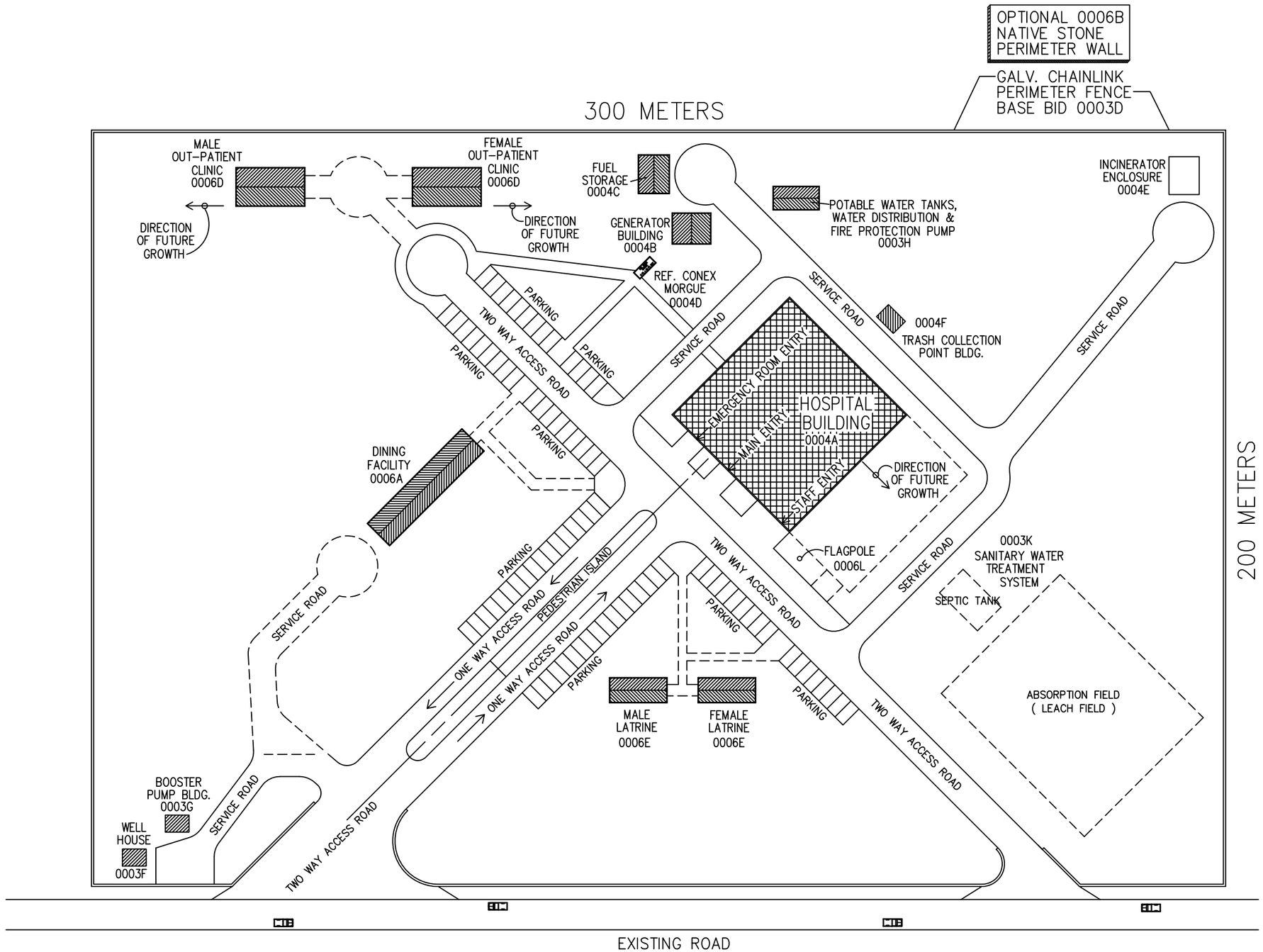
