

1
S-101 **FOUNDATION/SLAB PLAN**
SCALE: 1:100

FOUNDATION/SLAB PLAN NOTES:

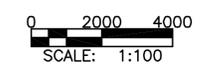
- REFER TO SHEET S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
- FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.00MM) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
- SLAB-ON-GRADE IS 150 WITH #13 @ 300 OC EW LOCATED 38 FROM T/SLAB.
- TOP OF EXTERIOR FOOTINGS SHALL BE -950 UNLESS OTHERWISE INDICATED.
- TOP OF INTERIOR FOOTINGS WITHOUT GRADE BEAM ABOVE SHALL BE -600.
- COLUMN FOOTINGS INDICATED THUS F# ON PLAN. REFER TO COLUMN FOOTING SCHEDULE ON SHEET S-601.
- REFER TO COLUMN SCHEDULE ON SHEET S-601.
- GRADE BEAM INDICATED THUS GB# ON PLAN, REFER TO BEAM SCHEDULE ON SHEET S-601.
- SHEARWALL INDICATED THUS SW# ON PLAN, REFER TO SHEARWALL SCHEDULE ON SHEET S-601.
- SEE TYP EXTERIOR AND INTERIOR CMU WALL REINF DETAILS ON SHEET S-701.
- SEE MECHANICAL AND ELECTRICAL SHEETS FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE SHEET S-701 FOR DETAILS.
- THICKENED SLAB UNDER CMU WALLS NOT SHOWN FOR CLARITY.

FOUNDATION/SLAB PLAN KEY NOTES: (X)

- CONC PAD (ENTRANCE) - SEE ARCH DWGS FOR INFORMATION
- REINF CONC COLUMN
- REINF CONC SLAB-ON-GRADE
- (2)-#13 @ RE-ENTRANT CORNERS - SEE S-701 FOR INFORMATION
- BOLLARD - SEE SECTION 8/S-502
- WALL STIFFENER EACH SIDE OF PEDESTRIAN DOOR AND LOUVER WHERE NO BOTTOM OF SLAB EXIST AT ELEVATION 3000.
- SPACE #13 LONGITUDINAL SLAB REINF @ 200 OC BETWEEN COLUMN LINES 1 & 3 FROM C TO D

FOUNDATION/SLAB PLAN LEGEND:

- REINF CONC SHEAR WALL
- REINF CMU WALL
- CONTROL JOINT



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

APPROVED:
Chin M. [Signature]
A/E DESIGNER OF RECORD

SEAL:

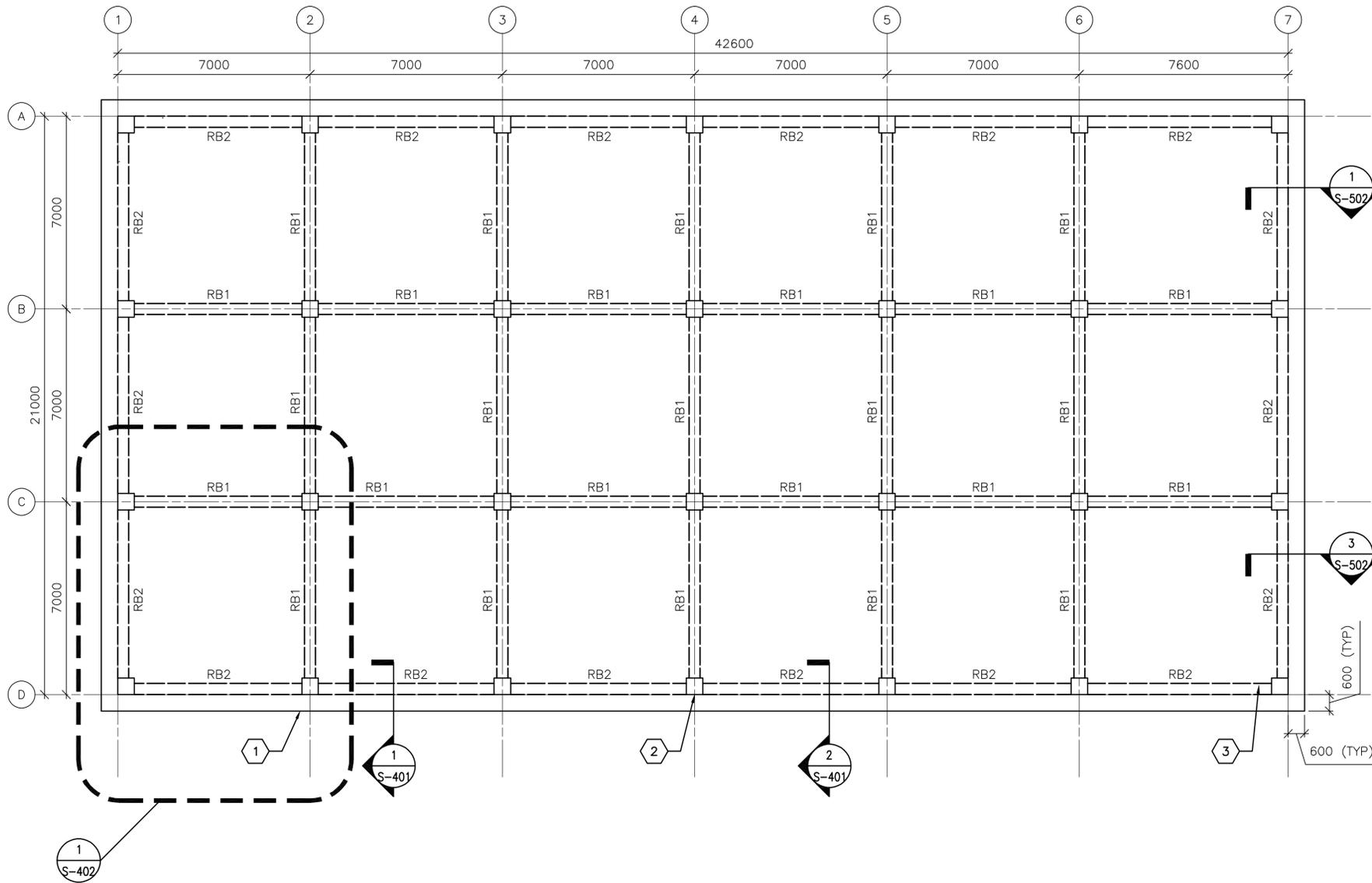


Rev.	Date	Description	Mark	Appr.	Date

Designed by: KMP/MMY	Checked by: CWW	Drawing code: ANASTORS-101P	File name: ANASTORS-101P
Dwn by: RCG	Reviewed by: LHM	Submitted by: BAKER	Plot date: 222220
U.S. ARMY CORPS OF ENGINEERS	AFGHANISTAN ENGINEER DISTRICT	Michael Baker Jr., Inc.	APO AE 96338
AFGHANISTAN ENGINEER DISTRICT	APO AE 96338	A unit of Michael Baker Corporation	100 Ardsley Drive, PA, 15108
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AFGHAN NATIONAL ARMY	RMTC STORAGE	FOUNDATION/SLAB PLAN
REGIONAL MILITARY TRAINING CENTER		
STANDARD DESIGN		

Sheet reference number:
S-101



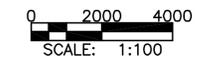
1 ROOF FRAMING PLAN
S-102 SCALE: 1:100

ROOF FRAMING PLAN NOTES:

1. REFER TO SHEETS S-001 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
2. TOP OF SLAB ELEVATION = 5600 UNLESS NOTED OTHERWISE.
3. ROOF SLAB IS 250 WITH #16 @ 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 OVERBUILD 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:

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



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

APPROVED:

Chris White

A/E DESIGNER OF RECORD

SEAL:



Rev.	Date	Description	Appr.	Date

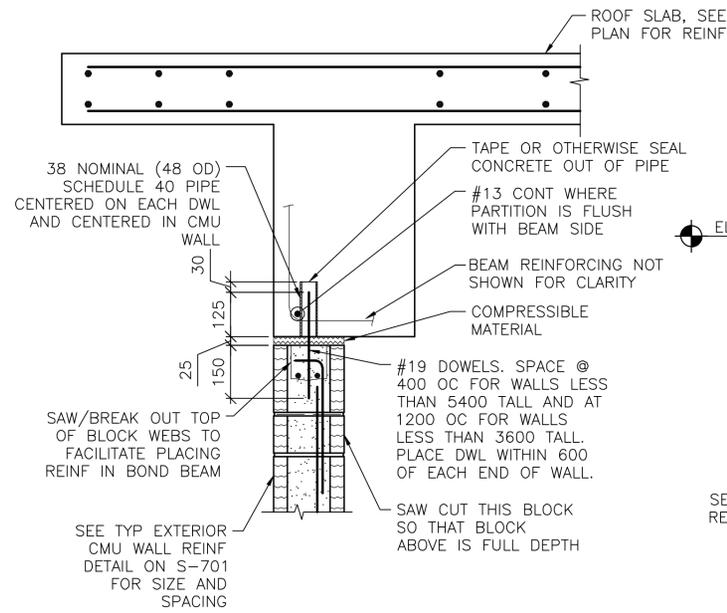
Designed by:	KMP/MMY	Checked by:	CWW
Dwn by:	RCG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANASTOS-102RP
Date:	2/23/10	File name:	ANASTOS-102RP
Design file no.:		Plot date:	2/23/2010
		Plot scale:	1:100

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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

RMTC STORAGE

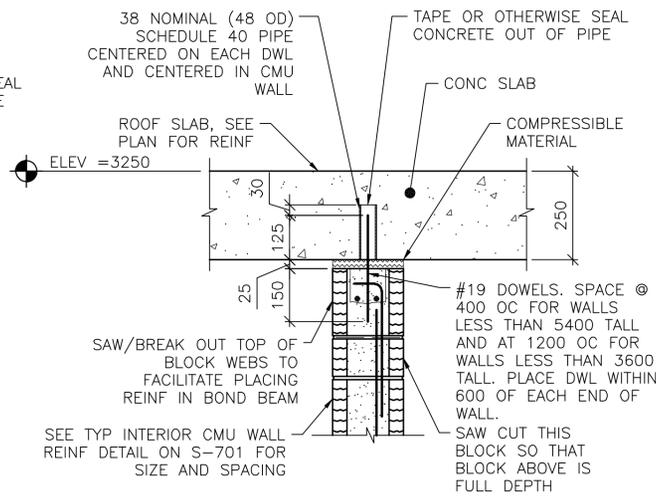
ROOF FRAMING PLAN

Sheet reference number:
S-102



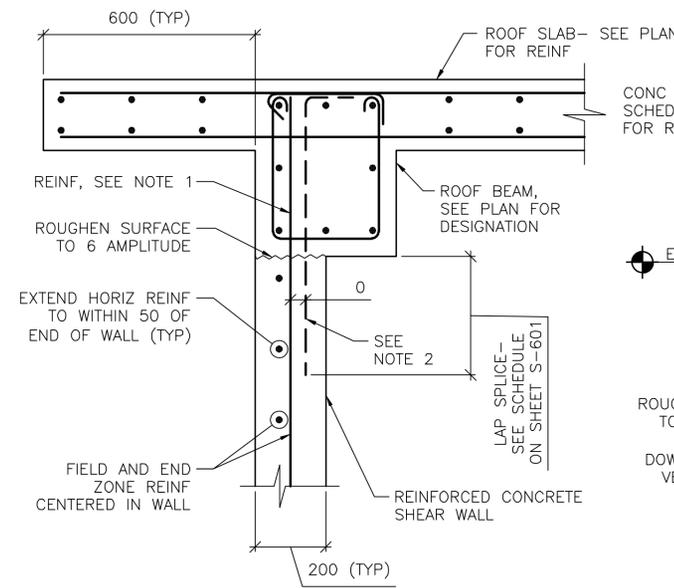
NOTES:
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION
S-102 SCALE: 1:10



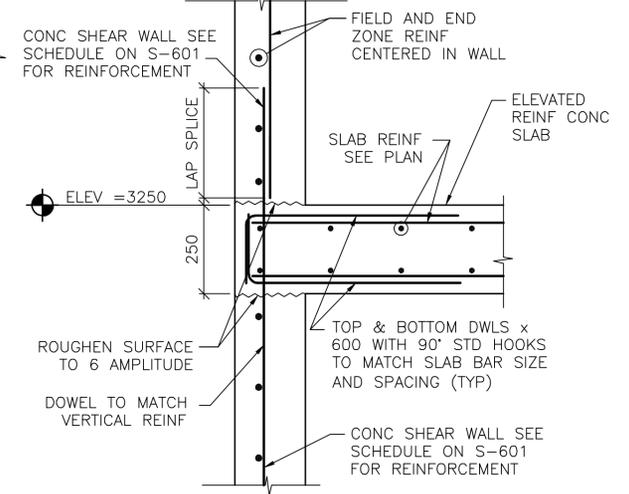
NOTES:
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.
2. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION
S-402 SCALE: 1:10

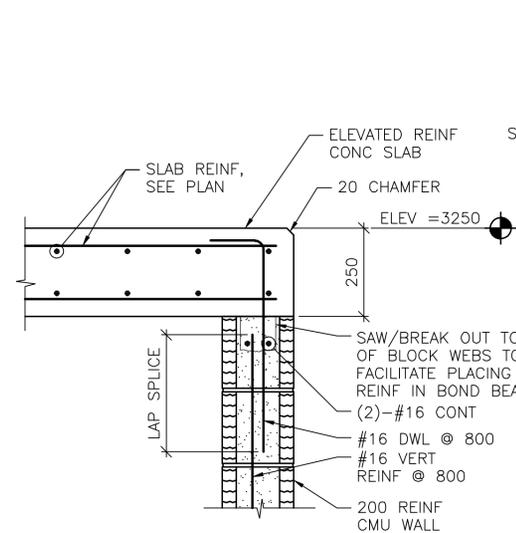


NOTES:
1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.
2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.
3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE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

