

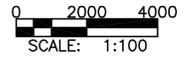
**1**  
S-102 **ROOF FRAMING PLAN**  
SCALE: 1:100

**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:** (X)

1. CONC ROOF SLAB (BELOW ROOF OVERBUILD)
2. REINF CONC COLUMN (BELOW CONC ROOF SLAB)-SEE S-701



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	Appr.	Date

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

Date: 2/23/10  
Design file no.:  
Drawing code: ANASBDS-102RP  
File name: ANASBDS-102RP  
Plot date: 2/23/2010  
Plot scale: xx

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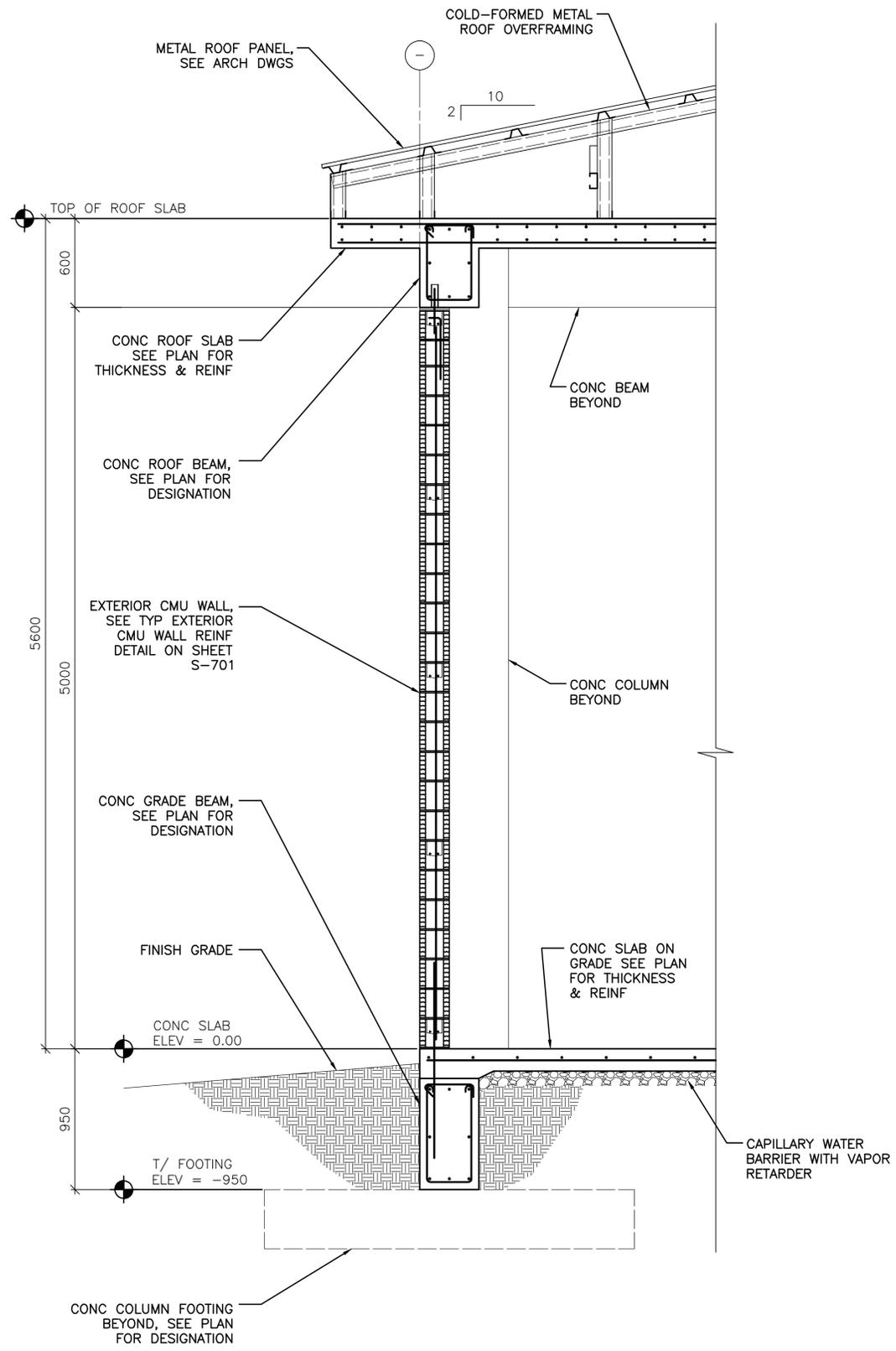
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BRIDGALS AND BWT STORAGE

ROOF FRAMING PLAN

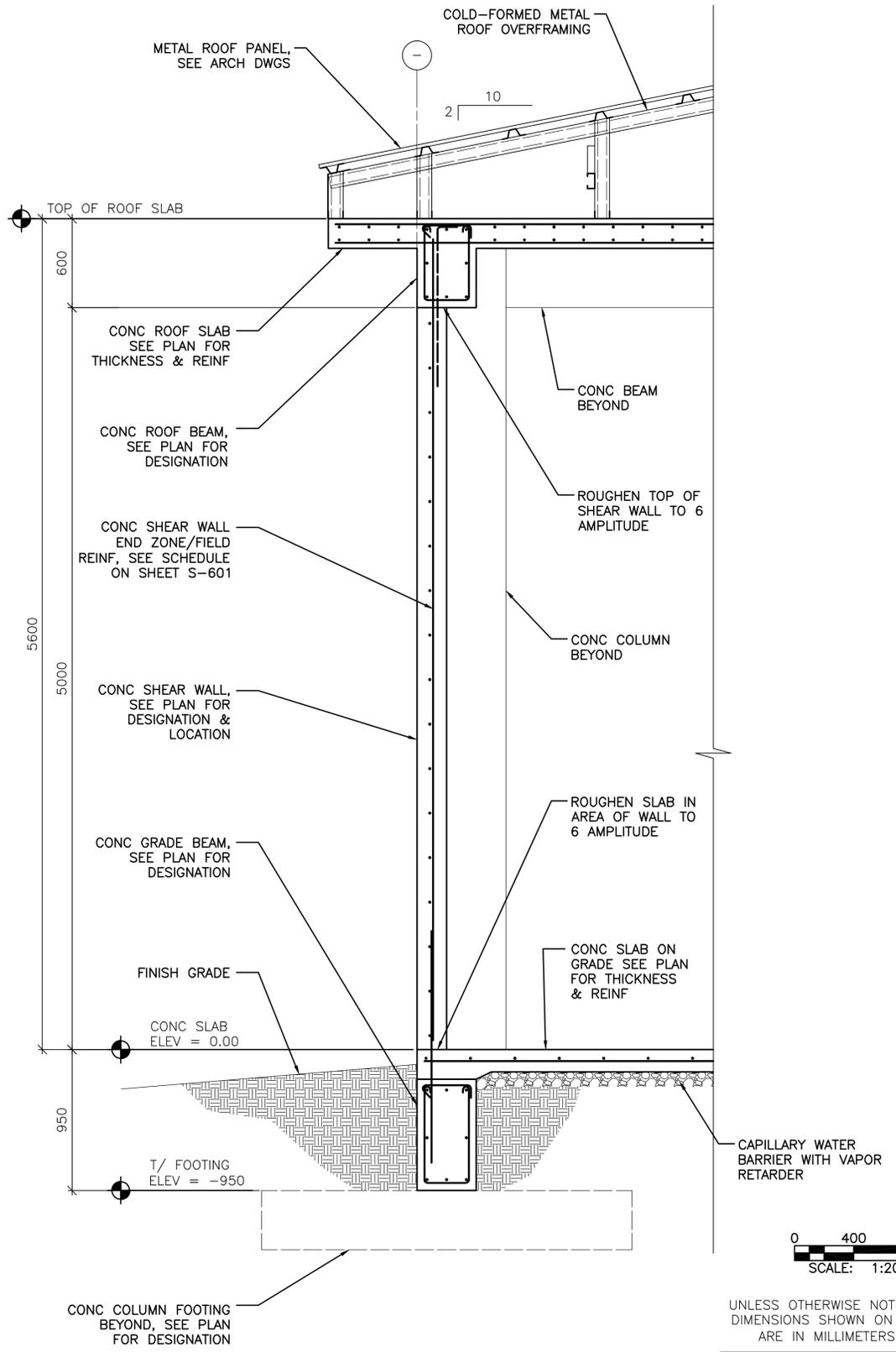
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1 1  
S-101 S-102

**TYPICAL WALL SECTION AT EXTERIOR MASONRY WALL**

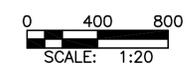
SCALE: 1:20



2 2  
S-101 S-102

**TYPICAL WALL SECTION AT CONCRETE SHEAR WALL**

SCALE: 1:20



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	Mark	Appr.	Date

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

Date: 2/23/10  
Design file no.:

Drawing code: ANASR05-4018  
File name: ANASR05-4018  
Plot date: 2/23/10  
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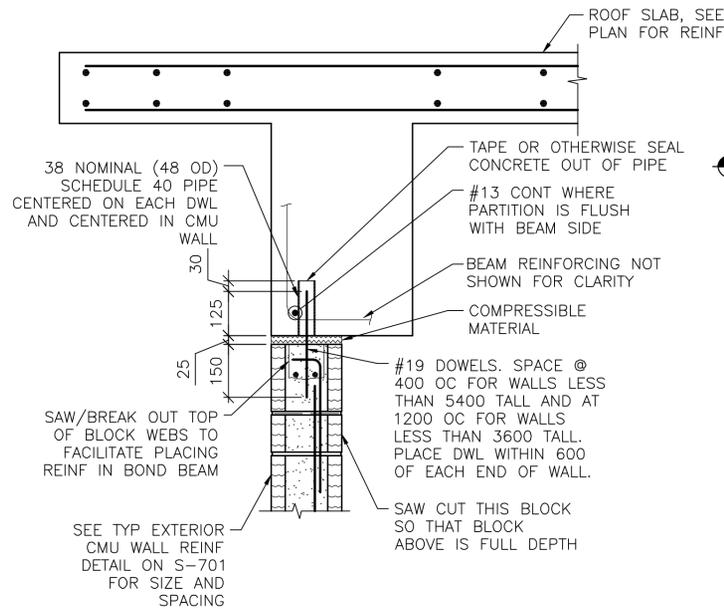
BRIDGALS AND BWT STORAGE

BUILDING SECTIONS

Sheet reference number:  
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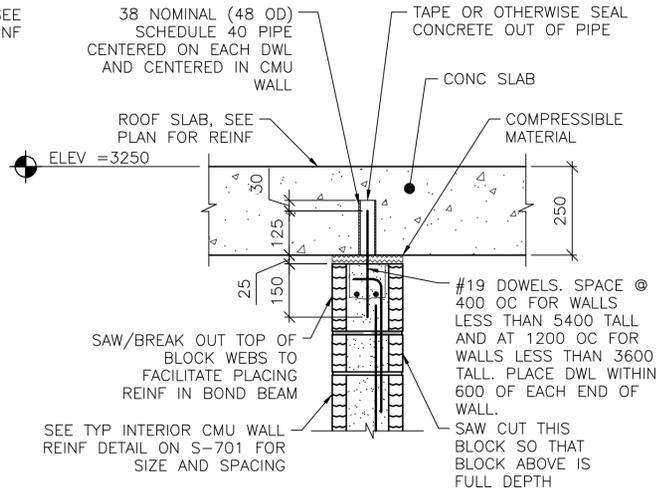






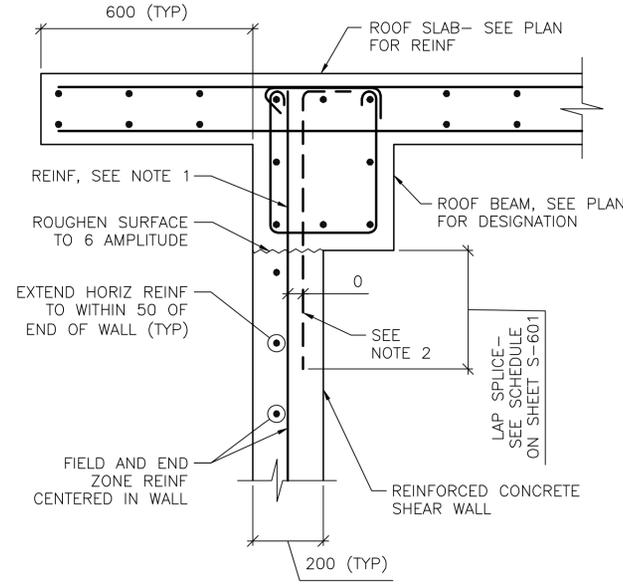
NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.

1 SECTION  
S-102 SCALE: 1:10



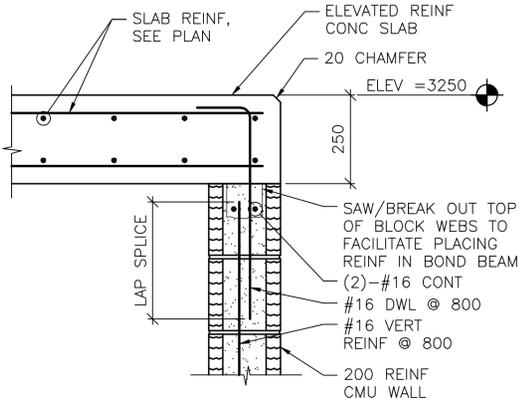
NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.  
2. SLAB REINF NOT SHOWN FOR CLARITY.