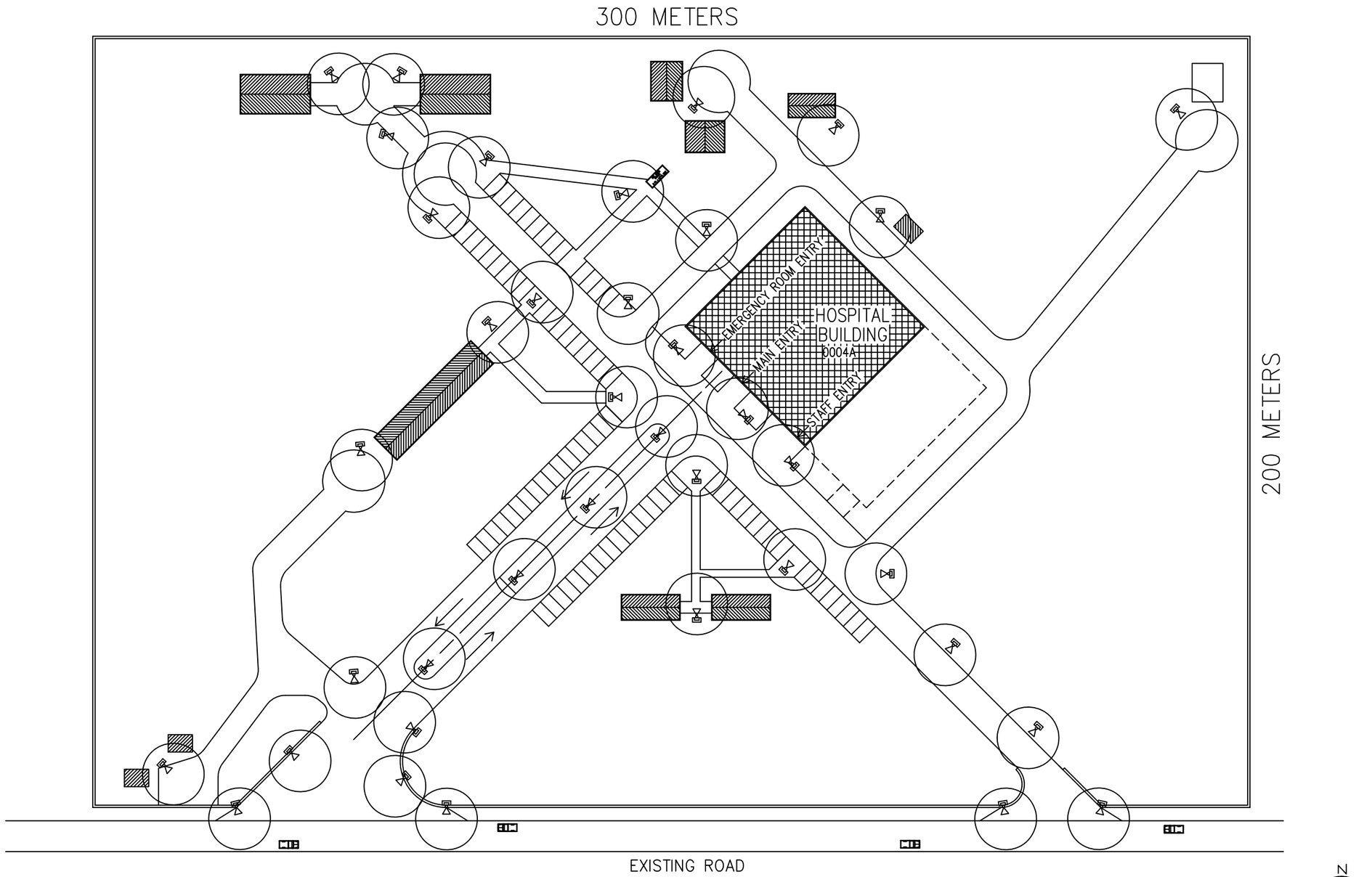