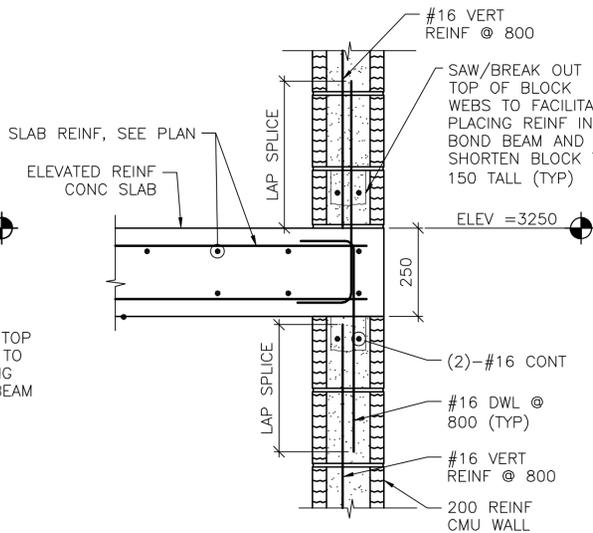
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S-102 SCALE: 1:10



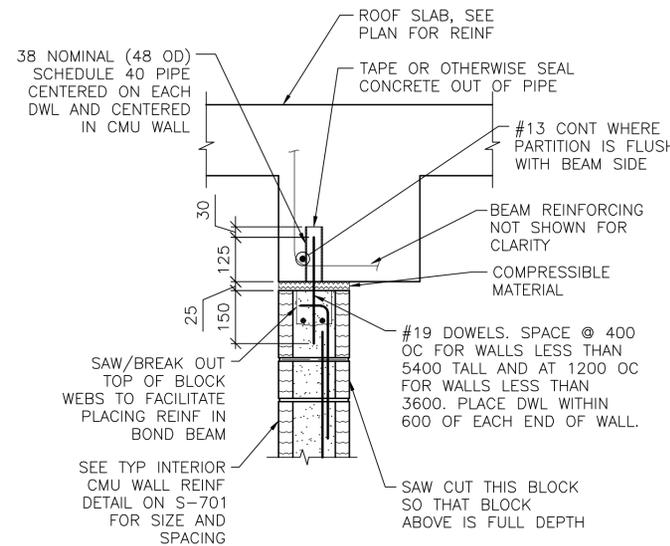
4 SECTION
S-402 SCALE: 1:10



5 SECTION
S-402 SCALE: 1:10

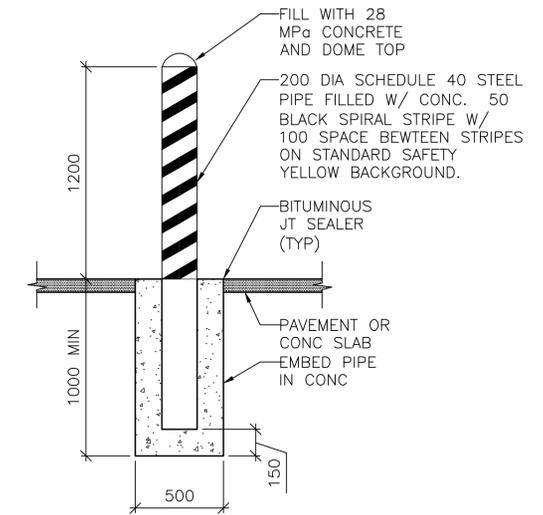


6 SECTION
S-402 SCALE: 1:10



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

7 SECTION
S-102 SCALE: 1:10

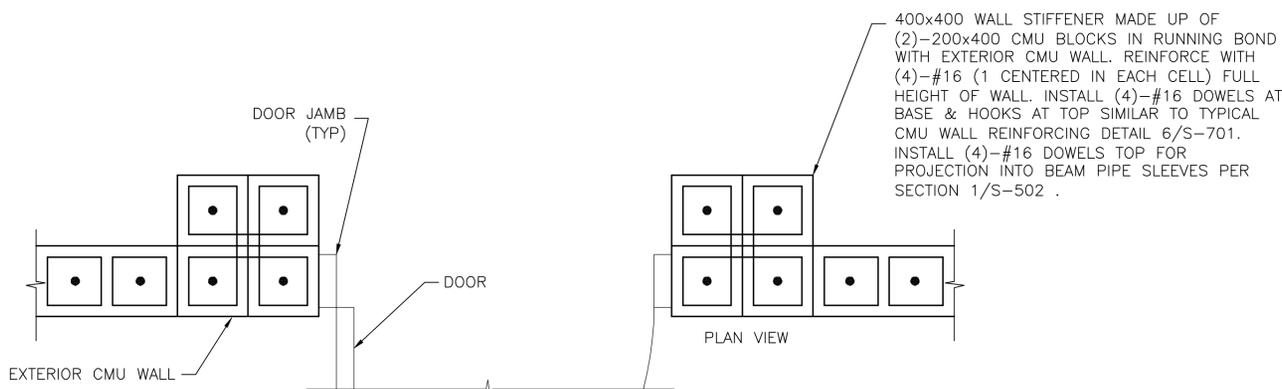


8 SECTION AT BOLLARD
S-101 SCALE: 1:20

0 400 800
SCALE: 1:20

0 200 400
SCALE: 1:10

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9 DETAIL
S-101 SCALE: 1:10



Rev.	Date	Description	Appr.	Date
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		Drawing code:		
		File name: ANASTORA-502C		
		Plot date: 2/23/10		
		Plot scale: xx		

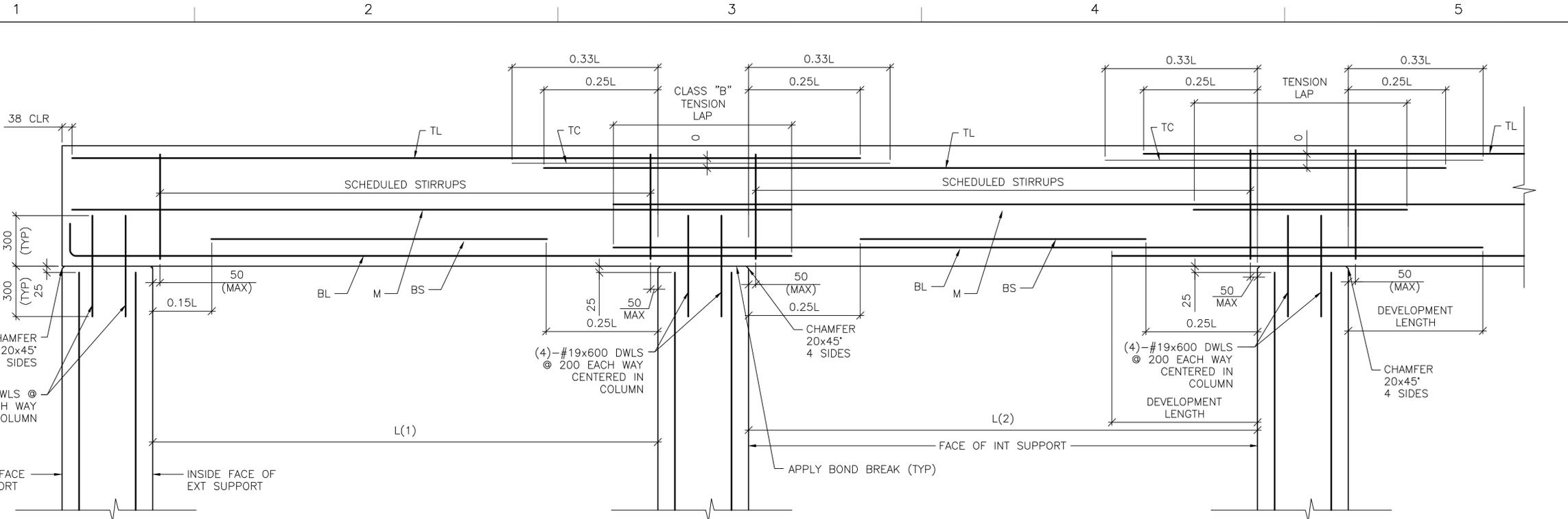
Designed by:	KMP/MMY	Checked by:	CGW
Dwn by:	RCG	Reviewed by:	LHM
Submitted by:	BAKER		

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FRAMING SECTIONS

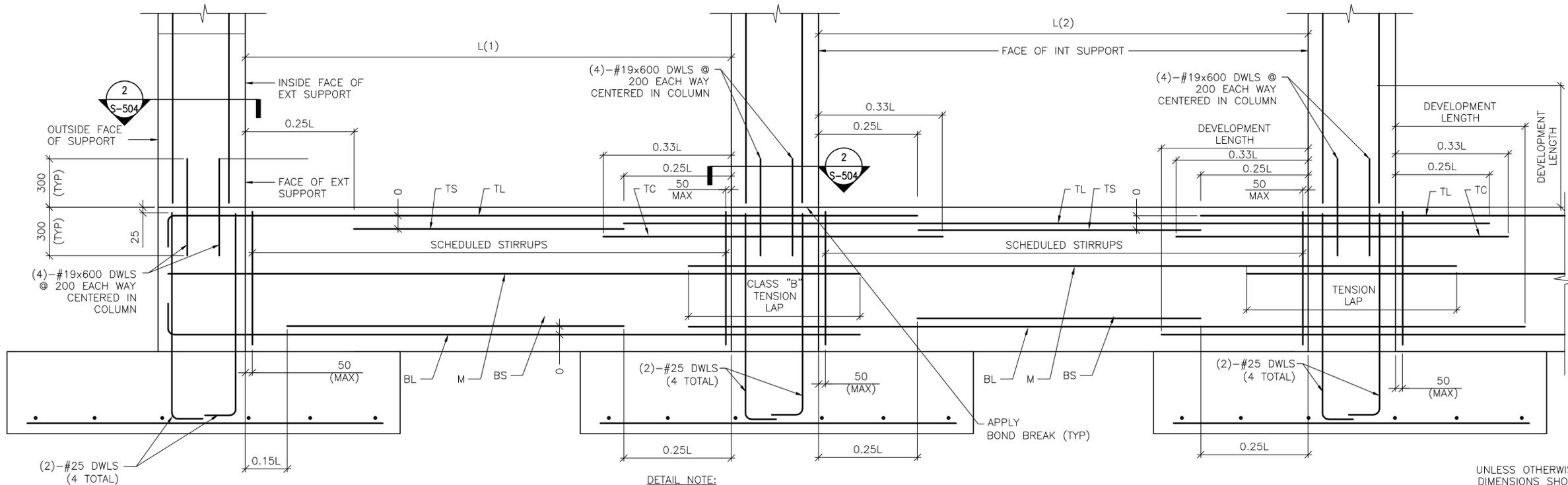
APPROVED:
Chris M. [Signature]
A/E DESIGNER OF RECORD
SEAL:

Sheet reference number:
S-502



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

1
S-503
ROOF BEAM REINFORCING DETAIL
 SCALE: NTS



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

2
S-503
GRADE BEAM REINFORCING DETAIL
 SCALE: NTS

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

APPROVED:
Chris M. [Signature]
 A/E DESIGNER OF RECORD
 SEAL:

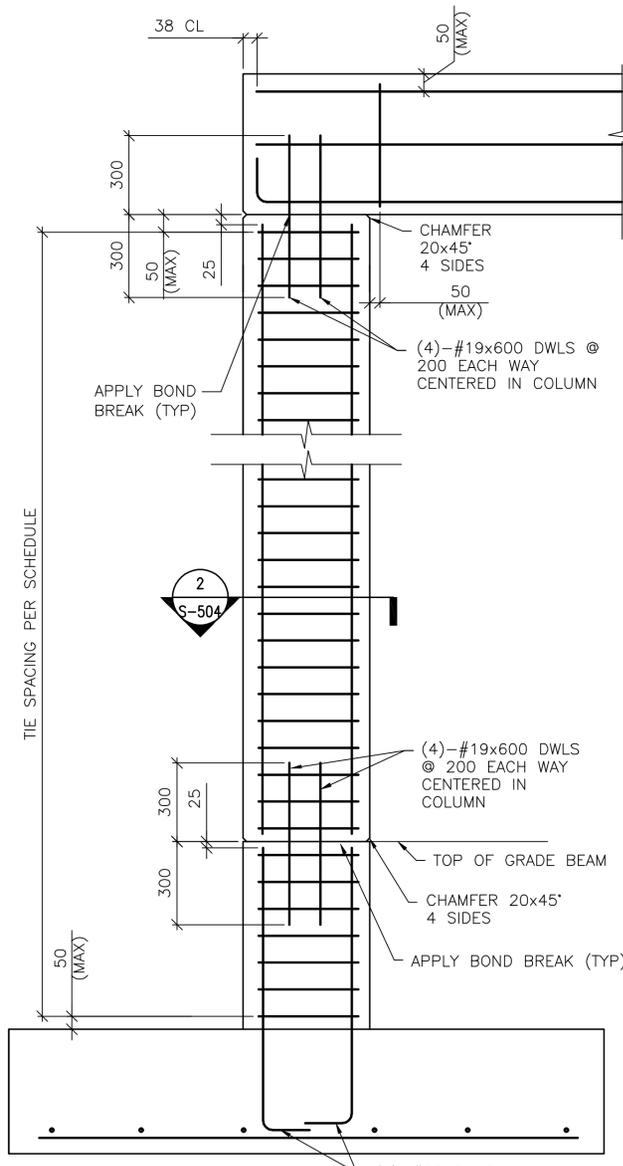


Rev.	Date	Description

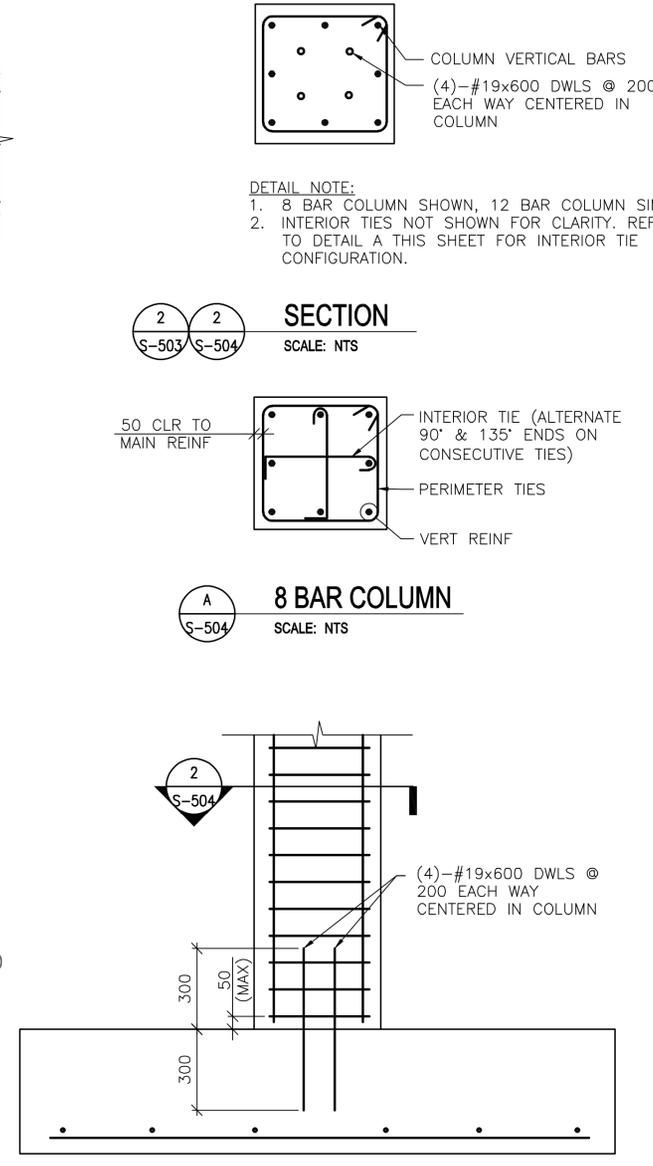
Designed by:	KMP/MMY	Checked by:	RCG/CWW
Dwn by:	RCG	Reviewed by:	LHM
Submitted by:	BAKER	File name:	ANASTORS.000T
U.S. ARMY CORPS OF ENGINEERS	AFGHANISTAN ENGINEER DISTRICT	Plot date:	2/23/10
Michael Baker Jr., Inc.	APO AE 96338	Plot scale:	XX
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 STANDARD DESIGN
 RMTc STORAGE
 BEAM & COLUMN DETAILS

Sheet reference number:
S-503

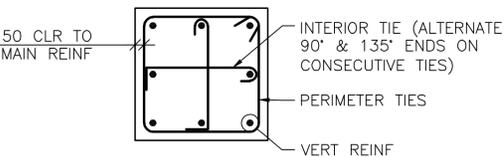


1
S-504
1-STORY COLUMN REINF DETAILS
SCALE: NTS
(WITH GRADE BEAM)

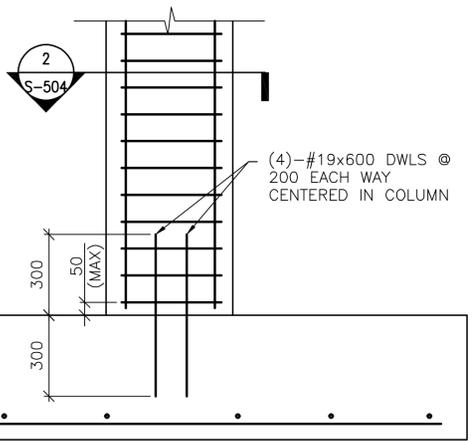


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S-504
1-STORY COLUMN REINF DETAILS
SCALE: NTS
(WITHOUT GRADE BEAM)

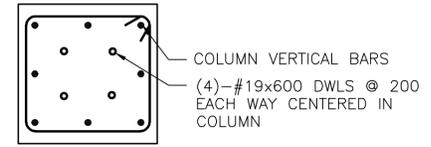
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S-503
SECTION
SCALE: NTS



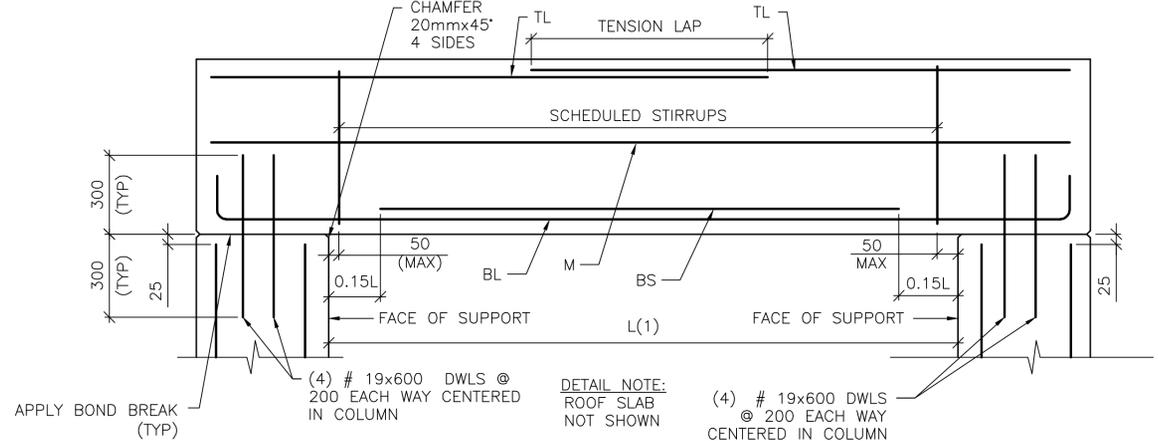
A
S-504
8 BAR COLUMN
SCALE: NTS



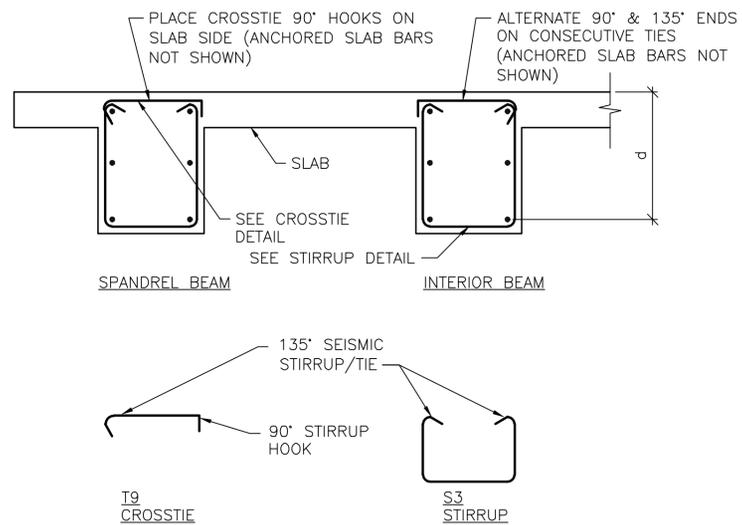
DETAIL NOTE:
1. ONLY COLUMN CORNER BARS ARE SHOWN



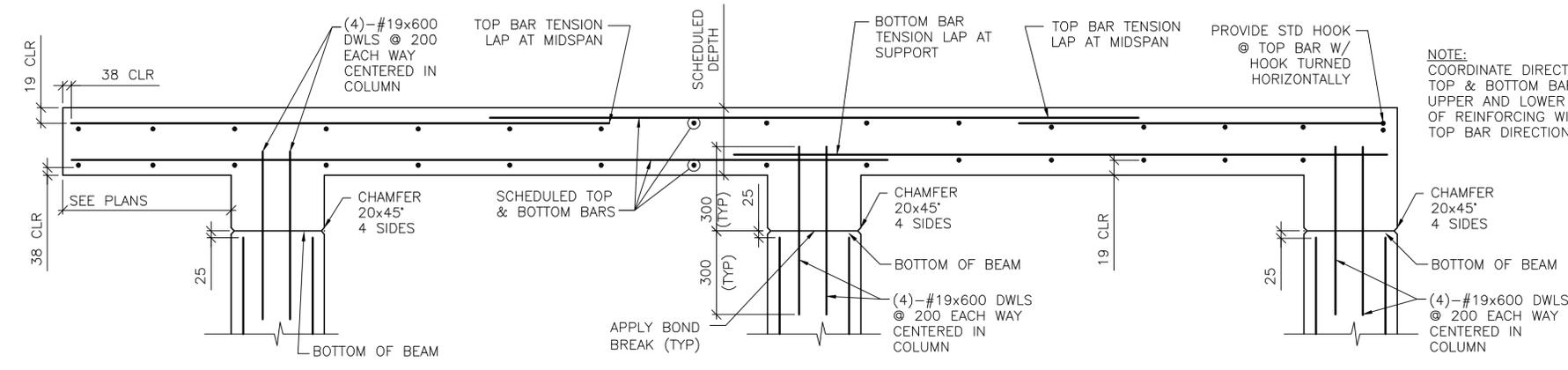
DETAIL NOTE:
1. 8 BAR COLUMN SHOWN, 12 BAR COLUMN SIMILAR
2. INTERIOR TIES NOT SHOWN FOR CLARITY. REFER TO DETAIL A THIS SHEET FOR INTERIOR TIE CONFIGURATION.



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



B
S-504
BEAM REINFORCEMENT DETAILS
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 ON DRAWINGS ARE IN MILLIMETERS (mm)

APPROVED:
Chin Muro
A/E DESIGNER OF RECORD

SEAL:

REGISTERED PROFESSIONAL ENGINEER
No. 27141
CHIN MURO
STATE OF GEORGIA



Rev.	Date	Description
1	2/23/10	Design file no.
2		Design file no.
3		Design file no.
4		Design file no.
5		Design file no.
6		Design file no.
7		Design file no.
8		Design file no.
9		Design file no.
10		Design file no.

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

Date: 2/23/10
Design file no.:
Drawing code: ANASTOS-S0407
File name: ANASTOS-S0407
Plot date: 2/23/2010
Plot scale: 1:1

U.S. ARMY CORPS OF ENGINEERS
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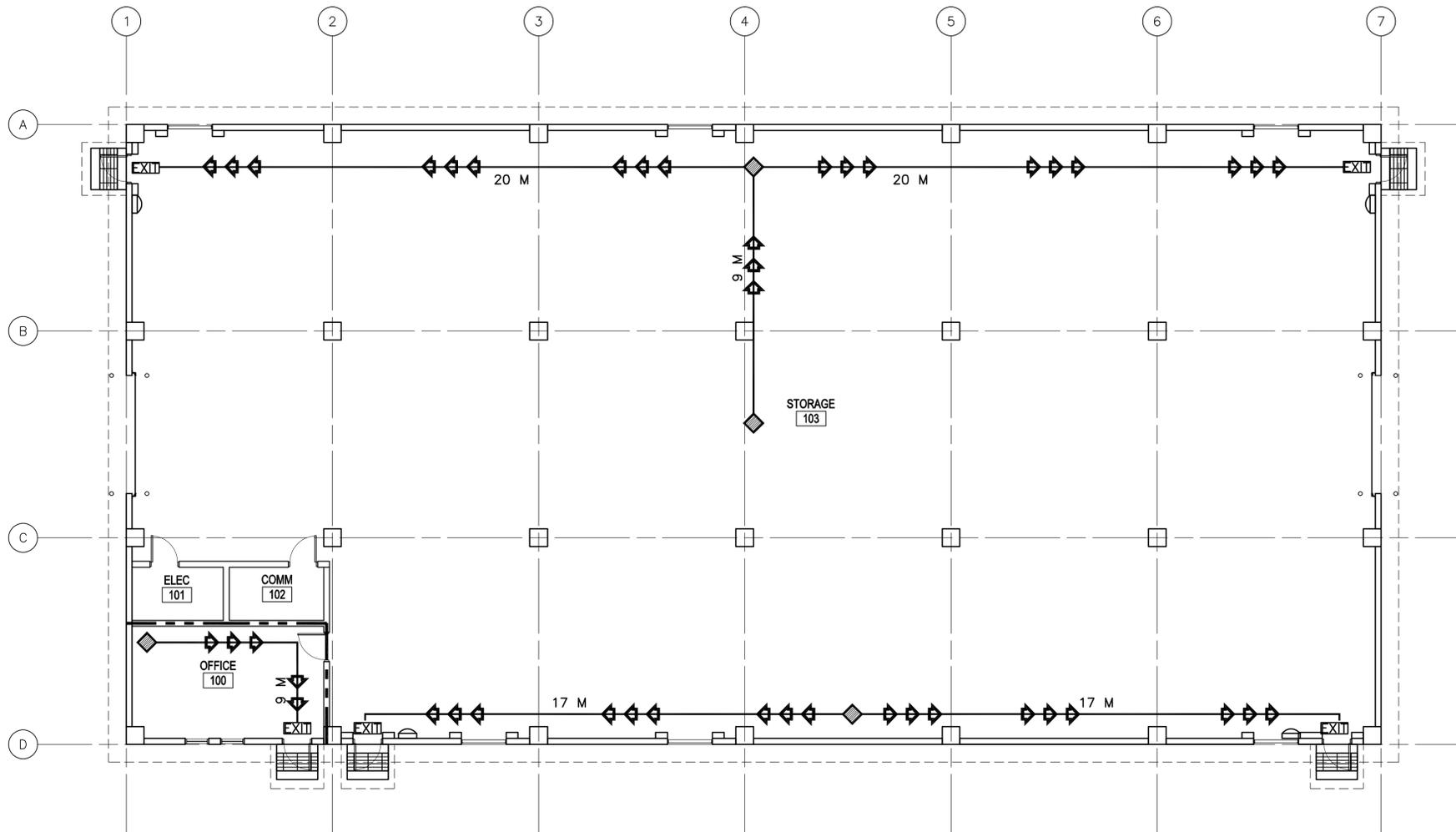
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STANDARD DESIGN

