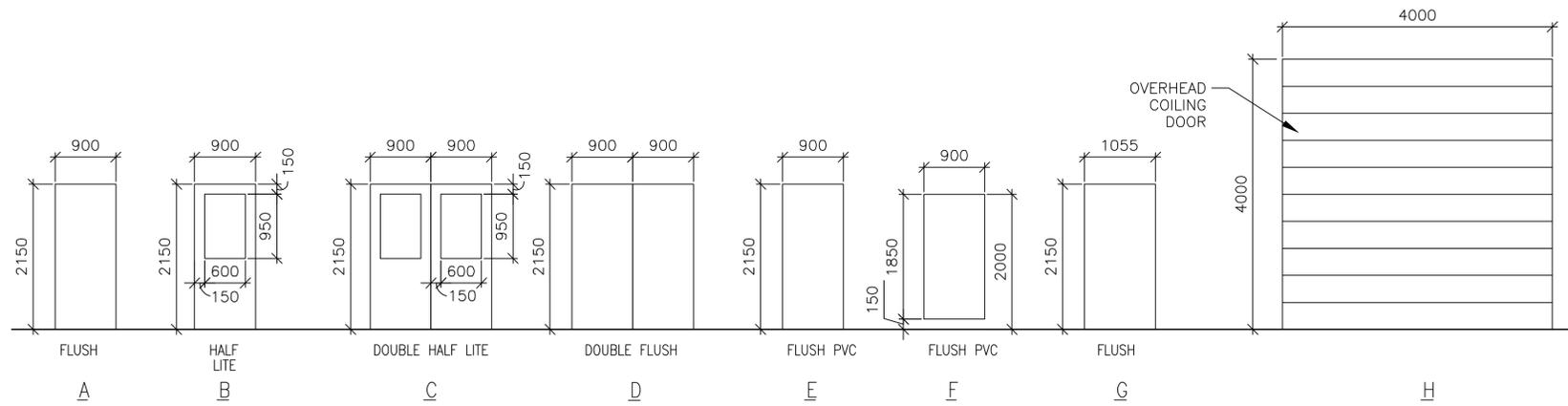


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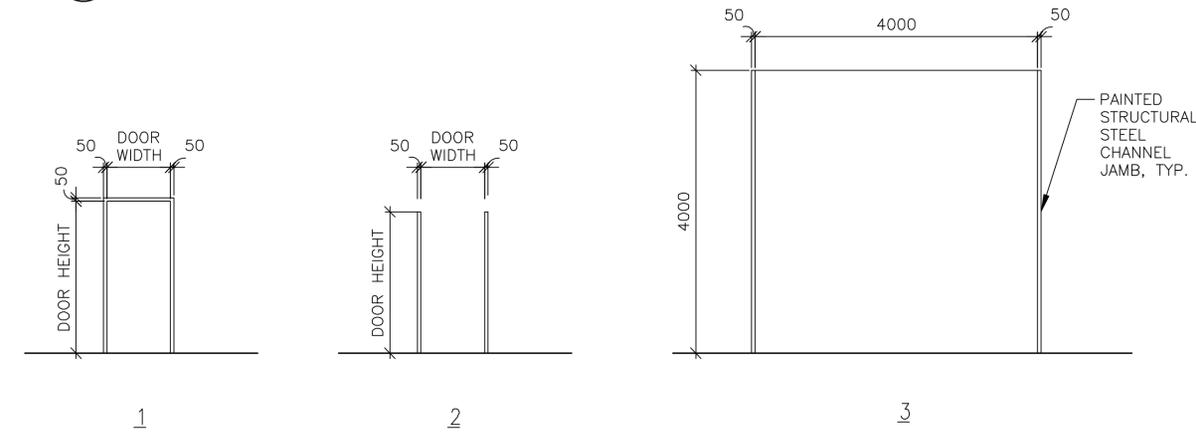
Design information table including Date (2/23/10), Design file no., Drawing code, File name, and Designer/Reviewer names.

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN  
LATRINE BUILDING SMALL  
TOILET, LAVATORY & ABLUTION DETAILS

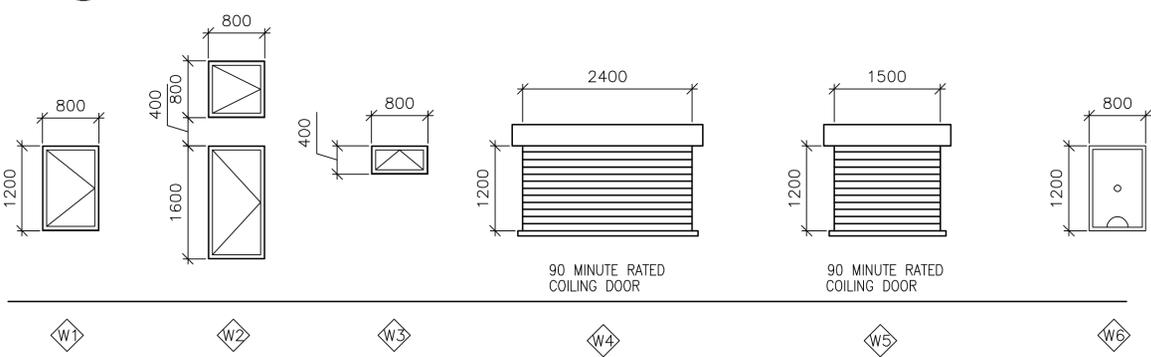
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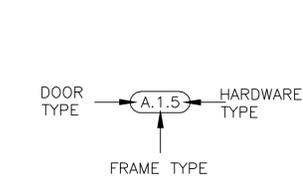
1 DOOR TYPES  
SCALE: 1:50



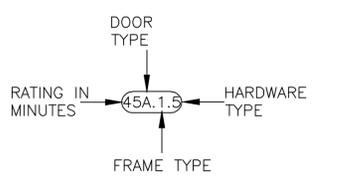
2 FRAME TYPES  
SCALE: 1:50



3 WINDOW TYPES  
SCALE: 1:50



4 DOOR TAG  
SCALE: NTS



5 RATED DOOR TAG  
SCALE: NTS

**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.

**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.

**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  
2 EA DOOR SILENCERS, L03011
- 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



US ARMY CORPS OF ENGINEERS  
AFGHANISTAN ENGINEER DISTRICT

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.

Rev.	Date	Description	Mark	Appr.	Date

Designed by: KRC  
Dwn by: EBB  
Crd by: NLJ  
Reviewed by: LHM  
Submitted by: BAKER

Date: 2/23/10  
Design file no.:  
Drawing code: ANA15A-01RICH  
File name: ANA15A-01RICH  
Plot date: 2/23/2010  
Plot scale: xx