2 SECTION  
S-402 SCALE: 1:10

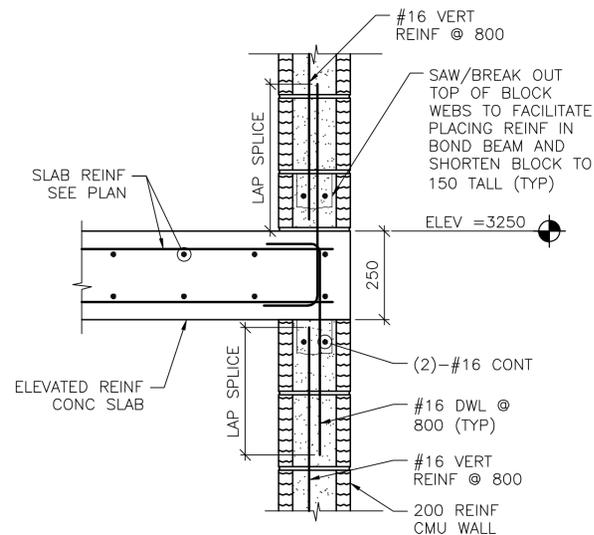


NOTES:  
1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.  
2. WHERE END ZONE REINFORCING CANNOT BE DEVELOPED IN BEAM DEPTH, PROVIDE HOOKED DWLS SAME SIZE & SPACING. PROVIDE TENSION LAP BELOW ROOF BEAM.  
3. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END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

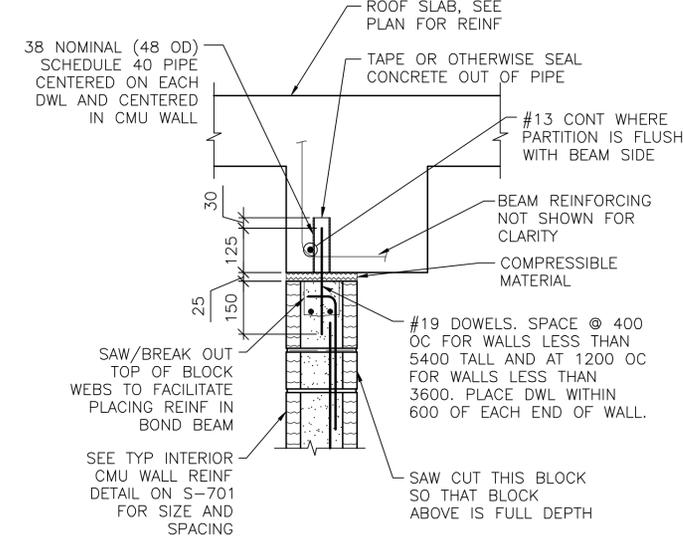
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S-102 SCALE: 1:10



5 SECTION  
S-402 SCALE: 1:10

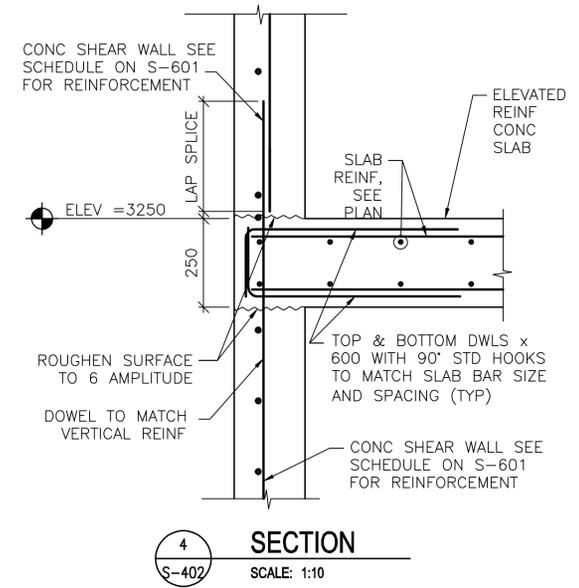


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S-402 SCALE: 1:10

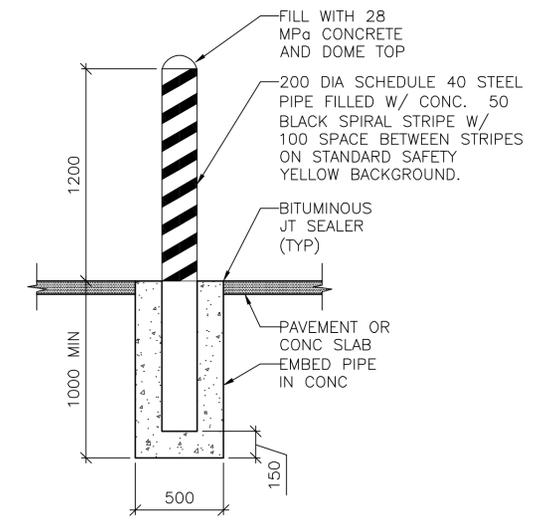


NOTES:  
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.  
2. PARTITION WALL MAY BE CENTERED UNDER THE BEAM OR FLUSH AS SHOWN. SEE PLAN FOR LOCATION.  
3. SLAB REINF NOT SHOWN FOR CLARITY.

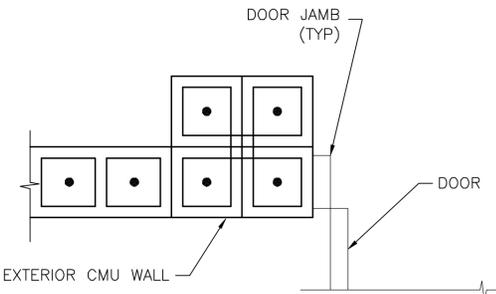
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S-102 SCALE: 1:10



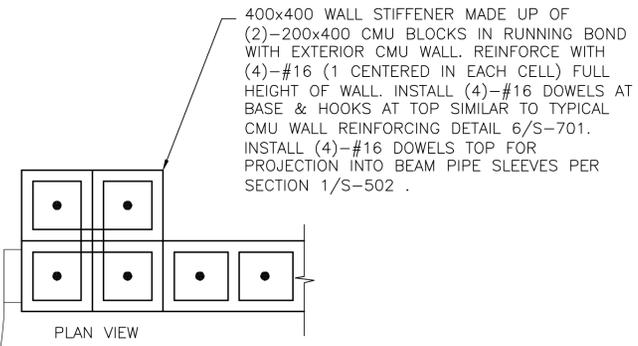
4 SECTION  
S-402 SCALE: 1:10



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



9 DETAIL  
S-101 SCALE: 1:10



0 400 800  
SCALE: 1:20

0 200 400  
SCALE: 1:10

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

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



Sheet reference number:  
S-502

Rev.	Date	Design file no.	Design code	File name	Plot date	Plot scale
0	2/23/10			ANASR008-502C	2/23/10	XX

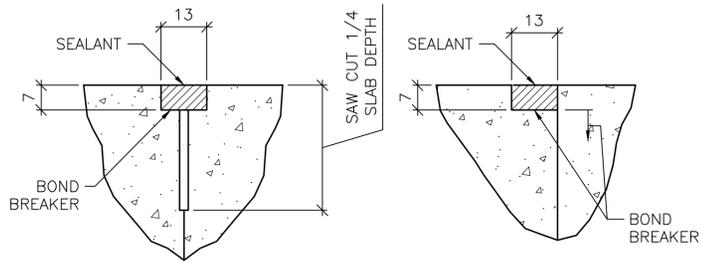
Designed by	KMP/MMY	Checked by	CGW
Dwn by	RCG	Reviewed by	LHM
Submitted by	BAKER		

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	BRIDGEMALS AND BWT STORAGE	FRAMING SECTIONS
--	----------------------------	------------------







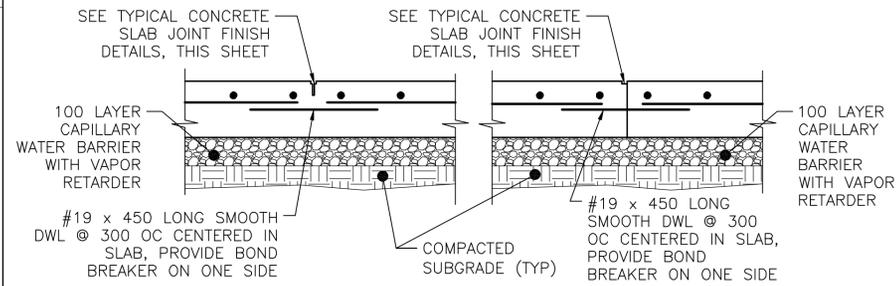


CONTROL JOINT DETAIL

CONSTRUCTION JOINT DETAIL

**TYPICAL CONCRETE SLAB JOINT FINISH DETAILS**

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S-701  
SCALE: NTS

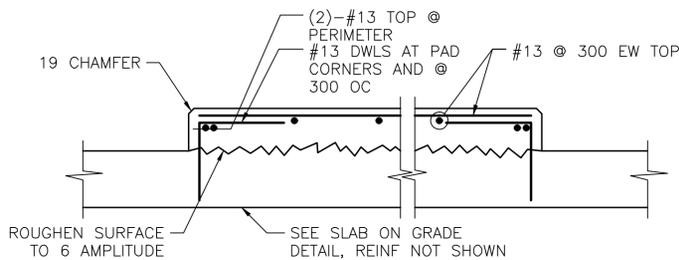


CONTROL JOINT DETAIL

CONSTRUCTION JOINT DETAIL

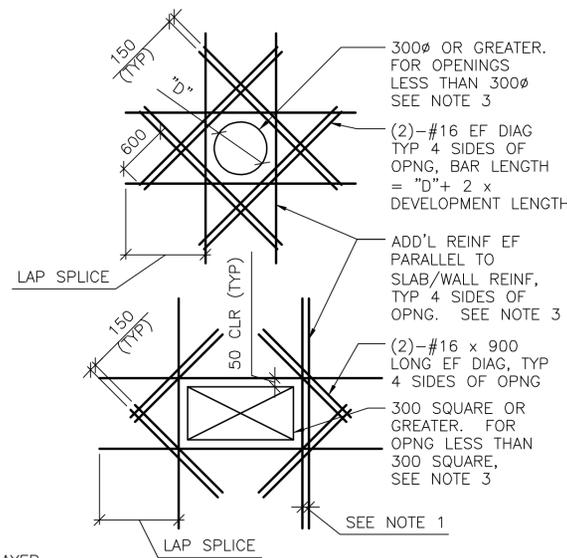
**TYPICAL SLAB ON GRADE JOINT DETAIL**

2  
S-701  
SCALE: NTS

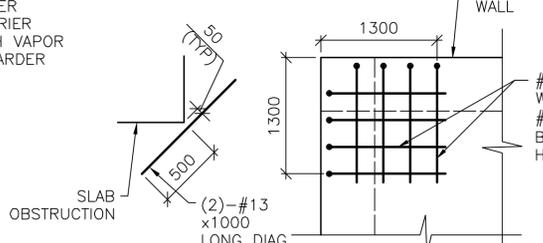


**INTERIOR EQUIPMENT PAD DETAIL**

3  
S-701  
SCALE: NTS



SHEAR WALL/SLAB OPENINGS



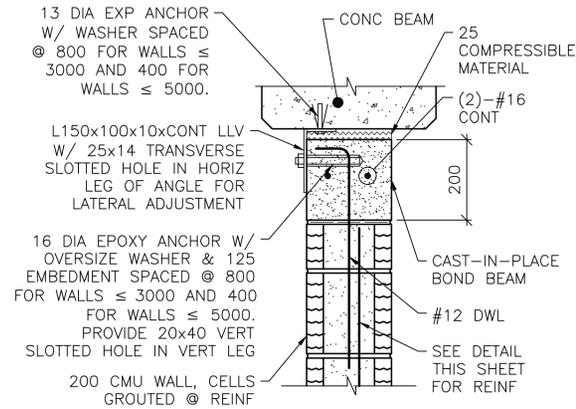
ELEVATED SLAB CORNERS

**DETAIL NOTES:**

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

**ADD'L CONCRETE REINFORCEMENT DETAILS**

4  
S-701  
SCALE: NTS



INTERIOR BEAM

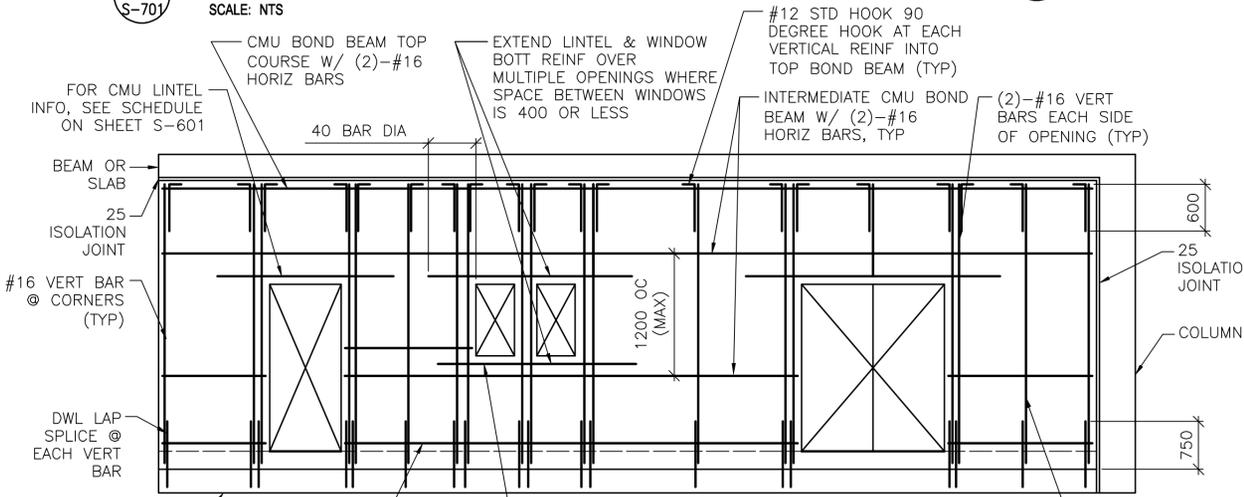
EXTERIOR WALL OR SLAB

**NOTES:**

- THIS DETAIL IS AN ALTERNATE TOP OF WALL ANCHORAGE DETAIL TO BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF DETAILS SHOWN ON S-400 & S-500 DRAWINGS.
- CAST-IN-PLACE BOND BEAM SHOWN AT TOP OF WALL IS ALSO APPLICABLE FOR INTERMEDIATE AND STARTER COURSE BOND BEAMS WITHIN WALL.