CONCEPT SITE PLAN

CERP SHINDAND HOSPITAL

AS-1

28-JULY-2011



POLE MOUNTED
SOLAR POWERED
SELF-CONTAINED
EXTERIOR LIGHT
PACKAGE UNIT

SITE LIGHTING CONCEPT PLAN

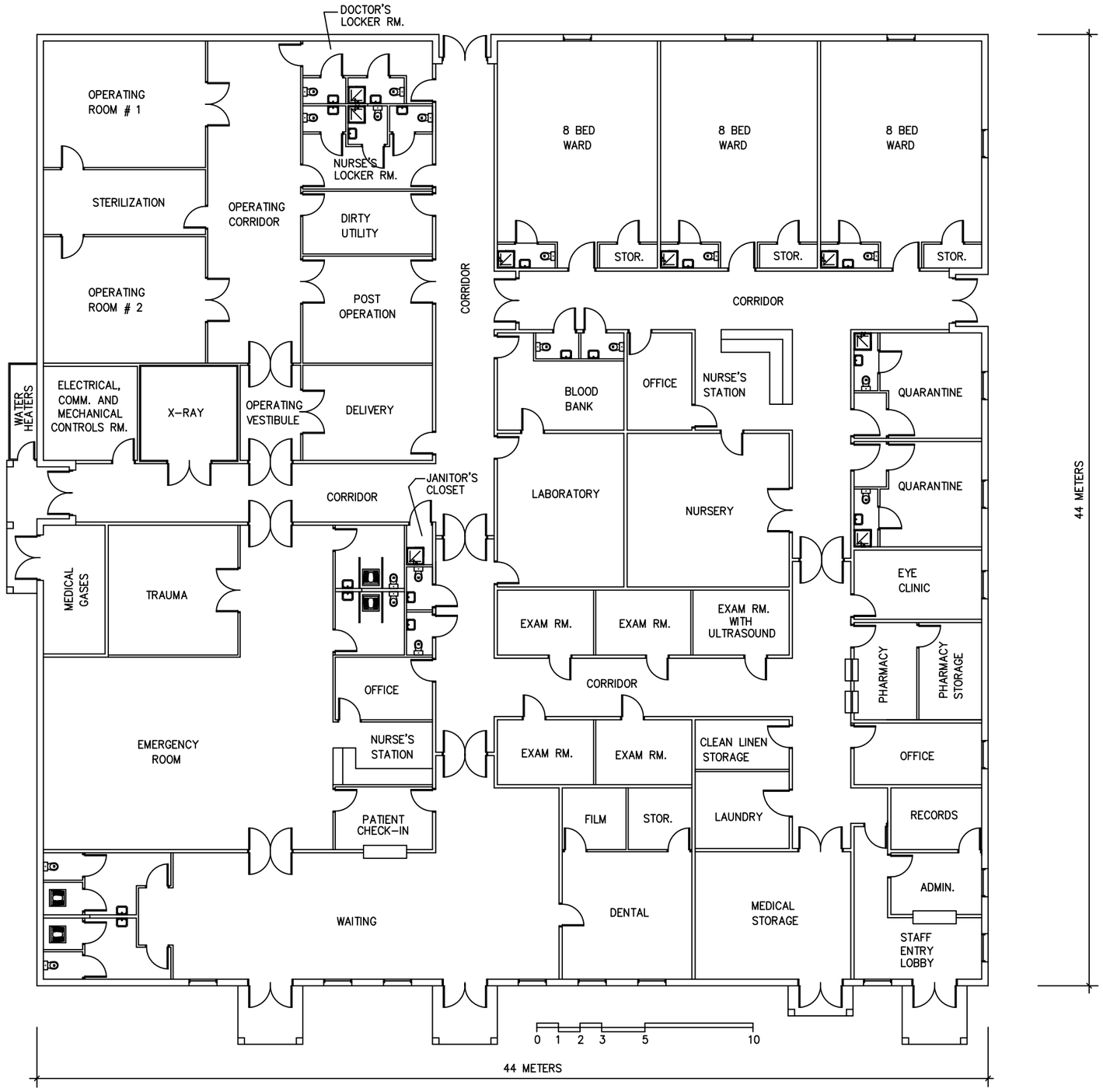
0 5 10 20 30 50

N

CERP SHINDAND HOSPITAL

LS-1

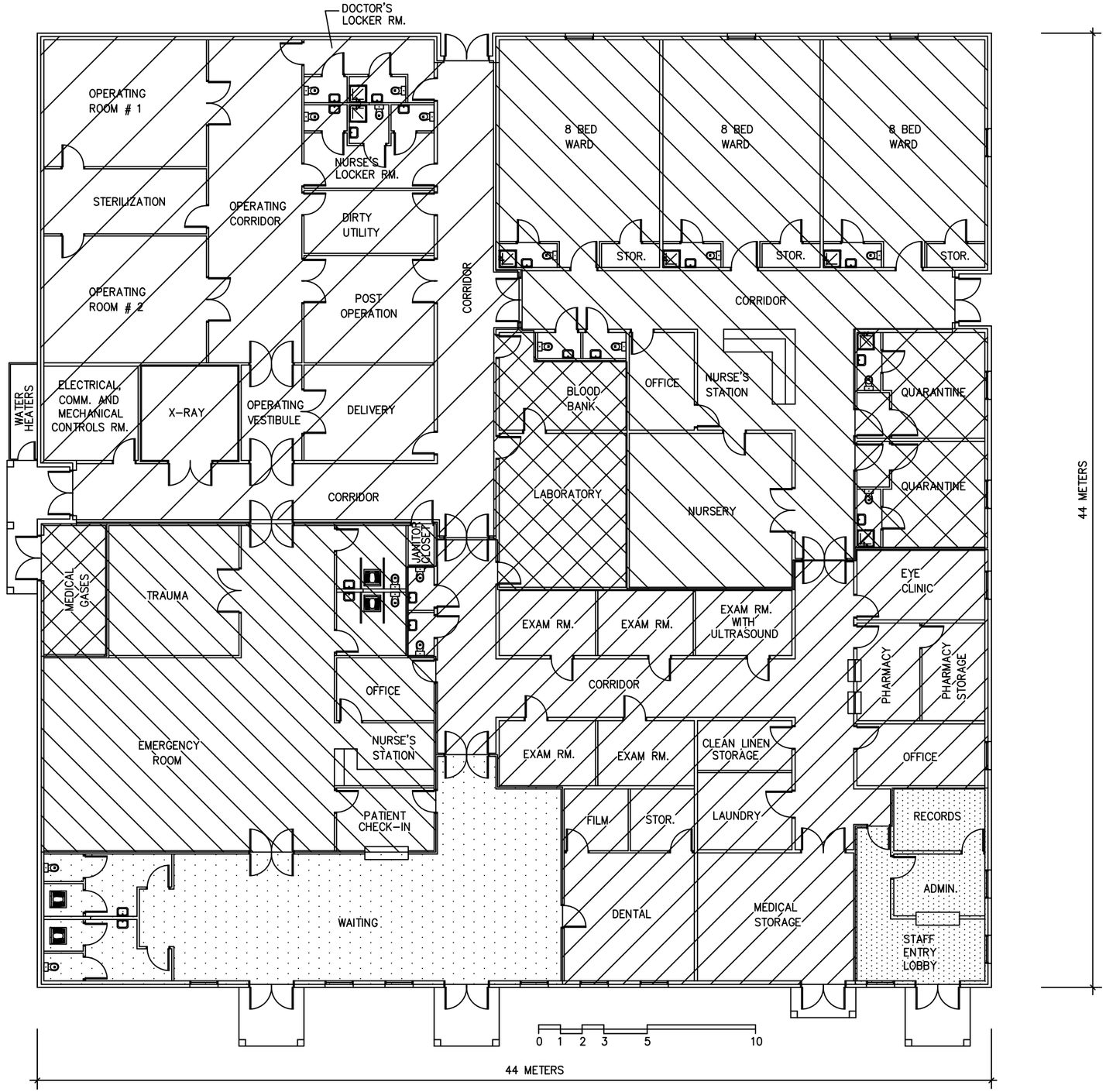
28-JULY-2011



Proposed Shindand Hospital

28-JULY-2011

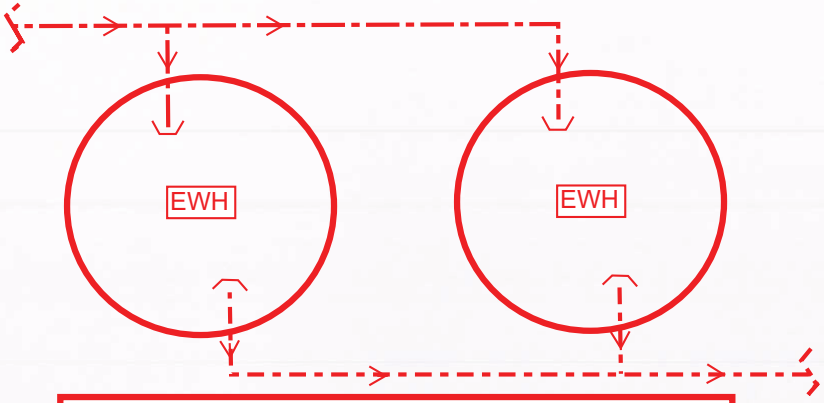
CONCEPT FLOOR PLAN A-1



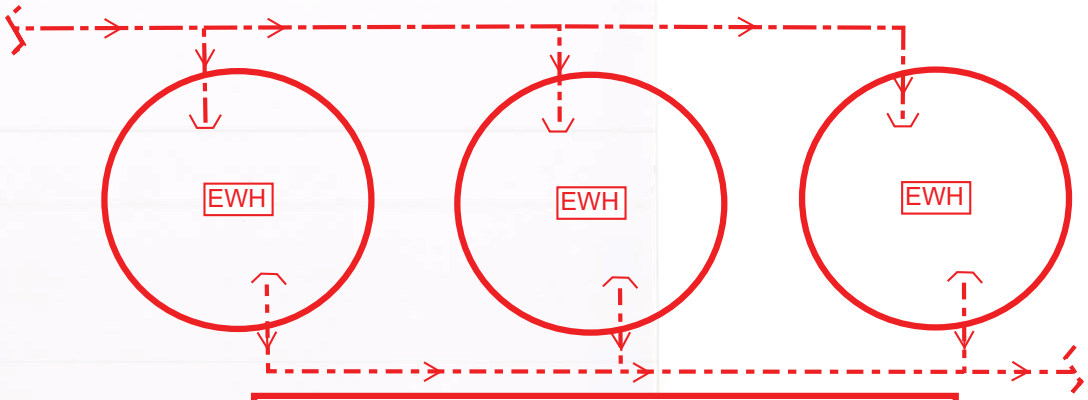
Proposed Shindand Hospital

28-JULY-2011

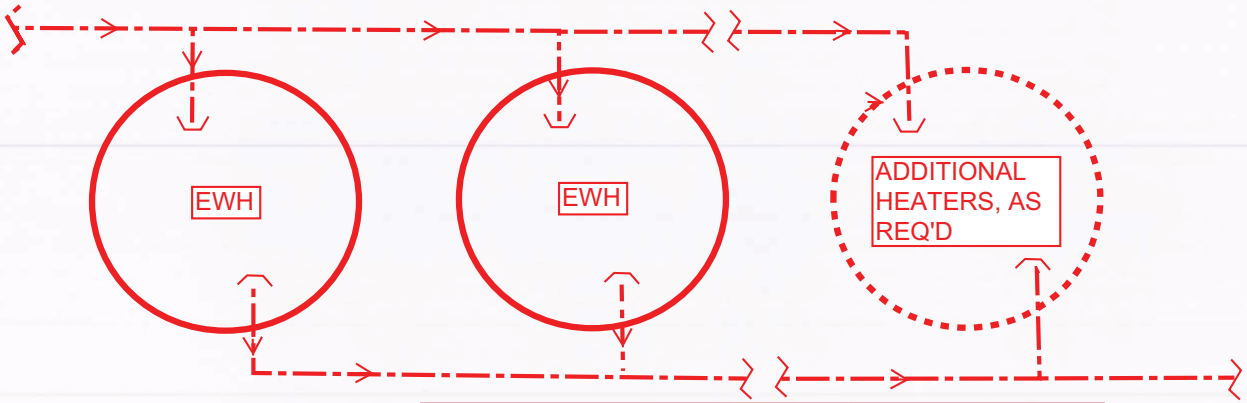
HVAC ZONE CONCEPT PLAN M-1