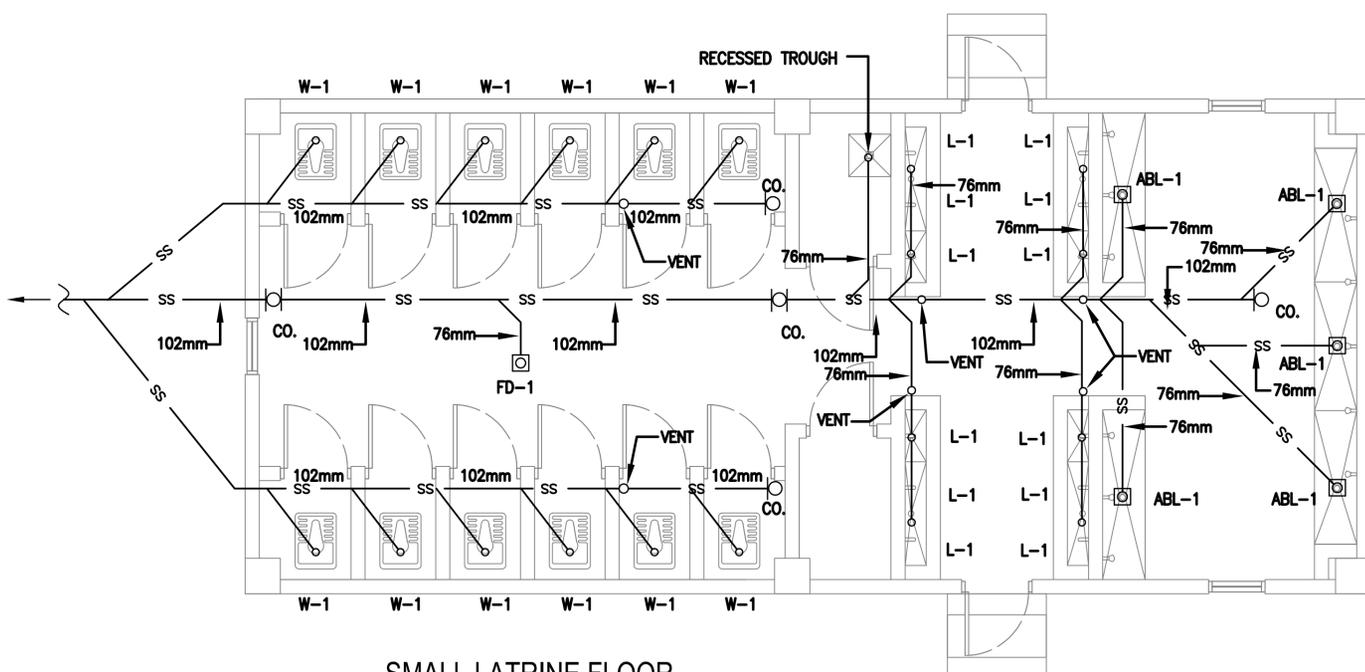
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN  
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AFGHAN NATIONAL ARMY  
REGIONAL MILITARY TRAINING CENTER  
STANDARD DESIGN  
LATRINE BUILDING  
SMALL  
WINDOW AND DOOR SCHEDULES

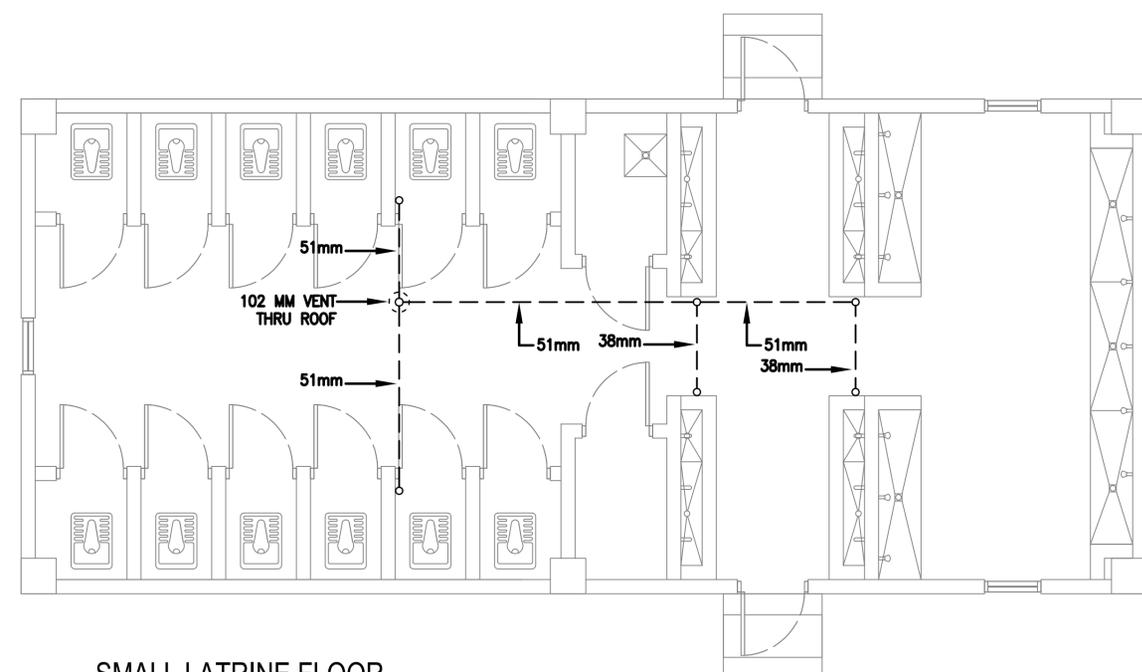
APPROVED:  
*X. P. Cliff*  
A/E DESIGNER OF RECORD



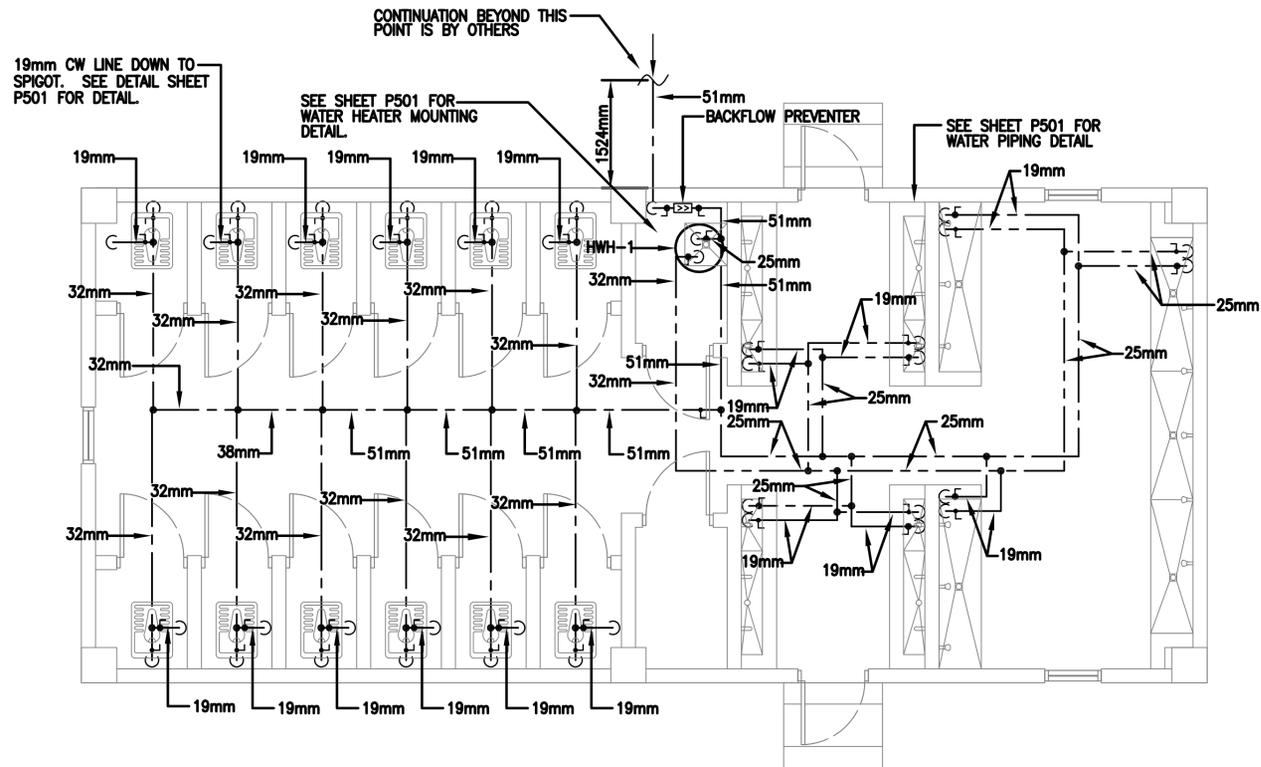
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1  
P-101  
SCALE: 1:50  
SMALL LATRINE FLOOR PLAN - PLUMBING (SANITARY)