**ALTERNATE TOP OF CMU WALL BRACING DETAILS**

5  
S-701  
SCALE: NTS



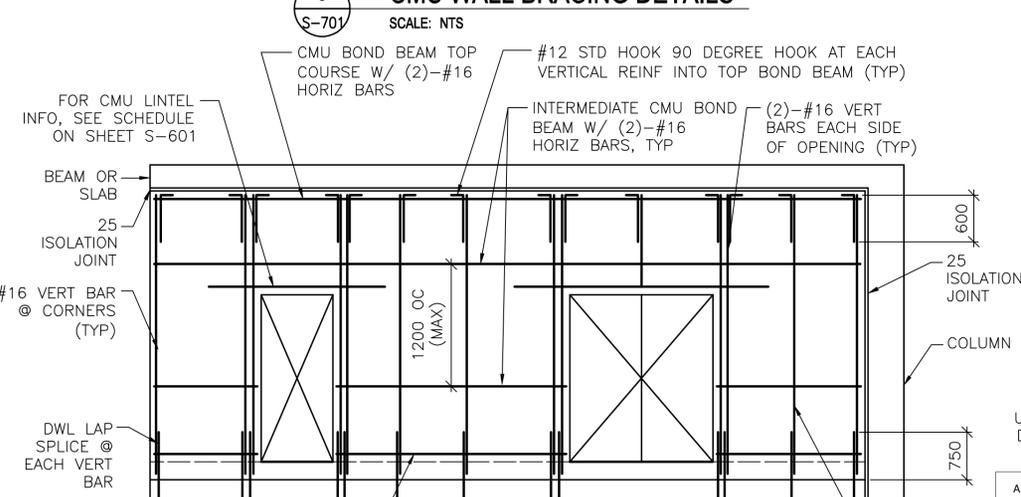
- #16 VERT @ 1000 @ EXTERIOR (NON-LOAD BEARING)
- #16 VERT @ 800 @ EXTERIOR (LOAD BEARING) WALL HEIGHT < 3000
- #16 VERT @ 200 @ EXTERIOR WALL HEIGHT < 5000

**DETAIL NOTE:**

- CENTER VERT REINF IN WALL.
- GROUT ALL CMU CELLS.
- REFERENCE ARCH DWGS FOR JOINT INFORMATION
- DOWELS BETWEEN TOP BOND BEAM AND BEAM/SLAB ABOVE (INCLUDING EMBEDDED PIPE SLEEVE) NOT SHOWN FOR CLARITY. SEE SPECIFIC S-500 SERIES DWGS FOR INFO.
- FOR INFORMATION ON ALTERNATE CAST-IN-PLACE WALL BOND BEAMS, REFERENCE ALTERNATE TOP OF CMU WALL BRACING DETAILS THIS SHEET.

**TYP EXTERIOR CMU WALL REINF DETAIL**

7  
S-701  
SCALE: NTS



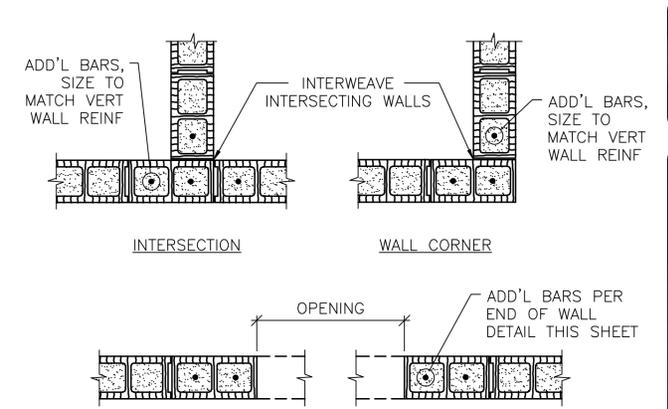
- #16 VERT @ 1200 @ INTERIOR (NON-LOAD BEARING)
- #16 VERT @ 800 @ INTERIOR (LOAD BEARING) WALL HEIGHT < 3600
- #16 VERT @ 200 @ INTERIOR WALL HEIGHT < 5400

**DETAIL NOTE:**

- CENTER VERT REINF IN WALL.
- GROUT ALL CMU CELLS.
- REFERENCE ARCH DWGS FOR JOINT INFORMATION
- DOWELS BETWEEN TOP BOND BEAM AND BEAM/SLAB ABOVE (INCLUDING EMBEDDED PIPE SLEEVE) NOT SHOWN FOR CLARITY. SEE SPECIFIC S-500 SERIES DWGS FOR INFO.
- FOR INFORMATION ON ALTERNATE CAST-IN-PLACE WALL BOND BEAMS, REFERENCE ALTERNATE TOP OF CMU WALL BRACING DETAILS THIS SHEET.

**TYP INTERIOR CMU WALL REINF DETAIL**

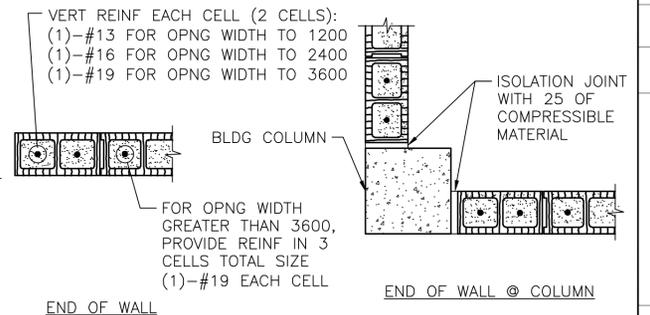
8  
S-701  
SCALE: NTS



INTERSECTION

WALL CORNER

MASONRY OPENING W/ LINTEL



END OF WALL

END OF WALL @ COLUMN

**NOTES:**

- OPENING WIDTH SHALL NOT EXCEED 3600 FOR THIS TYPE OF JAMB.
- ALL CELLS FULLY GROUTED AT EXTERIOR WALLS. AT INTERIOR WALLS, ONLY GROUT CELLS CONTAINING REINF.

**TYP CMU DETAILS**

6  
S-701  
SCALE: NTS

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

APPROVED:

*Chui Wada*  
A/E DESIGNER OF RECORD

SEAL:



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Rev.	Date	Description
1	2/23/10	Design file no.
2	2/23/10	Design file no.

Designed by:	KMP/MMY
Drawn by:	RCG
Reviewed by:	LHM
Submitted by:	BAKER
Date:	2/23/10
File name:	ANASBR05.701TOT
Plot date:	2/22/2010
Plot scale:	KX

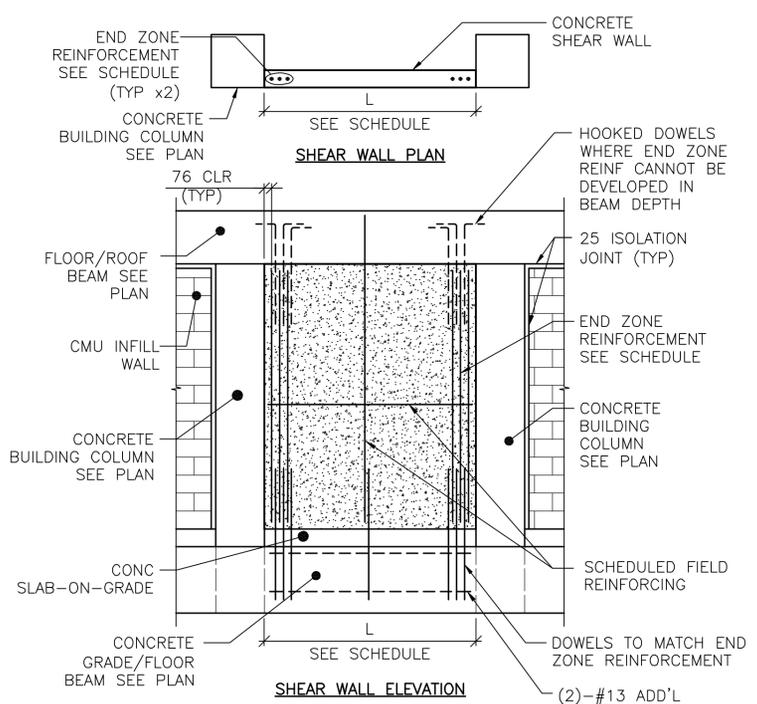
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BRIDGEMAN AND BWT STORAGE  
TYPICAL DETAILS

Sheet reference number:  
**S-701**

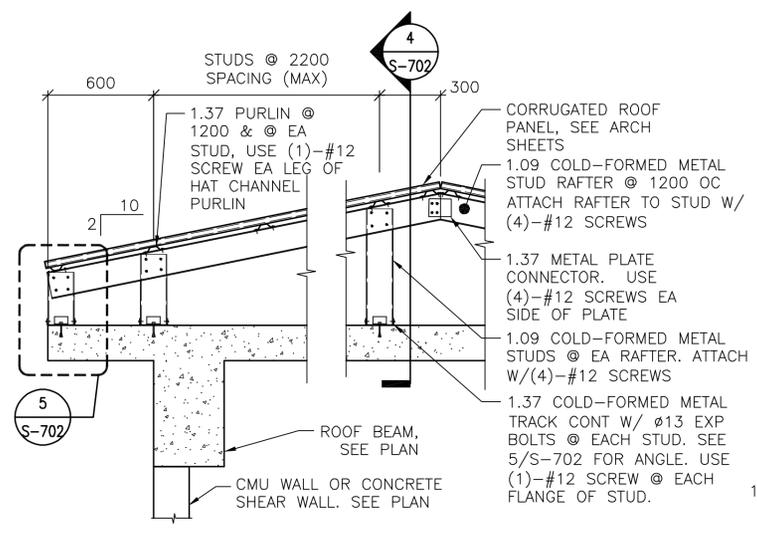


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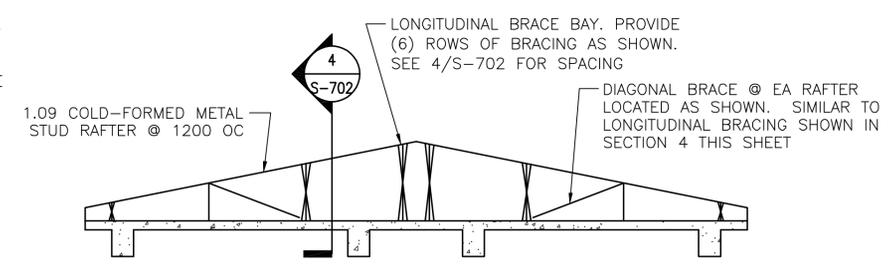
- DETAIL NOTES:**
1. FIELD REINFORCEMENT IN SHEAR WALL NOT SHOWN COMPLETELY FOR CLARITY.
  2. FIELD REINFORCEMENT CENTERED IN WALL.
  3. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
  4. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
  5. SEE ARCH DWGS FOR ISOLATION JOINT INFORMATION

**1** TYPE "C" SHEAR WALL DETAIL  
SCALE: NTS

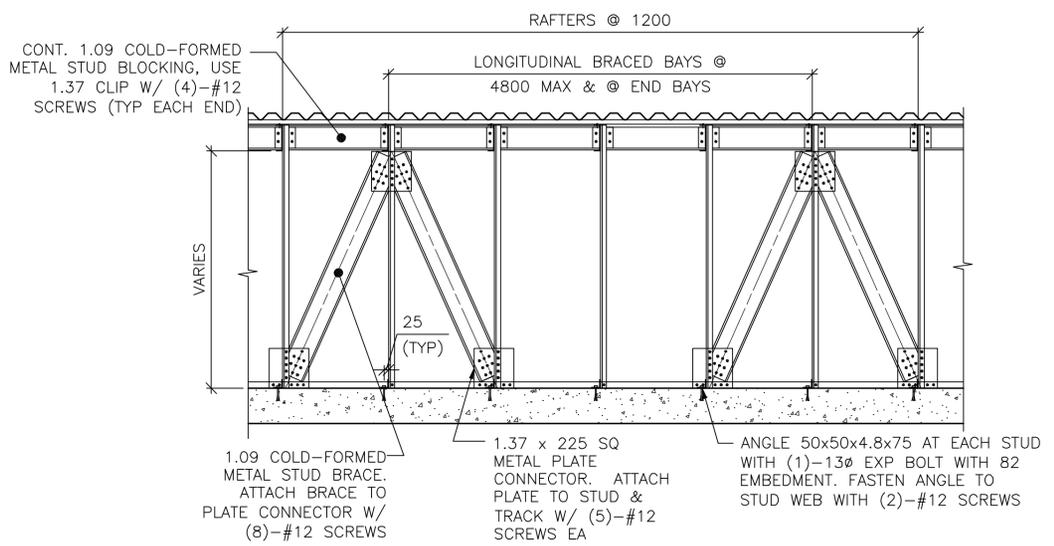


- DETAIL NOTES:**
1. ALL GABLE END VERTICAL STUDS SHALL BE ORIENTED 90° TO INTERIOR STUDS & SPACED @ 600 OC. GABLE END RAFTER SHALL BE 1.37 METAL TRACK SPANNING CONTINUOUSLY OVER GABLE END STUDS. INSET GIRTS AT GABLE END SHALL BE 1.09 COLD-FORMED METAL STUDS @ 1200 OC ATTACHED VIA 1.37 THICKNESS CLIP ANGLE W/ (2) #12 SCREWS EA LEG.
  2. ALL INTERIOR, NON-GABLE END VERTICAL STUDS GREATER THAN 2400 IN LENGTH SHALL BE BACK-TO-BACK W/ #12 SCREWS @ 200 OC STAGGERED.

