

AFGHAN NATIONAL ARMY

STANDARD BUILDING DESIGN

PX/FINANCE OFFICE

100% FINAL DESIGN SUBMITTAL



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Rev.	Date	Description	Mark	Appr.	Date
0					

Designed by:	KRC	Checked by:	NLJ	Date:	2/23/10
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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

PX/FINANCE OFFICE

COVER SHEET

Sheet reference number:
G-001

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G-001 COVER SHEET

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STRUCTURAL ABBREVIATIONS:

Table listing structural abbreviations and their full names, such as ACI (American Concrete Institute), AISC (American Institute of Steel Construction), and ASTM (American Society for Testing and Materials).

GENERAL NOTES:

- 1.1 THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE SHEETS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.

CONCRETE

- 3.1 CONCRETE SHALL HAVE THE UNIT WEIGHT OF 2400 kg/m³ AND A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 28 MPa AT 28 DAYS. ALL CONCRETE SHALL HAVE A WATER-CEMENT RATIO OF 0.45. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION, ENTRAIN AIR TO PRODUCE TOTAL AIR CONTENT ACCORDING TO THE SPECIFICATIONS FOR CONCRETE EXPOSED TO FREEZING TEMPERATURES (EXTERIOR FOOTINGS, SLAB TURNDOWNS, EXTERIOR SLABS AND SLABS-ON-GRADE, EXTERIOR RETAINING WALLS, AND EXTERIOR GRADE BEAMS.)

CONCRETE MASONRY

- 4.1 MASONRY CONSTRUCTION SHALL CONFORM TO SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1) UON.
- 4.2 STRENGTH OF MASONRY MATERIALS SHALL BE AS FOLLOWS:

STRUCTURAL DESIGN CRITERIA

- 6.0 STRUCTURAL DESIGN CRITERIA
- 6.1 ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE IBC 2006 AND UFC AS APPLICABLE.
- 6.2 DESIGN LOADS
- 6.2.1 DEAD LOADS (PER IBC 2006 & UFC 3-310-01)



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

Design and drawing information including: Date: 2/23/10, Design file no., Drawing code, File name: ANAPY05-010N, Plot date: 2/22/2010, Plot scale: XX.

Professional Engineer information for Michael Baker, Inc. APO AE 96338, State of Georgia, License No. 27141.

APPROVED: [Signature] A/E DESIGNER OF RECORD. SEAL: [Professional Engineer Seal]

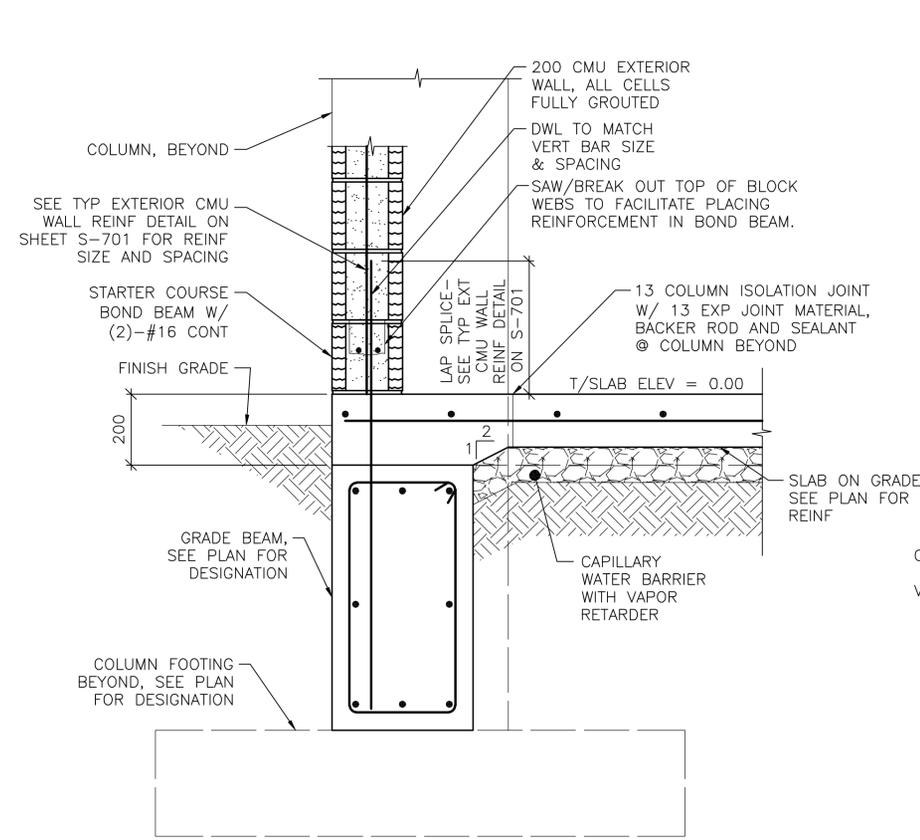
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C

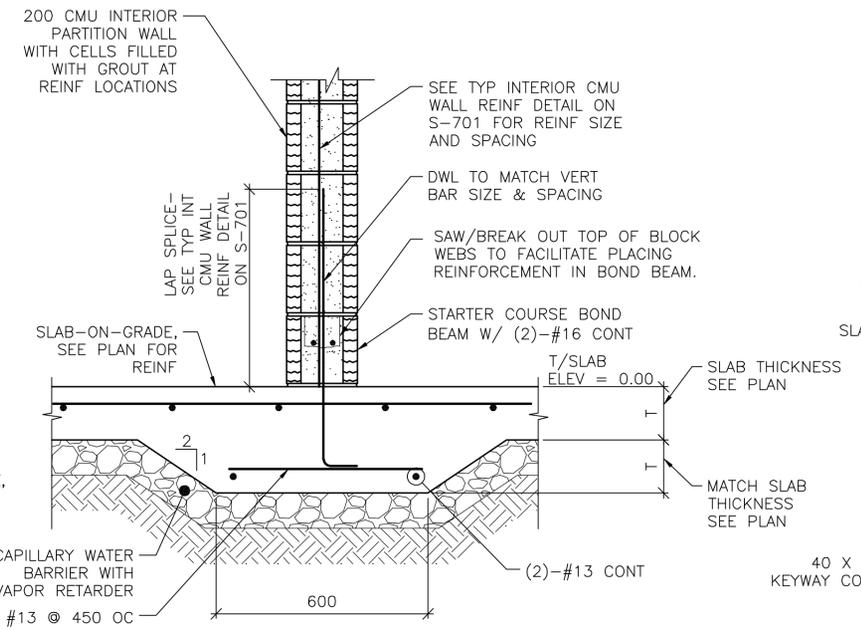
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A

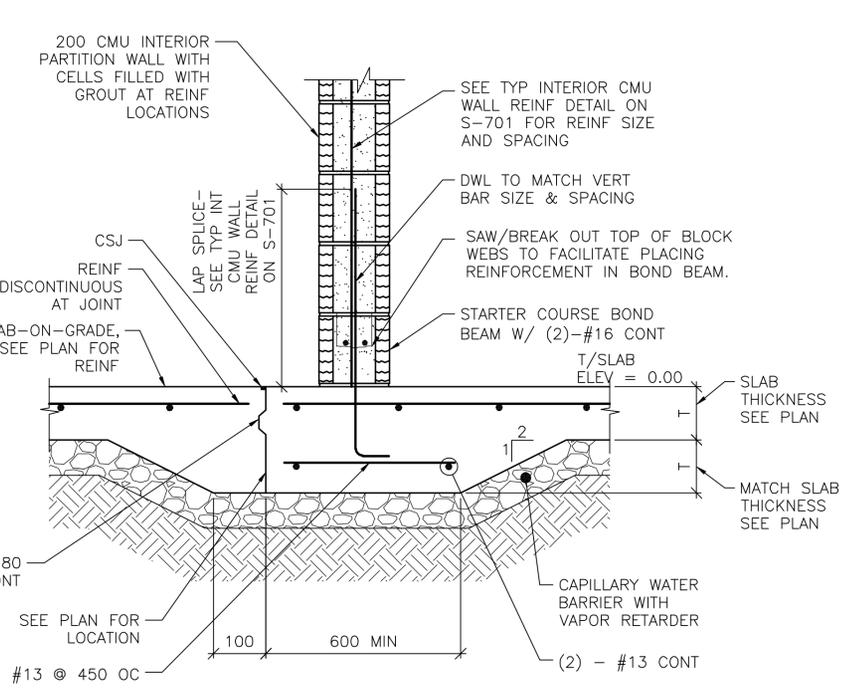


1 SECTION
S-101 SCALE: 1:10

NOTE:
1. SECTION IS SIMILAR FOR INTERIOR CMU PARTITIONS OVER GRADE BEAMS SHOWING THICKENED 200 CONC SLAB AREA.

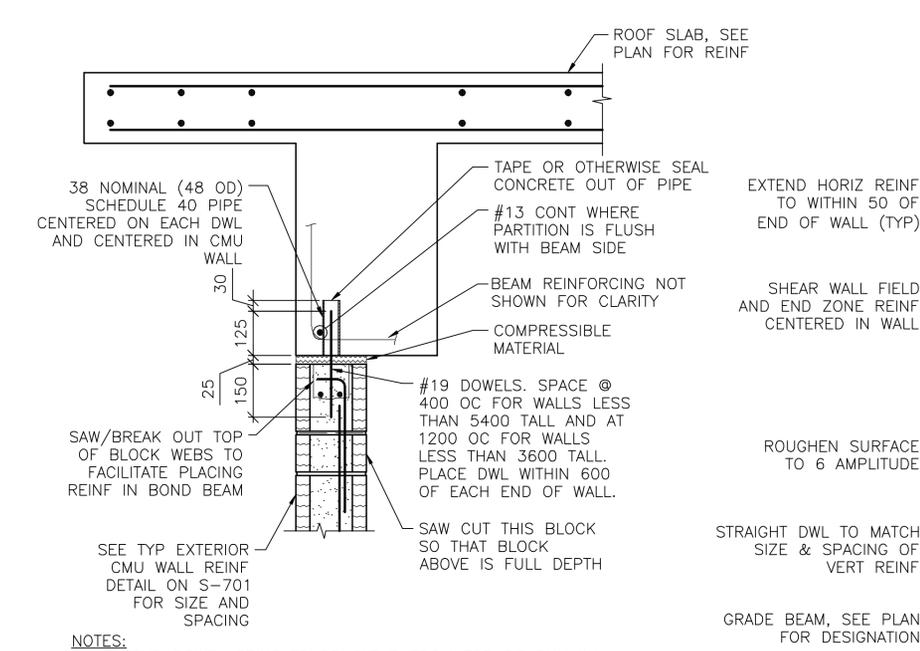


2 SECTION
S-101 SCALE: 1:10



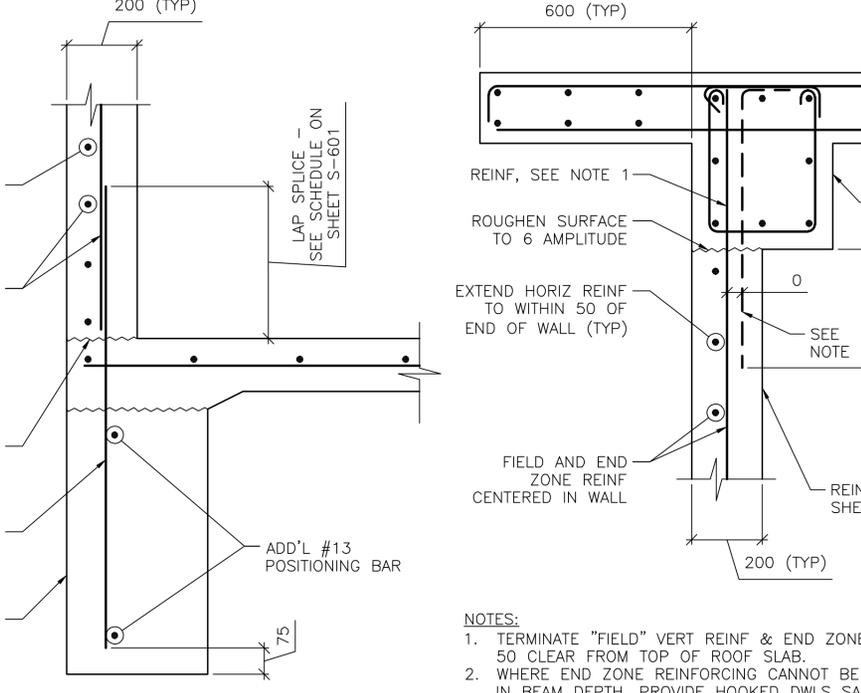
3 SECTION
S-101 SCALE: 1:10

NOTE:
1. DETAIL IS APPLICABLE AT CONTROL JOINTS RUNNING PARALLEL TO CMU WALLS AND WITHIN 300 OF FACE OF WALL.



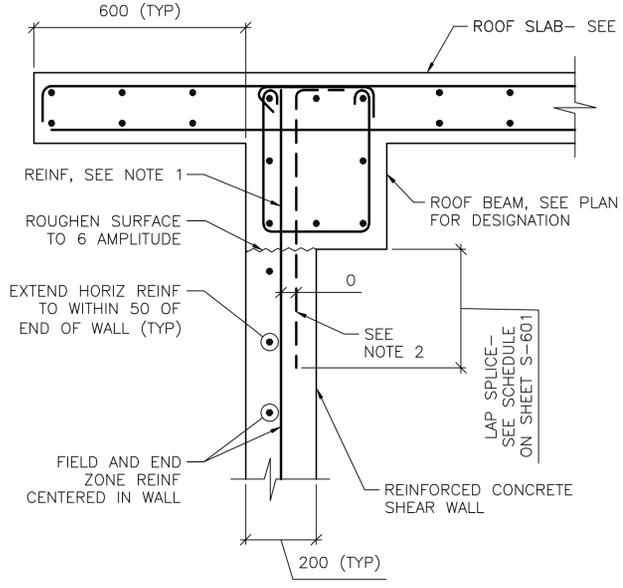
4 SECTION
S-101 S-101 SCALE: 1:10

NOTES:
1. EXTEND DOWEL REINF TO 25 CLEAR FROM TOP OF CMU WALL.
2. SIM IS AT INTERIOR BEAM LOCATION.
3. LOCATION OF PARTITION WALLS VARIES FROM DEPICTED VIEW.