2  
P-101  
SCALE: 1:50  
SMALL LATRINE FLOOR PLAN - PLUMBING (VENT PIPING)



3  
P-101  
SCALE: 1:50  
SMALL LATRINE FLOOR PLAN - PLUMBING (HOT & COLD WATER)

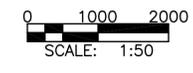
**FLOOR PLAN NOTES:**

- 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.
- REPORT ANY DISCREPANCIES FOUND IN THE PLUMBING DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION BY THE ENGINEER.
- ALL EASTERN STYLE WATER CLOSETS IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF W-1. EACH FIXTURE SHALL HAVE A 25mm (1 INCH) COLD WATER LINE EXTENDED TO IT AND THEN BE REDUCED TO 13mm (1/2 INCH) FOR A FINAL CONNECTION TO THE FLUSH TANK AND A 102mm (4) INCH SANITARY CONNECTION.
- ALL TROUGH FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF L-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
- ALL ABLUTION FIXTURES IN THIS FACILITY ARE TO HAVE THE FIXTURE DESIGNATION OF ABL-1. EACH FIXTURE SHALL HAVE A 13mm (1/2 INCH) COLD WATER, 13mm (1/2 INCH) HOT WATER CONNECTION AND A 76mm (3 INCH) SANITARY CONNECTION.
- REFER TO SHEET P501 & P502 FOR DETAILS AND SYMBOLS.
- ALL WATER, SANITARY AND VENT LINES TO BE EXPOSED. RUN LINES TIGHT TO CEILING AND WALL.
- CONTRACTOR TO COORDINATE ALL WORK WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- L-1 DESIGNATION REPRESENTS THE NUMBER OF FAUCETS FOR THE TROUGH FIXTURE.
- CONTRACTOR TO COORDINATE WATER PIPING MOUNTING LOCATION WITH BOTH MECHANICAL & ELECTRICAL DRAWINGS.

**PLUMBING SYMBOLS**

- SS SANITARY SEWER PIPING (BELOW GROUND)
- SS SANITARY SEWER PIPING (ABOVE GROUND)
- V VENT PIPING (V)
- CW COLD WATER PIPING (CW)
- HW HOT WATER PIPING (HW)
- BV BALL VALVE
- BFP BACKFLOW PREVENTER
- OR CLEANOUT (CO.)
- RP ROOF PENETRATION

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



APPROVED:

A/E DESIGNER OF RECORD

SEAL:

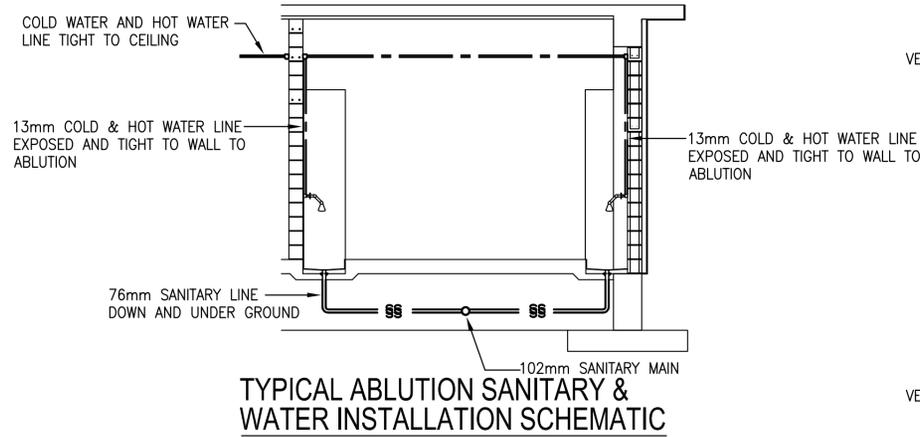
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0	02/23/10	Design file no.
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		File name: ANALYSIS-10XXX
		Plot date: 02/09/10
		Plot scale: 1:50

Designed by:	RMH
Drawn by:	RMH
Reviewed by:	MRS
Submitted by:	BAKER

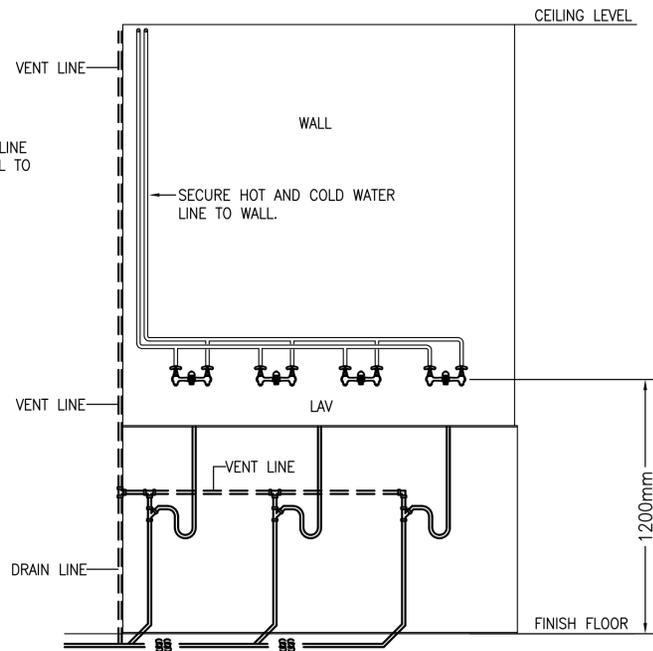
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN  
CORPS OF ENGINEERS  
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Moon Township, PA 15108  
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AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	LATRINE BUILDING SMALL	FLOOR PLAN PLUMBING
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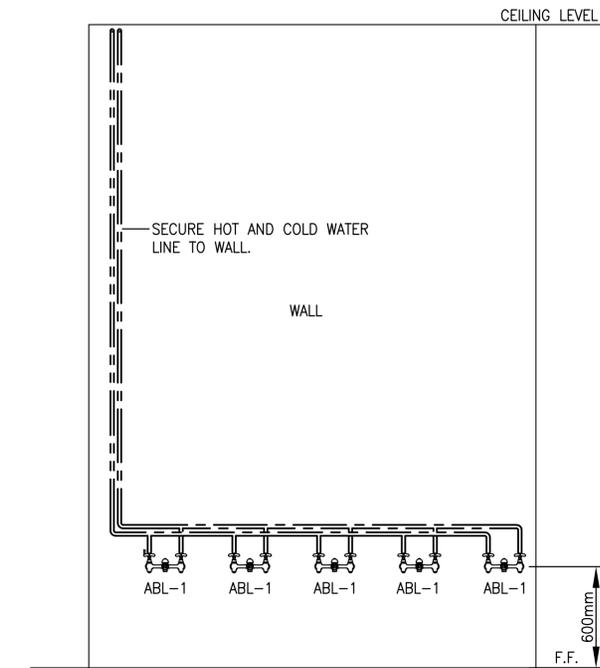
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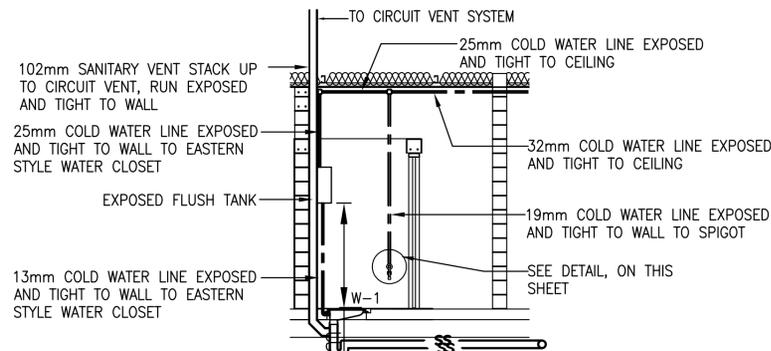
**TYPICAL ABLUTION SANITARY & WATER INSTALLATION SCHEMATIC**  
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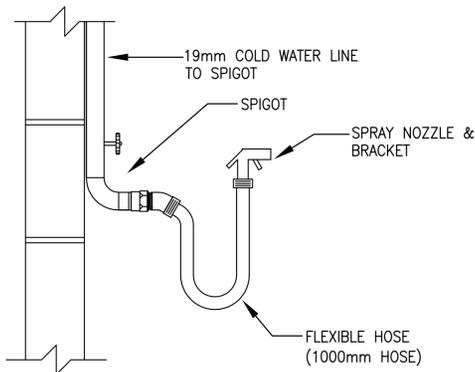
**LAVATORY ELEVATION PLAN - PLUMBING**  
SCALE: N.T.S.