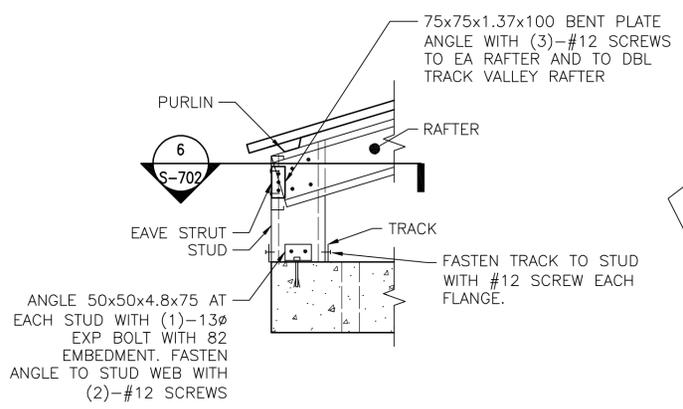
**2** TYPICAL OVERBUILT ROOF FRAMING DETAIL  
SCALE: NTS



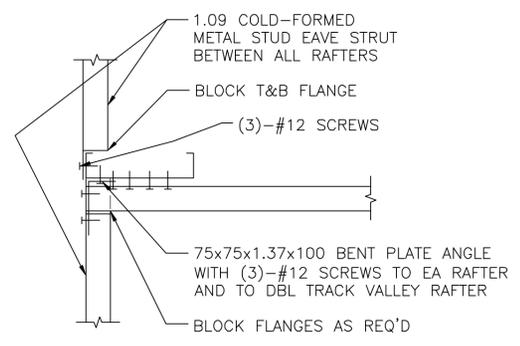
**3** TYPICAL ROOF BRACE LAYOUT  
SCALE: NTS



**4** SECTION  
SCALE: NTS



**5** DETAIL  
SCALE: NTS



**6** SECTION  
SCALE: NTS

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

APPROVED: *Chi Minto*  
A/E DESIGNER OF RECORD



Rev.	Date	Description
1		
2	2/23/10	Design file no.
3		
4		
5		
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Designed by: KMP/MMY  
Dwn by: RCG  
Reviewed by: LHM  
Submitted by: BAKER

Date: 2/23/10  
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Drawing code: ANASBROS-T02DT  
File name: ANASBROS-T02DT  
Plot date: 2/23/2010  
Plot scale: 1:1

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BRIDGALS AND BWT STORAGE

TYPICAL DETAILS

Sheet reference number: S-702





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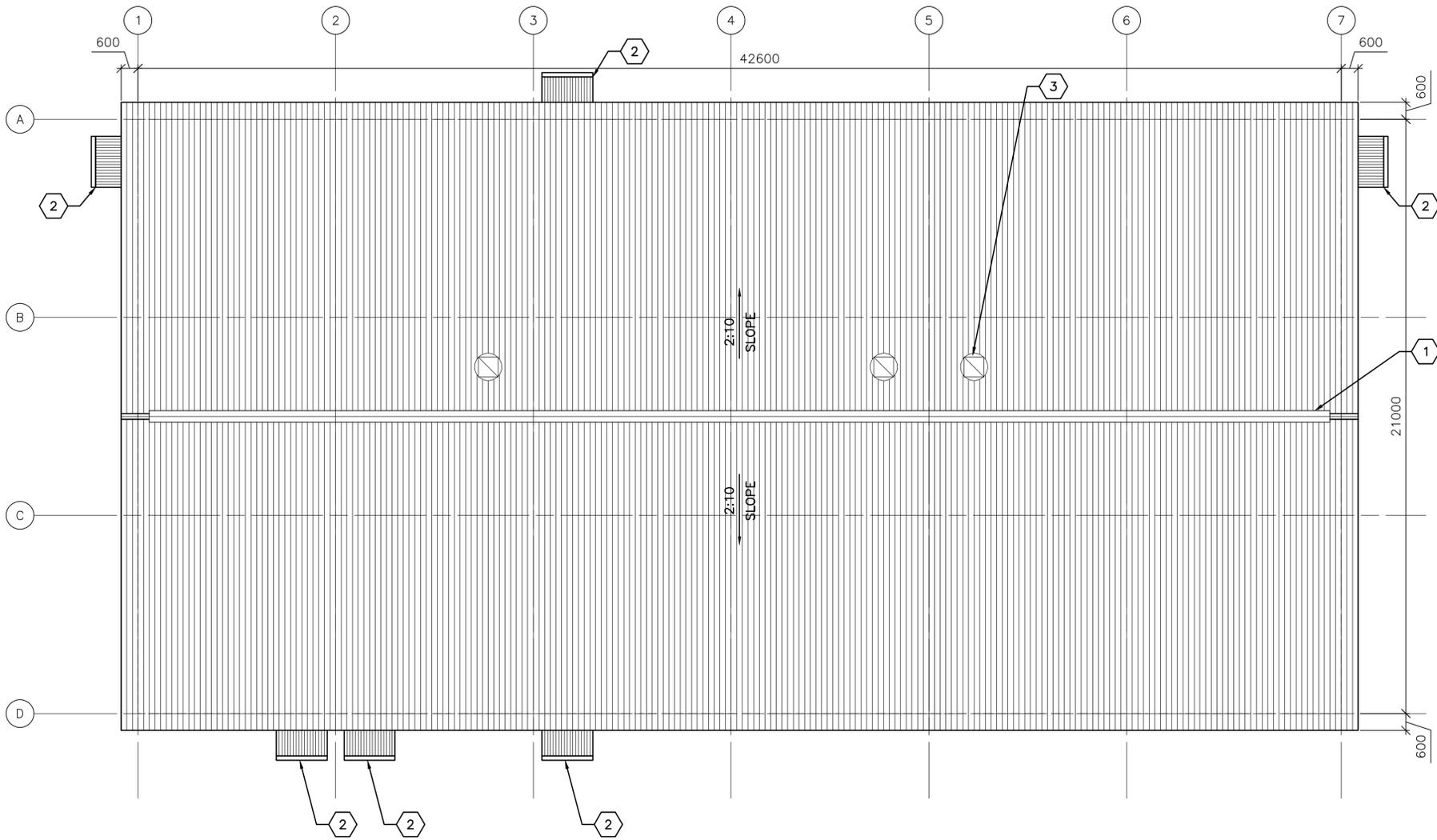
5

D

C

B

A



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

**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.



Date	Rev.	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: KJG	Reviewed by: LHM	Date:	2/23/10
Submitted by: BAKER	Drawing code:	Design file no.:	
		File name:	ANASBRDA-102RP
		Plot date:	2/23/2010
		Plot scale:	XX

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STANDARD DESIGN

BRIDMALS AND BWT STORAGE

ROOF PLAN

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

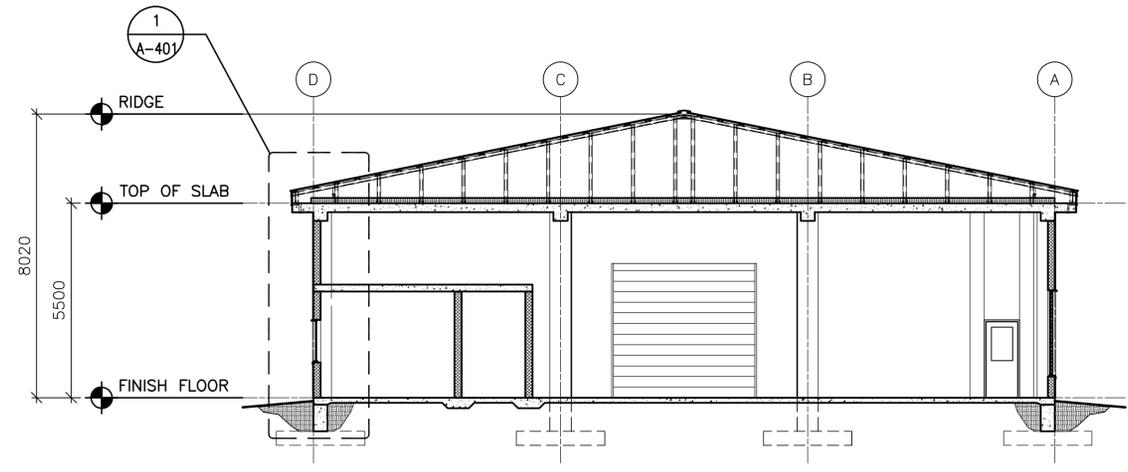


LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS (MM), UNLESS OTHERWISE NOTED

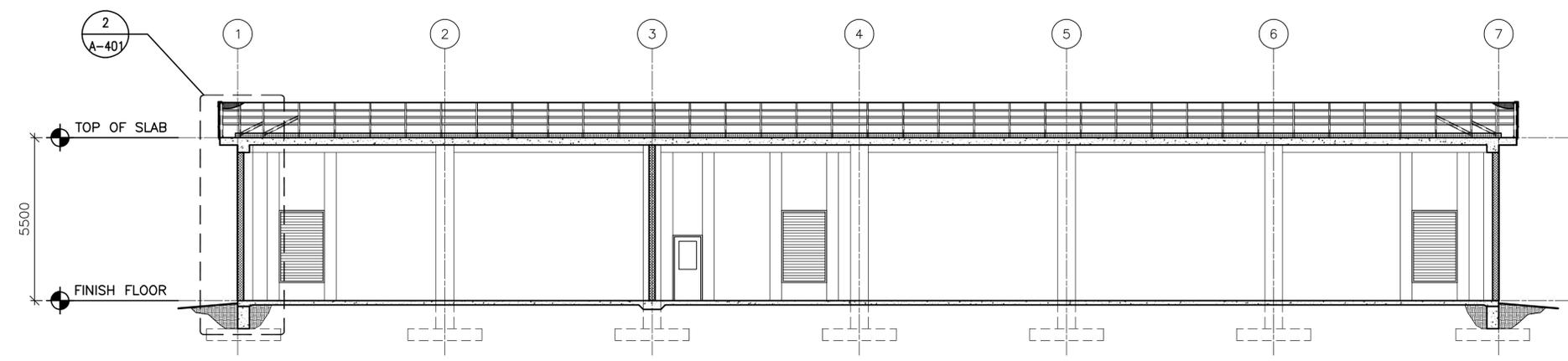
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Sheet reference number:  
**A-102**





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. Chafin*  
A/E DESIGNER OF RECORD



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0	2/23/10				

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

Date: 2/23/10  
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Drawing code: ANASBDDA-301B  
File name: ANASBDDA-301B  
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Plot scale: x:k