Two (2) identically sized electric water heaters (EWHs)



Three (3) identically sized electric water heaters (EWHs)



Multiple identically sized electric water heaters (EWHs)

<u>IDENTICALLY SIZED</u> ELECTRIC WATER HEATERS (EWHS) ARE SHOWN IN A "REVERSE RETURN" CONFIGURATION TO ENSURE EQUAL FLOW AND DRAWDOWN RATES. NOTE: INLET AND OUTLET PIPING REQUIRES THE SAME LENGTH AND FITTING ARRANGEMENTS FOR EQUAL STATIC PRESSURE DROPS AND TANK DRAW-DOWN RATES.

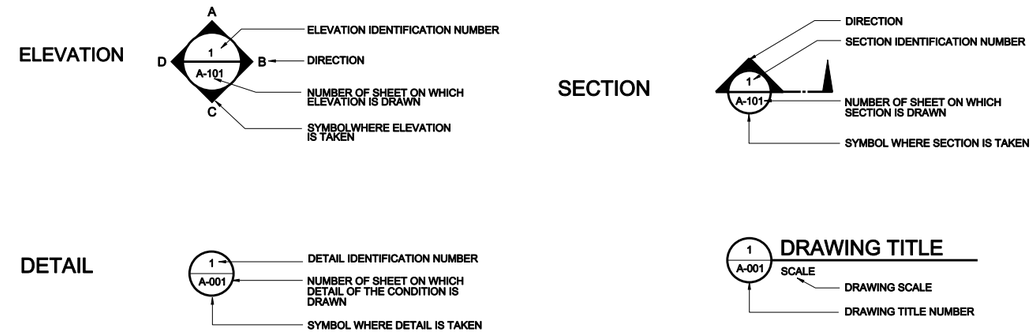
ENGINEERING AND CONSTRUCTION DIVISION
US ARMY ENGINEER DISTRICT, AFGHANISTAN
APO AE, 09356

CONTRACT NO.

BOOSTER PUMP BUILDING

AFGHANISTAN

SECTION/DETAIL CROSS REFERENCING CONVENTIONS



SCHEDULE OF DRAWINGS

SHEET NO	DWG CODE	SHEET REFERENCE NO	DESCRIPTION	REV STATUS
			GENERAL	
		G-001	TITLE SHEET & SCHEDULE OF DRAWINGS	
			STRUCTURAL	
		S-101	FOUNDATION AND ROOF FRAMING PLANS	
		S-501	STRUCTURAL DETAILS	
		S-502	STRUCTURAL DETAILS	
		S-503	STRUCTURAL DETAILS	
			ARCHITECTURAL	
		A-101	FLOOR PLAN, ELEVATIONS, AND BUILDING SECTION	
			MECHANICAL	
		M-101	HVAC AND PLUMBING PLANS	
			ELECTRICAL	
		E-001	ELECTRICAL SYMBOLS AND ABBREVIATIONS	
		E-101	LIGHTING AND POWER PLAN	