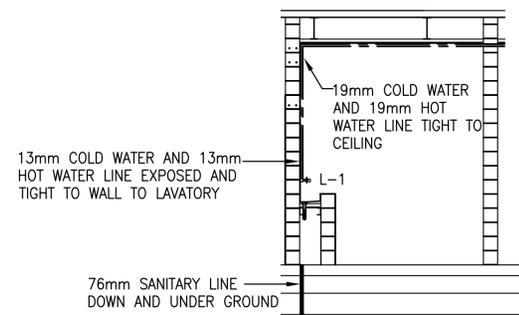
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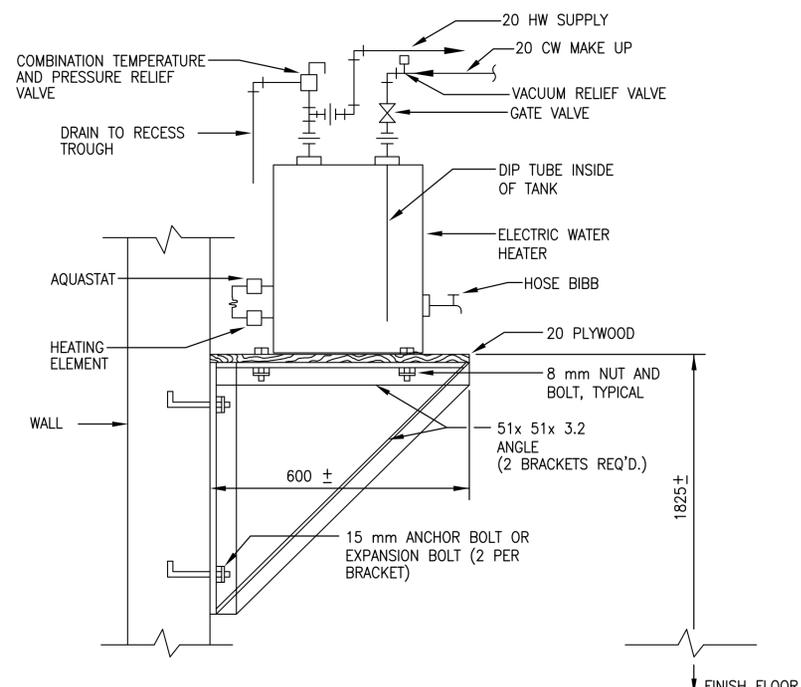
**TYPICAL EASTERN STYLE WATER CLOSET SANITARY & WATER INSTALLATION SCHEMATIC**  
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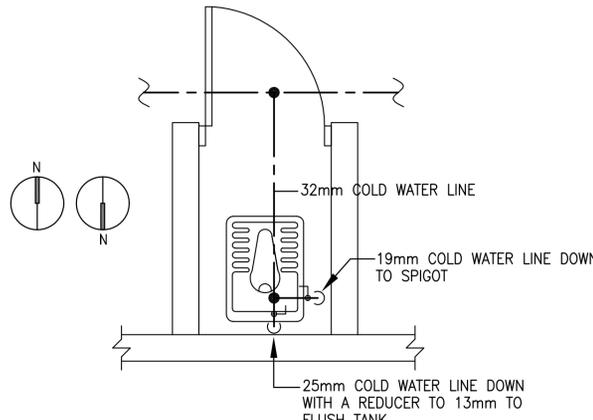
**TYPICAL DETAIL - SPIGOT, FLEXIBLE HOSE, AND SPRAY NOZZLE**  
SCALE: N.T.S.



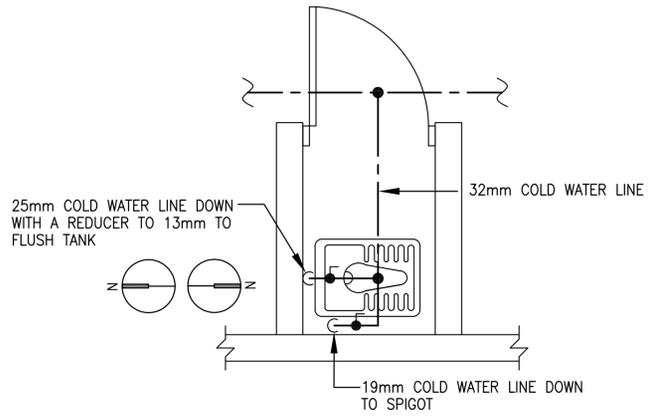
**TYPICAL LAVATORY SANITARY & WATER INSTALLATION SCHEMATIC**  
SCALE: N.T.S.



**WALL MOUNTED ELECTRIC WATER HEATER DETAIL**  
SCALE: N.T.S.



**TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL**  
SCALE: N.T.S.



**TYPICAL EASTERN STYLE WATER CLOSET WITH SPIGOT WATER PIPING DETAIL**  
SCALE: N.T.S.



Rev.	Date	Description	Mark	Appr.
0	02/23/10	Design file no.		
		Drawing code:		
		File name: ANA\ASR-50\XXX		
		Plot date: 02/23/10		
		Plot scale: N.T.S.		

Designed by: RMH	Checked by: CUM	Reviewed by: MRS	Submitted by: BAKER
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN CORPS OF ENGINEERS APO AE 96338			
Michael Baker, Jr., Inc. A Unit of Michael Baker Corporation Arlside Business Park Moon Township, PA 15108 www.mbakercorp.com			

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	LATRINE BUILDING SMALL	PLUMBING DETAILS
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APPROVED:

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A/E DESIGNER OF RECORD

SEAL:

*Matthew R. Sotosky*

Sheet reference number:  
**P-501**



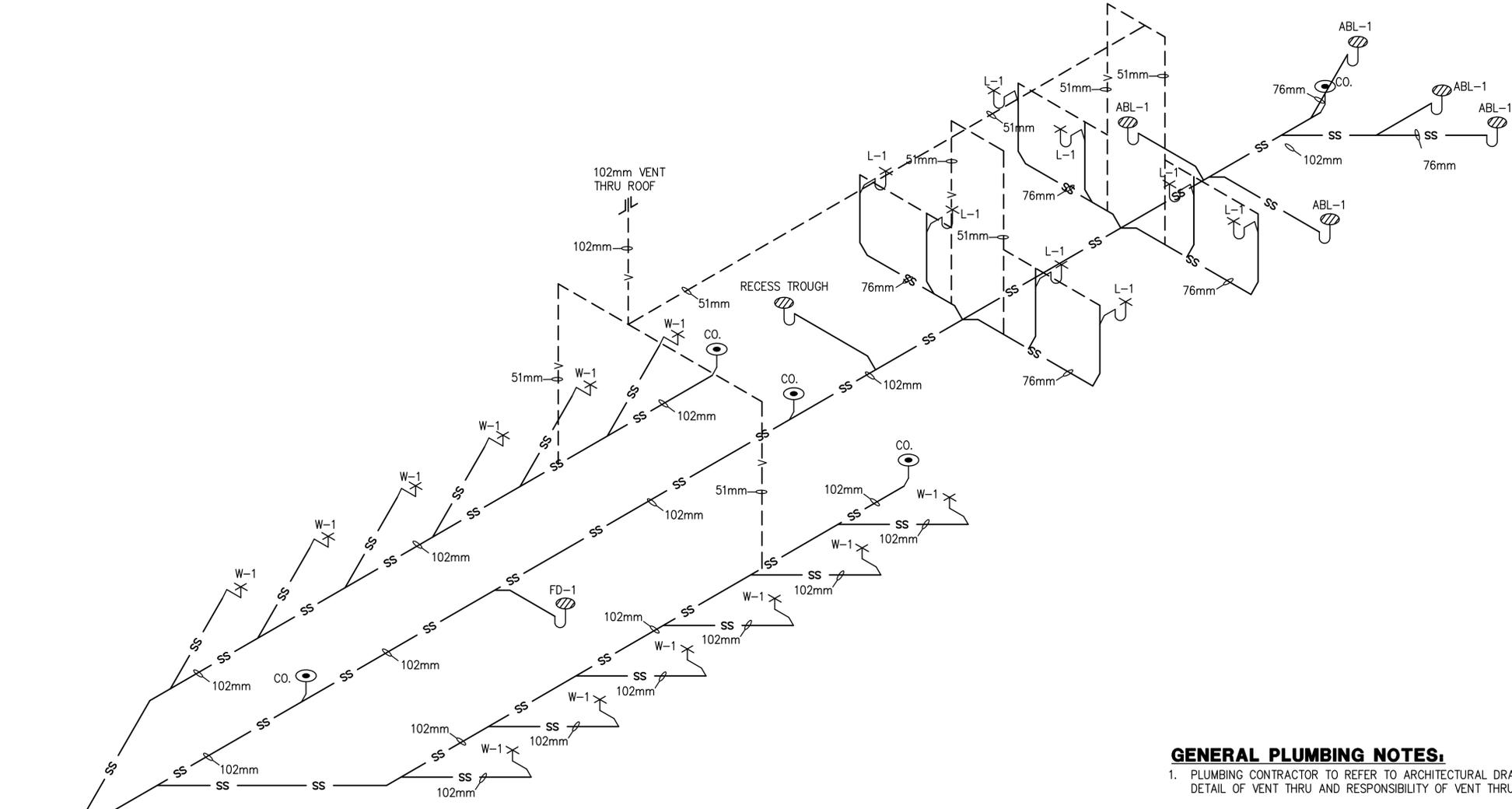


Rev.	Date	Description
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Designed by: RMH	Checked by: CJM	Date: 02/23/10
Dwn by: RMH	Reviewed by: MRS	Design file no.:
Submitted by: BAKER		Drawing code: ANALATSP-01XXX
		File name: ANALATSP-01XXX
		Plot date: 02/23/2010
		Plot scale: N.T.S.

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	LATRINE BUILDING SMALL	PLUMBING ISOMETRICS
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Sheet reference number:  
P-901



CONTINUATION BEYOND THIS POINT IS BY OTHERS.

1  
P-901  
SCALE: N.T.S.  
**SMALL LATRINE DRAINAGE ISOMETRIC**

**GENERAL PLUMBING NOTES:**  
1. PLUMBING CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL OF VENT THRU AND RESPONSIBILITY OF VENT THRU ROOF.

- PLUMBING SYMBOLS**
- SS — SANITARY SEWER PIPING (BELOW GROUND)
  - SS — SANITARY SEWER PIPING (ABOVE GROUND)
  - V — VENT PIPING (V)
  - — COLD WATER PIPING (CW)
  - — HOT WATER PIPING (HW)
  - — BALL VALVE
  - |<<|— — BACKFLOW PREVENTER
  - OR —| — CLEANOUT (CO.)
  - ⊙ — ROOF PENETRATION

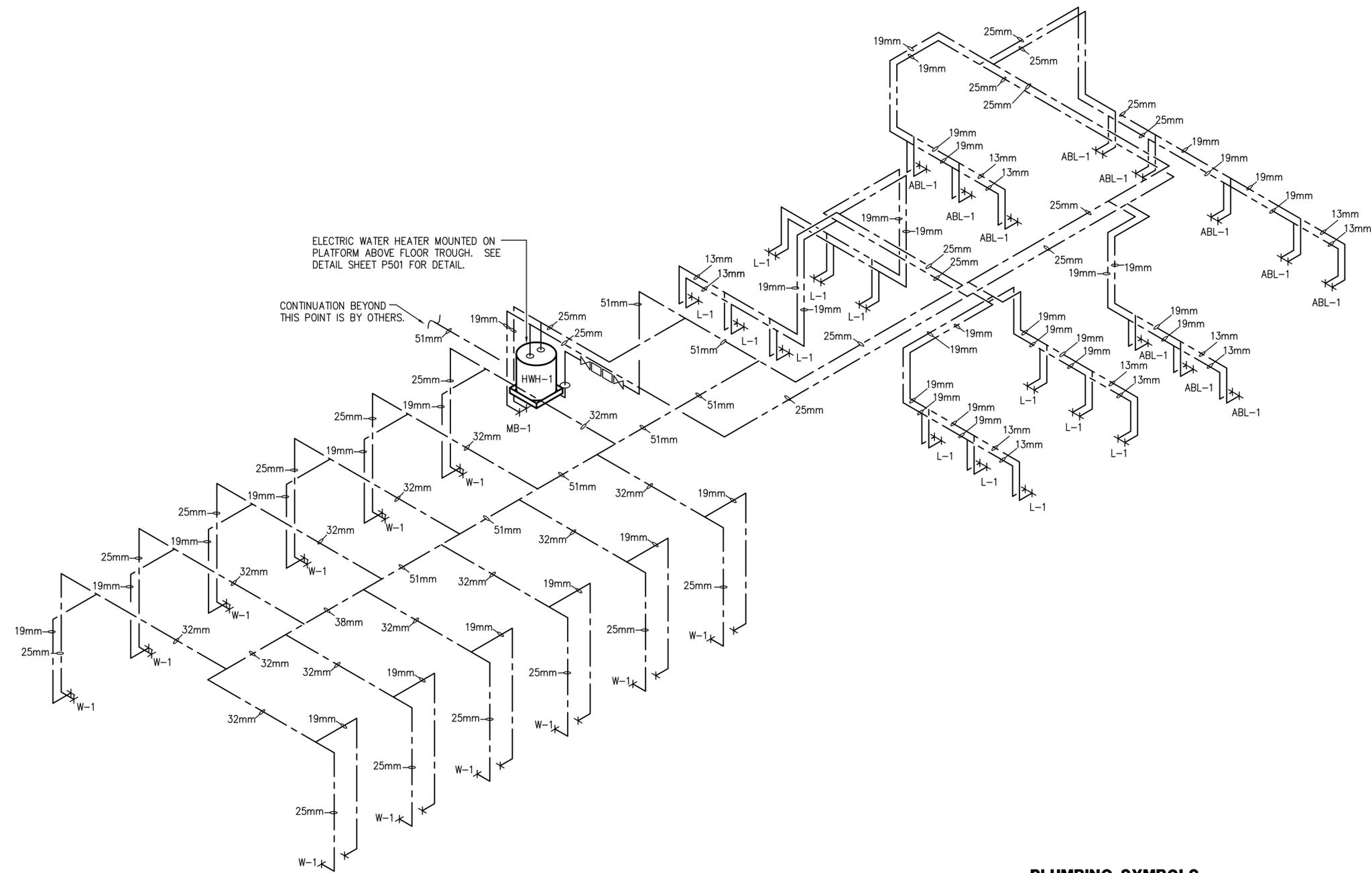
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*Matthew R. Sotosky*



ELECTRIC WATER HEATER MOUNTED ON PLATFORM ABOVE FLOOR TROUGH. SEE DETAIL SHEET P501 FOR DETAIL.

CONTINUATION BEYOND THIS POINT IS BY OTHERS.

1  
P-902

**SMALL LATRINE HOT AND COLD WATER ISOMETRIC**

SCALE: N.T.S.