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BRIDMALS AND BWT STORAGE

BUILDING SECTIONS

Sheet  
reference  
number:  
A-301

1

2

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4

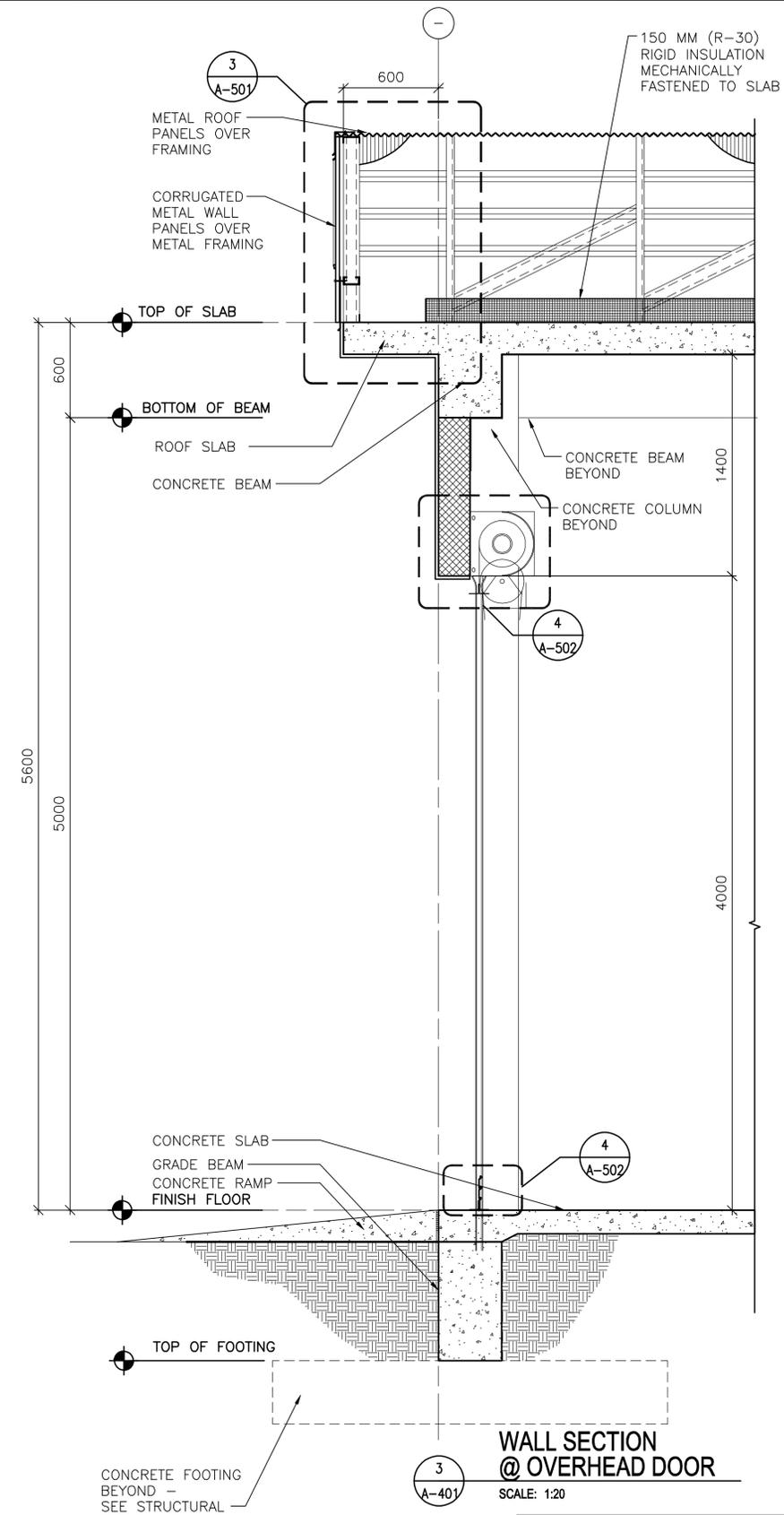
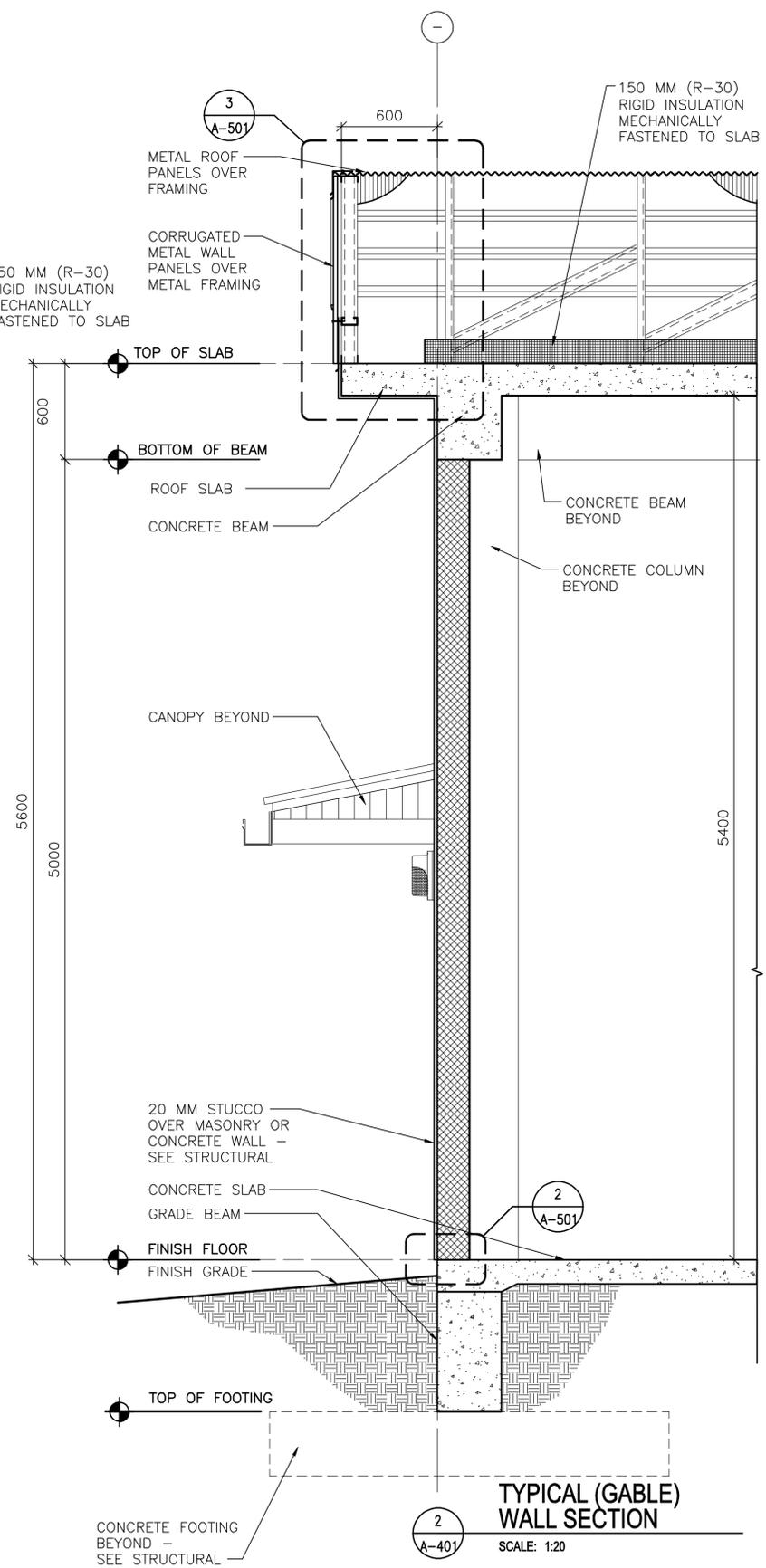
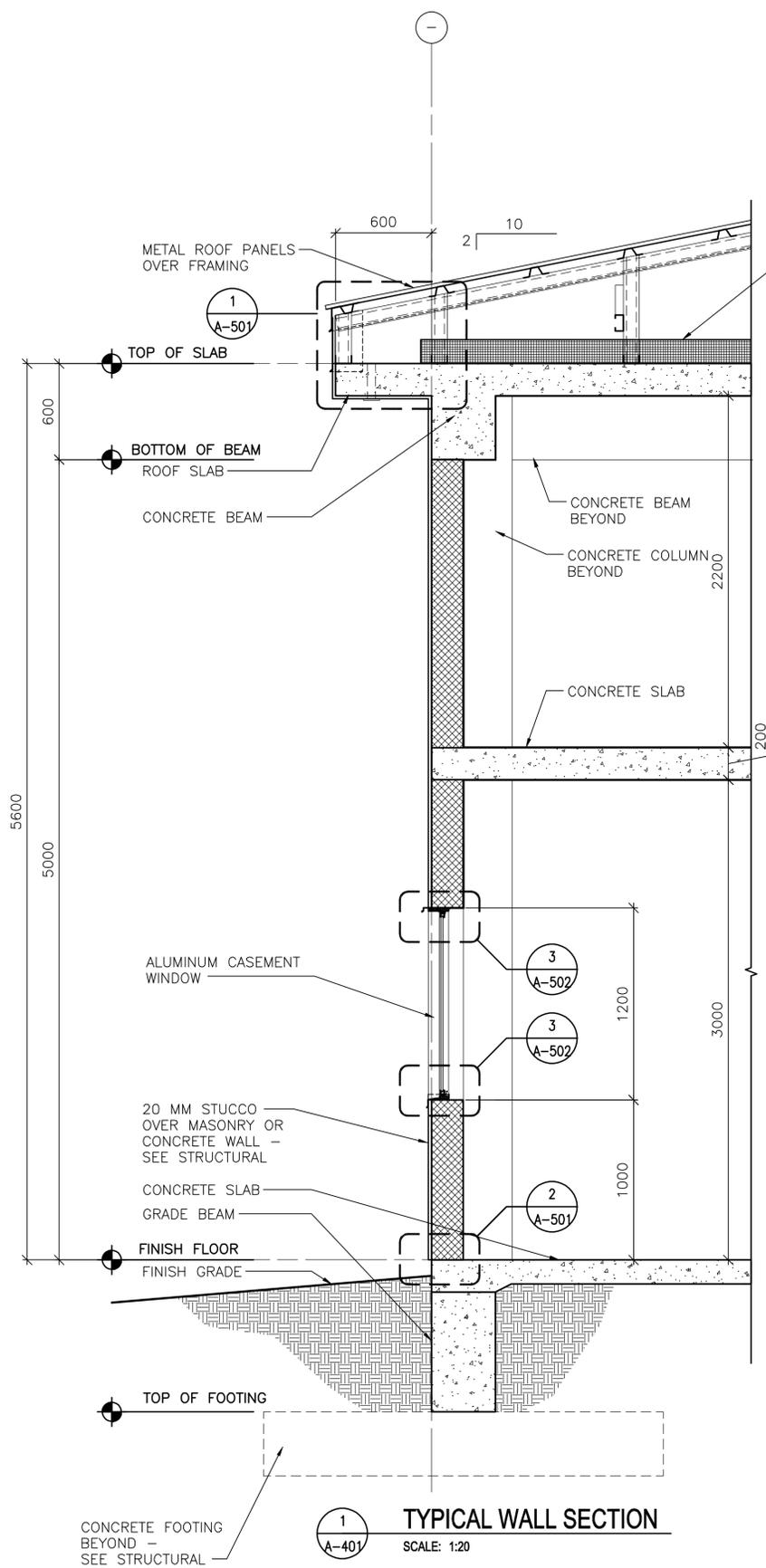
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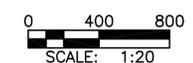
C

B

A



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



APPROVED:

*Kevin R. Charin*

A/E DESIGNER OF RECORD

SEAL:

STATE OF SOUTH CAROLINA  
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N. Charleston, SC  
6374  
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		Designed by: KRC			
		Dwn by: KJG			
		Reviewed by: LHM			
		Submitted by: BAKER			

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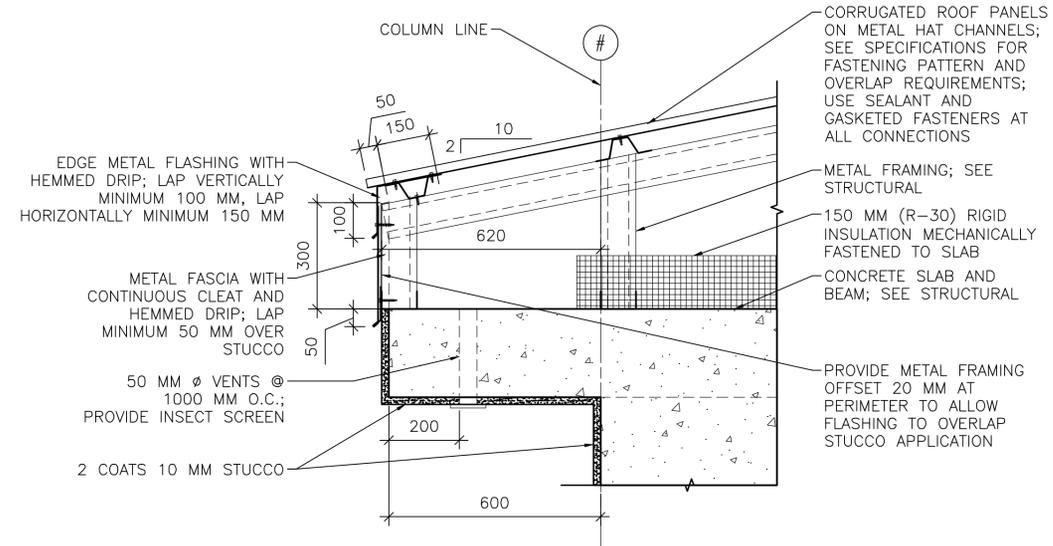
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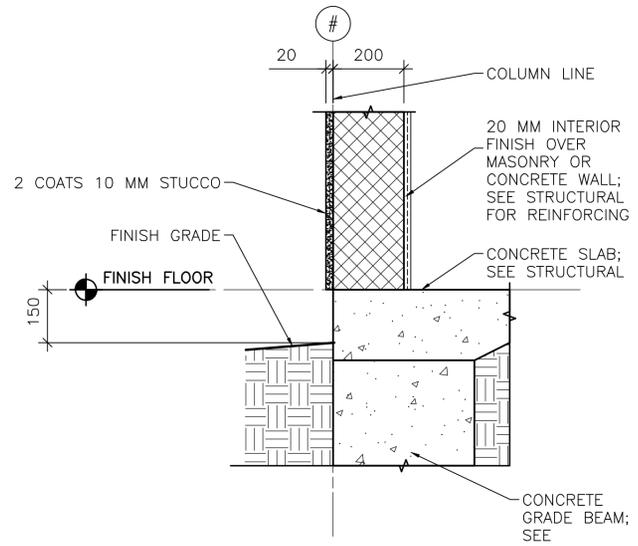
BRIDGALS AND BWT STORAGE