PROJECT COORDINATION

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN

PROJECT MANAGER _____ DATE _____

CHIEF, DESIGN BRANCH _____ DATE _____

THIS PROJECT WAS DESIGNED BY AFGHANASTAN ENGINEER DISTRICT OF THE U.S ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APR

DESIGNED BY: AED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: 24MAY08
DESIGN FILE NO.
DRAWING CODE:
FILE NAME: G-TS.dgn
PLOT SCALE: AS SHOWN
CONTRACT NO. xx-xx-xx
REV. —

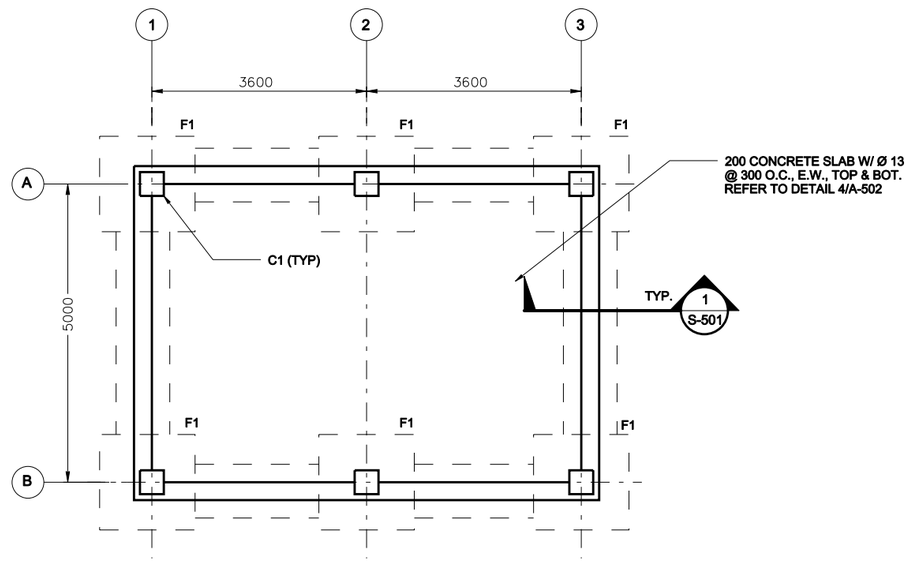
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN

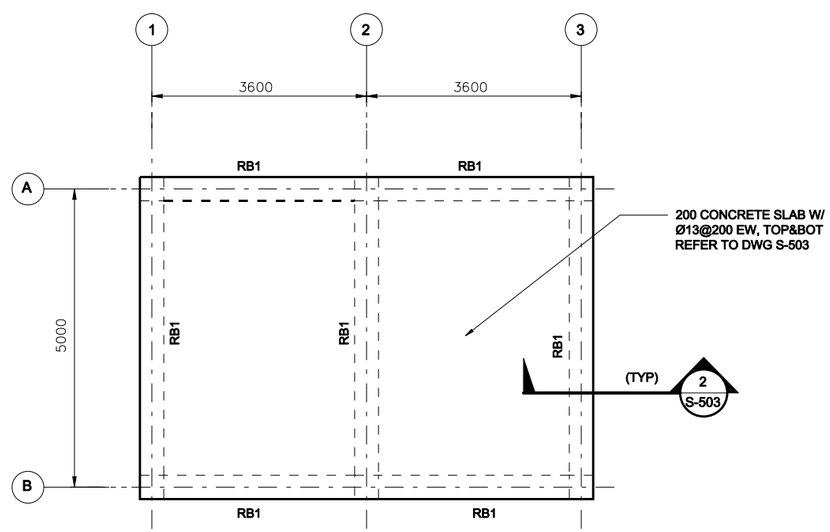
BOOSTER PUMP BUILDING
TITLE SHEET
SCHEDULE OF DRAWINGS

SHEET REFERENCE NUMBER:
G-001
SHEET -- OF --



1 S-101 FOUNDATION AND SLAB PLAN

SCALE = 1:50



2 S-101 ROOF FRAMING PLAN

SCALE = 1:50

1. DESIGN LOADS (SERVICE)

LIVE LOADS:

ROOF: 1.0 KPA (20 PSF)
OTHERS: 4.8 KPA (100 PSF)
8.9 KN (2.0 K) CONCENTRATED LOAD

WIND LOADS PER IBC-2003

USING A "3-SECOND" WIND VELOCITY OF 125 KPH (78 MPH), EXPOSURE C AND IMPORTANCE FACTOR I=1.0

EARTHQUAKE LOADS PER IBC-2003:

USING A SEISMICITY: Ss=1.65g AND S =0.75g 1

2. MATERIALS:

CONCRETE: 28 MPa (4 KSI)
CYLINDER STRENGTH AT 28 DAYS
REINFORCING: ASTM A615 GRADE 60 (60 KSI)

3. WORK THESE STRUCTURAL DRAWINGS WITH THE STANDARD-DETAILS DRAWINGS.

4. A RELATIVE (DATUM) FINISH FLOOR ELEVATION EQUAL TO 0.00 M. IS USED AS REFERENCE ELEVATION FOR ALL STRUCTURAL DRAWINGS. COORDINATE WITH SITE SPECIFIC GRADING PLAN TO BE PROVIDED BY CONTRACTOR.