RMTC STORAGE

BEAM & COLUMN DETAILS

Sheet reference number:
S-504



1 LIFE SAFETY PLAN
A-001 SCALE: 1:100

- LEGEND:**
- ▶▶▶ DENOTES PATHS OF EXIT TRAVEL
 - EXIT DENOTES DOOR AS AN EMERGENCY EXIT
 - ◆ DENOTES STARTING POINT FOR TRAVEL DISTANCE
 - ◡ DENOTES FIRE EXTINGUISHER LOCATIONS
 - (1) HOUR RATED WALL
 - - - (2) HOUR RATED WALL
 - (3) HOUR RATED WALL

CODE ANALYSIS:

1. REFERENCES:
2006 INTERNATIONAL BUILDING CODE (2006 IBC)
2006 LIFE SAFETY CODE (2006 NFPA 101)
 2. IBC OCCUPANCY CLASSIFICATION:
GROUP S-1
(STORAGE, ORDINARY HAZARD NFPA 101 6.1.13.1 & 6.2.2 AND CHAPTER 42)
 3. TYPE OF CONSTRUCTION (IBC): TYPE II-B (UNPROTECTED/NONSPRINKLERED)
 4. IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:
GROUP S-1
ALLOWABLE AREA: 1625 SM
ALLOWABLE HEIGHT: 2 STORIES (16 M)

GROUP S-1
PROPOSED AREA: 895 SM
PROPOSED HEIGHT: 1 STORY (<16 M)
 5. IBC TABLE 601 & 602: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS FOR TYPE II-B
- | BUILDING ELEMENT | RATING (HOUR) | REFERENCE |
|---|---------------|-----------|
| STRUCTURAL FRAME (COLUMNS, GIRDERS & TRUSSES) | 0 | TABLE 601 |
| BEARING WALLS EXTERIOR | 0 | TABLE 601 |
| BEARING WALLS INTERIOR | 0 | TABLE 601 |
| NONBEARING WALLS & PARTITIONS INTERIOR | 0 | TABLE 601 |
| FLOOR CONSTRUCTION | 0 | TABLE 601 |
| ROOF CONSTRUCTION | 0 | TABLE 601 |
| EXTERIOR WALL | 0 | TABLE 602 |
6. IBC TABLE 803.5 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR S-1 OCCUPANCY/NONSPRINKLERED
- | GROUP | EXIT ENCLOSURES AND EXIT PASSAGEWAY | CORRIDORS | ROOMS AND ENCLOSED SPACES |
|-------|-------------------------------------|-----------|---------------------------|
| S | A | A | B |
7. NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD
STORAGE = N/A
NFPA 101 42.1.7: USE THE PROBABLE POPULATION: 5
 8. NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY
STORAGE = 5 MM PER OCCUPANT

REQUIRED: 25 MM (5 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: 4500 MM: (5) 900 MM DOORS
 9. NFPA 101 PARAGRAPH 42.2.6 AND TABLE 42.2.6 - EXIT ACCESS TRAVEL DISTANCE
REQUIRED: 61 METERS
PROPOSED: 20 METERS
 10. NFPA 101 PARAGRAPH 42.3.6 - CORRIDORS
CORRIDORS ARE NOT REQUIRED AS DOORS EXIT DIRECTLY TO OUTSIDE
 11. NFPA 101 PARAGRAPH 42.2.4.1 AND 7.4.1.1 - MINIMUM NUMBER OF EXITS
REQUIRED: 1 MINIMUM
PROPOSED: 4 EXIT
 12. NFPA 101, TABLE 6.1.14.4.1 - REQUIRED SEPARATION OF OCCUPANCIES
BUSINESS TO ORDINARY HAZARD STORAGE
REQUIRED: 2 HOUR
PROVIDED: 2 HOUR
 13. NFPA 101, TABLE 8.3.4.2 - OPENING PROTECTIVE
REQUIRED: 90 MINUTE DOOR IN 2 HOUR FIRE BARRIER
PROVIDED: 90 MINUTE DOOR IN 2 HOUR FIRE BARRIER

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED
SCALE: 1:100

APPROVED: *X. R. Clif*
A/E DESIGNER OF RECORD
SEAL:
STATE OF SOUTH CAROLINA
KEVIN R. CHARPIN
N. Charleston, SC
6374
REGISTERED ARCHITECT



Rev.	Date	Description
0	2/23/10	Design file no.

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

Date: 2/23/10
Design file no.:
Drawing code: ANASTORA-001SP
File name: ANASTORA-001SP
Plot date: 2/23/2010
Plot scale: 1:100

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RMTC STORAGE
LIFE SAFETY PLAN

Sheet reference number:
A-001

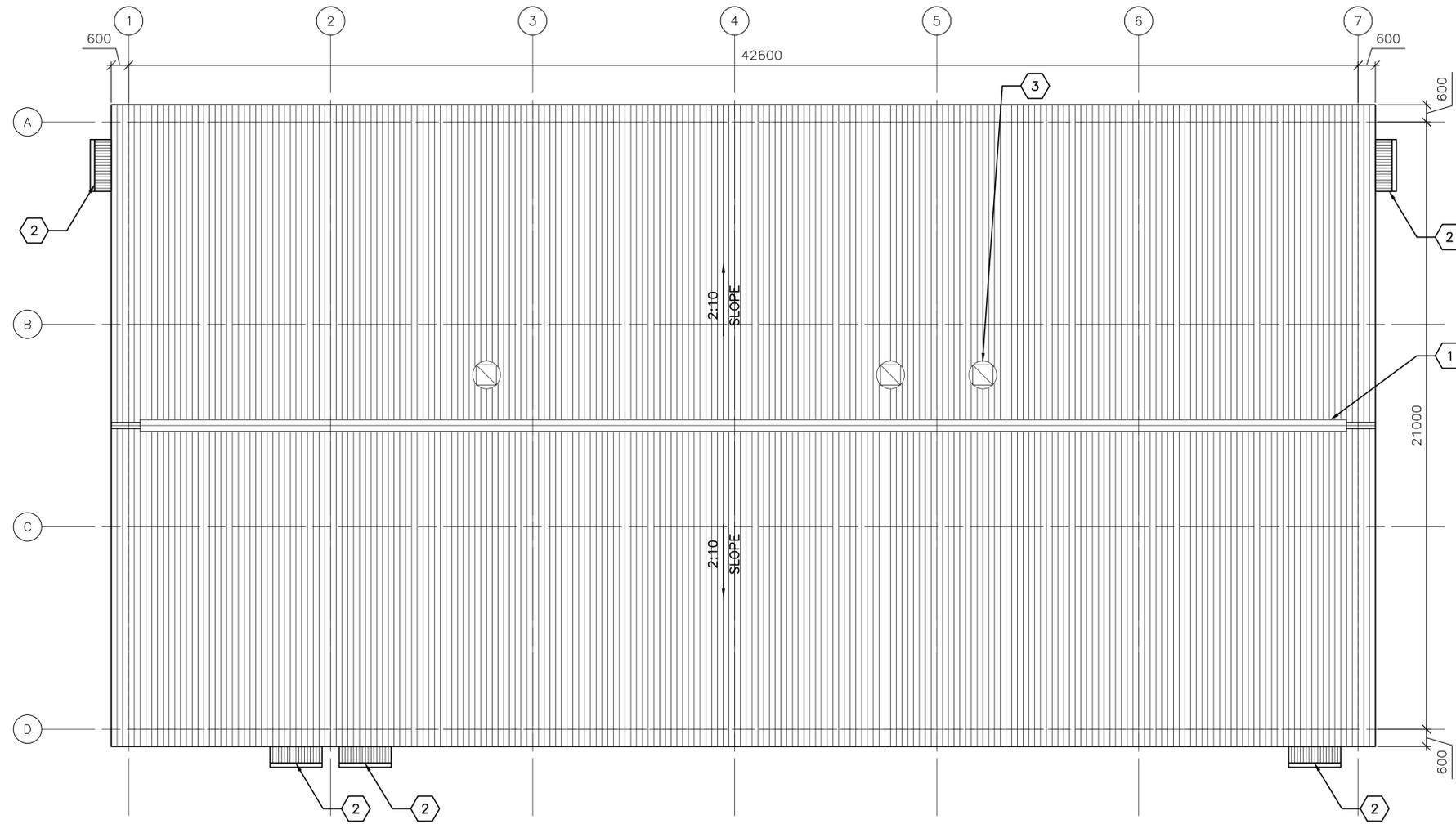
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2

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4

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1
A-102
ROOF PLAN
SCALE: 1:100

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. UNLESS OTHERWISE NOTED, NOTES, DETAILS OR FEATURES INDICATED FOR ONE CONDITION SHALL BE APPLICABLE FOR ALL ALIKE AND SIMILAR CONDITIONS.
- C. STOCKPILING OF MATERIALS, EQUIPMENT AND ANY OTHER ITEMS ON THE ROOF IS PROHIBITED.
- D. ROOFS SHALL BE CORRUGATED METAL ROOF PANELS ON COLD-FORMED METAL FRAMING ON CONCRETE SLAB.



Rev.	Date	Description
0		

KEY NOTES:

- 1. CONTINUOUS METAL RIDGE VENT SEE DETAIL 4/A-501.
- 2. CANOPY - SEE DETAIL 2/A-504.
- 3. EXHAUST FAN - SEE SHEET M-101.

Designed by: KRC	Cad by: NLJ	Rev.:	0
Dwn by: EBB	Reviewed by: LHM	Date:	2/23/10
Submitted by: BAKER	File name: ANASTORA-102RP	Design file no.:	
	Plot date: 2/23/2010	Drawing code:	
	Plot scale: 1:100		

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

RMTc STORAGE
ROOF PLAN

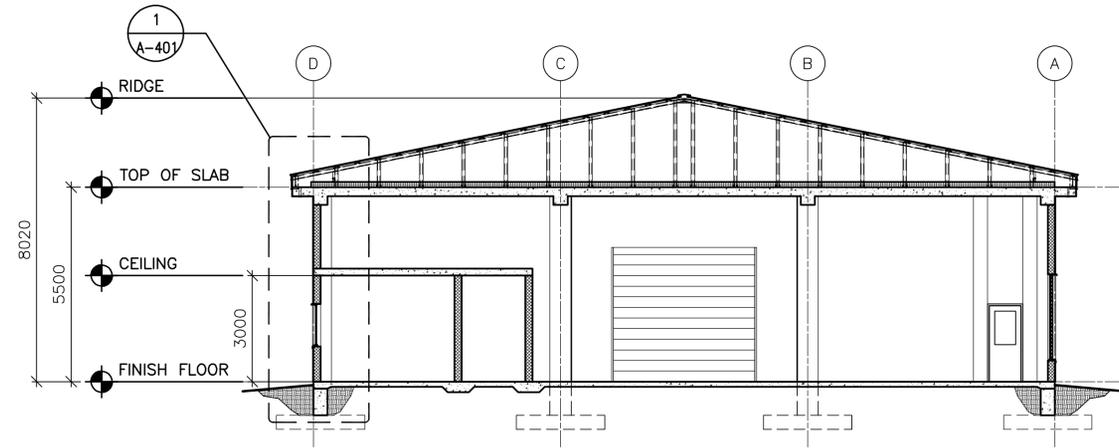
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X. R. Chafin
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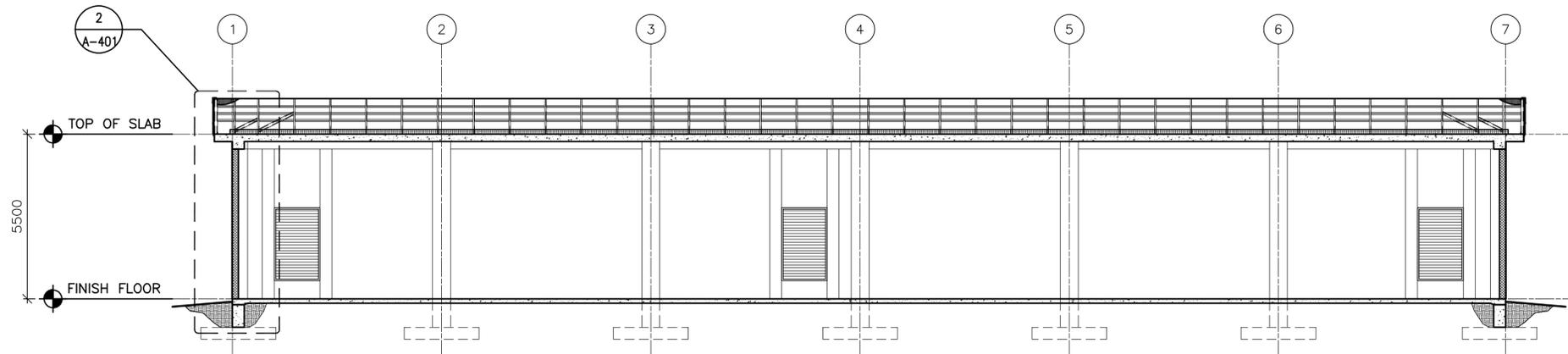
LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