WALL SECTIONS

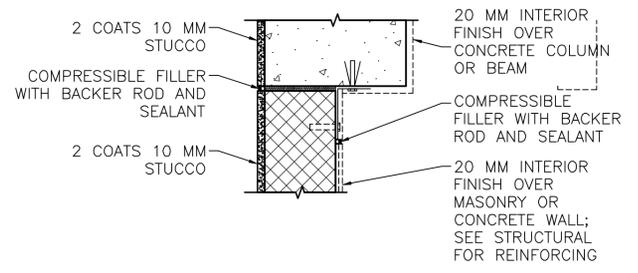
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**A-401**



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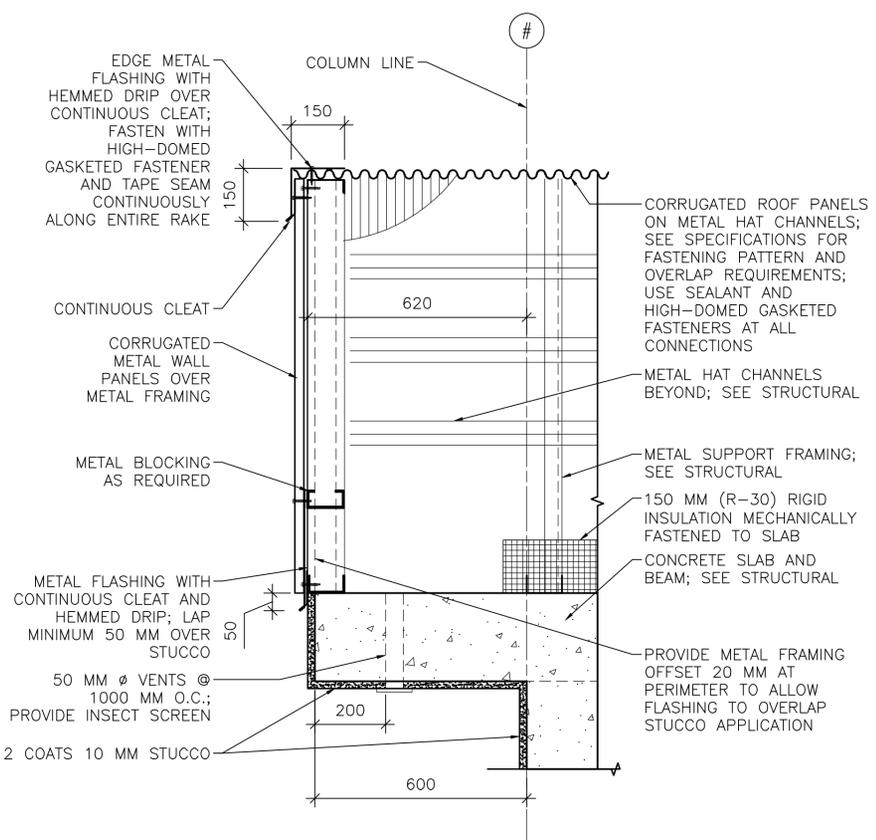


**2 STUCCO BASE DETAIL**  
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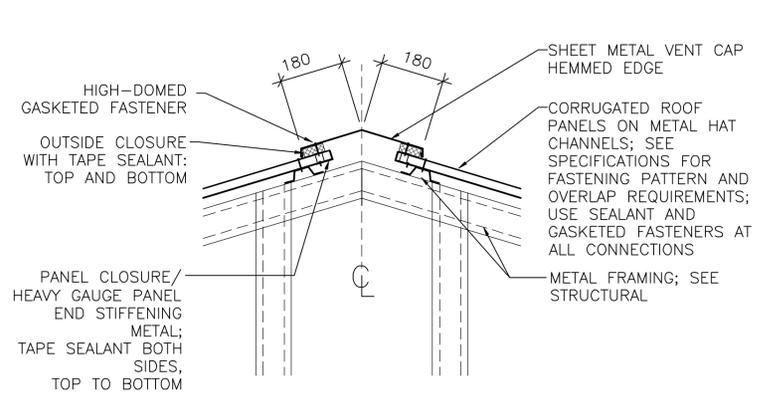


NOTE: DETAIL TYPICAL AT ALL WALL/COLUMN AND WALL/BEAM LOCATIONS. SEE ALTERNATE BRACING DETAIL BELOW 2B/A-501.

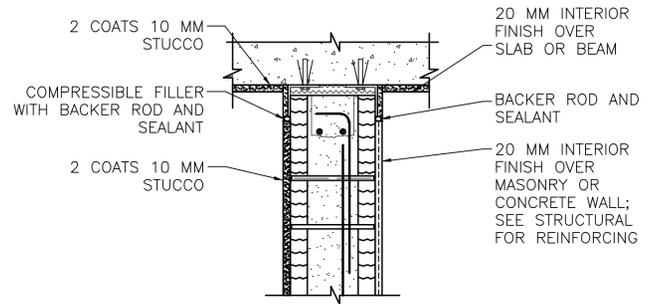
**2A STUCCO JOINT DETAIL**  
SCALE: 1:10



**3 RAKE/EAVE DETAIL**  
SCALE: 1:10



**4 RIDGE VENT DETAIL**  
SCALE: 1:10



**2B ALTERNATE BRACING DETAIL**  
SCALE: 1:10

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0 200 400  
SCALE: 1:10

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

SEAL:



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Crd by: NLJ  
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Submitted by: BAKER

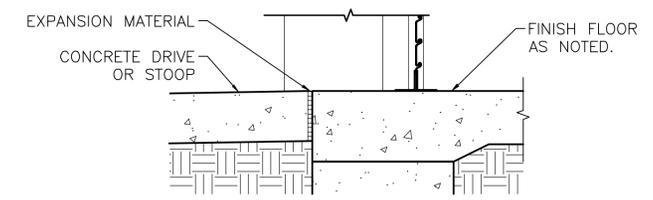
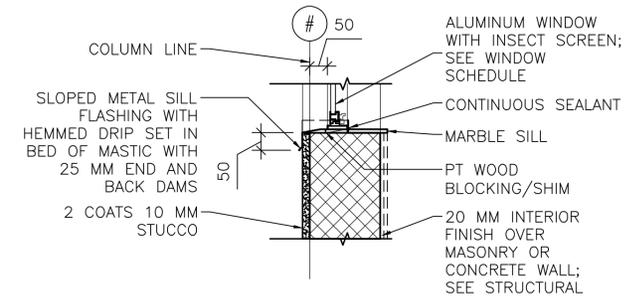
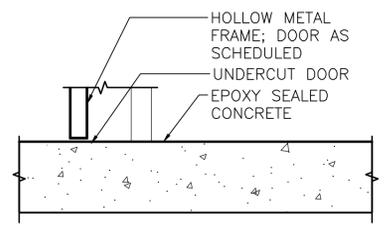
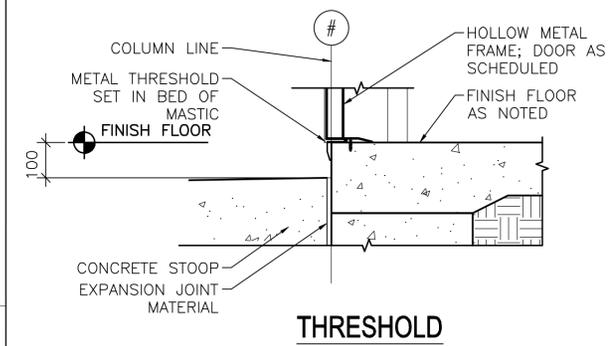
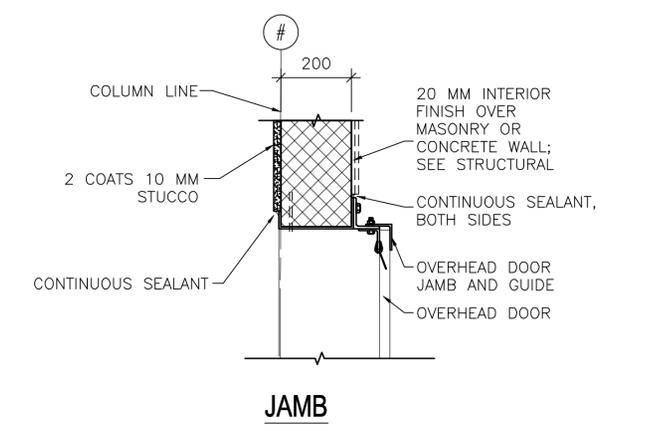
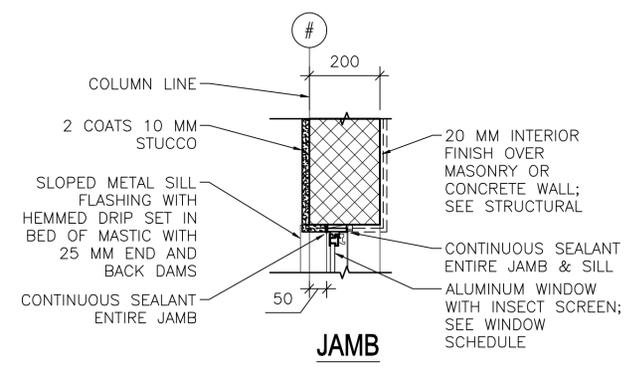
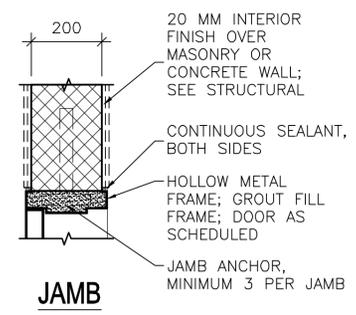
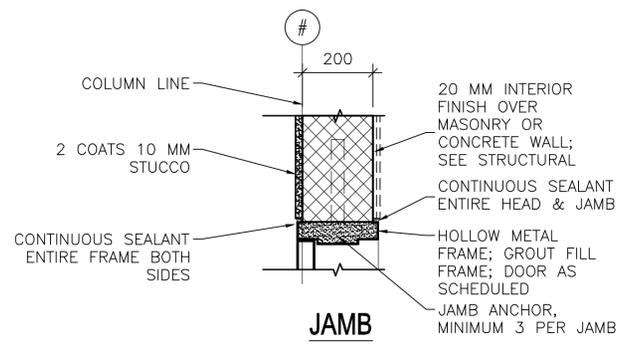
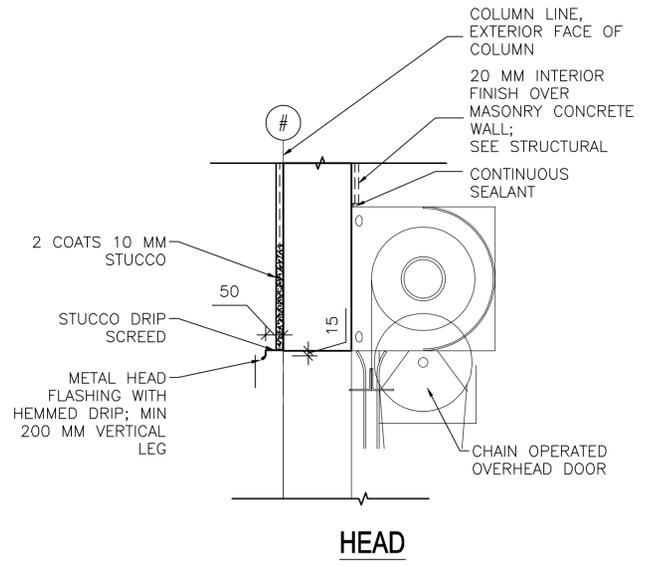
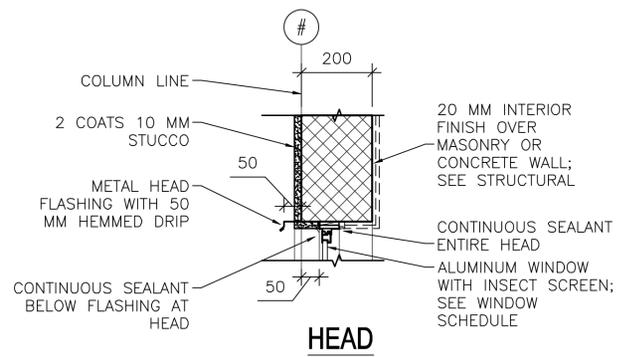
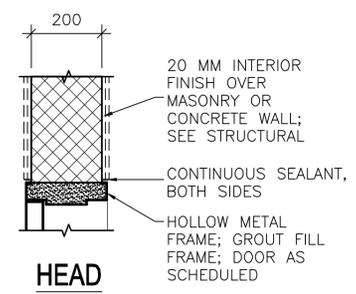
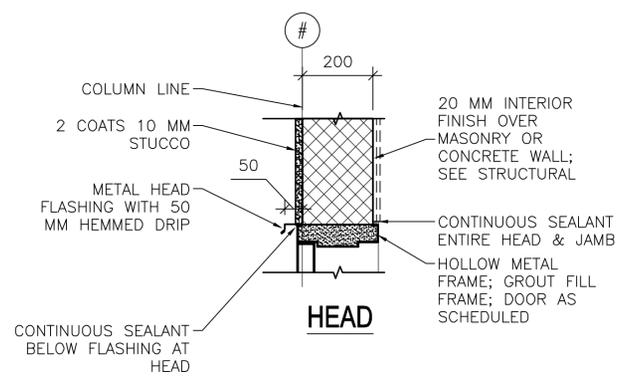
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STANDARD DESIGN