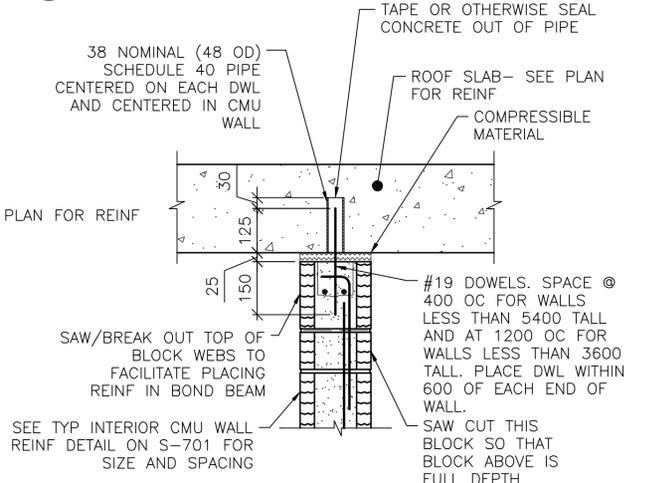
5 SECTION
S-101 SCALE: 1:10

NOTES:
1. SECTION DEPICTS SHEAR WALL TERMINATION ONLY. GRADE BEAM REINFORCING NOT SHOWN FOR CLARITY.
2. SEE SHEET S-601 AND SHEET S-702 FOR SCHEDULED FIELD AND END ZONE REINF.



6 SECTION
S-101 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.



7 SECTION
S-101 SCALE: 1:10

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



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

APPROVED:
Chin Muto
A/E DESIGNER OF RECORD

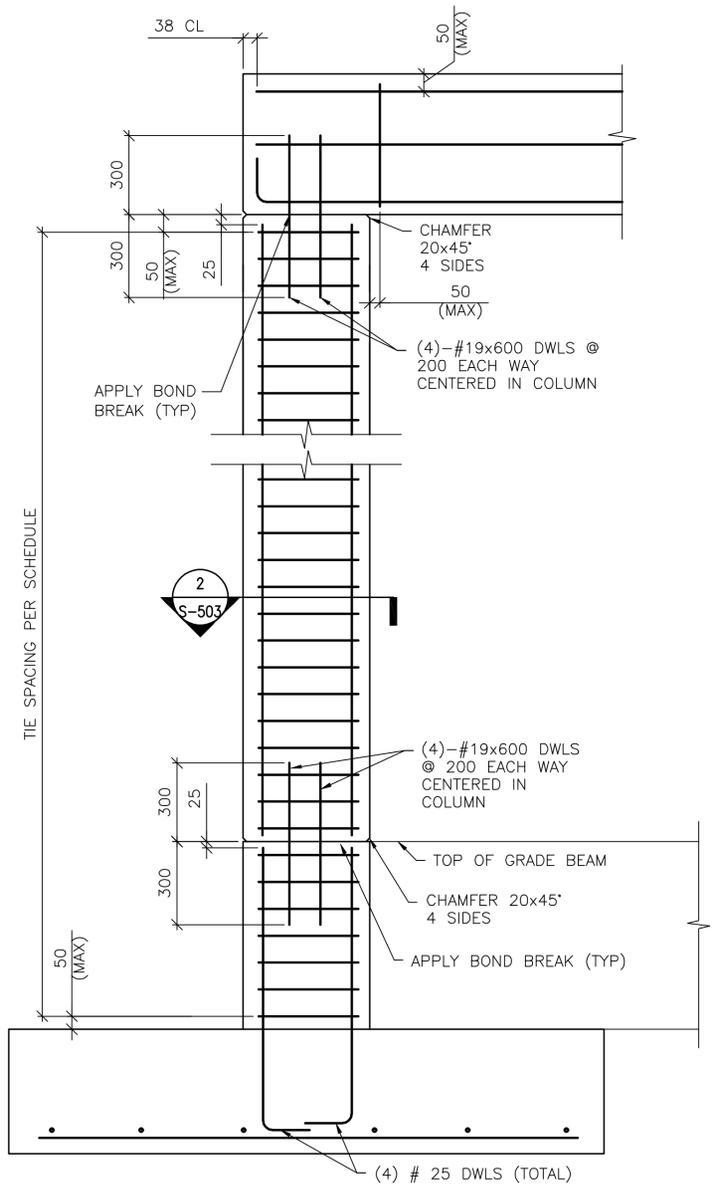


Rev.	Date	Description
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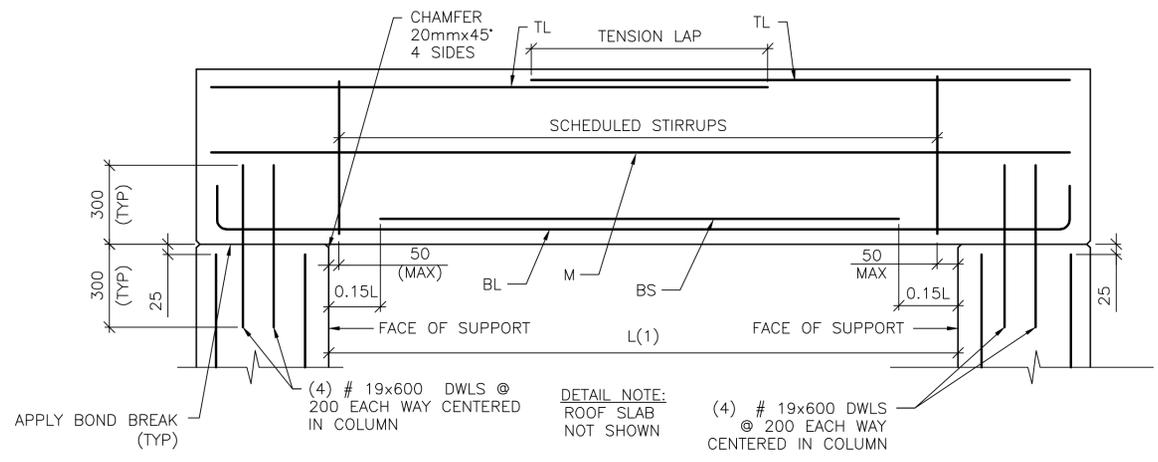
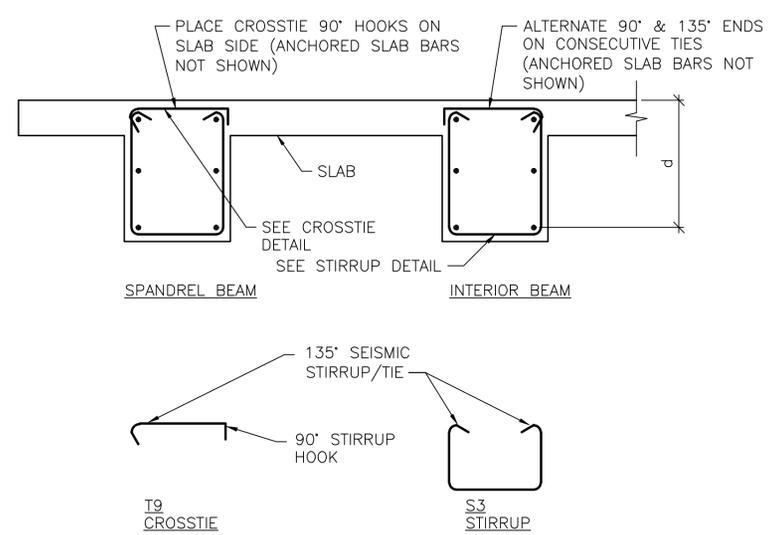
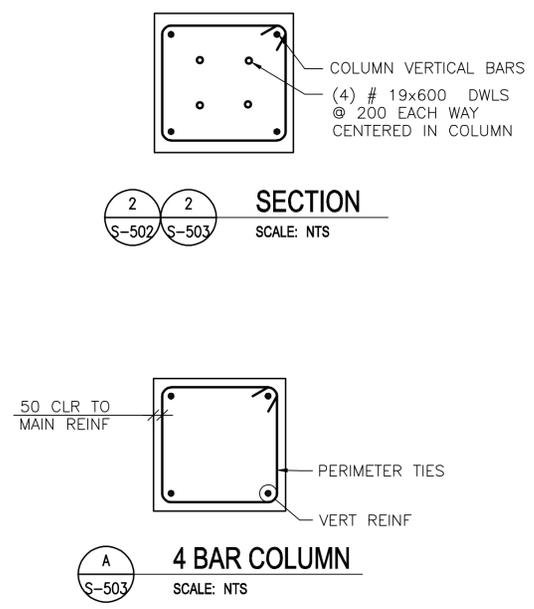
Designed by:	KMP/MMY
Dwn by:	RCG
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Submitted by:	BAKER
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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
PX/FINANCE OFFICE
FOUNDATION & FRAMING SECTIONS

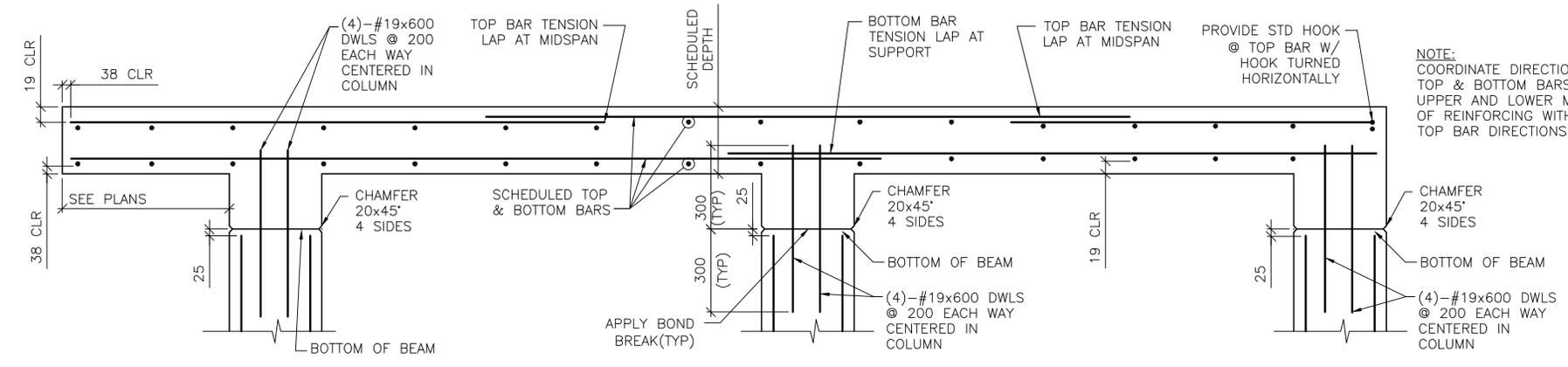
Sheet reference number:
S-501



1
S-503
1-STORY COLUMN REINF DETAILS
SCALE: NTS



3
S-503
SINGLE SPAN ROOF BEAM REINFORCING DETAIL
SCALE: NTS



4
S-503
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 Minto
A/E DESIGNER OF RECORD

SEAL:



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

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

U.S. ARMY CORPS OF ENGINEERS
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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

PX/FINANCE OFFICE

BEAM & COLUMN DETAILS

Sheet reference number:
S-503

CONCRETE REINFORCEMENT TENSION DEVELOPMENT/LAP SPLICE SCHEDULE

f'c = 28 MPa					
BAR SIZES	LAP CLASS	UNCOATED BARS			
		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#10 TO #19	A	50 BAR DIA	74 BAR DIA	38 BAR DIA	57 BAR DIA
	B	64 BAR DIA	96 BAR DIA	50 BAR DIA	74 BAR DIA
#22 TO #57	A	62 BAR DIA	93 BAR DIA	48 BAR DIA	71 BAR DIA
	B	80 BAR DIA	121 BAR DIA	62 BAR DIA	93 BAR DIA

- NOTES:**
- TABULATED TENSION DEVELOPMENT LENGTH VALUES ARE TAKEN FROM CRSI DESIGN HANDBOOK 2008 10TH ED.
 - TENSION DEVELOPMENT & TENSION LAP SPLICE LENGTHS ARE EXPRESSED AS MULTIPLES OF BAR DIAMETERS.
 - TABULATED VALUES ARE BASED ON MINIMUM YIELD STRENGTH OF REINFORCEMENT, fy, OF 420MPa.
 - CONCRETE IS NORMAL WEIGHT (2400Kg/m³) AND 28 DAY COMPRESSIVE STRENGTH = 28MPa.
 - TABULATED VALUES FOR BEAMS & COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS.
 - CASES 1 & 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED IN THE TABLE BELOW.
 - LAP SPLICE LENGTHS (MINIMUM 300mm) ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS: CLASS A = 1.0(TENSION DEVELOPMENT LENGTH) & CLASS B = 1.3(TENSION DEVELOPMENT LENGTH)
 - TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 300mm OF CONCRETE CAST BELOW THE BARS.
 - IT SHALL BE PERMISSIBLE TO CALCULATE WALL AND SLAB REINFORCEMENT TENSION DEVELOPMENT/SPLICE LENGTHS IN ACCORDANCE WITH ACI 12.2.3 OR TABLE 5.3(b) OF CRSI 2008 IN LIEU OF VALUES TABULATED ABOVE.

BEAMS, COLUMNS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 2 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 2 BAR DIA
ALL OTHERS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 3 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 3 BAR DIA

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS LISTED BELOW: (SEE ACI 318M-05, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm. PROVIDE STANDARD BAR CHAIRS AND SUPPORT BARS @1200mm MAXIMUM AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

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

COLUMN FOOTING SCHEDULE

MARK	FOOTING SIZE (mm)			FOOTING REINFORCING	REMARKS
	LENGTH	WIDTH	THICKNESS		
F1	3000	3000	350	(8)-#19 EW BOTT	-----

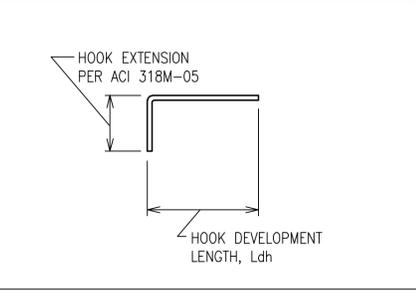
CONCRETE SHEAR WALL SCHEDULE

MARK	TYPE	WALL LENGTH (L) (mm)	WALL REINFORCEMENT		REMARKS
			END ZONE	FIELD	
SW1	B	3900	(2)-#16 @ 150mm OC	#13 @ 250mm OC	-----
SW2	B	3750	(6)-#22 @ 300mm OC	#13 @ 250mm OC	-----
SW3	B	3850	(6)-#22 @ 300mm OC	#13 @ 250mm OC	-----
SW4	A	2600	(4)-#22 @ 300mm OC	#13 @ 250mm OC	-----

- NOTES:**
- WORK THIS SCHEDULE WITH SHEAR WALL DETAILS ON SHEETS S-702
 - SEE PLAN FOR LOCATION OF SHEAR WALL(S).
 - WALL "FIELD" REINFORCEMENT LISTED APPLIES TO VERTICAL & HORIZONTAL BARS.
 - WALL "FIELD" REINFORCEMENT SHOULD BE CENTERED IN WALL.
 - VERTICAL "FIELD" BARS MAY BE OMITTED IN LOCATION OF "END ZONE" REINFORCEMENT.