0 2000 4000
SCALE: 1:100

Sheet reference number:
A-102

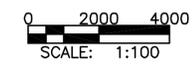


1 BUILDING SECTION
A-301 SCALE: 1:100



2 BUILDING SECTION
A-301 SCALE: 1:100

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



APPROVED:
K. R. Charn
A/E DESIGNER OF RECORD



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Dwn by: EBB
Cld by: NLJ
Reviewed by: LHM
Submitted by: BAKER

Date: 2/23/10
Design file no.:
Drawing code: ANASTORA-301B8
File name: ANASTORA-301B8
Plot date: 2/23/2010
Plot scale: x:0

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

RMTC STORAGE

BUILDING SECTIONS

Sheet reference number:
A-301

1

2

3

4

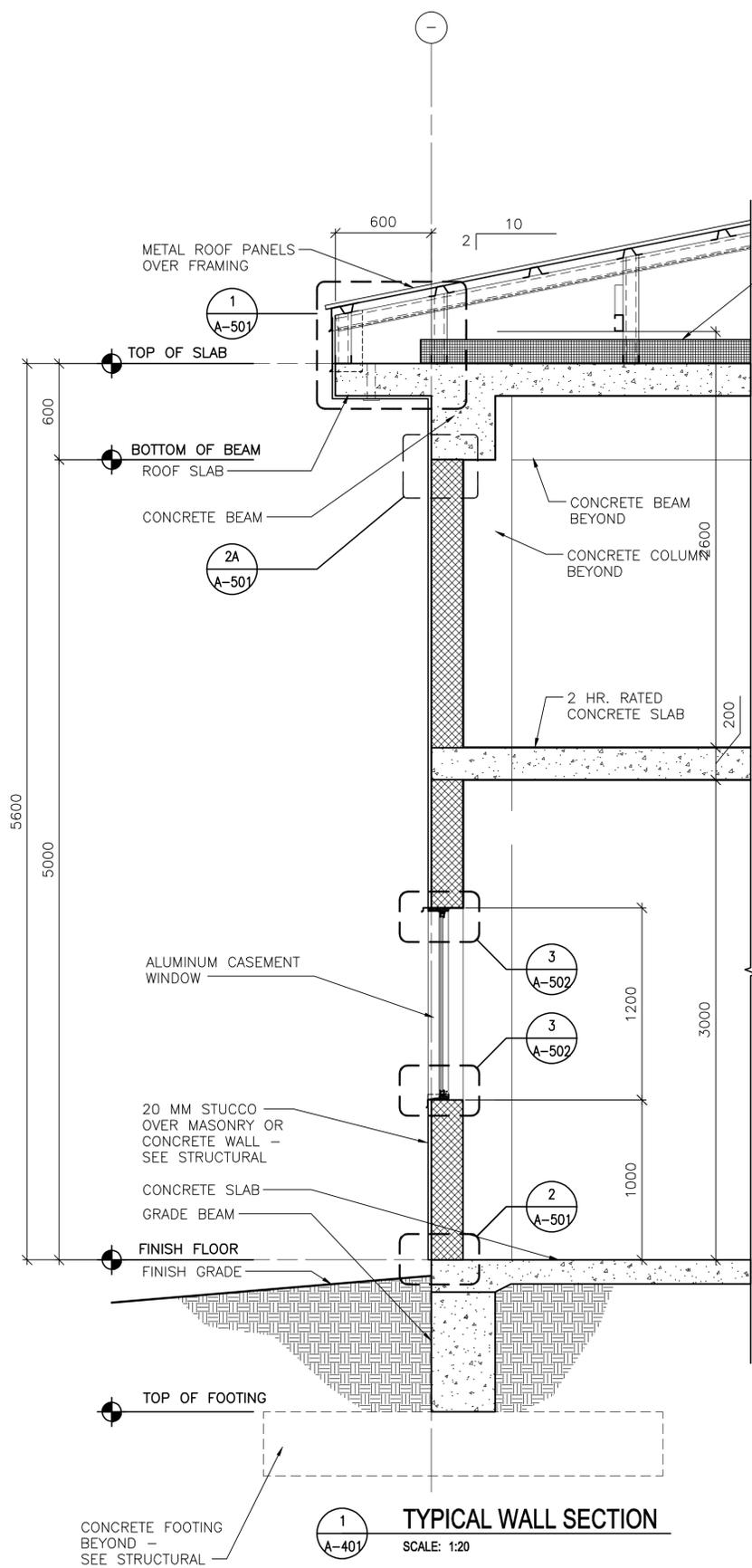
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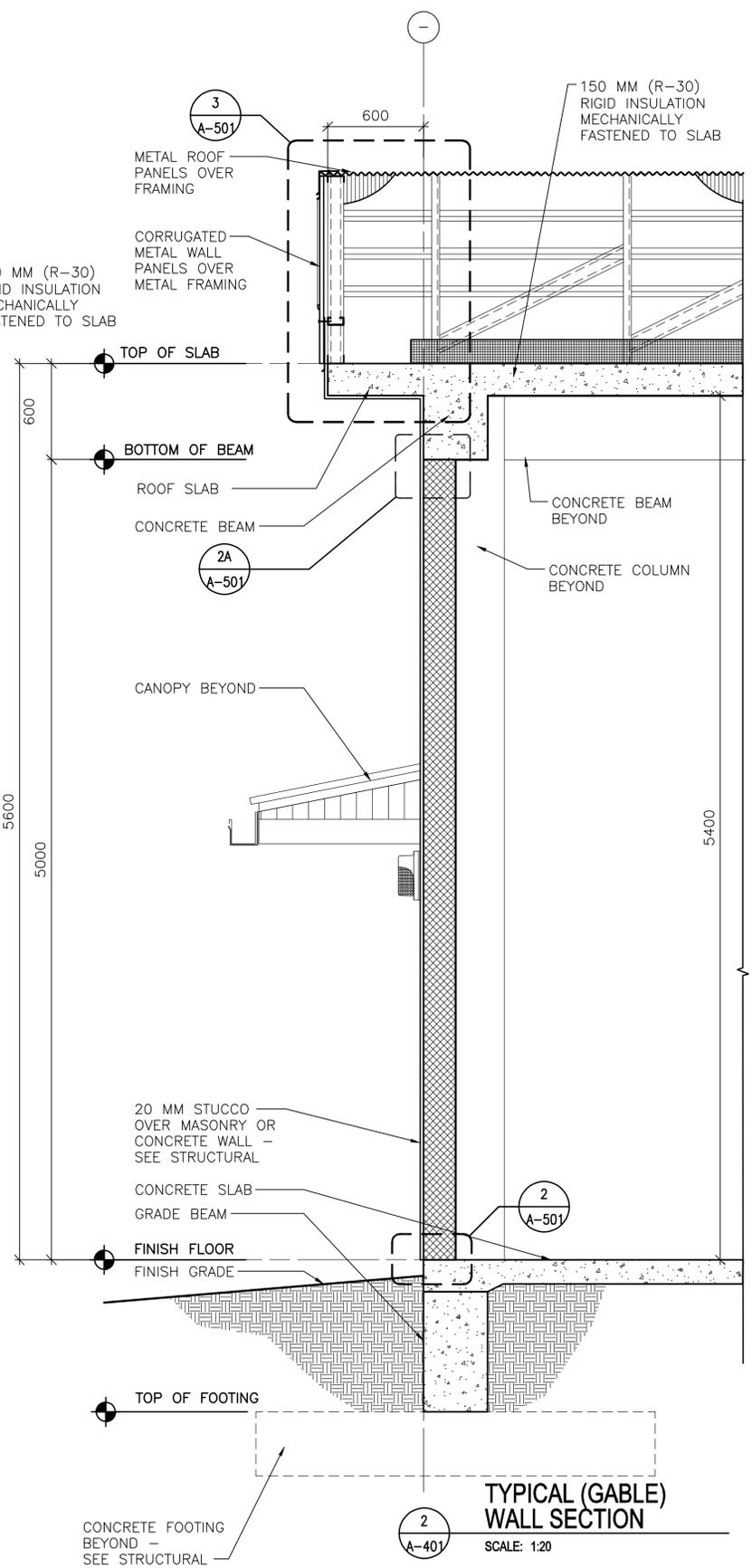
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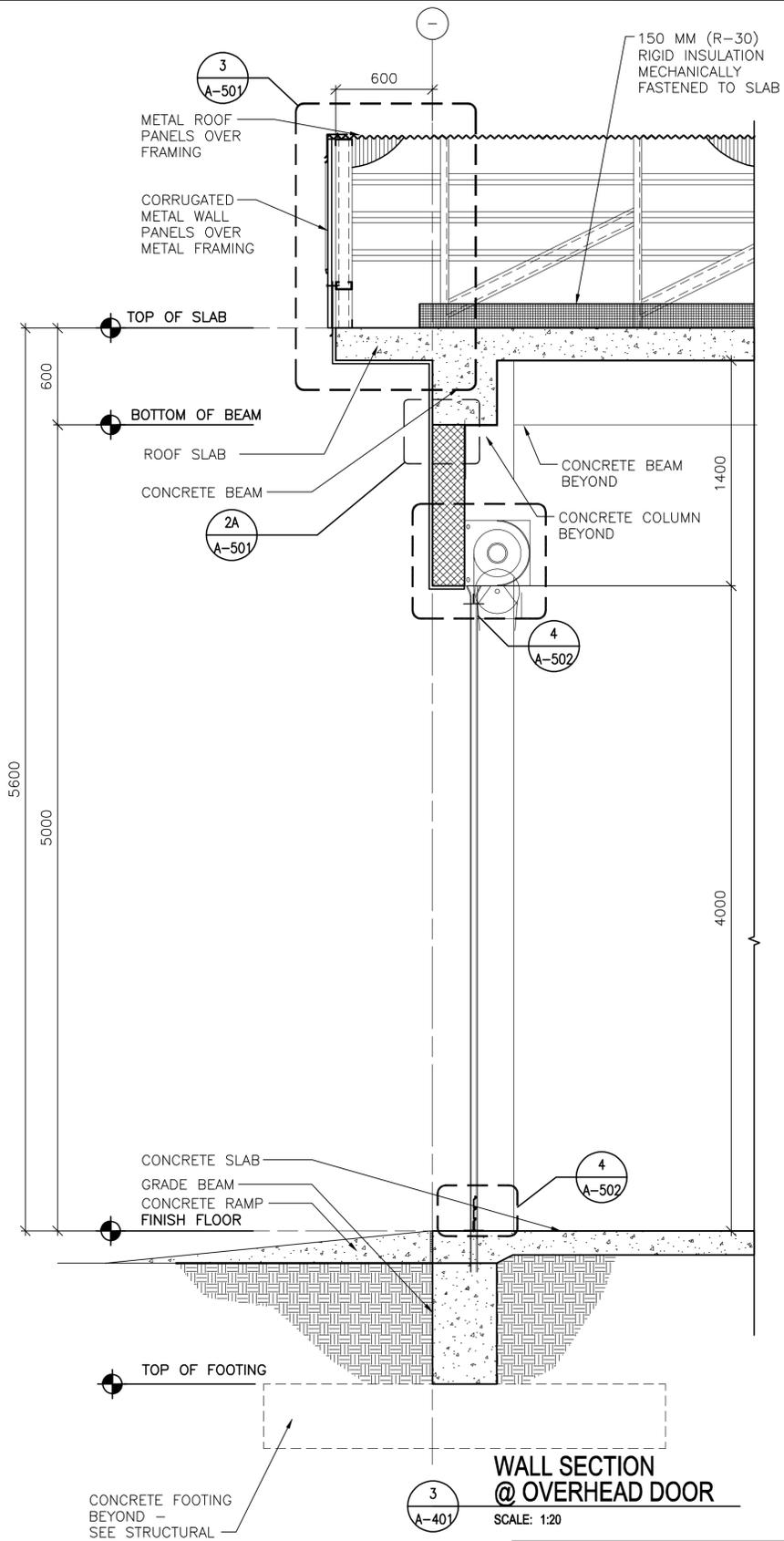
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TYPICAL WALL SECTION

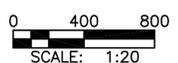


TYPICAL (GABLE) WALL SECTION



WALL SECTION @ OVERHEAD DOOR

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



APPROVED:
X. R. Clif.
A/E DESIGNER OF RECORD

SEAL:

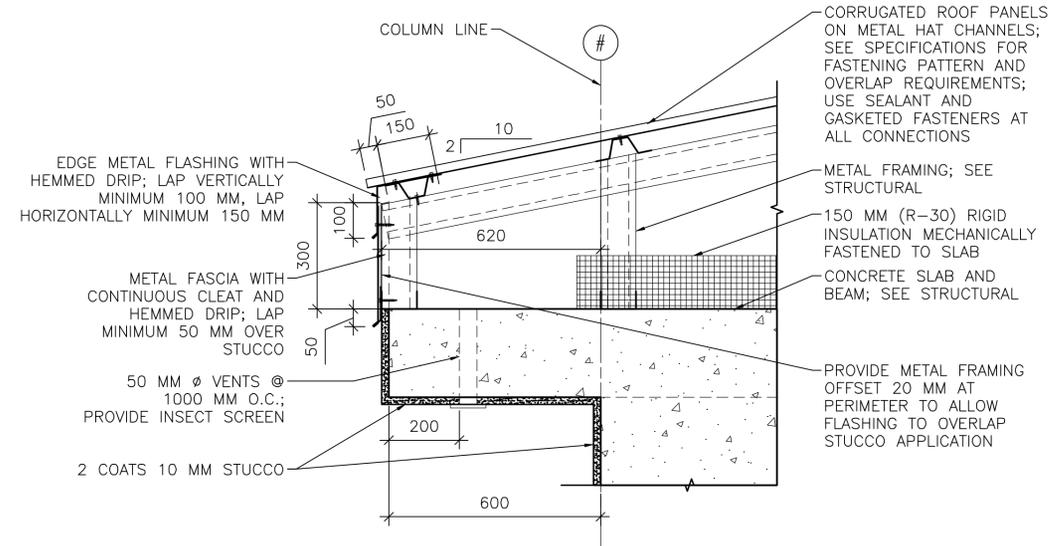


Rev.	Date	Description
0	2/23/10	Design file no.