**PLUMBING SYMBOLS**

- SS — SANITARY SEWER PIPING (BELOW GROUND)
- SS — SANITARY SEWER PIPING (ABOVE GROUND)
- - - VENT PIPING (V)
- — — COLD WATER PIPING (CW)
- · — — HOT WATER PIPING (HW)
- BALL VALVE
- ⊕ BACKFLOW PREVENTER
- ⊕ OR ⊖ CLEANOUT (CO.)
- ⊙ ROOF PENETRATION

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AFGHANISTAN ENGINEER DISTRICT

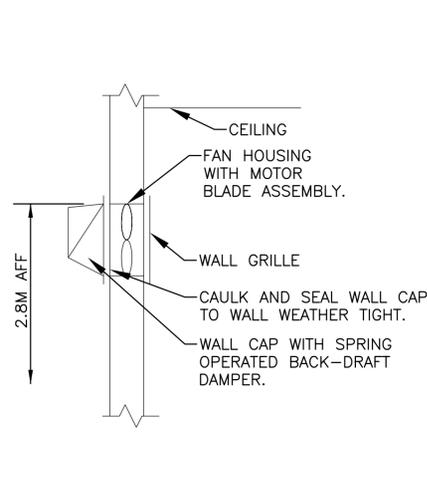
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0	02/23/10	Design file no.
		Drawing code:
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		Plot date: 02/23/2010
		Plot scale: N.T.S.

Designed by:	RMH
Drawn by:	RMH
Reviewed by:	MRS
Submitted by:	BAKER

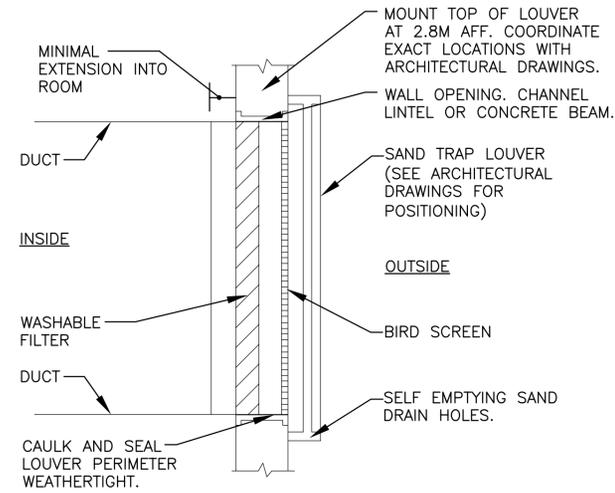
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SMALL  
PLUMBING ISOMETRICS

Sheet reference number:  
P-902



2 WALL EXHAUST FAN DETAIL  
M-101 N.T.S.



3 FILTERED SAND TRAP LOUVER  
M-101 N.T.S.

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	INLINE	0.250	DIRECT	1/8	13	220/1/50	⊙ WALL
EF-2	INLINE	0.250	DIRECT	1/8	13	220/1/50	⊙ WALL
EF-3	WALL	0.035	DIRECT	FRACT	9.5	220/1/50	W/ STAT

- NOTE:
- FANS SHALL BE CORROSION RESISTANT.
  - FANS SHALL HAVE SPRING OPERATED BACK DRAFT DAMPER.

MAKE UP AIR HEATERS							
NO.	BLOWER CMS	FUSE	KW	MIN. TEMP RISE °C	SP mmH2O	ELECTRICAL DATA	CONTROL
MUA-1	0.284	60	10	20	13	220/1/50	REMOTE
MUA-2	0.142	30	5	20	13	220/1/50	REMOTE

- NOTES:
- PROVIDE REMOTE MOUNTED THERMOSTAT WITH LOCKING COVER.
  - INTERLOCK MUA-1 BLOWER OPERATION WITH EF-1 AND THERMOSTAT.
  - INTERLOCK MUA-2 BLOWER OPERATION WITH EF-2 AND THERMOSTAT.
  - BLOWER SHALL BE SET TO ENERGIZE WITH EXHAUST FAN(S) AND OR THERMOSTAT(S), HEAT SHALL BE CONTROLLED BY THERMOSTAT. PROVIDE AIR SENSING SWITCH FOR HEATING OPERATION.

**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:**

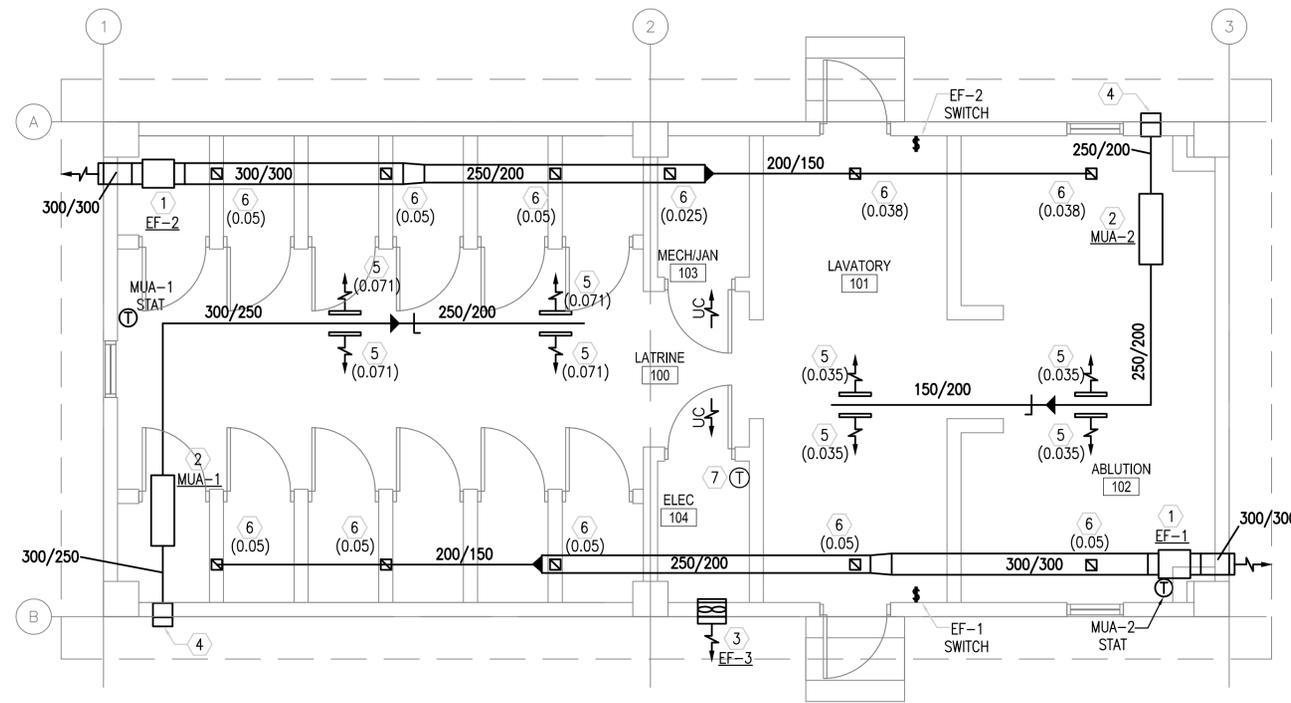
- ⊗ KEY NOTE
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- VOLUME DAMPER
- ⊕ THERMOSTAT WITH LOCKING COVER
- UC DOOR UNDERCUT
- TG TRANSFER GRILLE

**ABBREVIATIONS:**

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

**KEY NOTE:**

- INLINE EXHAUST FAN DUCTED TO WALL CAP WITH LOW LEAKAGE GRAVITY BACK-DRAFT DAMPER. SECURE FAN TO STRUCTURE ABOVE AND INTERLOCK WITH MAKE UP AIR HEATER.
- ELECTRIC MAKE UP AIR HEATER SECURED TO STRUCTURE ABOVE. BLOWER SHALL BE SET TO ENERGIZE WITH CORRESPONDING EXHAUST FAN AND OR THE THERMOSTAT, HEAT SHALL BE CONTROLLED BY THERMOSTAT. COORDINATE DUCT AND LIGHT LOCATIONS WITH OTHER TRADES.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL 2 THIS SHEET.
- 600X600 (24X24) INTAKE LOUVER WITH BACK-DRAFT DAMPER FOR MAKE UP AIR UNIT. PROVIDE WEATHER PROOF LOUVER WITH 50mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL 3 THIS SHEET.
- 200x150 (8x6) ALUMINUM DUCT MOUNTED SUPPLY GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE TO CMS IN PARENTHESIS.
- 150x150 (6x6) ALUMINUM DUCT MOUNTED EXHAUST GRILLE WITH ADJUSTABLE OPPOSED BLADE DAMPERS. BALANCE TO CMS IN PARENTHESIS.
- 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).