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

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

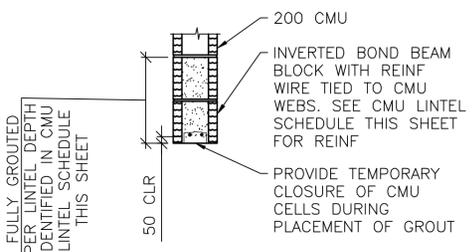


- NOTES:**
- CONCRETE IS NORMAL WEIGHT CONCRETE.
 - BAR YIELD STRENGTH, fy = 420 MPa
 - SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
 - REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
 - HOOK DEVELOPMENT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

CMU OR CAST IN PLACE CONC LINTEL SCHEDULE (TYP)

OPENING TYPE OR SIZE, BEAM LOCATION OR TYPE	MAX SPAN (mm)	LINTEL DEPTH (mm)	REINFORCING BOTTOM
WALL OPENING	4000	600	(2)-#16 T&B
WALL OPENING	1900	400	(2)-#16 T&B
WALL OPENING	1000	400	(2)-#13 B

1. STRUCTURAL SHEETS DO NOT INDICATE ALL OPENINGS IN MASONRY WALLS. VERIFY NUMBER, SIZE AND LOCATION OF ALL OPENINGS IN MASONRY WALLS FROM ARCHITECTURAL SHEETS AND APPROVED PLUMBING, MECHANICAL, AND ELECTRICAL SHOP DRAWINGS.
2. PROVIDE 200mm BEARING EA END.
3. FOR HEAD DETAILS REFER TO ARCHITECTURAL SHEETS.
4. REINFORCING SHALL BE ASTM A615M, GRADE 420. GROUT FOR CMU LINTELS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 14 MPa AT 28 DAYS.
5. CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS AND SCHEDULES SHOWING SIZE, SPAN, REINFORCEMENT, DETAILS, LOCATIONS, ETC.



LINTEL DETAIL
SCALE: NTS

BEAM SCHEDULE

MARK	BEAM SIZE (mm)		BEAM REINFORCING						STIRRUPS			REMARKS	
	DEPTH	WIDTH	BL	BS	TL	TS	TC	M	SIZE	TYPE	SPACING		
GRADE BEAMS													
GB1	750	400	(2)-#29	(1)-#29	(2)-#25	---	---	#19 EF	#13	S3 +T9	d/2	-----	
ROOF BEAMS													
RB1	500	400	(2)-#22	(1)-#22	(2)-#25	---	---	---	#13	S3 +T9	d/2	-----	

- NOTES:**
- WORK THIS SCHEDULE WITH BEAM REINFORCING DETAILS ON SHEETS S-503.
 - HOOKE SHOWN ON SECTIONS AND DETAILS SHALL BE 90° STD UON.
 - USE ONLY (1) TC AT BEAM COLUMN INTERSECTION WHERE REQ'D.

COLUMN SCHEDULE

DESCRIPTION	COLUMN MARK	TYP UON	---	---	---
TYPE		4-BAR	---	---	---
DIMENSIONS		500mm SQ	---	---	---
VERTICAL REINFORCEMENT		(4)-#29	---	---	---
TIES		#13 @ d/2	---	---	---
TOP OF ROOF ELEVATION		3500mm	---	---	---
TOP OF GRADE BEAM ELEVATION		-200mm	---	---	---
TOP OF FOOTING ELEVATION		-950mm	---	---	---

- NOTES:**
- WORK THIS SCHEDULE WITH COLUMN DETAILS ON SHEET S-504.
 - SEE FOOTING SCHEDULE ON THIS SHEET FOR FOOTING INFORMATION.
 - COLUMN TIES: INTERIOR TIES TO MATCH SIZE & SPACING OF PERIMETER TIES.
 - HOOKE SHOWN ON SECTIONS & DETAILS SHALL BE 90° STD UON.



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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

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SCHEDULES

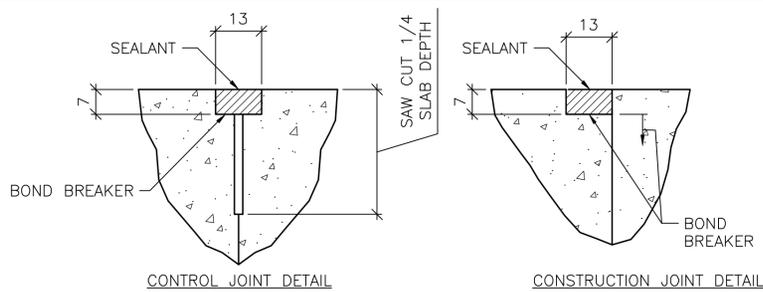
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APPROVED:
Chin M...
A/E DESIGNER OF RECORD

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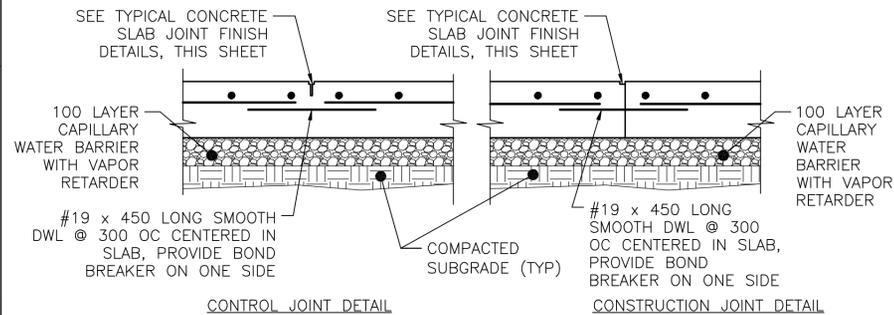


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S-601



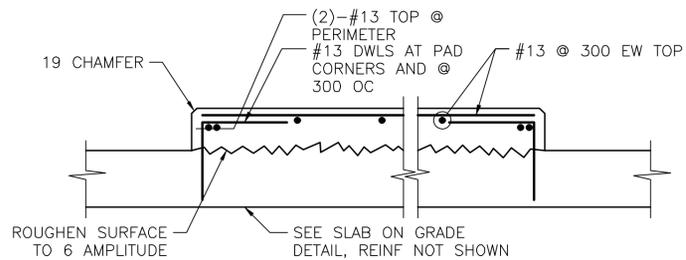
TYPICAL CONCRETE SLAB JOINT FINISH DETAILS

1
S-701 SCALE: NTS



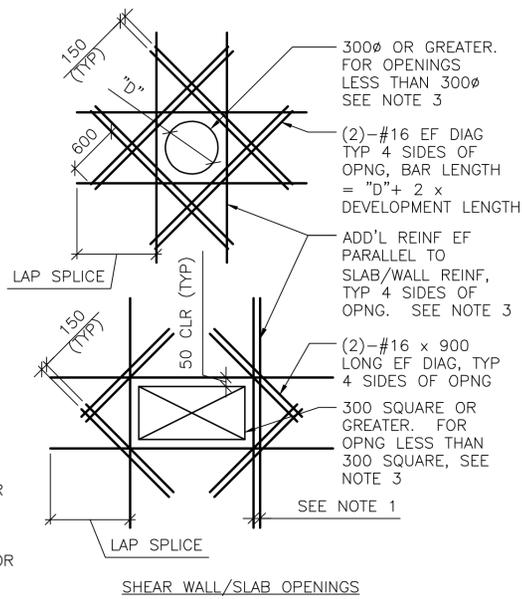
TYPICAL SLAB ON GRADE JOINT DETAIL

2
S-701 SCALE: NTS



INTERIOR EQUIPMENT PAD DETAIL

3
S-701 SCALE: NTS

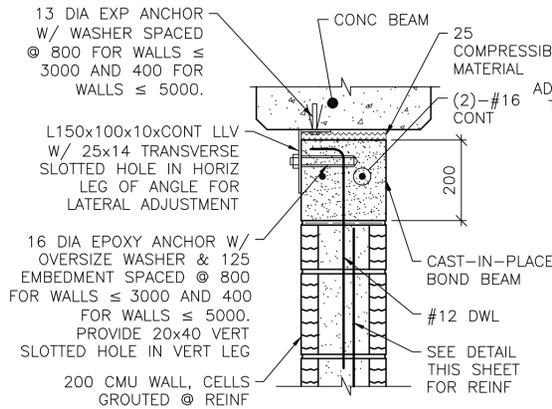


RE-ENTRANT CORNERS

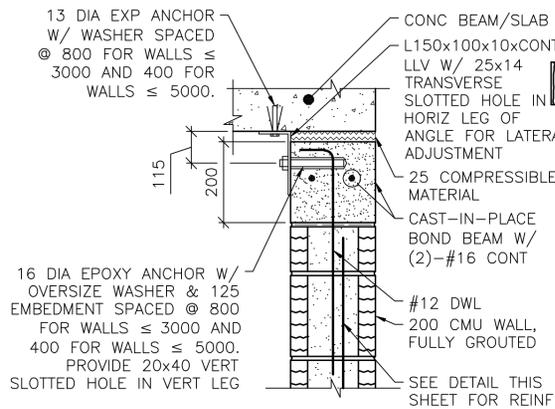
- DETAIL NOTES:**
- WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINFORCING THE ADDITIONAL REINFORCING BARS SHALL BE SPACED AT 100 ON CENTER.
 - ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #16 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE 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



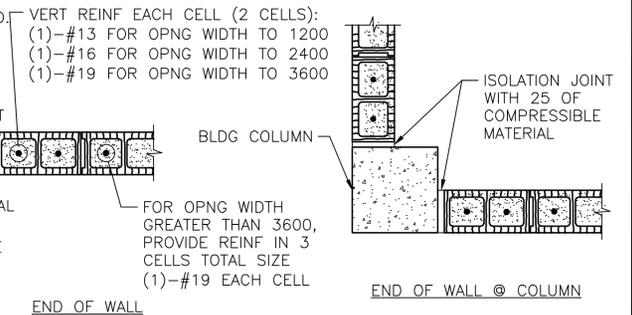
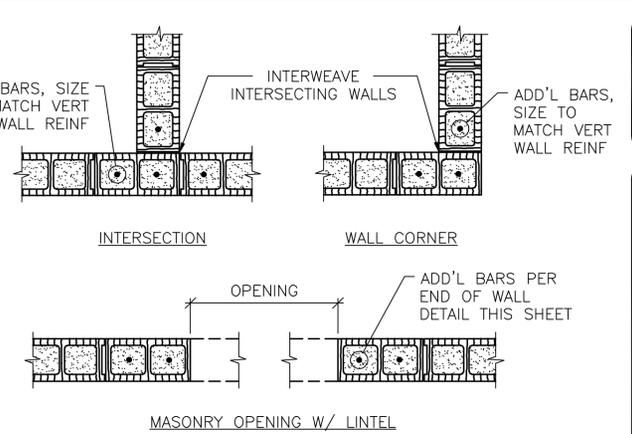
- NOTE:**
- AT ANCHOR BOLTS, ADD AN ADDITIONAL 25 COMPRESSIBLE MATERIAL BELOW EXP ANCHOR HEAD.



- 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

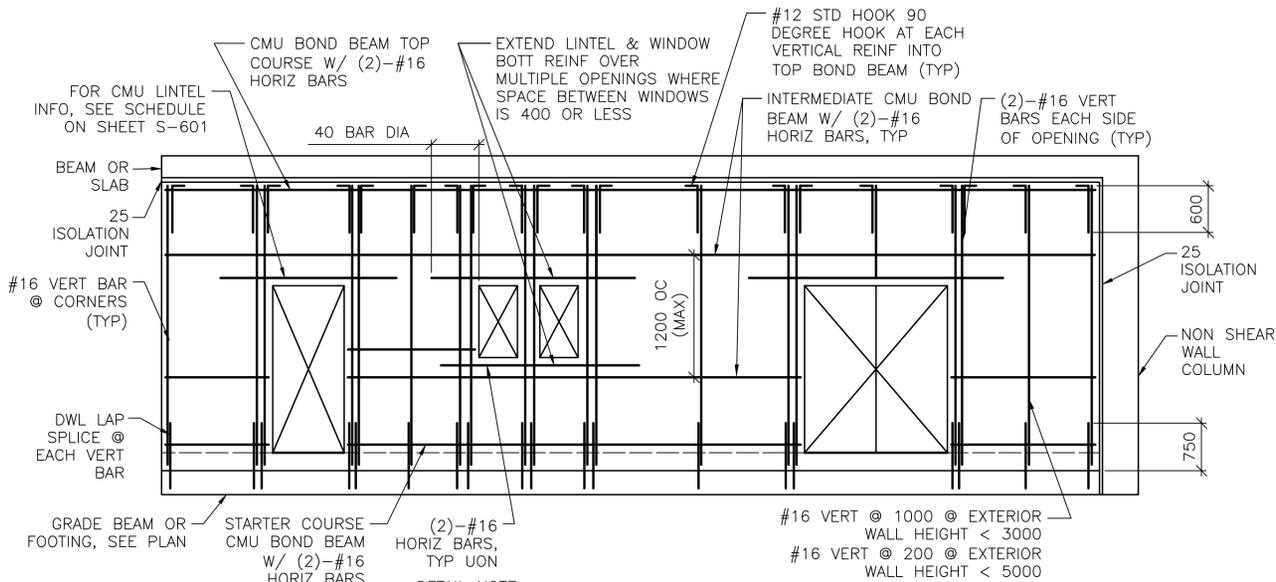
5
S-701 SCALE: NTS



- 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

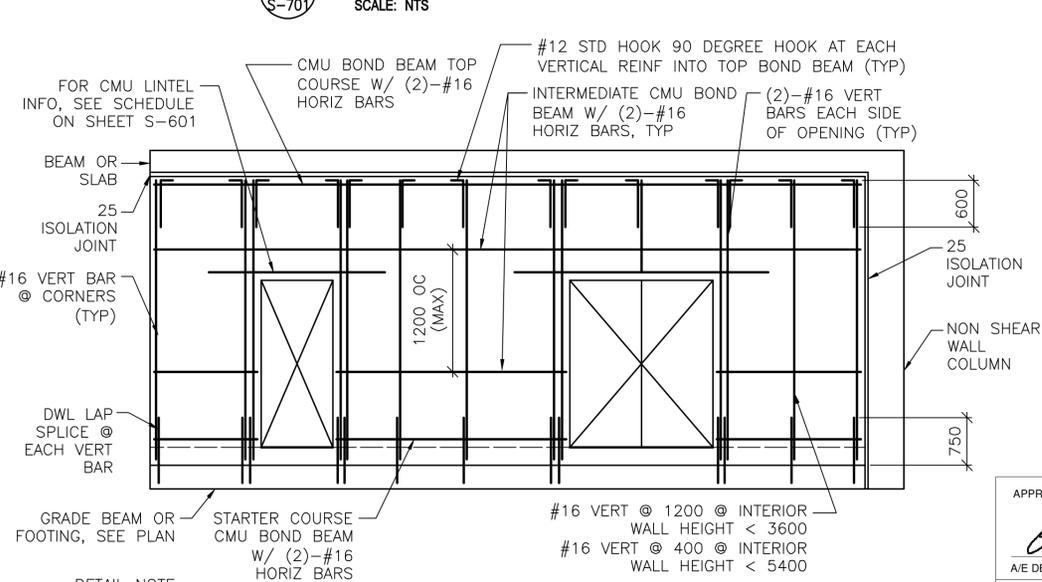
6
S-701 SCALE: NTS



- 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



- 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

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

APPROVED:

Chris W...
A/E DESIGNER OF RECORD

SEAL:



US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

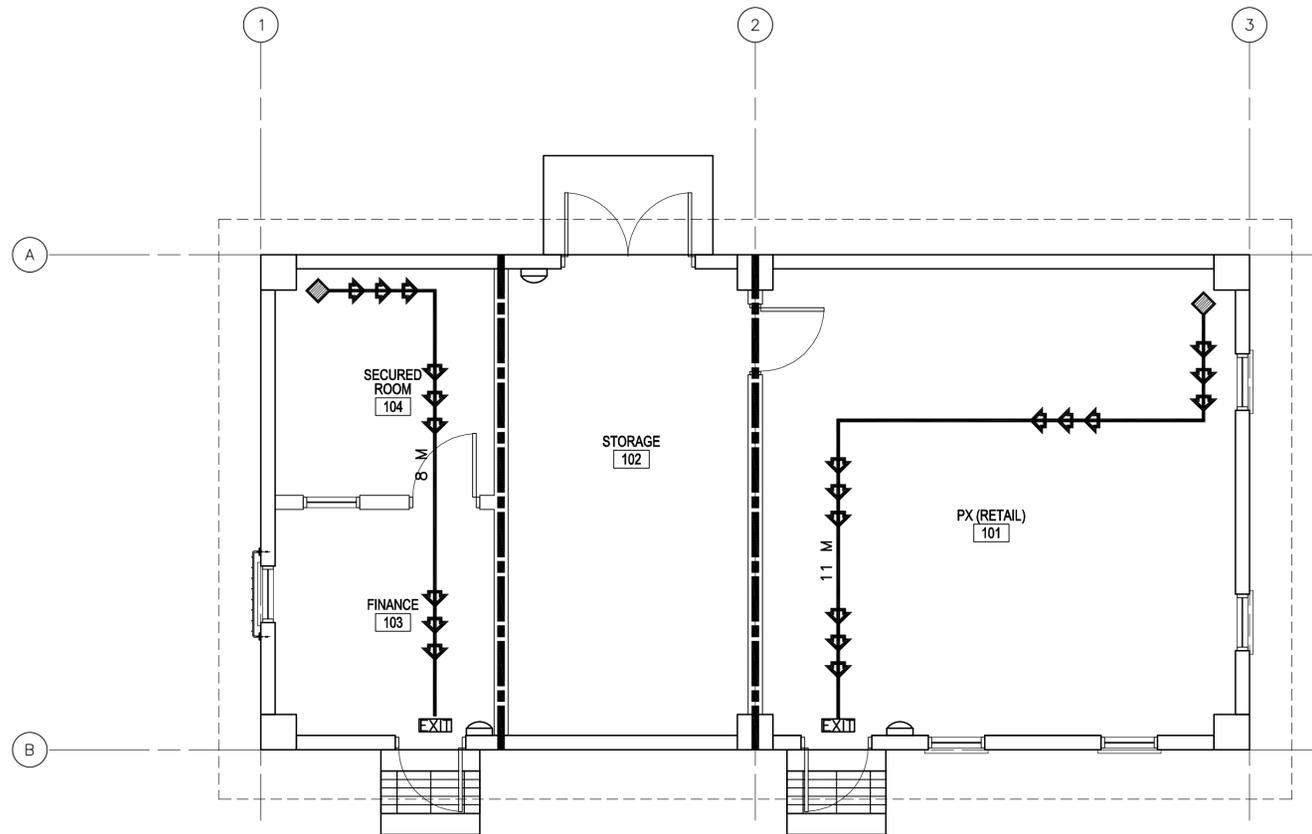
Date	Rev.	Description	Mark
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Designed by:	KMP/AMMY
Dwn by:	RCG
Reviewed by:	LHM
Submitted by:	BAKER
Date:	2/23/10
Design file no.:	
Drawing code:	
File name:	ANAFY05-0101D
Plot date:	2/22/2010
Plot scale:	KX

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Michael Baker, Inc.
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TYPICAL DETAILS

Sheet reference number:
S-701



1 LIFE SAFETY PLAN
SCALE: 1:50

CODE ANALYSIS:

- REFERENCES:**
2006 INTERNATIONAL BUILDING CODE (2006 IBC)
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:**
GROUP B (BUSINESS NFPA 101 6.1.11 AND CHAPTER 38)
- TYPE OF CONSTRUCTION (IBC):** TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:**
GROUP B
ALLOWABLE AREA: 2,137 SM
ALLOWABLE HEIGHT: 3 STORIES (16 M)

GROUP B
PROPOSED AREA: 98 SM
PROPOSED HEIGHT: 1 STORY (<16 M)

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
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

IBC TABLE 803.5 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B OCCUPANCY/NONSPRINKLERED

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	A	B	C

NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD
BUSINESS = 9.3 SM/PERSON BUSINESS PROPOSED = 11 OCCUPANTS

NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY
BUSINESS = 5 MM PER OCCUPANT

REQUIRED: 55 MM (11 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: 900 MM: (1) 900 MM DOOR

NFPA 101 PARAGRAPH 38.2.6.2 - EXIT ACCESS TRAVEL DISTANCE (NONSPRINKLERED)
REQUIRED: 60 METERS
PROPOSED: 11 METERS

NFPA 101 PARAGRAPH 38.3.6.1(1) & (2) - CORRIDORS
NO RATED CORRIDOR REQUIRED (NONSPRINKLERED):
(1) ALL EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA
(2) SPACE IS OCCUPIED BY A SINGLE TENANT

NFPA 101 PARAGRAPH 38.2.4.3 - SINGLE EXIT PERMITTED
BUSINESS REQUIRED: 1 MINIMUM
BUSINESS PROPOSED: 1 EXIT

NFPA 101 PARAGRAPH 38.3.2.1 & 8.7.1.1 (1) - PROTECTION FROM HAZARDS
REQUIRED SEPARATION AT GENERAL STORAGE: 1 HOUR WALL AND 45 MINUTE DOOR
PROVIDED: 1 HOUR WALL AND 45 MINUTE DOOR

LEGEND:

- DENOTES PATHS OF EXIT TRAVEL
- 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

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

APPROVED:

A/E DESIGNER OF RECORD



Date	Rev.	Description
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Designed by: KRC
Dwn by: KJG
Ctd by: NLJ
Reviewed by: LHM
Submitted by: BAKER

Date: 2/23/10
Design file no.
Drawing code:
File name: ANAPXQA-001SP
Plot date: 2/23/2010
Plot scale: x:k

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LIFE SAFETY PLAN

Sheet reference number:
A-001

GENERAL NOTES:

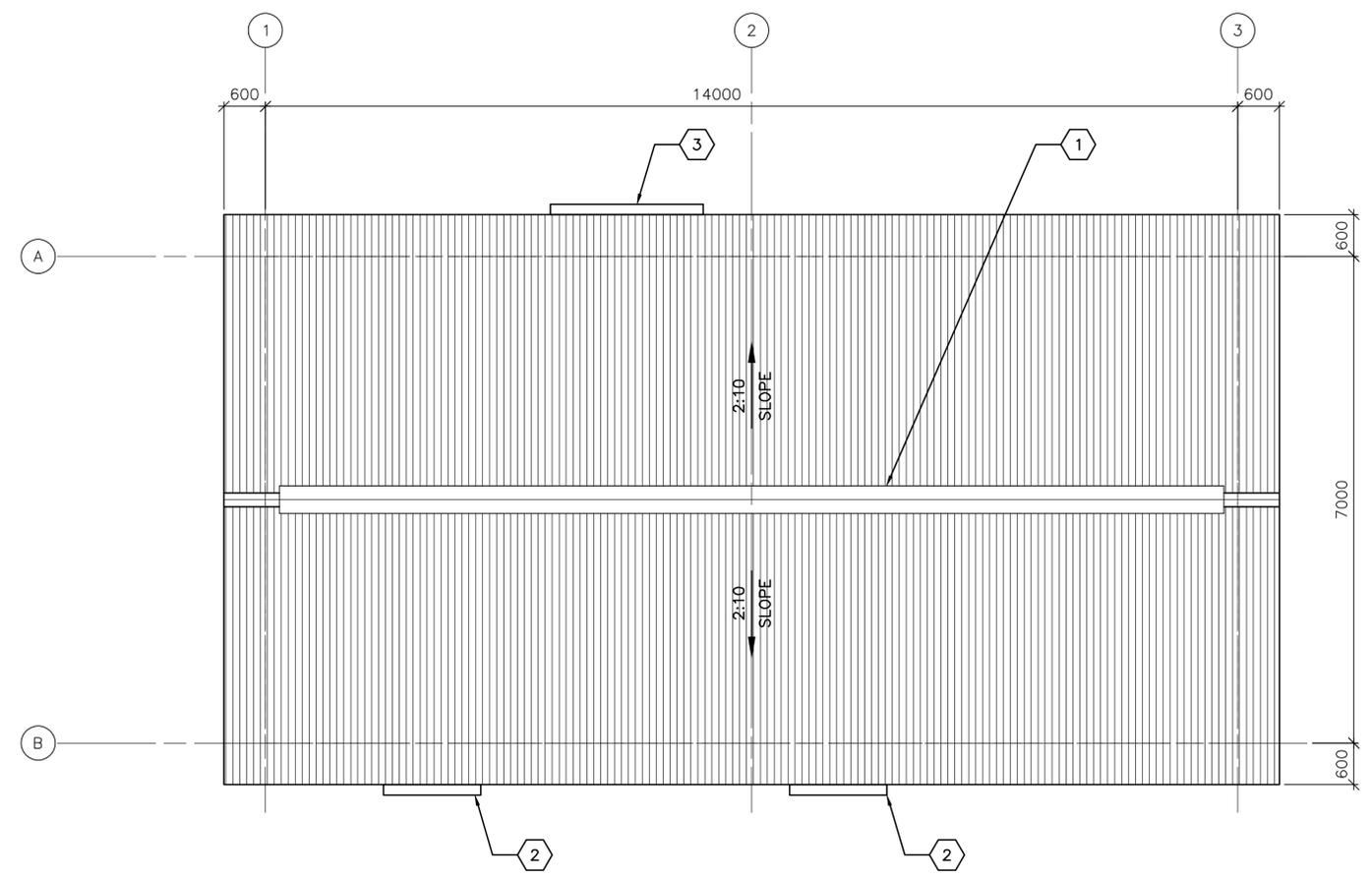
- A. THE APPROXIMATE LOCATION OF ROOF DEVICES AND PENETRATIONS ARE SHOWN ON THE ROOF PLAN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE ACTUAL LOCATION OF THESE AND ALL OTHER ITEMS PRIOR TO BEGINNING CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL 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. METAL GUTTER 1400 MM, CENTER ON DOOR - SEE DETAIL 1A/A-501.
- 3. METAL GUTTER 2300 MM, CENTER ON DOOR - SEE DETAIL 1A/A-501.



1 ROOF PLAN
A-102 SCALE: 1:50

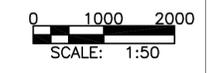
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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAPXCOA-102RP
Date:	2/23/10	File name:	ANAPXCOA-102RP
Rev:	0	Plot date:	2/23/2010
		Plot scale:	1:50

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ROOF PLAN

APPROVED:
Kevin R. Chafin
A/E DESIGNER OF RECORD



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



Sheet reference number:
A-102

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.

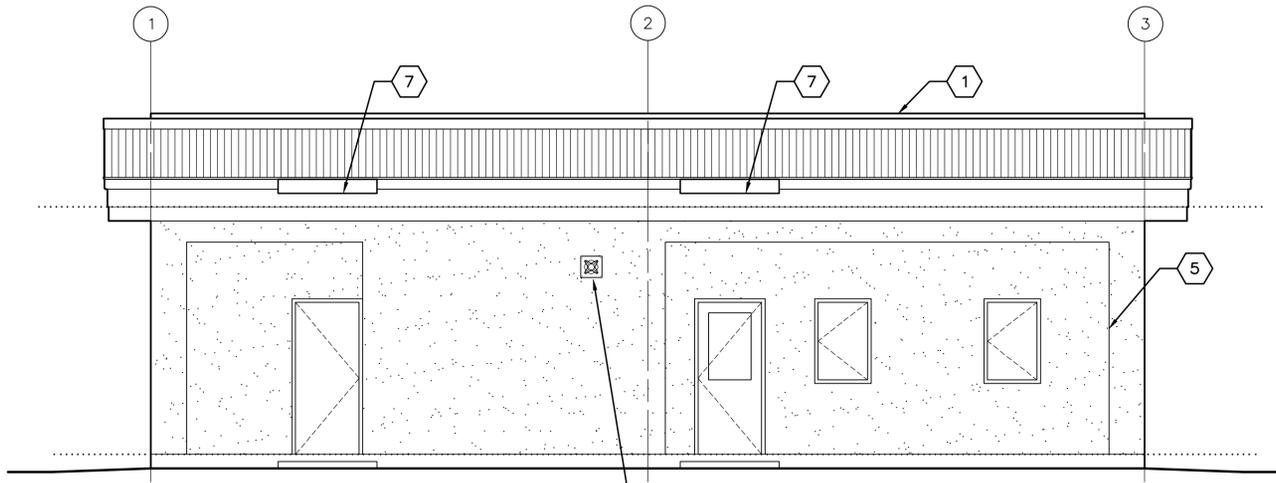


Rev.	Date	Description

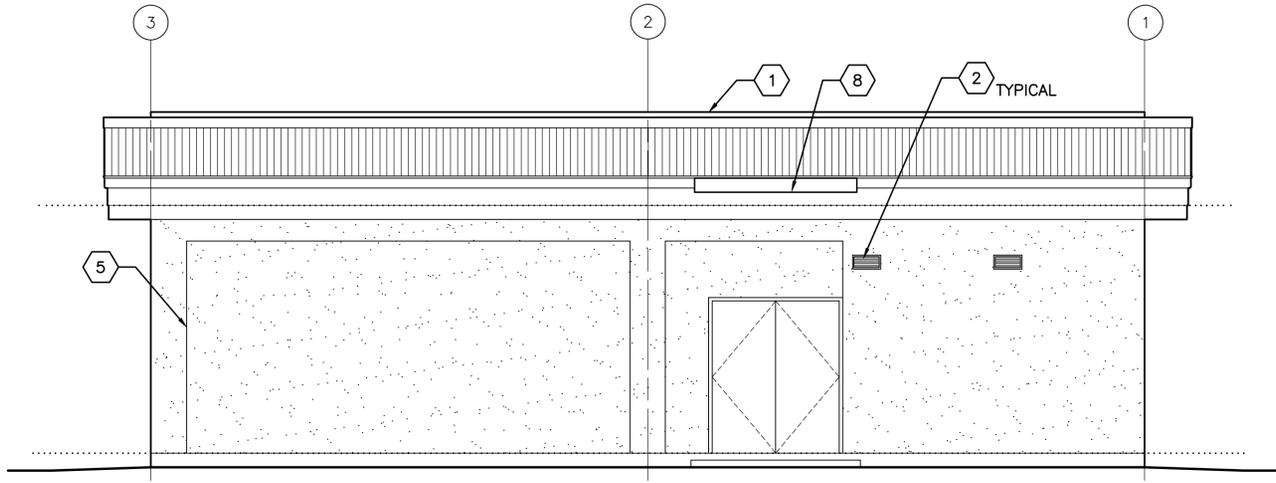
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Date: 2/23/10	Design file no.:	Drawing code: ANAPX0A-201E	File name: ANAPX0A-201E
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	Michael Baker, Jr., Inc. A Unit of Michael Baker Corporation Arlside Business Park 100 Arside Drive P.O. Box 15108 www.mbakercorp.com	Plot date: 2/23/2010	Plot scale: 1:50