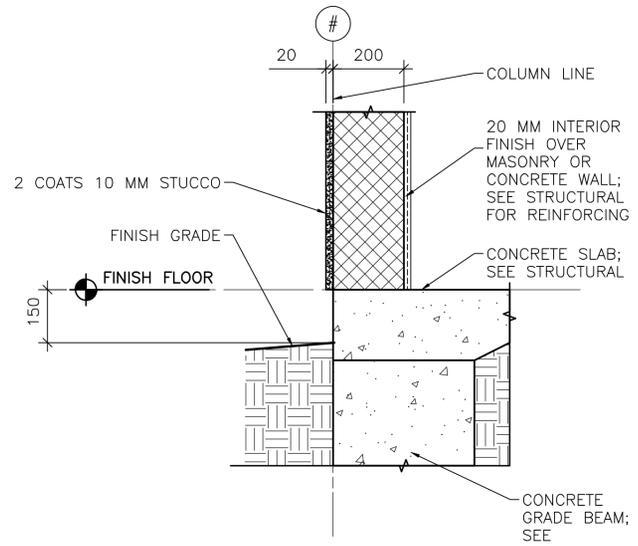
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Dwn by:	EBB	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANASTORA-401WS
		File name:	ANASTORA-401WS
		Plot date:	2/23/2010
		Plot scale:	1:20

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	RMTC STORAGE	WALL SECTIONS
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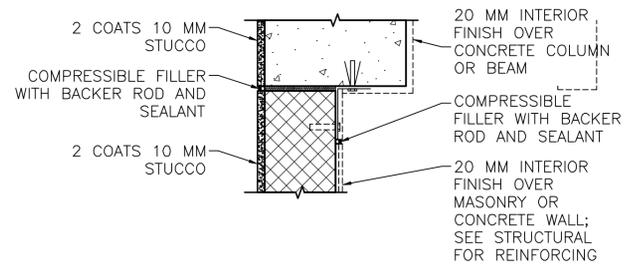
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A-401



1 EAVE DETAIL
SCALE: 1:10

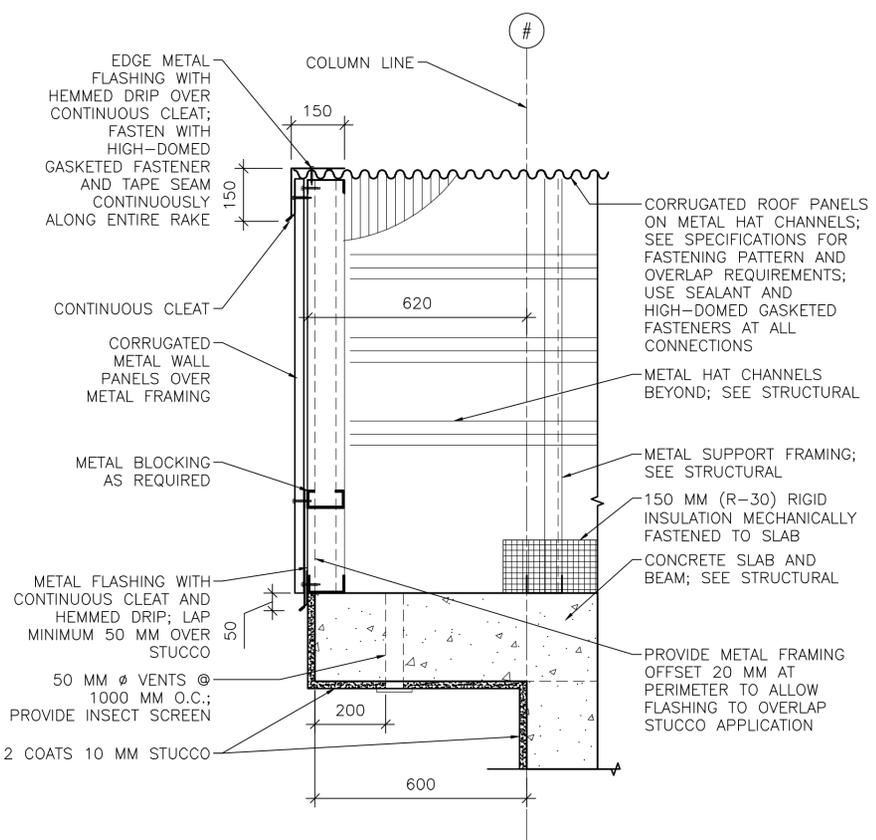


2 STUCCO BASE DETAIL
SCALE: 1:10

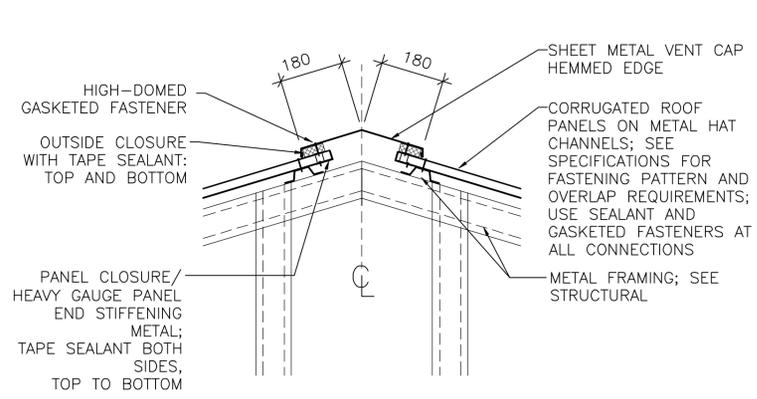


NOTE: DETAIL TYPICAL AT ALL WALL/COLUMN AND WALL/BEAM LOCATIONS. SEE ALTERNATE BRACING DETAIL BELOW 2B/A-501.

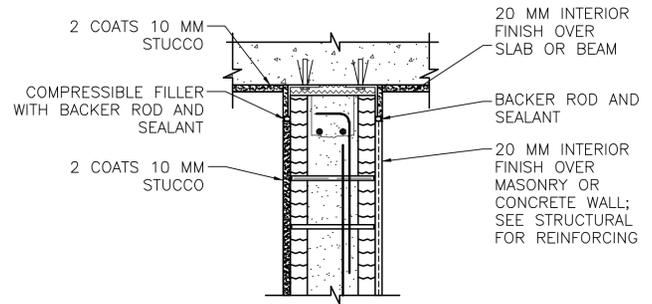
2A STUCCO JOINT DETAIL
SCALE: 1:10



3 RAKE/EAVE DETAIL
SCALE: 1:10



4 RIDGE VENT DETAIL
SCALE: 1:10



2B ALTERNATE BRACING DETAIL
SCALE: 1:10

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

0 200 400
SCALE: 1:10

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

SEAL:



Rev.	Date	Description	Mark	Appr.	Date

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Dwn by: EBB
Cld by: NLJ
Reviewed by: LHM
Submitted by: BAKER

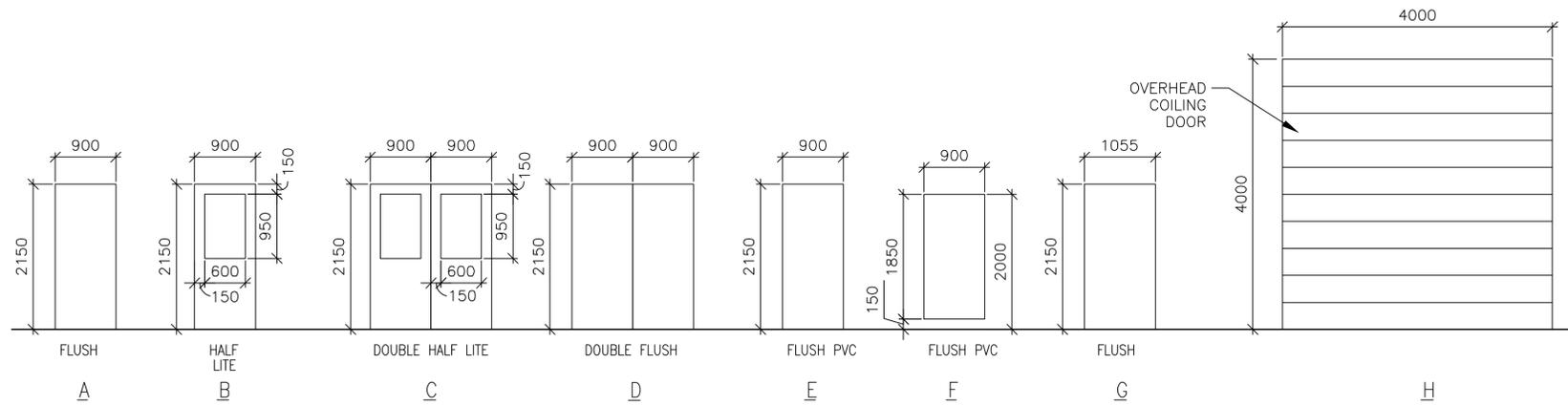
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Design file no.:
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File name: ANASTORA-010T
Plot date: 2/23/2010
Plot scale: x:1

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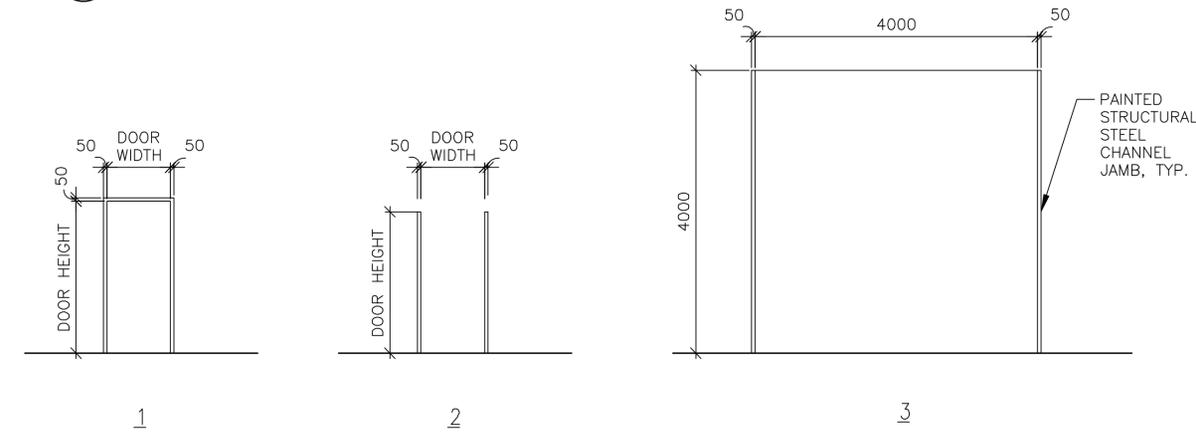
AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

RMTC STORAGE
EXTERIOR
DETAILS

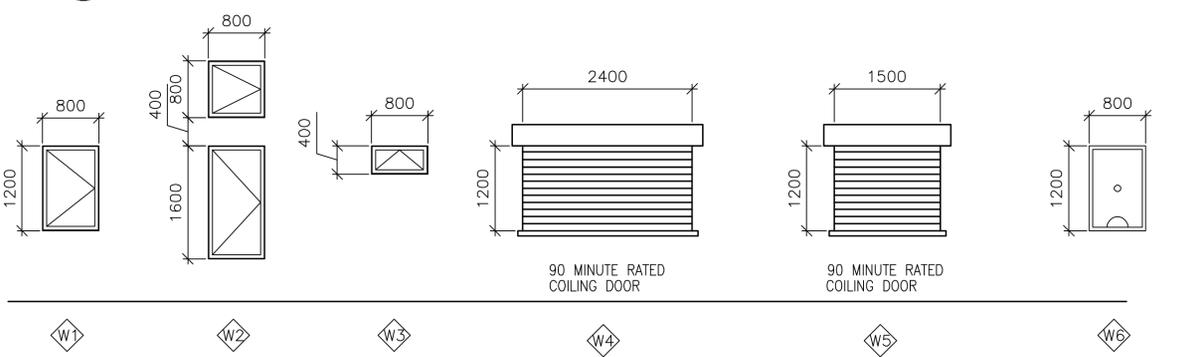
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1 DOOR TYPES
SCALE: 1:50



2 FRAME TYPES
SCALE: 1:50

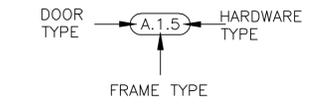


3 WINDOW TYPES
SCALE: 1:50

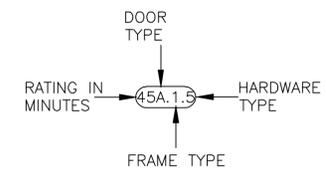
WINDOW TYPE NOTES:

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

4 DOOR TAG
SCALE: NTS



5 RATED DOOR TAG
SCALE: NTS



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



Rev.	Date	Description	Mark	Appr.