5. FOUNDATIONS ARE DESIGNED USING AN ALLOWABLE BEARING PRESSURE OF 0.75 KG/SQ. CM (1500 PSF), AND BOTTOM OF FOOTINGS ARE PLACED AS SHOWN ON DRAWINGS. GEOTECHNICAL INVESTIGATION SHALL CONFIRM BEARING CAPACITY TO BE NO LESS THAN 0.75 KG/SQ CM. IF GEOTECHNICAL INVESTIGATION SHOWS LESS THAN 0.75 KG/SQ CM THE CONTRACTOR SHALL REDESIGN FOOTINGS BASED ON THE GEOTECHNICAL INVESTIGATION. SEE SPECIFICAITON 01015 PARAGRAPH, GEOTECHNICAL, FOUNDATION AND SURVEY.

6. REFER TO DWG S-502 FOR COLUMN SCHEDULE.

7. REFER TO DWG S-501 FOR FOOTING SCHEDULE.

8. REFER TO DWG S-503 FOR BEAM SCHEDULE.

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

DESIGNED BY: AED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
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FILE NAME:
PLOT SCALE: AS SHOWN
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REV. ___

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN

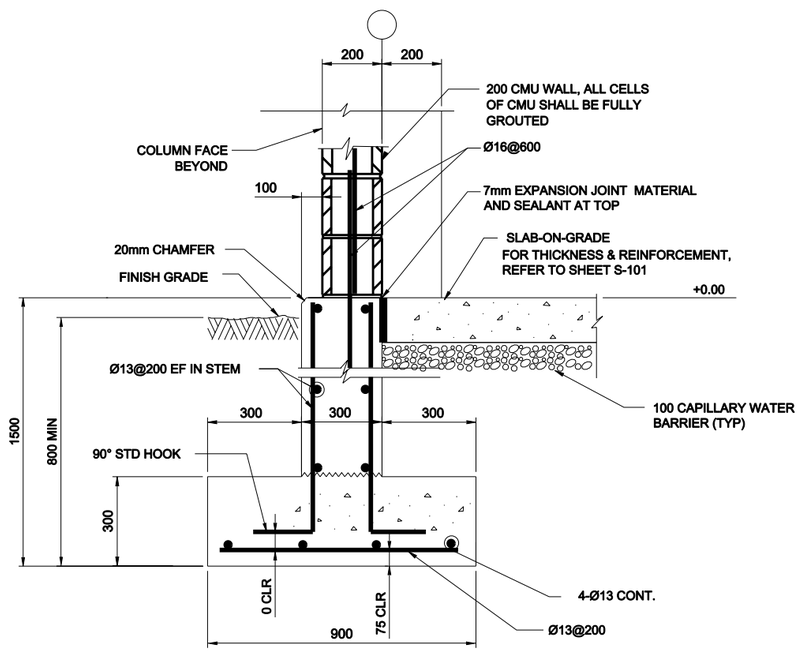
BOOSTER PUMP BUILDING
FOUNDATION AND ROOF FRAMING PLANS

SHEET REFERENCE NUMBER:
S-101
SHEET — OF —

TITLES: 6.35mm = 1/4" (ARIAL TTF)

FOOTING SCHEDULE

MARK	CONCRETE DIMENSIONS			REINFORCEMENT		REMARKS
	WIDTH	LENGTH	THICKNESS	TOP	BOTTOM	
F1	1600	1600	300	——	5- Ø25 E.W.	REFER TO TYPICAL COLUMN FOOTING DETAIL THIS SHEET