KEY NOTES:

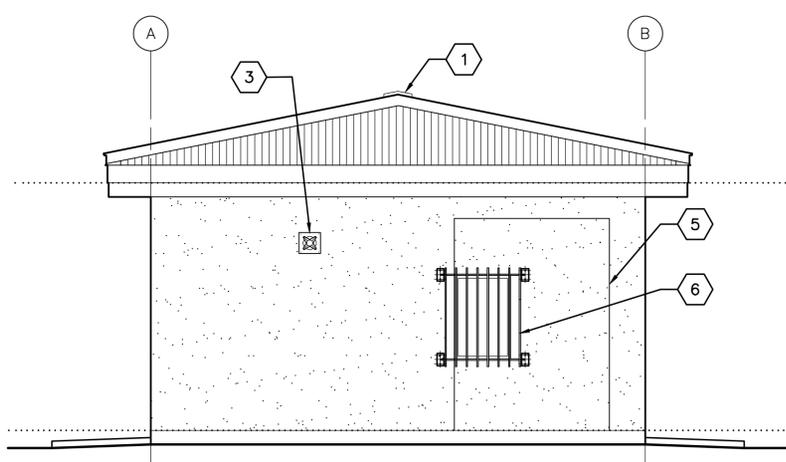
- 1. CONTINUOUS METAL RIDGE VENT - SEE DETAIL 4/A-501.
- 2. LOUVER, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS.
- 3. EXHAUST FAN, LOCATE TOP OF WALL PENETRATION 2800 MM ABOVE FINISHED FLOOR - SEE MECHANICAL DRAWINGS
- 4. NOT USED
- 5. STUCCO CONTROL JOINT, SEE DETAIL 2A/A-501.
- 6. SECURITY BARS, SEE DETAIL 5/A-502.
- 7. METAL GUTTER 1400 MM, CENTER ON DOOR - SEE DETAIL 1A/A-501.
- 8. METAL GUTTER 2300 MM, CENTER ON DOOR - SEE DETAIL 1A/A-501.



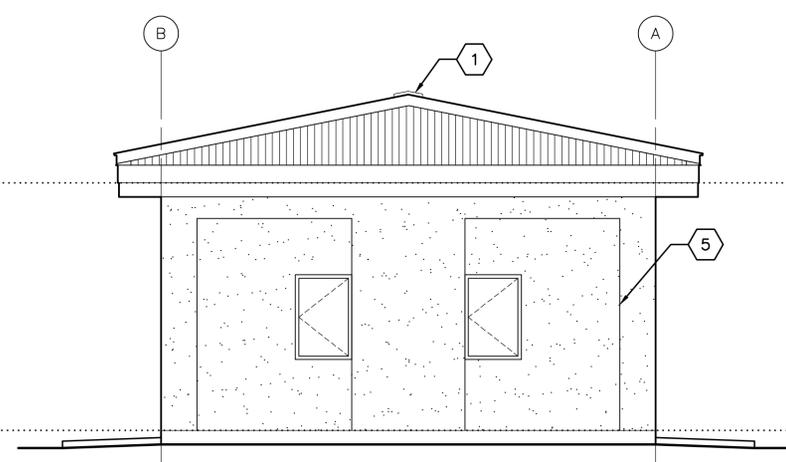
1 ELEVATION
A-201 SCALE: 1:50



2 ELEVATION
A-201 SCALE: 1:50



3 ELEVATION
A-201 SCALE: 1:50



4 ELEVATION
A-201 SCALE: 1:50



APPROVED:

Kevin R. Chafin

A/E DESIGNER OF RECORD

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ELEVATIONS

Sheet reference number:
A-201

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2

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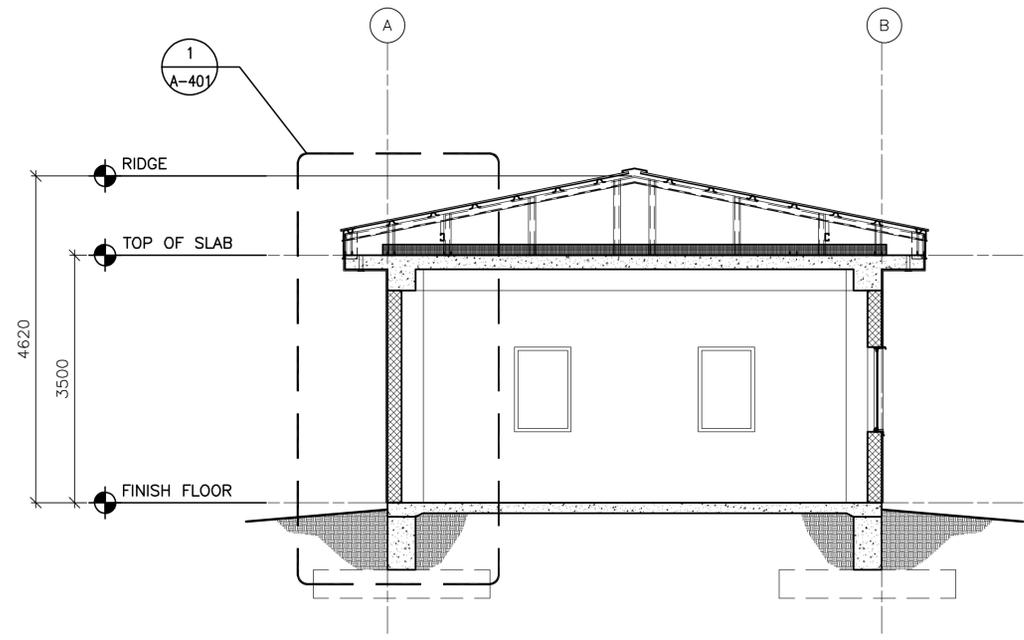
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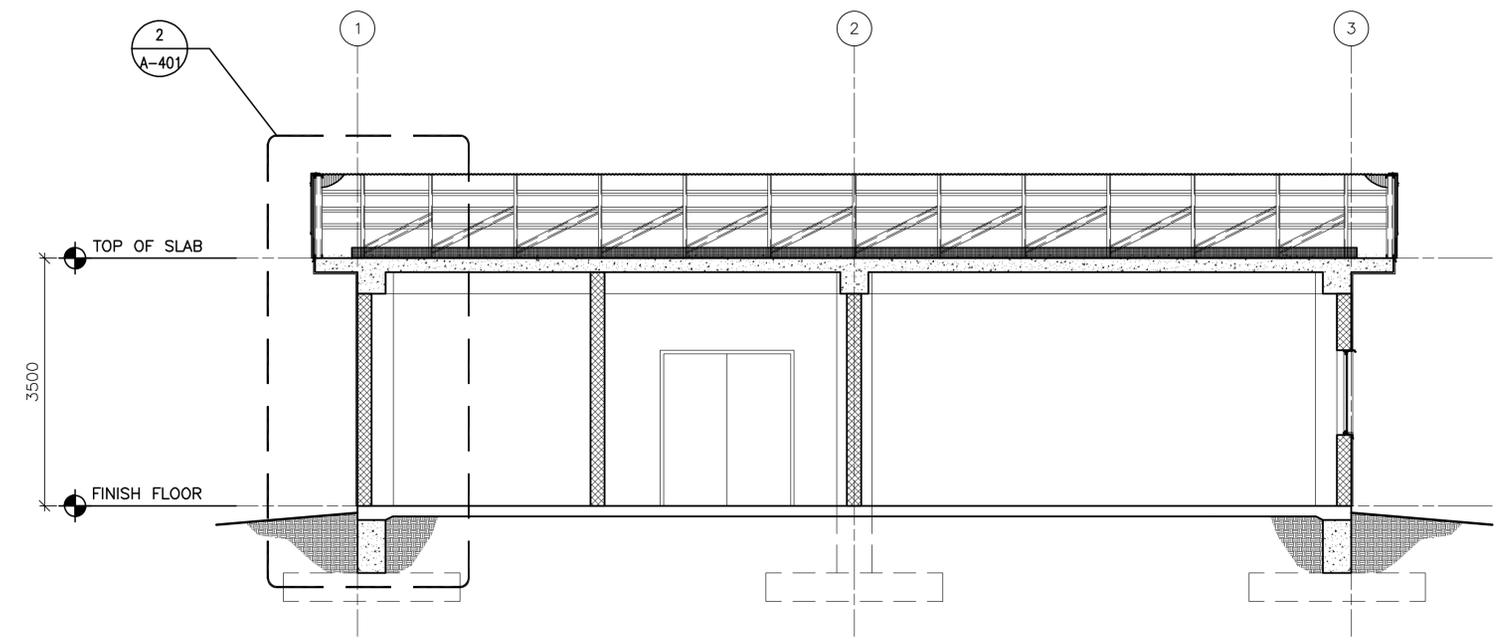
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A

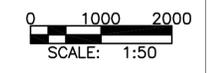


1
A-301
BUILDING SECTION
SCALE: 1:50



2
A-301
BUILDING SECTION
SCALE: 1:50

LINEAR DIMENSIONS SHOWN
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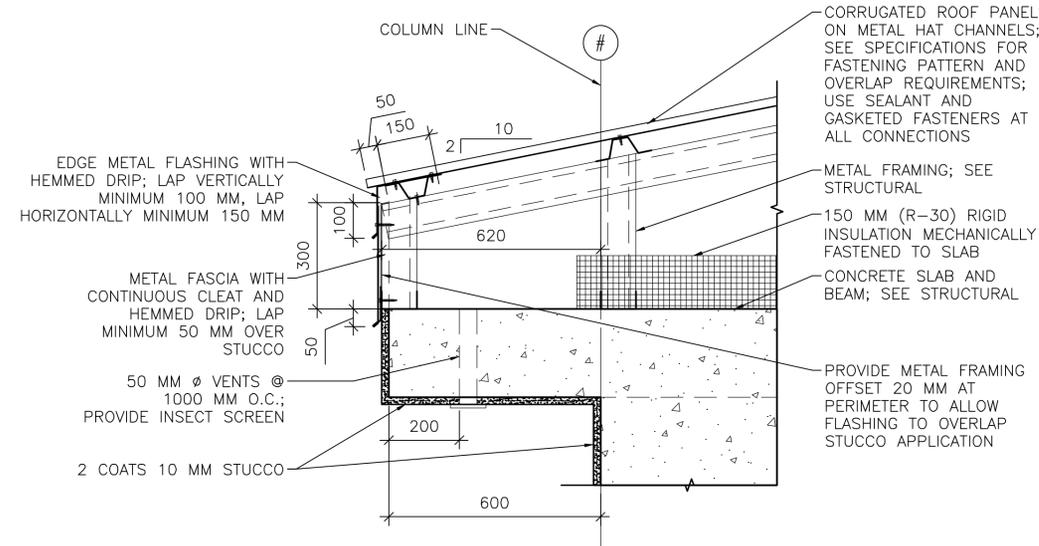


Rev.	Date	Description	Mark	Date	Appr.
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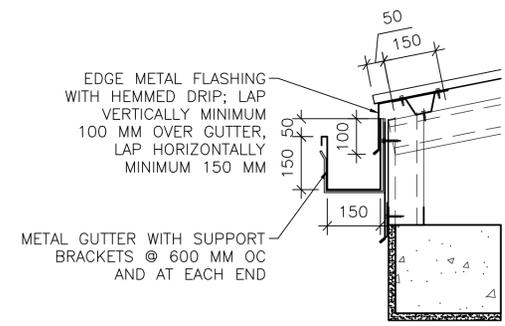
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Dwn by:	KJG	Reviewed by:	LHM
Submitted by:	BAKER	Drawing code:	ANAFPCA-3018
		File name:	ANAFPCA-3018
		Plot date:	2/23/2010
		Plot scale:	X:1

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BUILDING SECTIONS

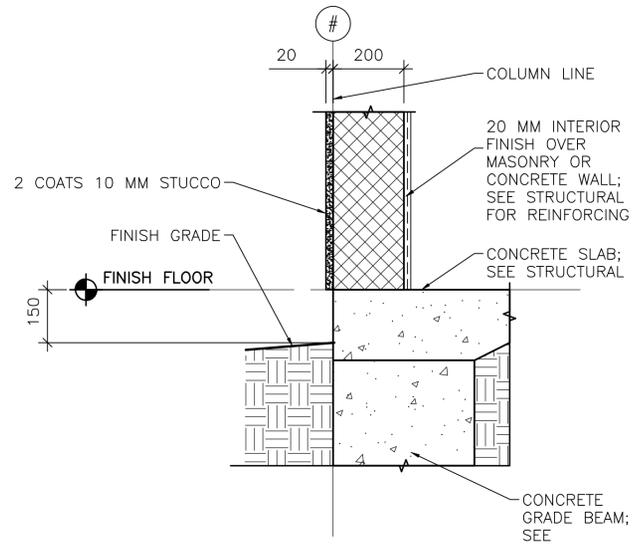
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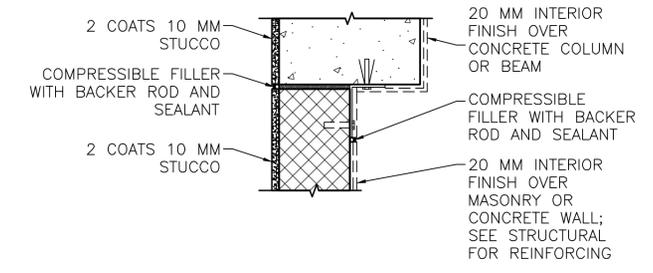
1 EAVE DETAIL
SCALE 1:10