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

Date: 2/23/10
Design file no.:
Drawing code: ANASTORA-010SCH
File name: ANASTORA-010SCH
Plot date: 2/22/2010
Plot scale: xx

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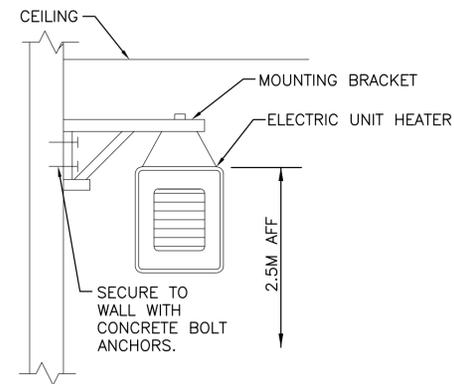
RMTc STORAGE

WINDOW AND DOOR SCHEDULES

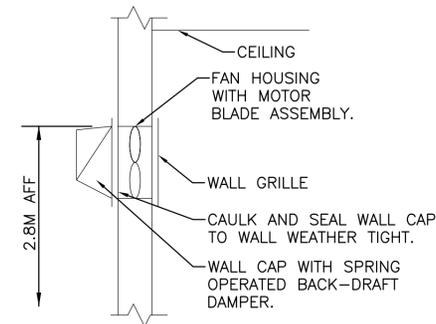
APPROVED: *X. R. Chafin*
A/E DESIGNER OF RECORD
SEAL:
STATE OF SOUTH CAROLINA
KEVIN R. CHAFIN
N. Charleston, SC
6374
REGISTERED ARCHITECT

Sheet reference number:
A-601

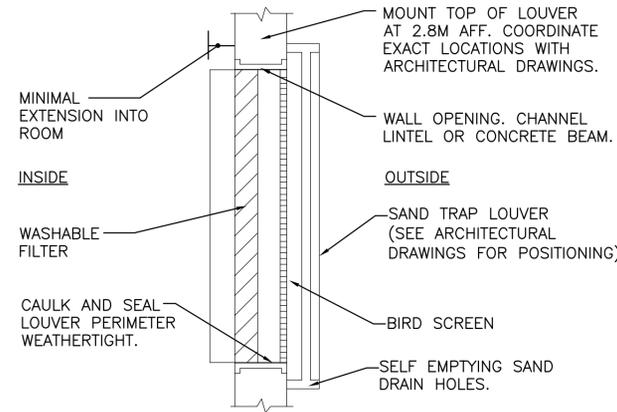
THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/WINDOW/HARDWARE TYPES FOR THE ENTIRE RMTc CONTRACT. NOT ALL DOOR/WINDOW/HARDWARE TYPES ARE USED FOR ANY PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE FLOOR PLAN FOR THE TYPES BEING USED.



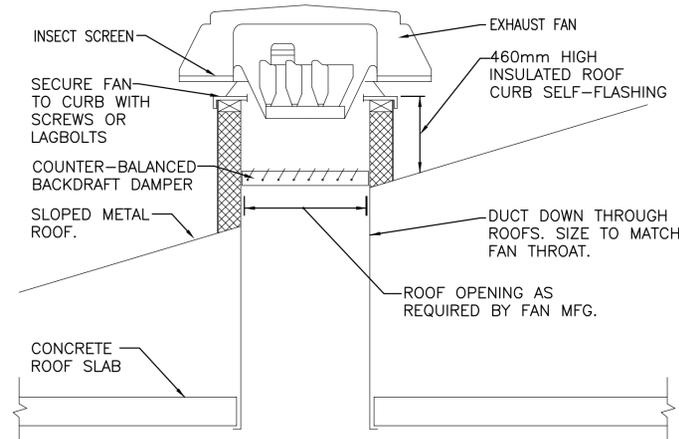
1 ELECTRIC UNIT HEATER MOUNTING DETAIL
M-101/N.T.S.



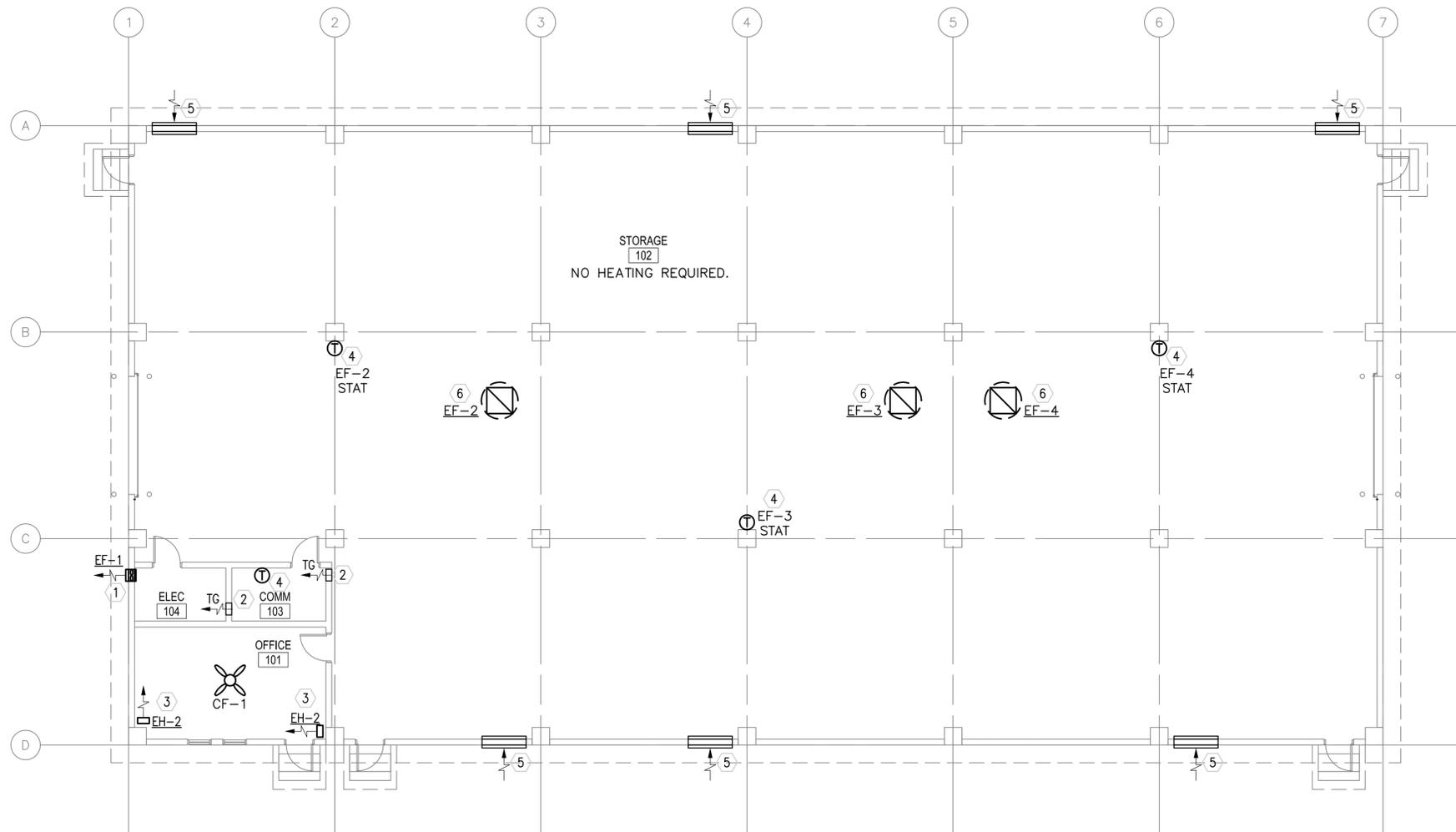
2 WALL EXHAUST FAN DETAIL
M-101/N.T.S.



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



4 ROOF MOUNTED EXHAUST FAN
M-101/N.T.S.



1 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)
- VOLUME DAMPER
- (T) 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:

- WALL EXHAUST FAN WITH SPRING OPERATED BACK-DRAFT DAMPER.
- 200x150 (8x6) TRANSFER GRILLE. MOUNT GRILLE 800mm BELOW CEILING. COORDINATE LOCATION IN FIELD WITH EC.
- UNIT HEATER SECURED FROM WALL. SEE DETAIL THIS SHEET.
- THERMOSTAT MOUNTED 2M (6.5') AFF, STAT SHALL BE INTERLOCKED WITH CORRESPONDING EXHAUST FAN, SET FAN TO ENERGIZE ON RISE IN TEMPERATURE ABOVE 35°C (95°F).
- (2) 1.5x1.2 (60x48) INTAKE LOUVERS 1 STACKED ON TOP OF THE OTHER. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS HOLD BOTTOM LOUVER 600mm AFF. PROVIDE WEATHER PROOF LOUVERS W/ 50mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL 3 THIS SHEET.
- ROOF MOUNTED EXHAUST FAN ON FACTORY CURB. EXTEND DUCT DOWN THROUGH CONCRETE ROOF SLAB. DUCT SIZE SHALL MATCH FAN THROAT.

ELECTRIC UNIT HEATER SCHEDULE					
NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-2	0.200	2.6	38	380/1/50	WALL HUNG

NOTES:

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

EXHAUST FAN SCHEDULE							
NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.045	DIRECT	FRACT	13	220/1/50	W/ STAT
EF-2	ROOF	3.300	DIRECT	3	9.5	220/1/50	W/ STAT
EF-3	ROOF	3.300	DIRECT	3	9.5	220/1/50	W/ STAT
EF-4	ROOF	3.300	DIRECT	3	9.5	220/1/50	W/ STAT

NOTE:

- FANS SHALL HAVE SPRING OPERATED BACK DRAFT DAMPER.

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

NOTES:

- INSTALL FANS 2.5M AFF.
- PROVIDE WITH OUT LIGHT FIXTURE.
- PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH SHOWN ON ELECTRICAL DRAWINGS.

LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED
SCALE: 1:100



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

Designed by: RML	Checked by: CUM	Drawing code: ANASTORUM-101XX
Dwn by: JUN	Reviewed by: MRS	File name: ANASTORUM-101XX
Submitted by: BAKER		Plot date: 02/23/10
		Plot scale: 1:100

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STANDARD DESIGN
RMTC STORAGE
HVAC - FLOOR PLAN,
SCHEDULES AND DETAILS

Sheet reference number:
M-101

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.

NUMBERED NOTES:

- ① 120.0mm² BARE, TINNED, COPPER COUNTERPOISE GROUND 700mm BELOW GRADE.
- ② INSTALL DOWN CONDUCTOR IN 25mm SCHEDULE 80 PVC CONDUIT TO 20mm DIAMETER X 3 METERS SOLID COPPER TINNED GROUND ROD. (TYPICAL)
- ③ CADWELD TO BUILDING STRUCTURE AT 18 METERS ON CENTER AROUND THE ENTIRE PERIMETER OF THE BUILDING. (TYPICAL)
- ④ 120mm² LIGHTNING PROTECTION CABLE.
- ⑤ AIR TERMINAL. TERMINALS SHALL BE PLACED AT A MAXIMUM OF 6M ON CENTER PER NFPA 780 PARA. 7.8.2.1, AND WITHIN 0.6M OF RIDGE ENDS PER NFPA 780 PARA. 4.8 (TYPICAL)
- ⑥ 700mm MIN. (TYP) BETWEEN FOUNDATION AND GROUND LOOP.
- ⑦ AIR TERMINAL ON ROOFTOP FAN.



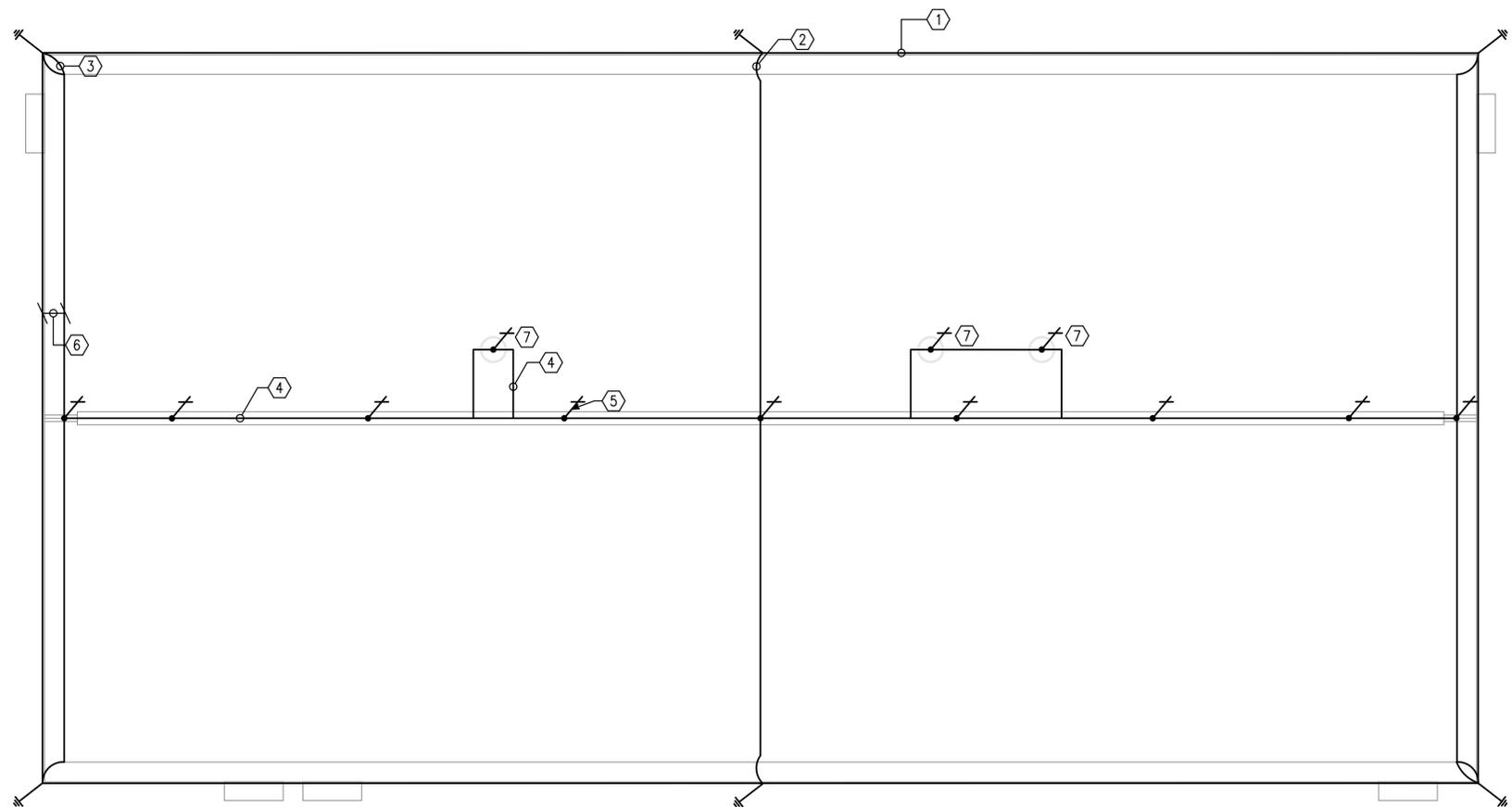
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Designed by: KJR	Date: 2/23/10	Rev: 0
Drawn by: BUB	Design file no.:	
Checked by: JRG	Drawing code:	
Reviewed by: JRG	Submitted by: BAKER	File name: Plot date:
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RMTc STORAGE
ELECTRICAL LIGHTNING PROTECTION PLAN