1 FLOOR PLAN - HVAC  
M-101 SCALE: 1:50

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED  
SCALE: 1:50

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		File name: ANA/ATSM-10/000
		Plot date: 02/23/10
		Plot scale: 1:50

Designed by: RML  
Dwn by: JJJ  
Ckd by: CUM  
Reviewed by: MRS  
Submitted by: BAKER

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LATRINE BUILDING  
SMALL

HVAC PLANS, SCHEDULES AND DETAILS

Sheet reference number:  
M-101





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 LATS.
- ② NEMA 3R, 380V, 3P, 30A FUSED DISCONNECT FUSED AT 30A. SEE PLUMBING DRAWINGS FOR EXACT LOCATION OF WATER HEATER.
- ③ SEE DRAWING #E-602 FOR WIRE AND CONDUIT SIZE.
- ④ PROVIDE POWER CONNECTION TO EXHAUST FANS. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑤ NEMA 3R, 220V, 1P, 30A FUSED DISCONNECT FUSED AT 30A. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF MUA-2.
- ⑥ PROVIDE POWER CONNECTION TO MAKE UP AIR UNIT #1. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑦ PROVIDE POWER CONNECTION TO MAKE UP AIR UNIT #2. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑧ THE DISCONNECTING MEANS FOR THIS PIECE OF EQUIPMENT SHALL BE IN A NEMA 3R ENCLOSURE.
- ⑨ NEMA 3R, 220V, 1P, 60A FUSED DISCONNECT FUSED AT 60A. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF MUA-1.



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Designed by: RAJ	Checked by: JRG	Reviewed by: JRG	Submitted by: BAKER
Dwn by: BUB			

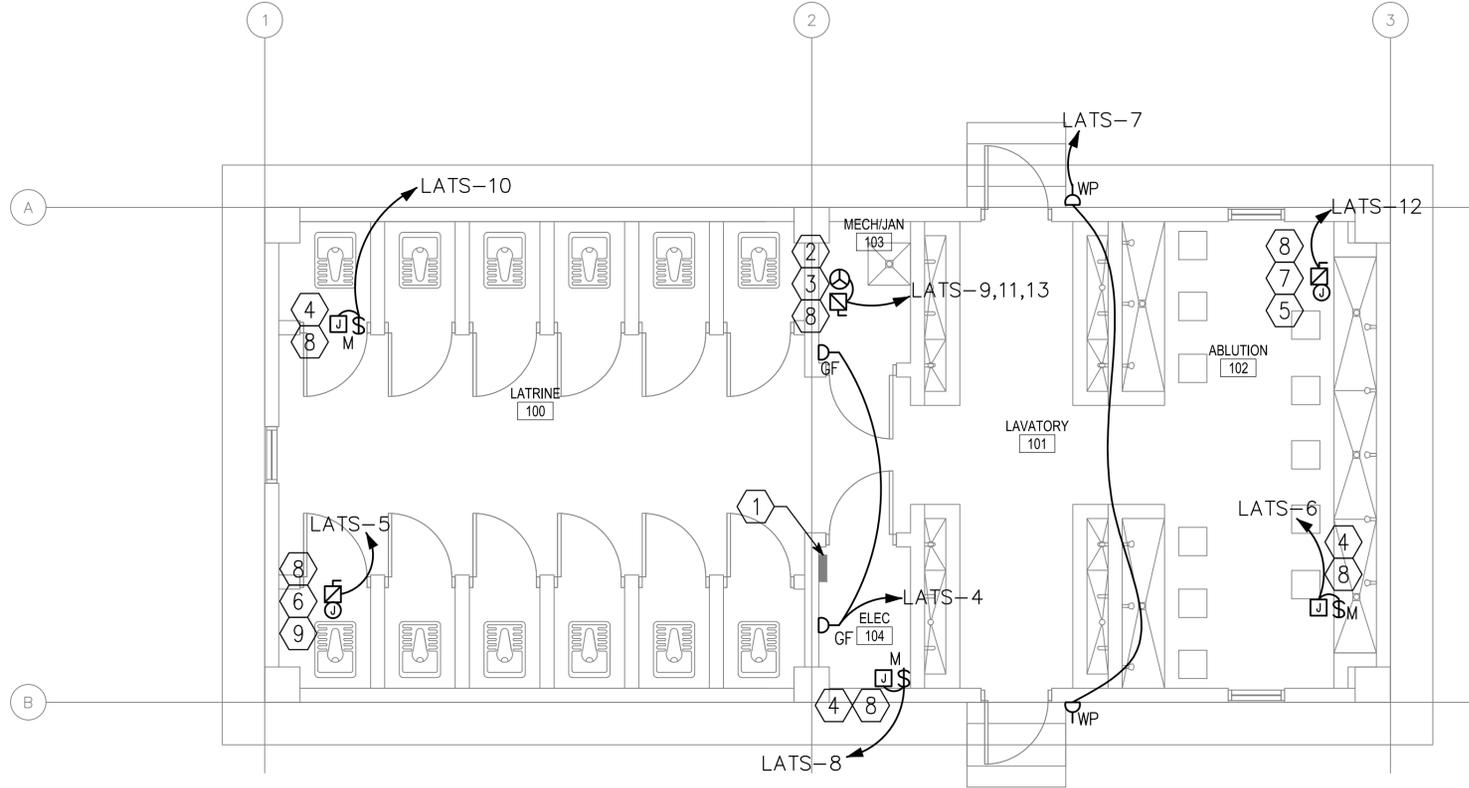
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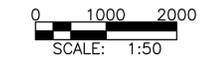
LATRINE BUILDING  
SMALL  
ELECTRICAL POWER AND SYSTEMS PLAN

Sheet reference number:  
E-102



SMALL LATRINE  
FLOOR PLAN - POWER & SYSTEMS

1  
E-102 SCALE: 1:50

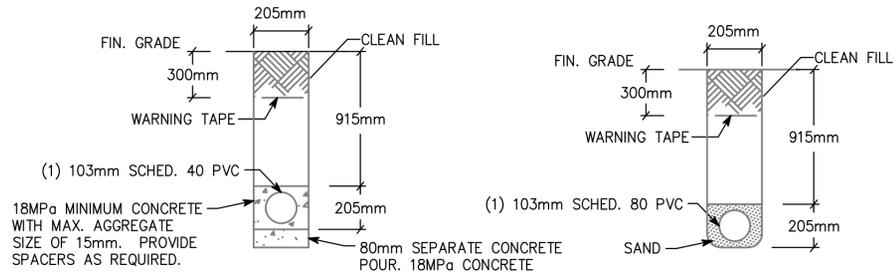


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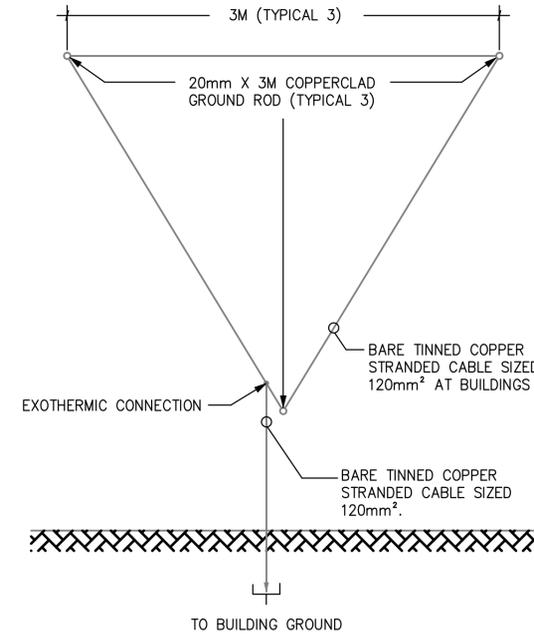
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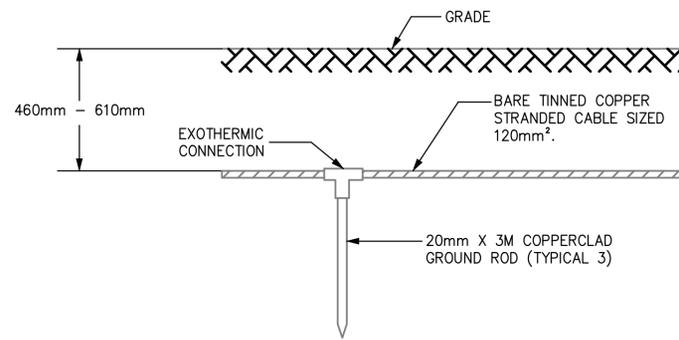