1A GUTTER DETAIL
SCALE 1:10

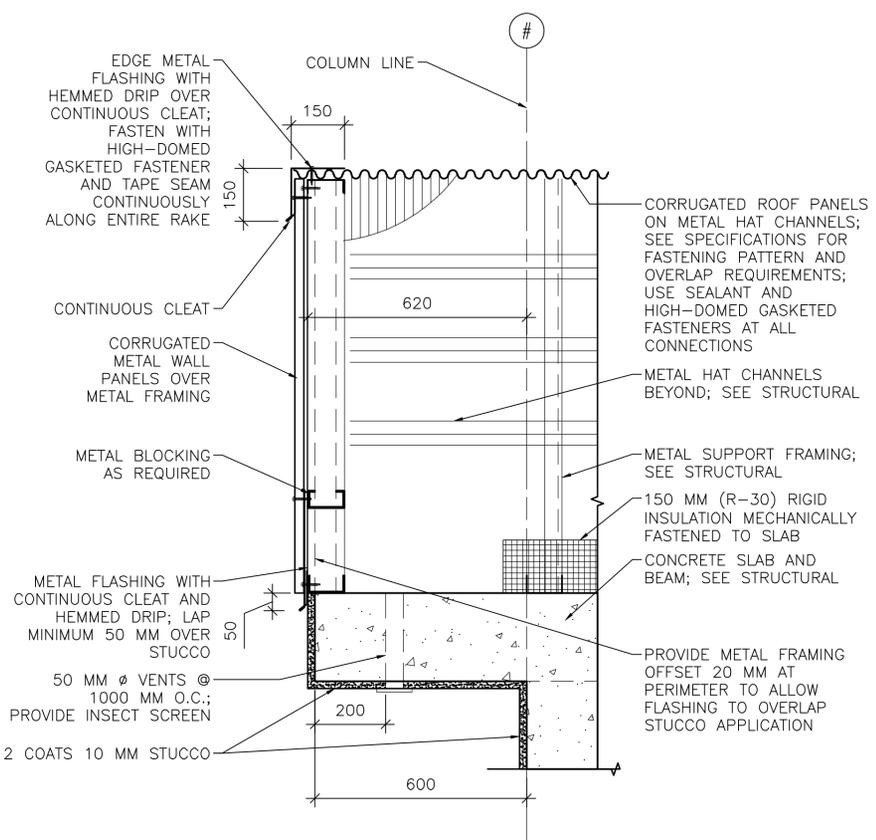


2 STUCCO BASE DETAIL
SCALE 1:10

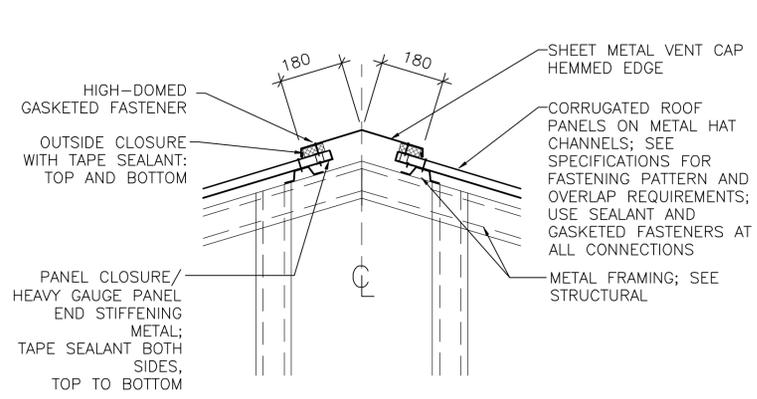


2A STUCCO JOINT DETAIL
SCALE 1:10

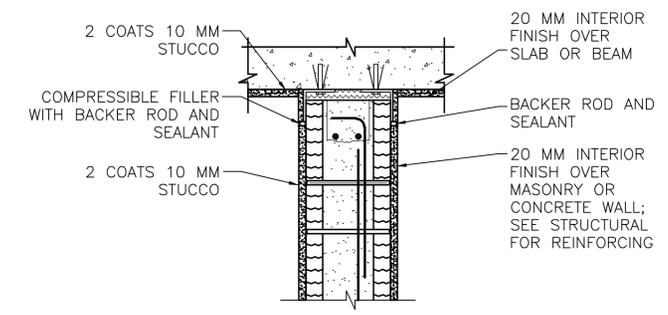
NOTE: DETAIL TYPICAL AT ALL WALL/COLUMN AND WALL/BEAM LOCATIONS, SEE ALTERNATE BRACING DETAIL BELOW 2B/A-501.



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. Cl...*
A/E DESIGNER OF RECORD

SEAL:



Rev.	Date	Description	Mark	Appr.	Date

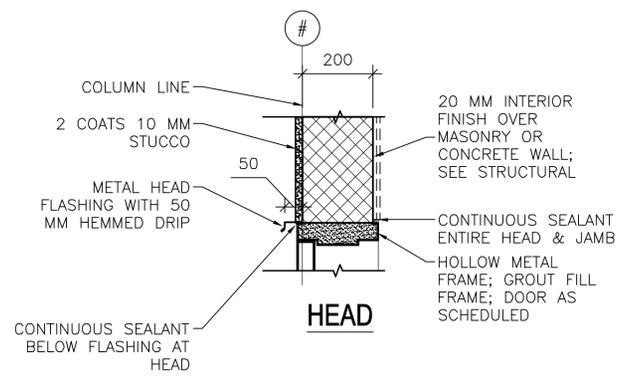
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Date: 2/23/10	Design file no.:	Drawing code:	File name: ANAPX0A-501D	Plot date: 2/22/2010
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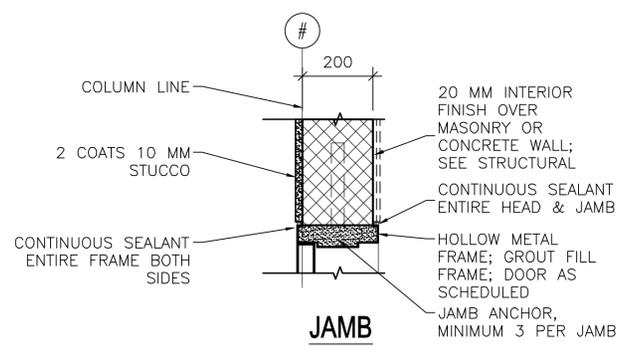
PX/FINANCE OFFICE

EXTERIOR
DETAILS

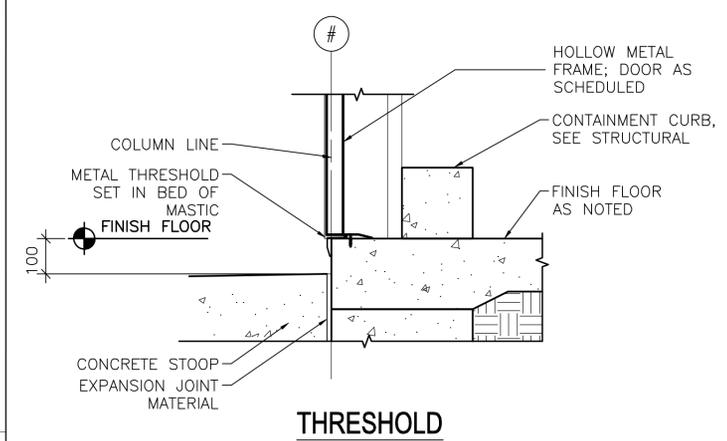
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A-501



HEAD



JAMB



THRESHOLD

1
A-502

EXTERIOR DOOR DETAILS
SCALE: 1:10



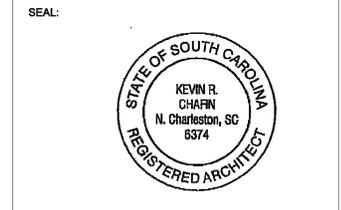
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Designed by:	KRC	Drawn by:	KJG	Reviewed by:	LHM	Submitted by:	BAKER	
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338		Michael Baker Jr., Inc. A Unit of Michael Baker Corporation Alside Business Park 100 Alside Drive Morgantown, PA 15108 www.mbakercorp.com						
Date:	2/23/10	Design file no.:		Drawing code:	ANAPX0A-502US	File name:	ANAPX0A-502US	
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HEAD, JAMB & SILL
DETAILS

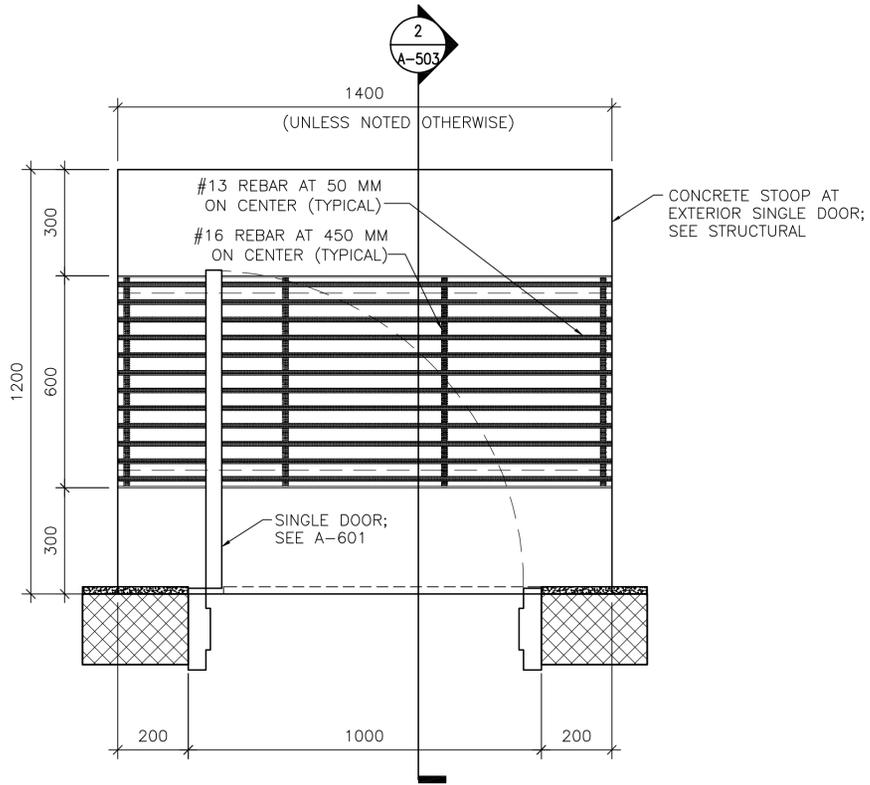
APPROVED:
K. R. Cliff
A/E DESIGNER OF RECORD



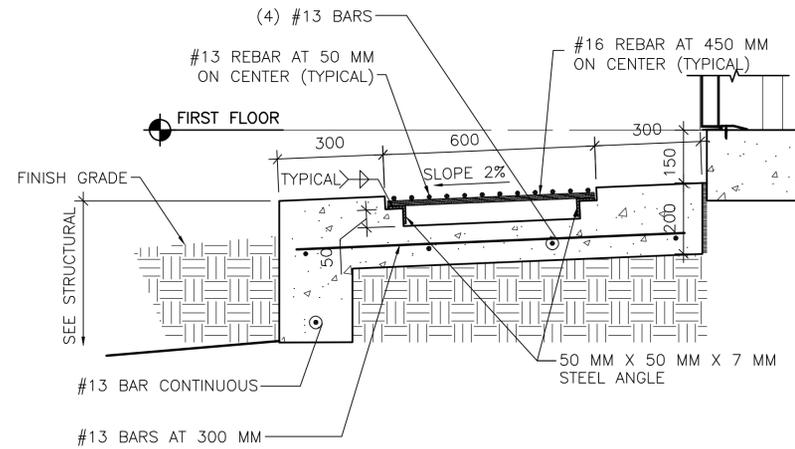
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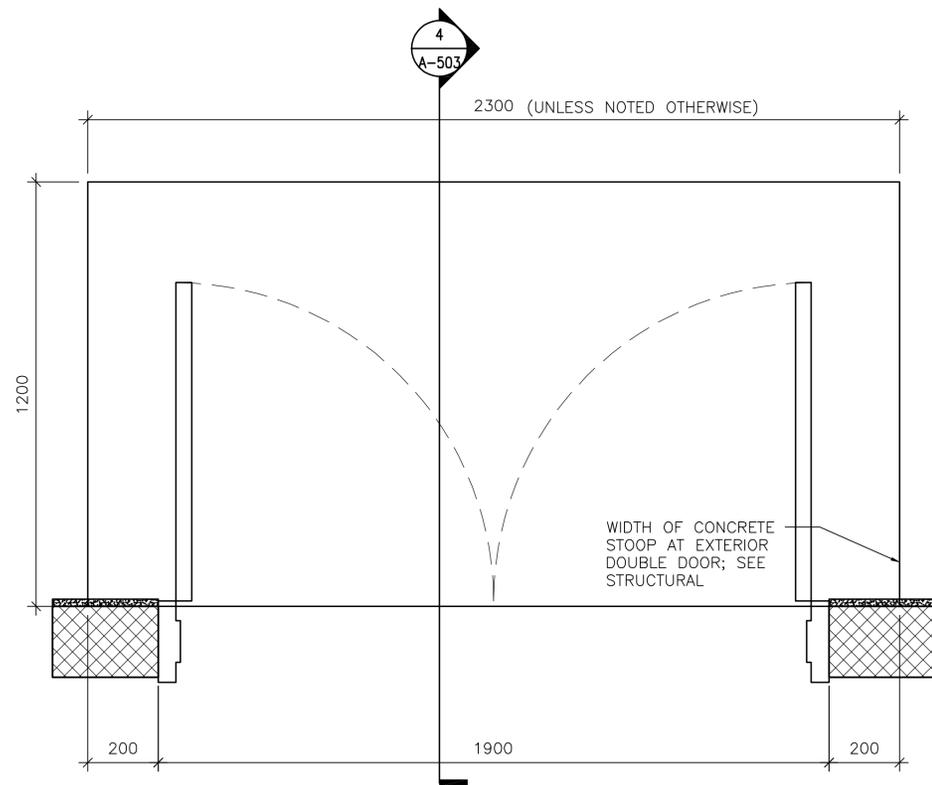
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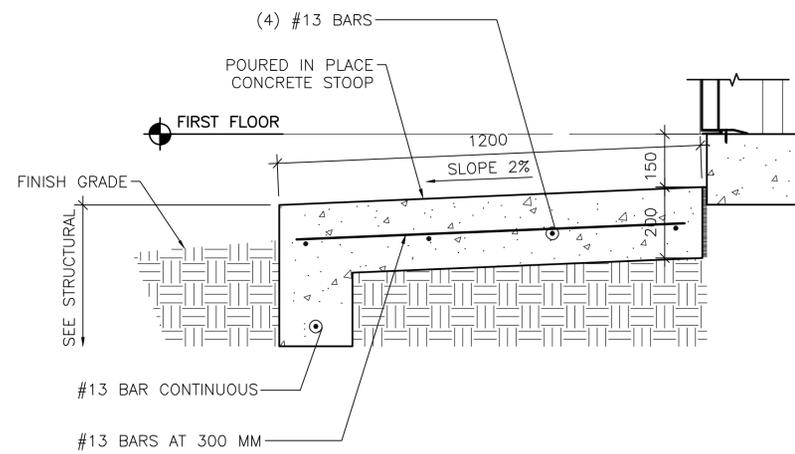
1 DOOR STOOP PLAN (WITH GRATE)
A-503 SCALE: 1:10