Sheet reference number:
E-103



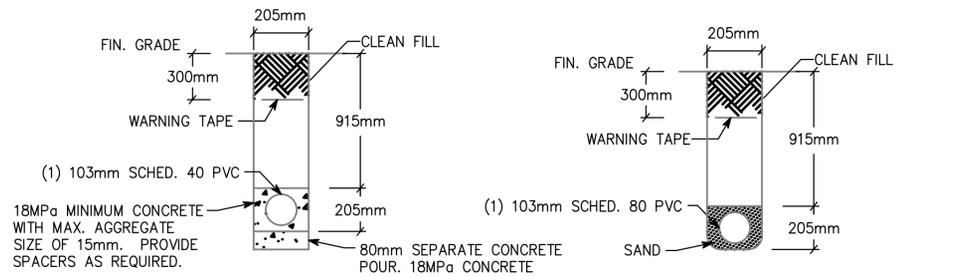
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E-103
**RMTc STORAGE
FLOOR PLAN - LIGHTNING PROTECTION**
SCALE: 1:100



APPROVED:

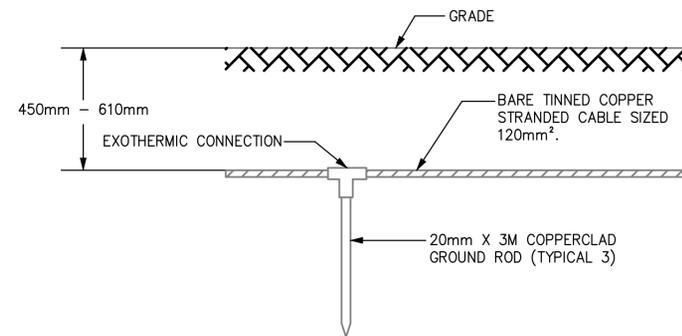
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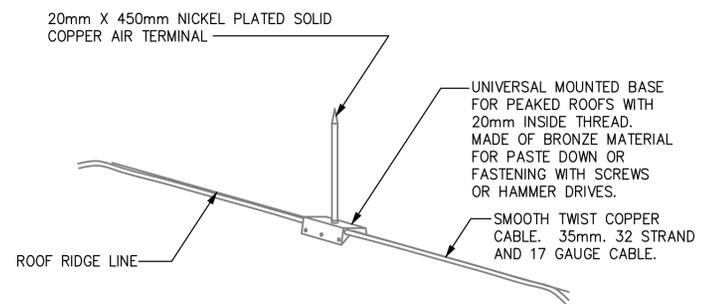


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

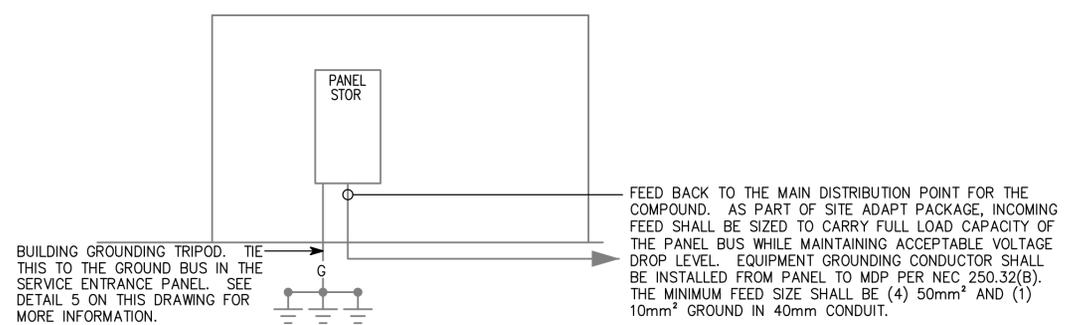
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
SCALE: N.T.S.



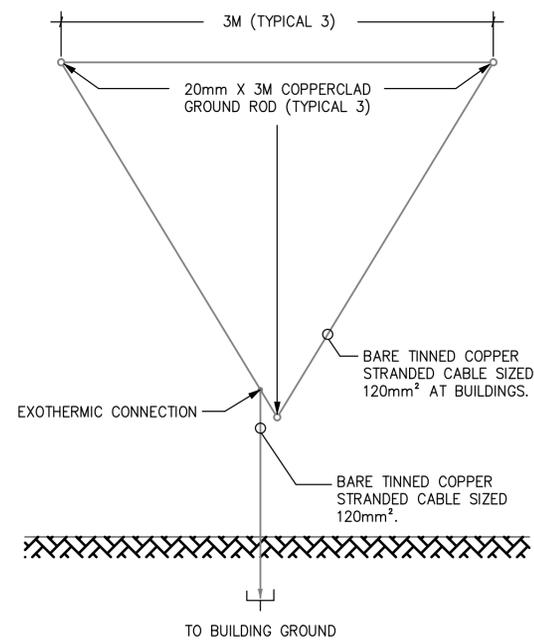
2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
SCALE: N.T.S.



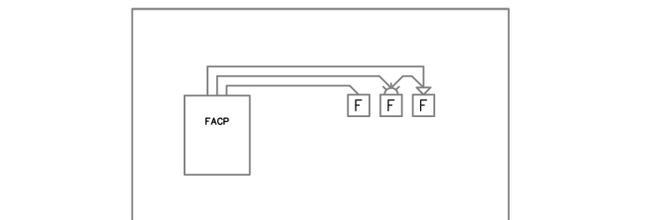
3 LIGHTNING PROTECTION AIR TERMINAL DETAIL
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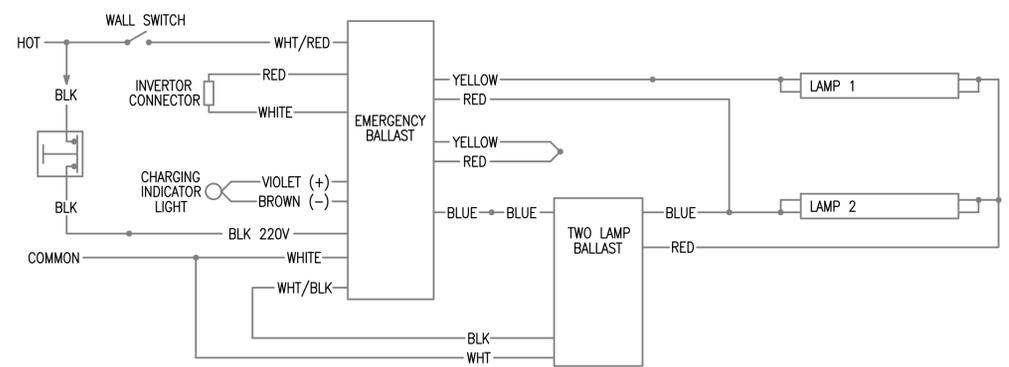
4 STOR RISER DIAGRAM
SCALE: N.T.S.



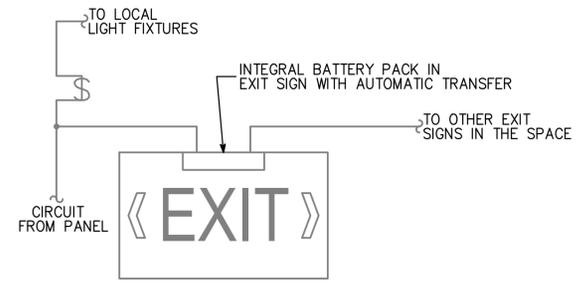
5 GROUND TRIPOD SYSTEM DETAIL - PLAN
SCALE: N.T.S.



6 TYPICAL ONE STORY FIRE ALARM RISER
SCALE: N.T.S.



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



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



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Rev.	Date	Design file no.	Drawing code	File name	Plot date	Plot scale
0	2/23/10					

Designed by:	KUR
Drawn by:	BUB
Reviewed by:	JRG
Submitted by:	BAKER

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STANDARD DESIGN
RMTC STORAGE
ELECTRICAL DETAILS

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

Sheet reference number:
E-501

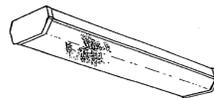
FIXTURE MARK 'A'



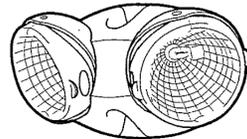
FIXTURE MARK 'C'



FIXTURE MARK 'G'



FIXTURE MARK 'H'



FIXTURE MARK 'E'



LIGHT FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
A	PARABOLIC SURFACE/PENDANT MOUNTED 300MM X 1200MM FLUORESCENT FIXTURE WITH ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IREDESCENCE TYPE.
A2	SAME AS FIXTURE 'A' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IREDESCENCE TYPE. EMERGENCY BALLAST SELF TEST.
C	INCANDESCENT ONE PIECE W/ APPROVED LENS STABILIZED HIGH IMPACT POLY CARBONATE.	(1) A19 - 100W INCANDESCENT	220V - 1Ø 50HZ	WALL MOUNTED ABOVE EXTERIOR DOORS	
G	WRAP AROUND SURFACE/PENDANT 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.
G2	SAME AS FIXTURE 'G' 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.
H	REMOTE HEAD EXTERIOR LIGHT HEAD POWERED FROM EXIT SIGN BATTERY- 12V DOUBLE HEAD CORROSION RESISTANT WITH UL34 WEATHERPROOF CONSTRUCTION	(2) 12W/12V HALOGEN LAMP	12V - 1Ø 50HZ	EXTERIOR WALL MOUNTED AT TOP OF DOOR HEIGHT	
E	UNIVERSAL MOUNT ENGINEER GRADE THERMOPLASTIC HOUSING EXIT SIGN WITH LED LAMPS, RED LETTERS 6" IN HEIGHT WITH ARROWS AS INDICATED, WITH 12V CADMIUM BATTERY WITH REMOTE HEAD CAPABILITY	LED LAMPS	220V - 1Ø 50HZ	UNIVERSAL MOUNTING	



Date	Rev.	Description
	0	

Designed by: KJR	Date: 2/23/10	Rev: 0
Drawn by: BJB	Design file no.	
Checked by: JRG	Drawing code:	
Reviewed by: JRG	Submitted by:	File name: BAKER
Submitted by: BAKER		Plot date:
		Plot scale:

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

RMTc STORAGE
ELECTRICAL LIGHTING FIXTURE SCHEDULE

Sheet reference number:
E-601

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SEAL:

PANELBOARD _____ STOR _____ 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	TRIP NO.	WIRE MM ²	GND MM ²	CONDUIT MM	LOAD SERVED	LOAD-KVA			LOAD-KVA			CONDUIT MM	GND MM ²	WIRE MM ²	NO. POLES	TRIP AMPS	CKT. NO.
							A0	B0	C0	A0	B0	C0						
1	20	1	4.0	4.0	20	LIGHTING - RM 103	2.6			0.5			20	4.0	4.0	1	20	2
3	20	1	4.0	4.0	20	LIGHTING - RM 103, EXTERIOR		2.3			0.6		20	4.0	4.0	1	20	4
5	20	1	4.0	4.0	20	LIGHTING - RM 100-102			0.7		0.4		20	4.0	4.0	1	20	6
7	20	1	4.0	4.0	20	EXHAUST FAN #1 - RM 101	0.5			0.6			20	4.0	4.0	1	20	8
9	20	1	4.0	4.0	20	CEILING FAN - RM 100		0.3			0.6		20	4.0	4.0	1	20	10
11	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 100			1.3		0.6		20	4.0	4.0	1	20	12
13							1.3		1.2			20	4.0	4.0	1	20	14	
15	20	2	4.0	4.0	20	ELECTRIC HEAT #2 - RM 100		1.3			1.0		20	4.0	4.0	1	20	16
17									1.3		3.9		20	6.0	6.0	1	30	18
19	20	1	4.0	4.0	20	ROOFTOP RECEPTACLES	0.4			3.9			20	6.0	6.0	1	30	20
21	30	1	6.0	6.0	20	EXHAUST FAN #4 - RM 104		3.9								1	20	22
23	20	1				SPARE										1	20	24
							4.8	7.8	3.3	6.2	2.2	4.9	TOTAL CONN. LOAD PER PHASE (KVA): A0 11.0 B0 10.0 C0 8.2					

TOTAL CONN. LOAD _____ KVA. _____ 70 _____ % DEMAND = ESTIMATED DEMAND LOAD _____ 20.44 _____

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE



Rev.	Date	Description	Mark
0	2/23/10		

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U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338 Michael Baker Jr., Inc. A unit of Michael Baker Corporation Airside Business Park Moon Township, PA 15108 www.mbakercorp.com		

AFGHAN NATIONAL ARMY
 REGIONAL MILITARY TRAINING CENTER
 STANDARD DESIGN
 RMTC STORAGE
 ELECTRICAL PANEL SCHEDULES

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SEAL:

Sheet reference number:
E-602