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

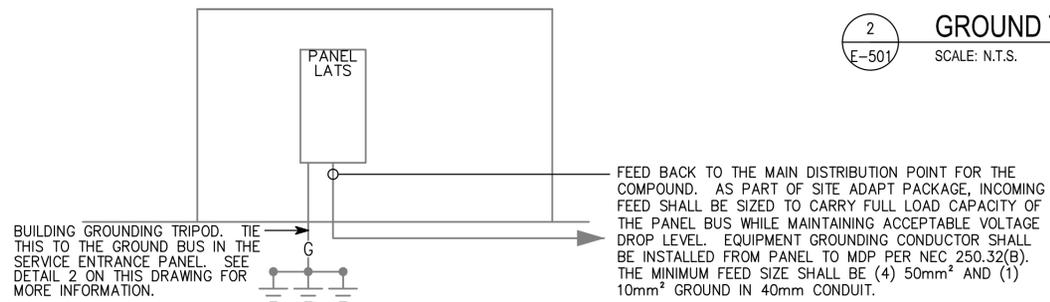
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE  
SCALE: N.T.S.



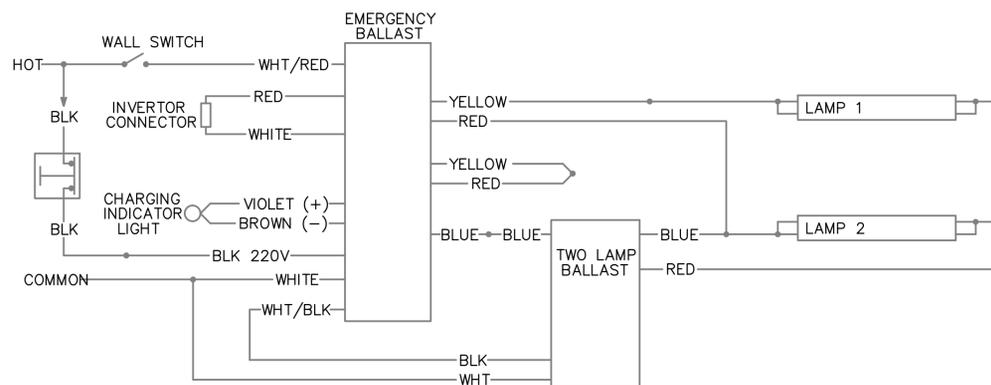
2 GROUND TRIPOD SYSTEM DETAIL - PLAN  
SCALE: N.T.S.



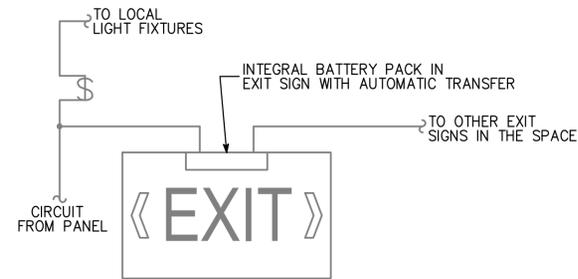
3 GROUND TRIPOD SYSTEM DETAIL - ELEVATION  
SCALE: N.T.S.



4 LATS RISER DIAGRAM  
SCALE: N.T.S.



6 EMERGENCY FIXTURE WIRING DIAGRAM  
SCALE: N.T.S.



6 EXIT SIGN WIRING DIAGRAM  
SCALE: N.T.S.

Rev.	Date	Design file no.	Drawing code	File name	Plot date	Plot scale
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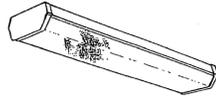
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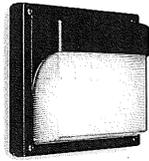
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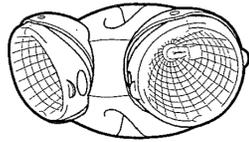
FIXTURE MARK 'B' & 'B2'



FIXTURE MARK 'C'



FIXTURE MARK 'H'



FIXTURE MARK 'E'



# LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
B	WET LOCATION WRAP AROUND SURFACE MOUNTED FLUORESCENT FIXTURE WITH PRISMATIC ACRYLIC LENS AND ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS.
B2	SAME AS FIXTURE 'B' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS. EMERGENCY BALLAST WITH SELF TEST SWITCH.
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 155mm 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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LATRINE BUILDING  
SMALL

ELECTRICAL LIGHTING FIXTURE SCHEDULE

Sheet reference number:  
E-601

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SEAL:

D

C

B

A



PANELBOARD \_\_\_\_\_ LATS \_\_\_\_\_ SURFACE \_\_\_\_\_ MOUNTED  
 \_\_\_\_\_ AMP. MAIN LUGS (OR) \_\_\_\_\_ 100 \_\_\_\_\_ AMP. MAIN BREAKER W/ \_\_\_\_\_ 100 \_\_\_\_\_ AMP. TRIP  
 CIRCUIT BREAKER TYPE \_\_\_\_\_ 380/220 VOLTS \_\_\_\_\_ 3 PHASE \_\_\_\_\_ 4 WIRE \_\_\_\_\_ 50 HZ 100 AMP. BUS

Ckt. No.	TRIP AMPS	NO. POLES	WIRE MM <sup>2</sup>	GND MM <sup>2</sup>	CONDUIT MM	LOAD-KVA			LOAD-KVA			CONDUIT MM	GND MM <sup>2</sup>	WIRE MM <sup>2</sup>	NO. POLES	TRIP AMPS	Ckt. No.			
						A0	B0	C0	A0	B0	C0									
1	20	1	4.0	4.0	20	LIGHTING - RM 100, 103, 104			0.9			0.5			20	4.0	4.0	1	20	2
3	20	1				SPARE						0.4			20	4.0	4.0	1	20	4
5	60	1	25.0	6.0	25	MAKE UP AIR #1 - RM 100					10.0			0.5	20	4.0	4.0	1	20	6
7	20	1	4.0	4.0	20	EXTERIOR RECEPT			0.4			0.5			20	4.0	4.0	1	20	8
9										3.0			0.5		20	4.0	4.0	1	20	10
11	30	3	6.0	6.0	20	WATER HEATER - RM 103					3.0			5.0	20	6.0	6.0	1	30	12
13						SPARE			3.0									1	20	14
15	20	1				SPARE												1	20	16
17	20	1				SPARE												1	20	18
19	20	1				SPARE												1	20	20
21	20	1				SPARE												1	20	22
23	20	1				SPARE												1	20	24
25	20	1				SPARE												1	20	26
27	20	1				SPARE												1	20	28
29	20	1				SPARE												1	20	30
						4.3	3.0	13.0	1.0	0.9	5.5									

TOTAL CONN. LOAD PER PHASE (KVA): A0 5.3 B0 3.9 C0 18.5  
 TOTAL CONN. LOAD 27.7 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 19.39

\* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

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