2 DOOR STOOP DETAIL
A-503 SCALE: 1:10



3 DOOR STOOP PLAN (WITHOUT GRATE)
A-503 SCALE: 1:10



4 DOOR STOOP DETAIL
A-503 SCALE: 1:10

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

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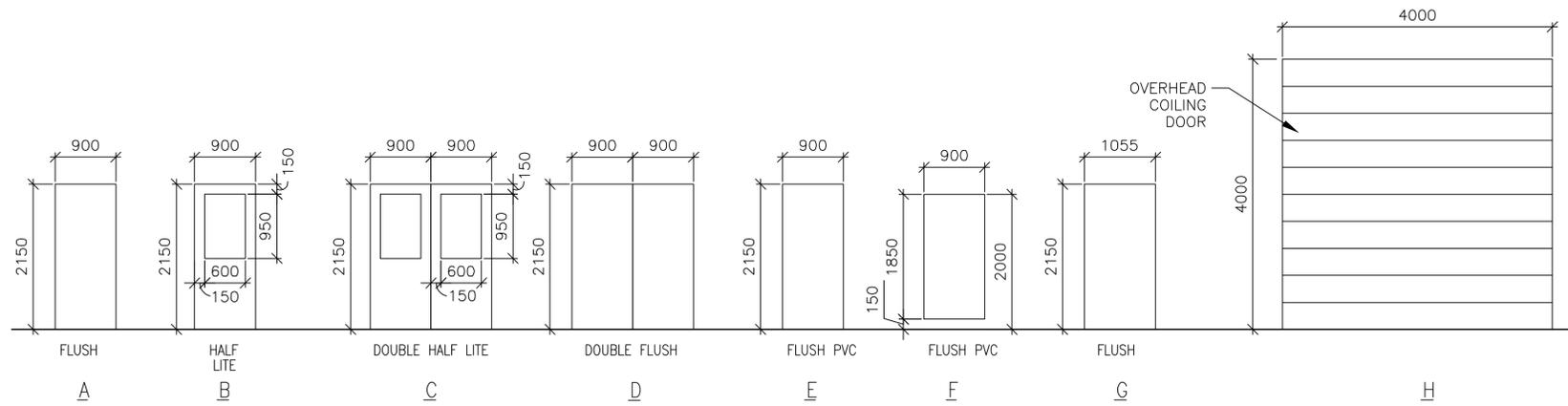


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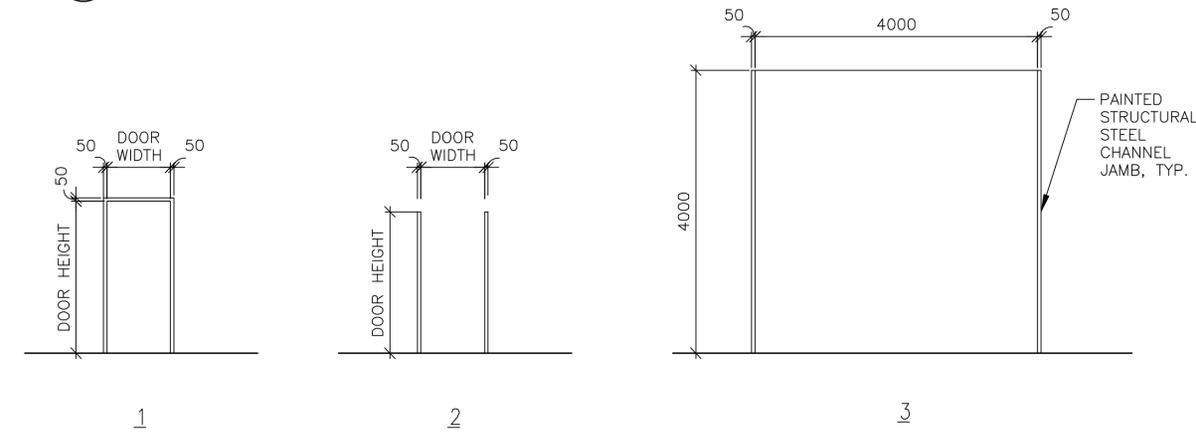
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STOOP
DETAILS

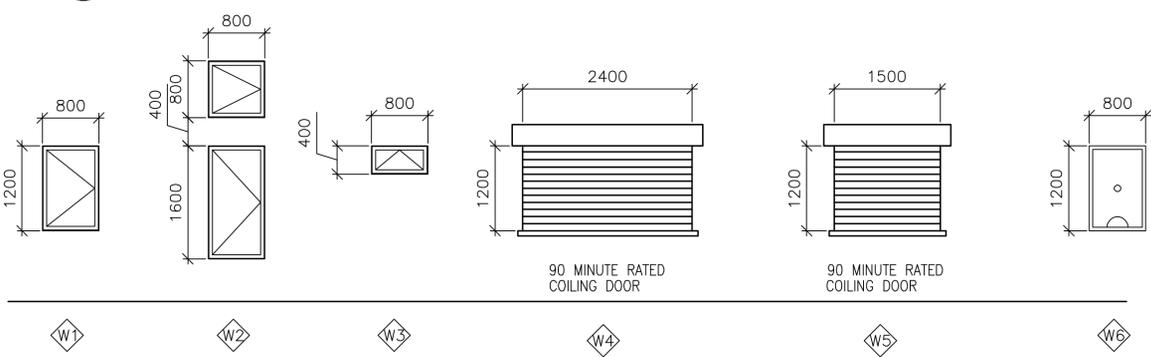
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A-503



1 DOOR TYPES
SCALE: 1:50



2 FRAME TYPES
SCALE: 1:50

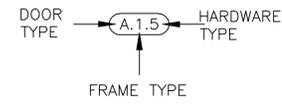


3 WINDOW TYPES
SCALE: 1:50

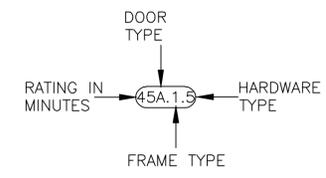
WINDOW TYPE NOTES:

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

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

SEAL:



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.

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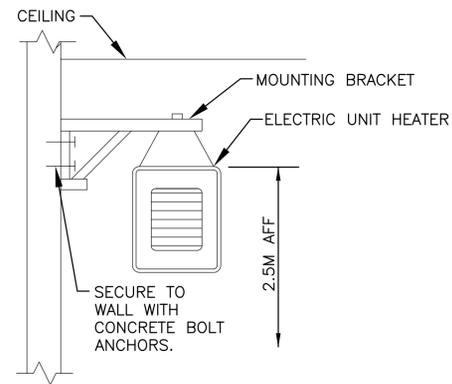
Designed by: KRC
Dwn by: KJG
Reviewed by: LHM
Submitted by: BAKER

Date: 2/23/10
Design file no.:
Drawing code: ANAPX00407SCH
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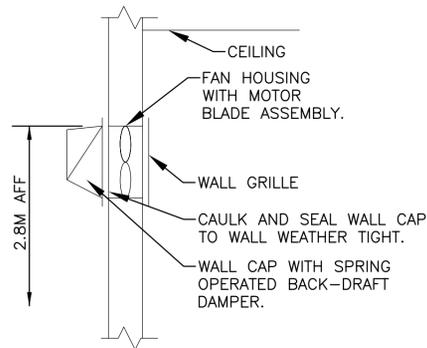
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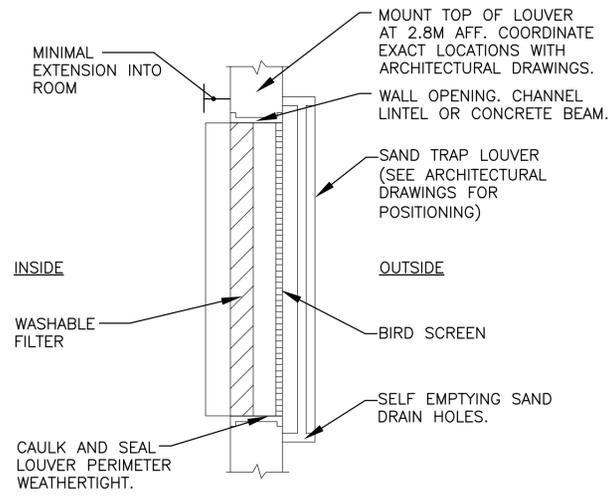
Sheet reference number:
A-601



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



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



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

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
- (0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
- \$ SINGLE POLE SWITCH - 20A RATED

ABBREVIATIONS:

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

KEY NOTE:

- UNIT HEATER SECURED FROM WALL. SEE DETAIL THIS SHEET.
- WALL EXHAUST FAN WITH LOW SPRING OPERATED BACK-DRAFT DAMPER. SEE DETAIL 3 THIS SHEET.
- 406x200 (16x8) INTAKE LOUVER. PROVIDE WEATHER PROOF LOUVER W/0.05mm (2") WASHABLE FILTER AND SAND TRAP. SEE DETAIL 4 THIS SHEET.
- 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).

NO.	TYPE	FAN CMS	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	WALL	0.035	DIRECT	FRACT	13	220/1/50	W/ STAT
EF-2	WALL	0.035	DIRECT	FRACT	13	220/1/50	⊙ WALL

NOTES:

- FANS SHALL HAVE LOW LEAKAGE GRAVITY LOUVER.

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

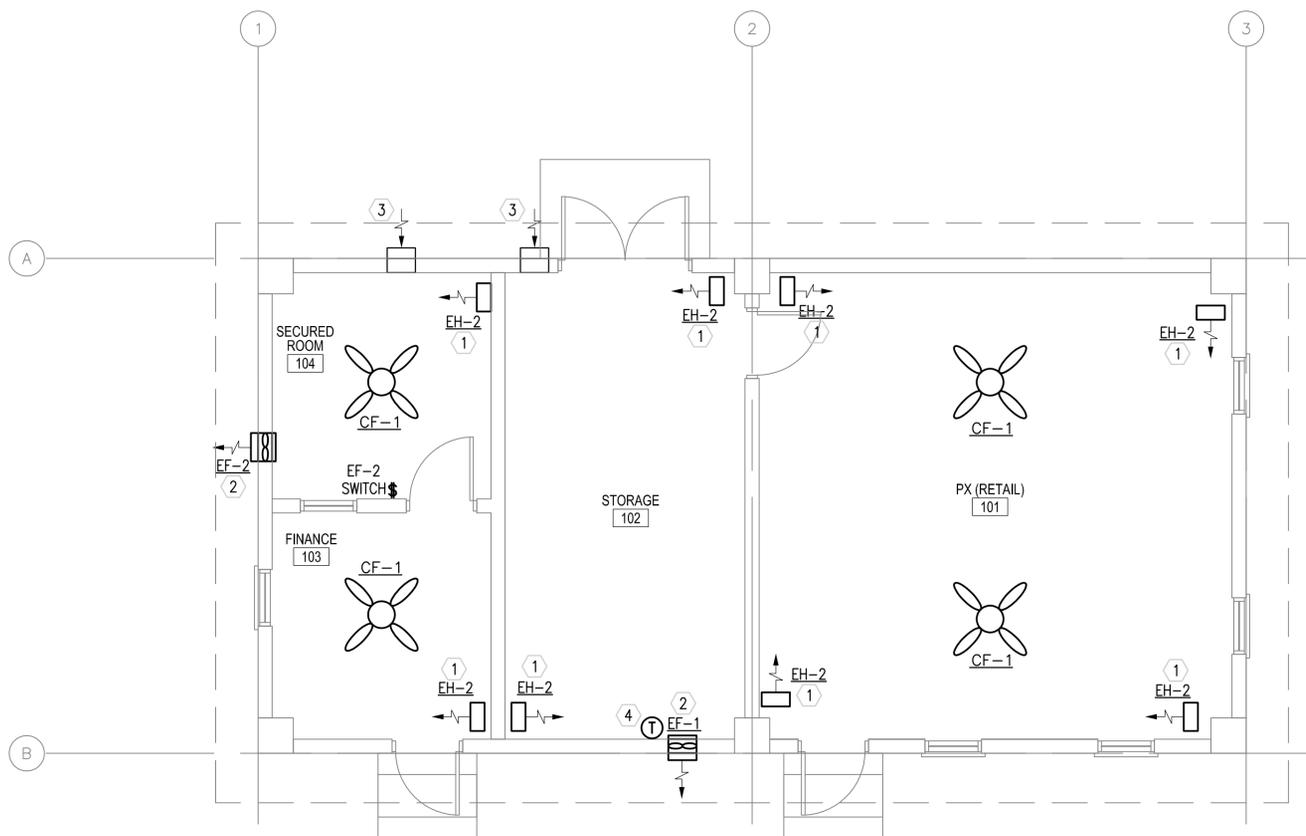
NOTES:

- UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
- FINAL ELECTRICAL CONNECTIONS BY EC.
- COORDINATE LOCATION AND ORIENTATION IN FIELD.

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.



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

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



APPROVED:

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		Drawing code:
		File name: ANAPY04H-011XX
		Plot date: 02/23/10
		Plot scale: 1:50

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Dwn by:	JUN	Reviewed by:	MRS
Submitted by:	BAKER		

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HVAC - FLOOR PLAN,
SCHEDULES AND DETAILS

Sheet reference number:
M-101

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS. SEE WIRING DIAGRAM DETAIL 6, ON DRAWING #E-501.
3. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E-501 FOR THE POWER RISER.
5. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
6. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM DETAIL 5, ON DRAWING #E-501.
7. LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE CEILING FANS PRIOR TO INSTALLATION. LIGHT FIXTURES SHALL HAVE PRIORITY OVER CEILING FAN LOCATIONS.