BRIDGALS AND BWT STORAGE  
EXTERIOR DETAILS

Sheet reference number:  
**A-501**



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

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

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

4 OVERHEAD DOOR DETAILS  
A-502 SCALE: 1:10

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

SEAL:   
KEVIN R. CHARIN  
N. Charleston, SC  
6374



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Dwn by: KJG  
Ctd by: NLJ  
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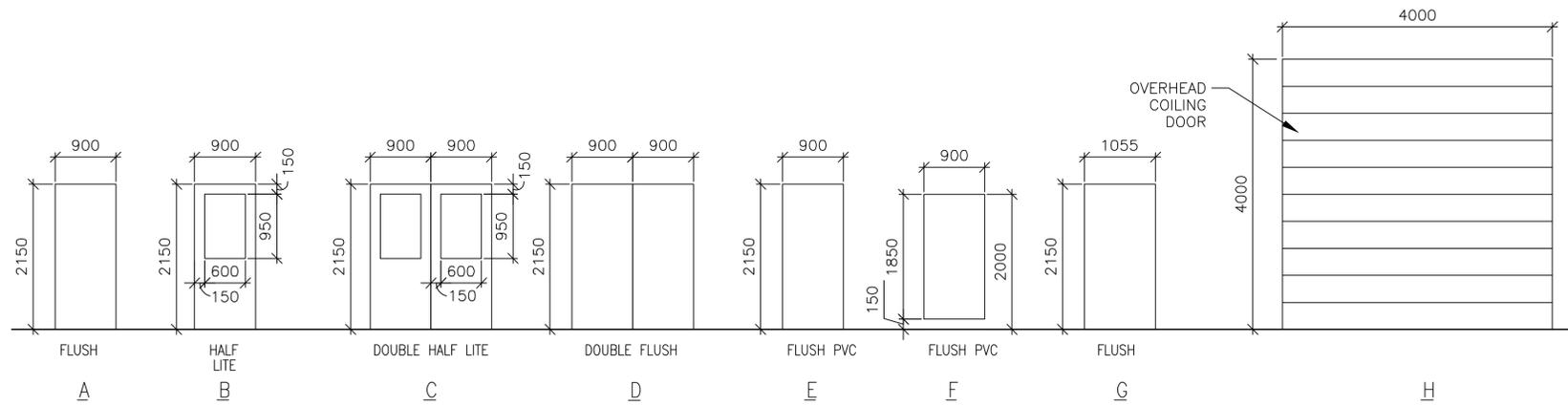
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BRIDGALS AND BWT STORAGE  
HEAD, JAMB & SILL  
DETAILS

Sheet reference number:  
A-502







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



**INTERIOR DOOR HARDWARE TYPES:**

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

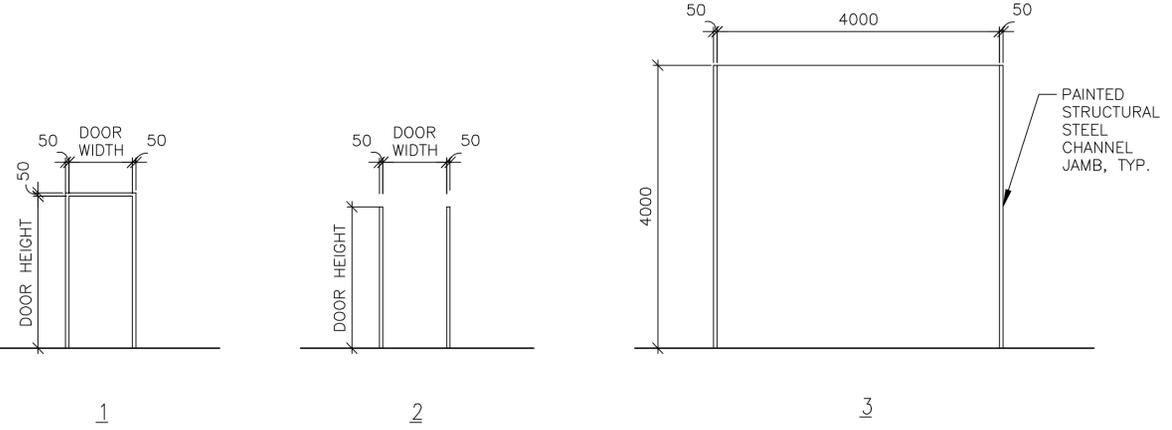
**EXTERIOR DOOR HARDWARE TYPES:**

- 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

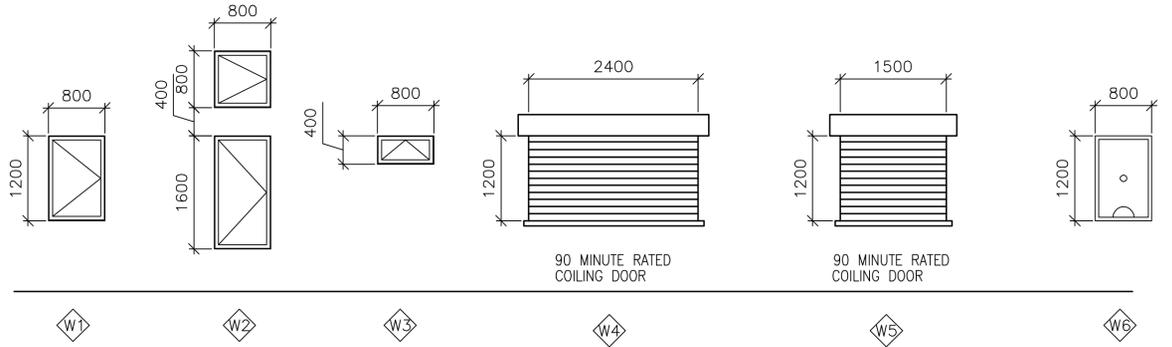
**DOOR AND HARDWARE NOTES:**

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.

**1 DOOR TYPES**  
SCALE: 1:50



**2 FRAME TYPES**  
SCALE: 1:50



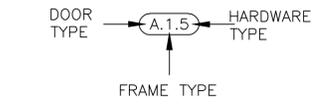
**WINDOW TYPE NOTES:**

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

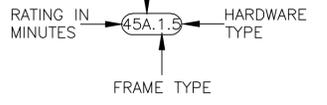
**3 WINDOW TYPES**  
SCALE: 1:50

**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.



**4 DOOR TAG**  
SCALE: NTS



**5 RATED DOOR TAG**  
SCALE: NTS

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



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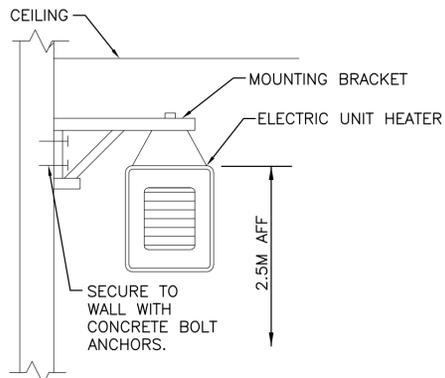
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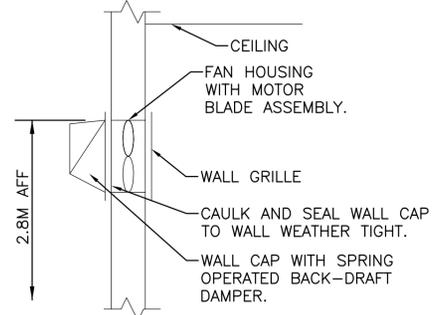
BRIDGALS AND BWT STORAGE

WINDOW AND DOOR SCHEDULES

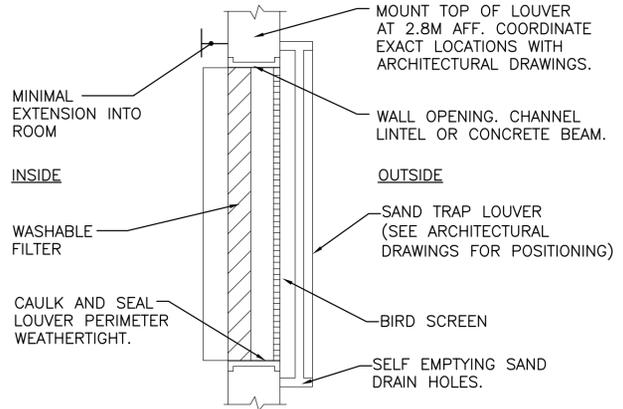
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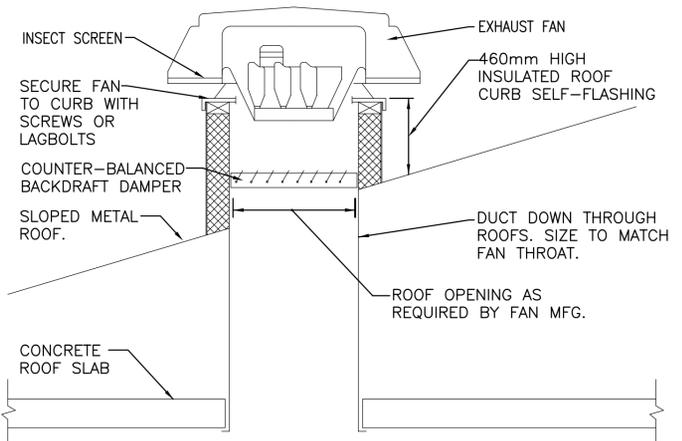
1 ELECTRIC UNIT HEATER MOUNTING DETAIL  
M-101 N.T.S.



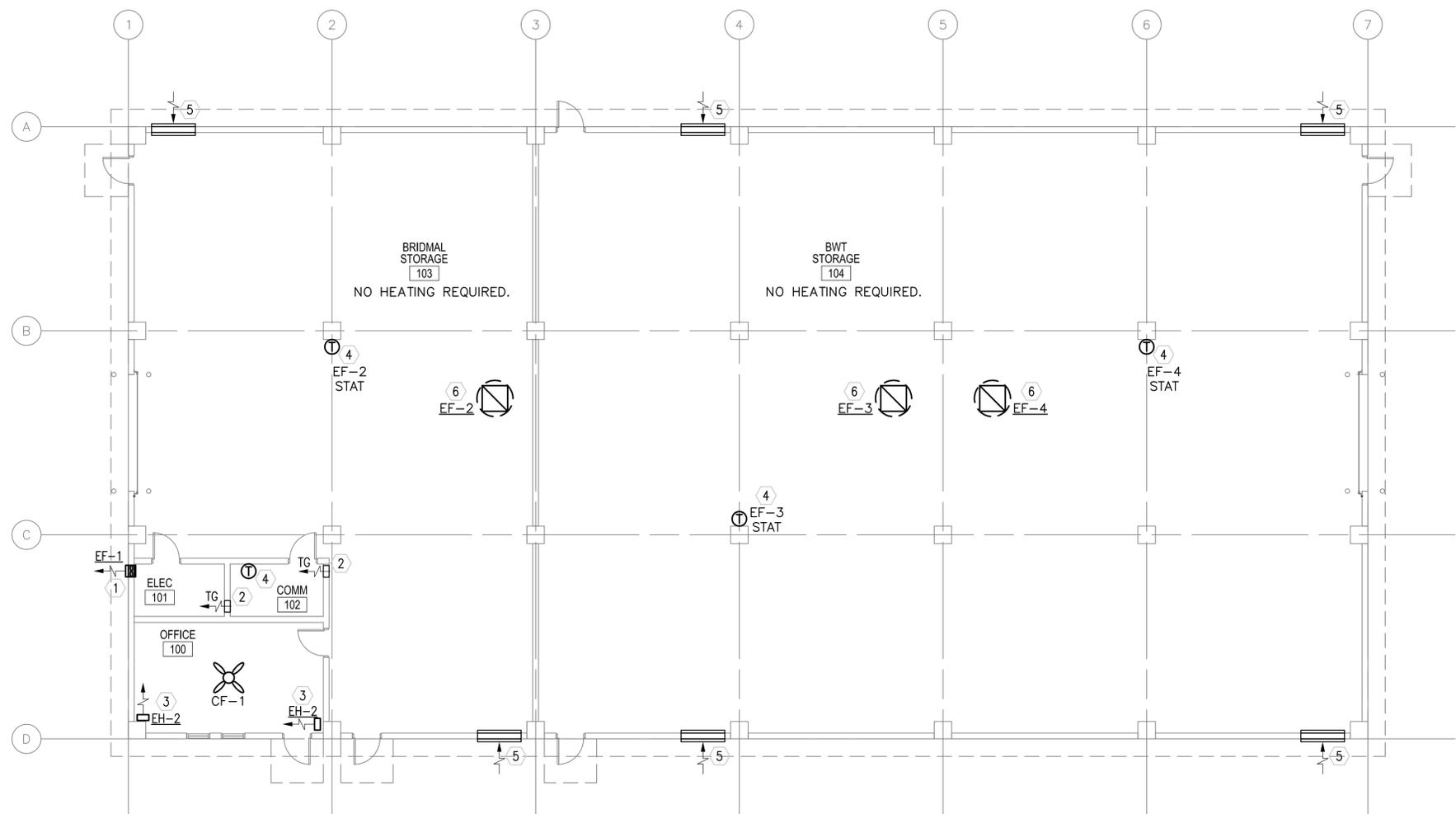
2 WALL EXHAUST FAN DETAIL  
M-101 N.T.S.



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.

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.

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.

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.

APPROVED:

A/E DESIGNER OF RECORD

SEAL:

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0 2000 4000  
SCALE: 1:100



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BRIDMALS AND BWT STORAGE  
HVAC - FLOOR PLAN,  
SCHEDULES AND DETAILS

Sheet reference number:  
M-101







**GENERAL NOTES:**

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

**NUMBERED NOTES:**

- ① 120.0mm<sup>2</sup> 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 120mm<sup>2</sup> LIGHTNING PROTECTION CABLE.
- ⑤ AIR TERMINAL. TERMINALS SHALL BE PLACED AT OR WITHIN 0.6M OF RIDGE VENTS PER NFPA 780 PARA. 4.8. (TYPICAL)
- ⑥ 700mm MIN. (TYP) BETWEEN FOUNDATION AND GROUND LOOP.
- ⑦ AIR TERMINAL ON ROOFTOP FAN.



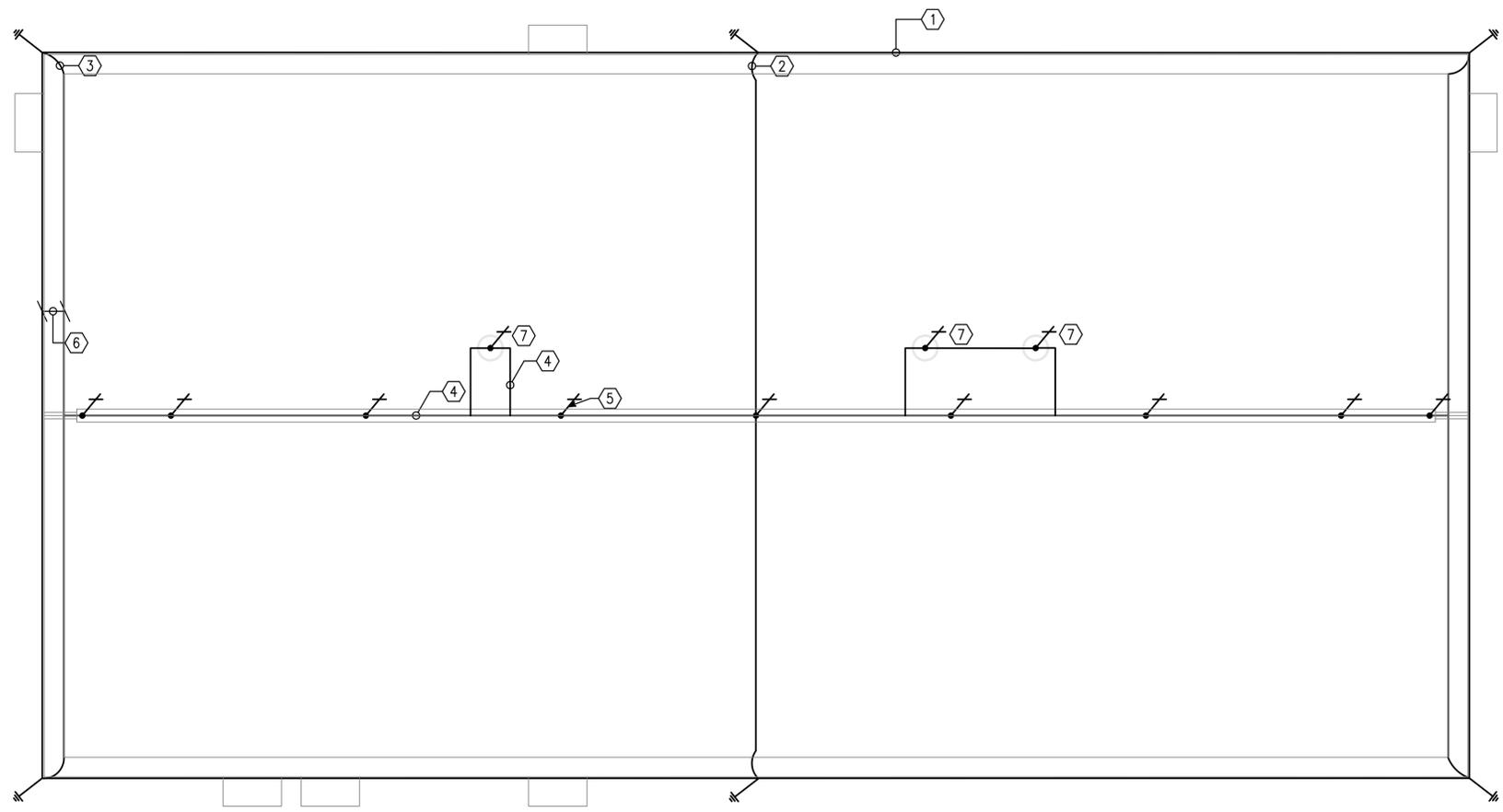
Rev.	Date	Description
0	2/23/10	

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

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STANDARD DESIGN

BRIDMAL AND BWT STORAGE  
ELECTRICAL LIGHTNING PROTECTION PLAN

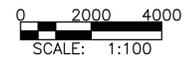
Sheet reference number:  
**E-103**



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E-103

**BRIDMAL STORAGE/BWT STORAGE  
FLOOR PLAN - LIGHTNING PROTECTION**

SCALE: 1:100

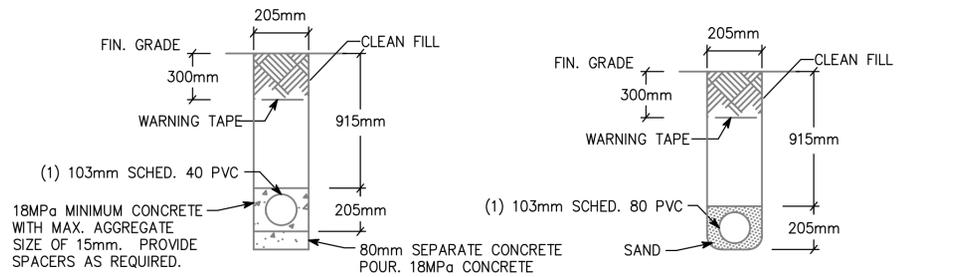


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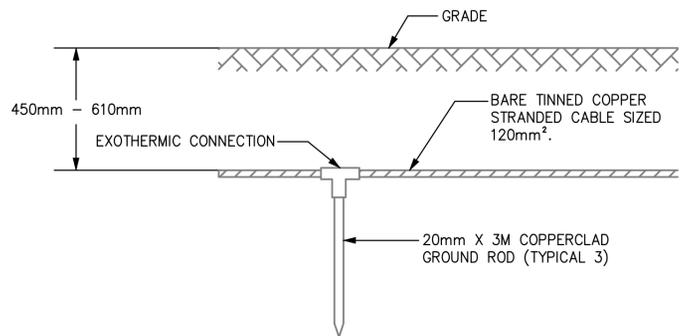
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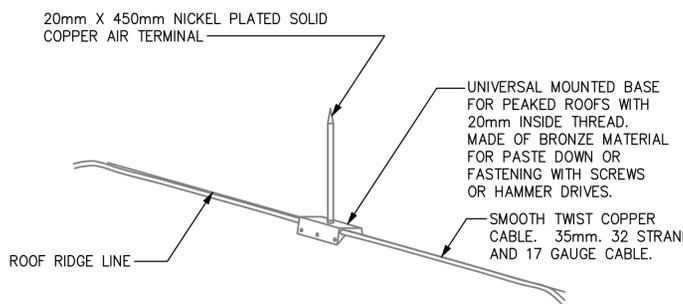


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

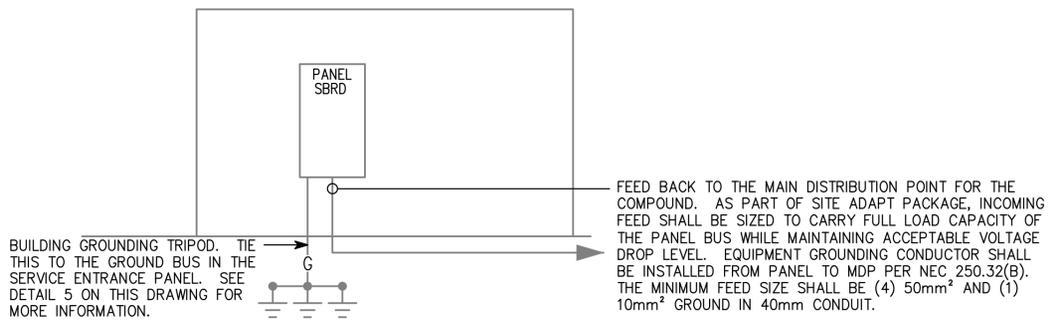
**1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE**  
SCALE: N.T.S.



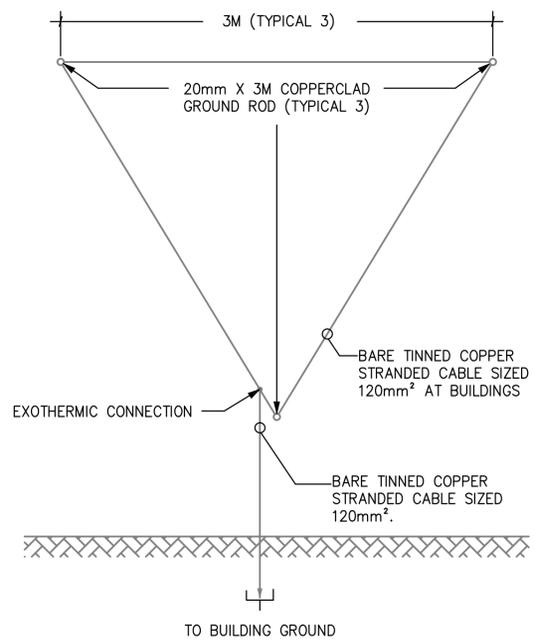
**2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION**  
SCALE: N.T.S.



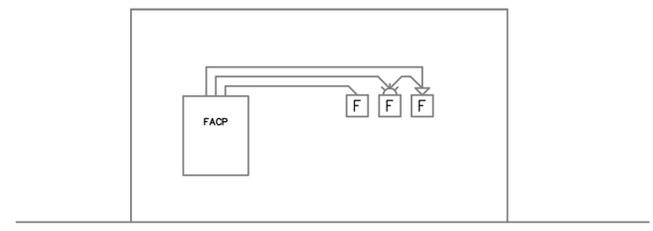
**3 LIGHTNING PROTECTION AIR TERMINAL DETAIL**  
SCALE: N.T.S.



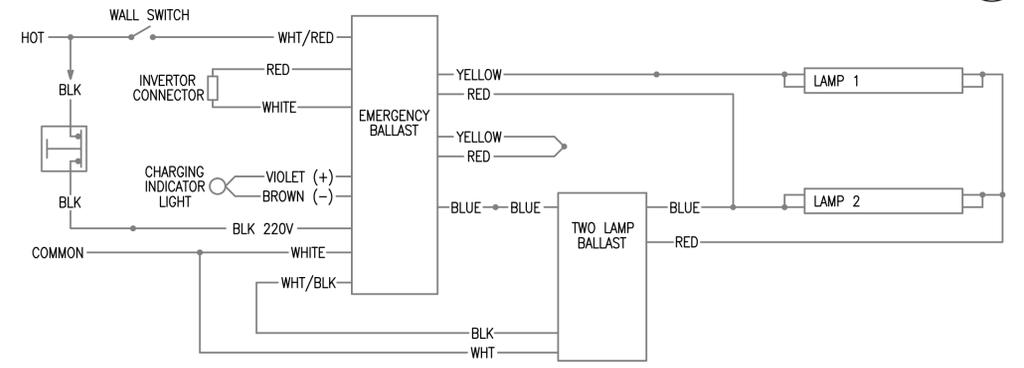
**4 SBRD RISER DIAGRAM**  
SCALE: N.T.S.



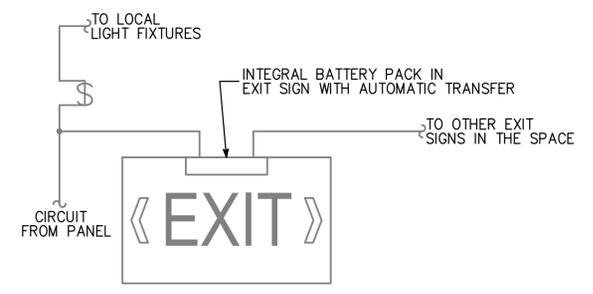
**5 GROUND TRIPOD SYSTEM DETAIL - PLAN**  
SCALE: N.T.S.



**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.

Rev.	Date	Design file no.	Drawing code:	File name:	Plot date:	Plot scale:
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Designed by:	KUR
Drawn by:	BUB
Checked by:	JRG
Reviewed by:	JRG
Submitted by:	BAKER

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AFGHANISTAN ENGINEER DISTRICT  
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A unit of Michael Baker Corporation  
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BRIDGEMAS AND BWT STORAGE  
ELECTRICAL DETAILS

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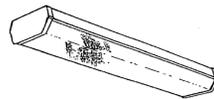
FIXTURE MARK 'A'



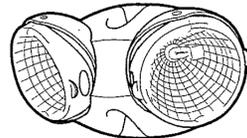
FIXTURE MARK 'C'



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 IRADESCENCE 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 IRADESCENCE 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	
<b>E</b>	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
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BRIDMALS AND BWT STORAGE  
ELECTRICAL LIGHTING FIXTURE SCHEDULE

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