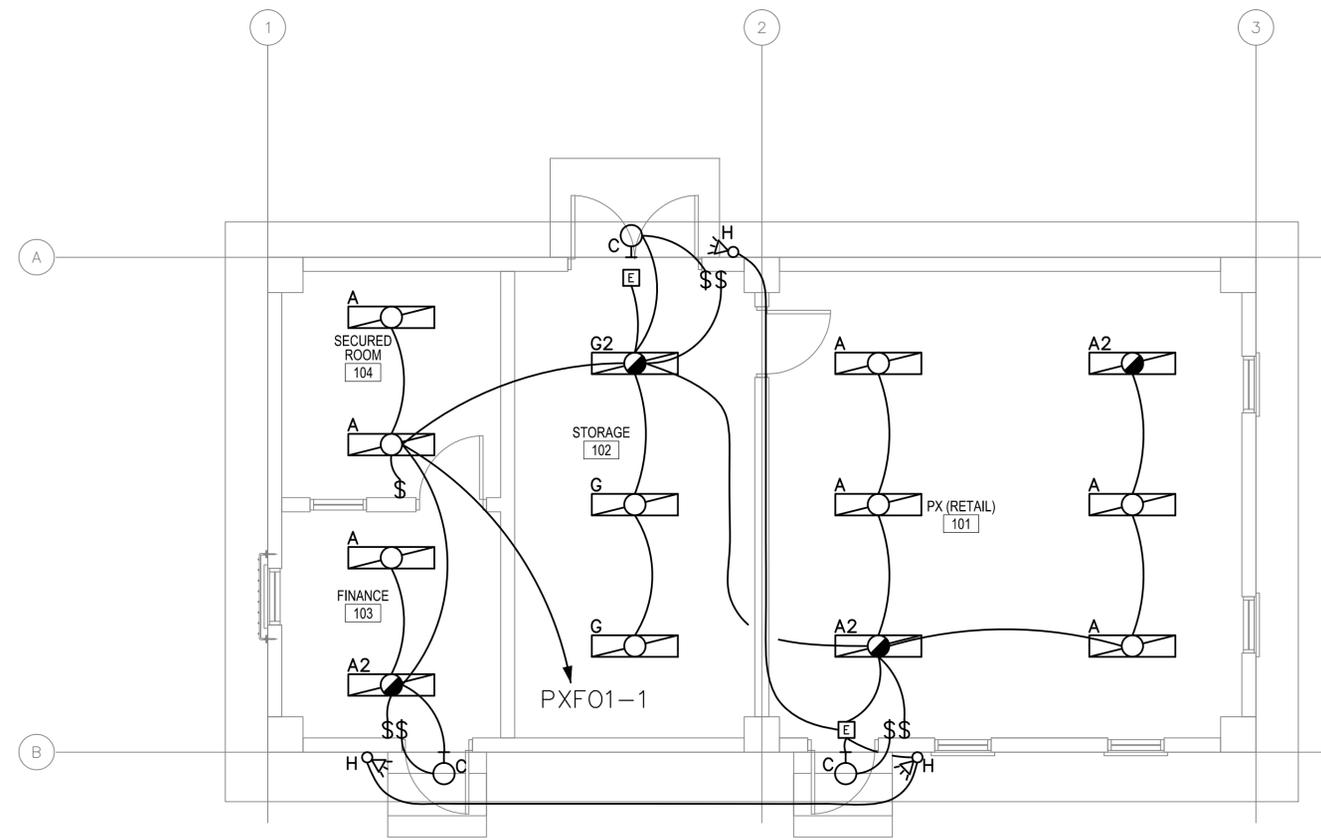
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		Reviewed by: JRG
		Submitted by: BAKER

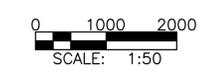
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ELECTRICAL LIGHTING PLAN

Sheet reference number:
E-101



1
E-101
PX/FINANCE FLOOR PLAN - LIGHTING
SCALE: 1:50



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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 PXF01.
- ② PROVIDE PLYWOOD PAINTED WITH FIRE RESISTANT PAINT FOR MOUNTING TELECOMMUNICATIONS EQUIPMENT.
- ③ PROVIDE CONDUIT STUB UP IN THE ROOM FOR INCOMING TELECOMMUNICATIONS SERVICES FROM THE CENTRAL COMMUNICATIONS SYSTEM IN THE GARRISON.
- ④ PROVIDE POWER CONNECTION TO EXHAUST FANS. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑤ PROVIDE POWER CONNECTION TO ELECTRIC UNIT HEATER #2. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑥ PROVIDE POWER CONNECTION TO MOTOR OPERATED DAMPER. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.



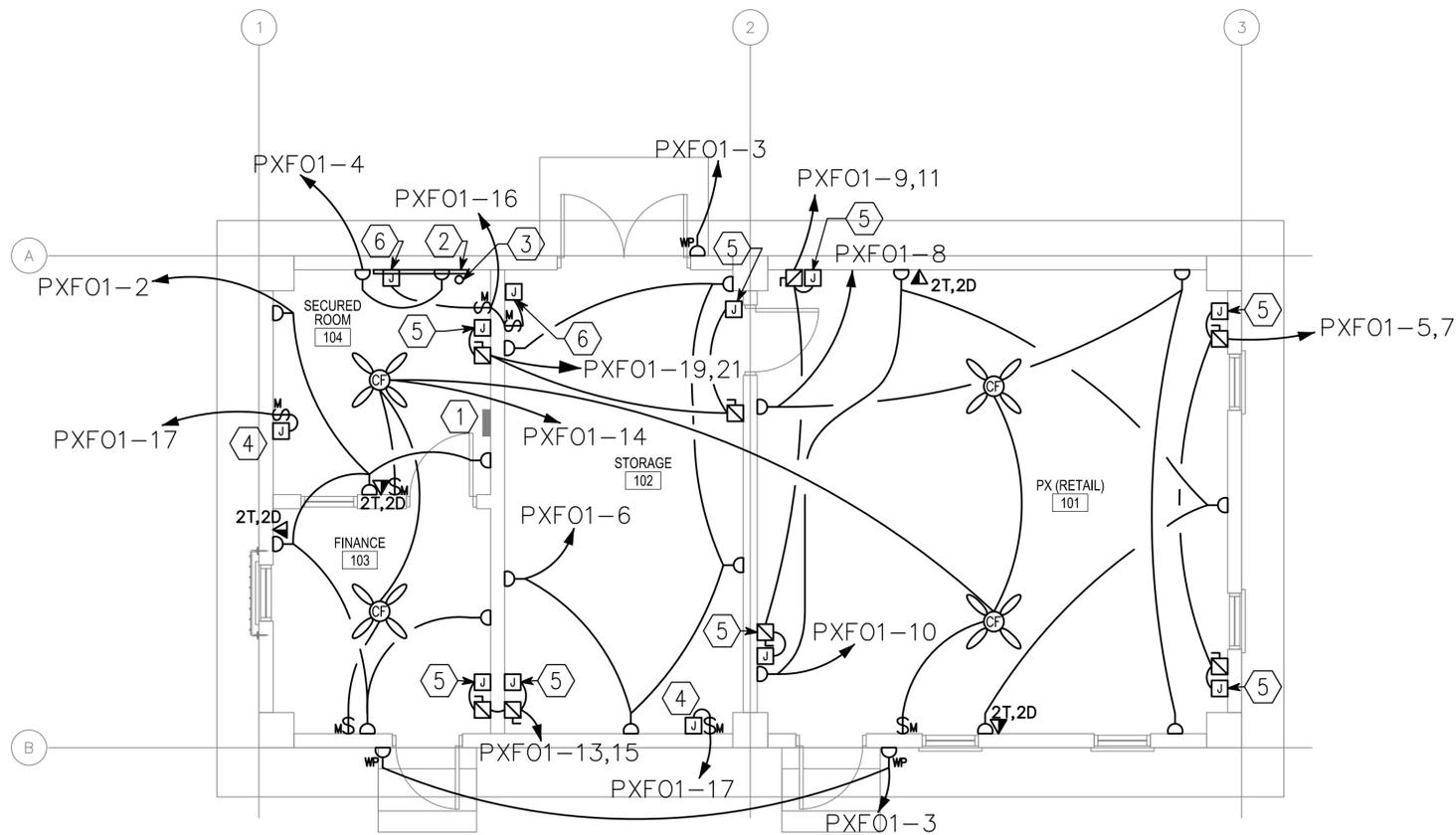
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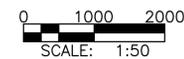
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ELECTRICAL POWER AND SYSTEMS PLAN

Sheet reference number:
E-102



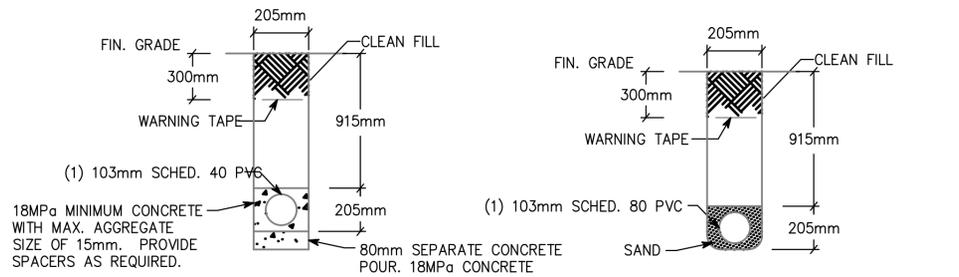
1
PX/FINANCE
FLOOR PLAN - POWER & SYSTEMS
SCALE: 1:50



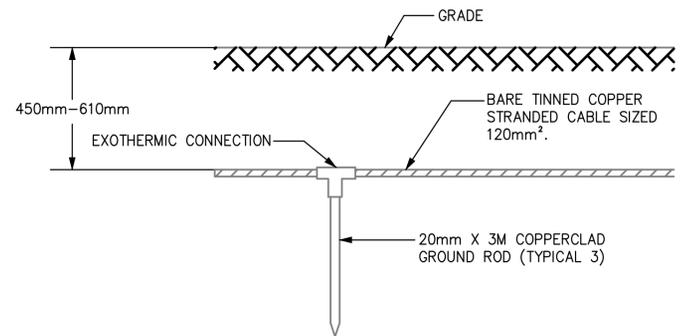
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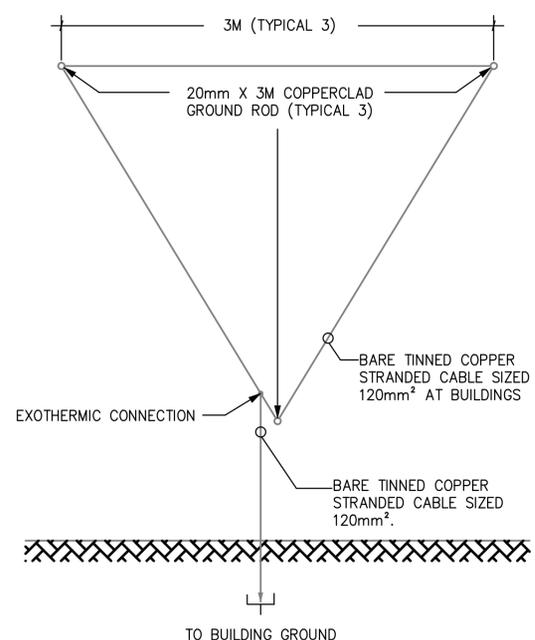
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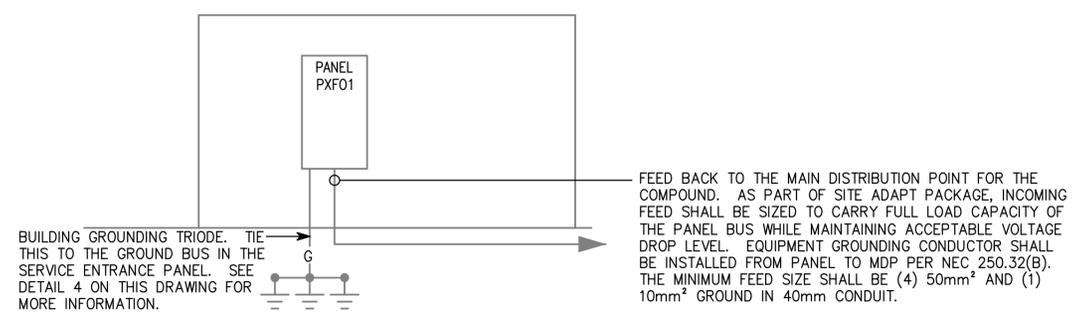
1 TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE
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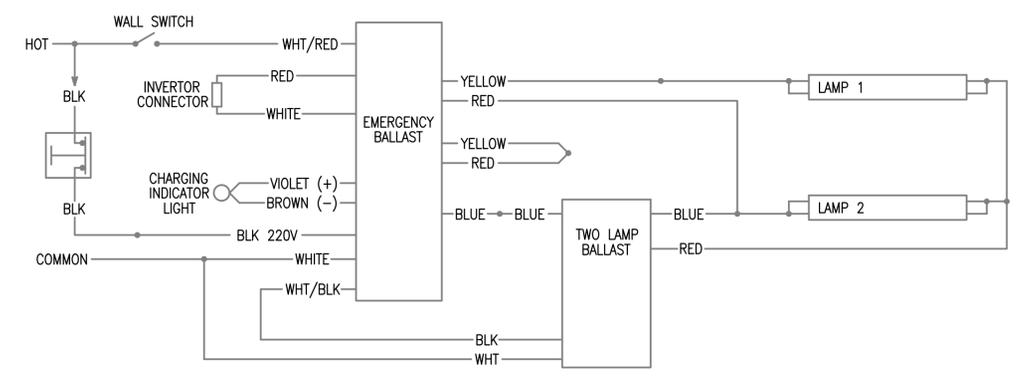
2 GROUND TRIPOD SYSTEM DETAIL - ELEVATION
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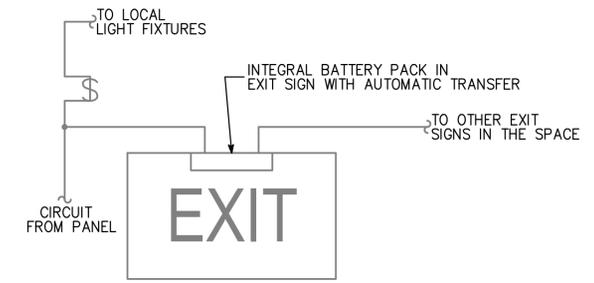
4 GROUND TRIPOD SYSTEM DETAIL - PLAN
 SCALE: N.T.S.



3 PXFO RISER DIAGRAM
 SCALE: N.T.S.



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



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



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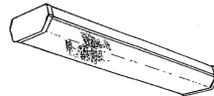
FIXTURE MARK 'A'



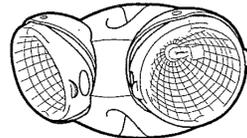
FIXTURE MARK 'C'



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	
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	



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ELECTRICAL LIGHT FIXTURE SCHEDULE

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