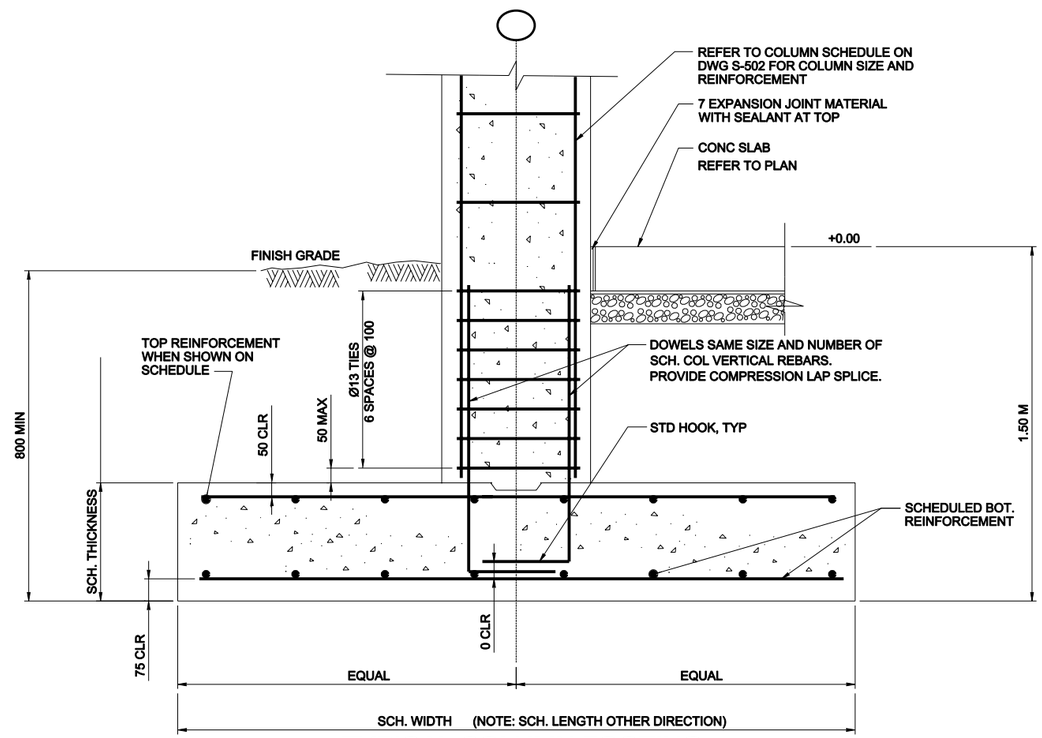
TYPICAL WALL FOOTING

1 S-501 SECTION
NTS

NOTES:

1. HORIZONTAL STEM WALL AND FOOTING REINFORCEMENTS ARE CONTINUOUS THROUGH COLUMN AND COLUMN FOOTING

2. AT DISCONTINUOUS STEM WALL BARS TERMINATE WITH STANDARD HOOK IN COLUMN. FOOTING BARS TERMINATE WITH 600 MM EMBEDMENT IN COLUMN FOOTING.



TYPICAL COLUMN FOOTING

2 S-501 DETAIL
NTS

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

DESIGNED BY: ASED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
DRAWING CODE:
FILE NAME:
PLOT SCALE: AS SHOWN
CONTRACT NO. XXX-XX-XX
REV. —

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

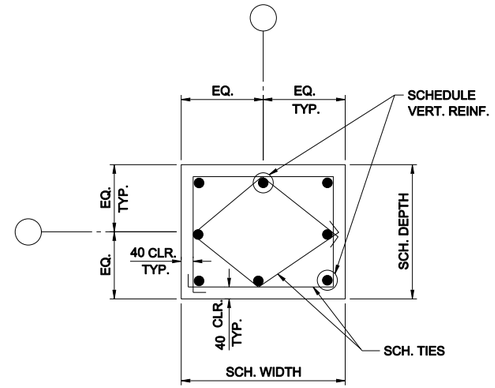
CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN
BOOSTER PUMP BUILDING
STRUCTURAL DETAILS

SHEET REFERENCE NUMBER:
S-501
SHEET — OF —

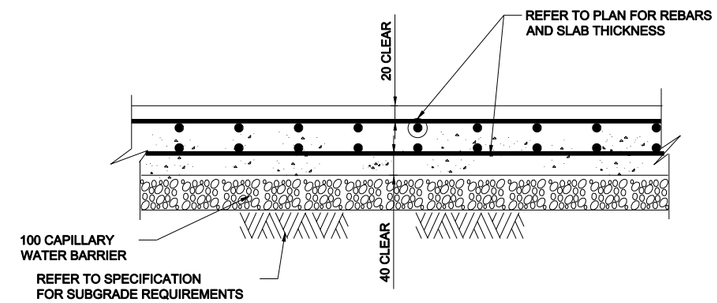
COLUMN SCHEDULE

NOTES: 1. REFER TO DETAILS B&C/S-3 AND A/S-2 FOR TYPICAL COLUMN DETAILS.

COLUMN GRIDS	COLUMN TYPE	CONCRETE DIMENSIONS		VERTICAL REINFORCEMENT	TIE REINFORCEMENT	
		WIDTH	DEPTH		SIZE	SPACING
A-1, A-2, A-3 B-1, B-2, B-3	C1	400	400	8-∅29	∅13	300

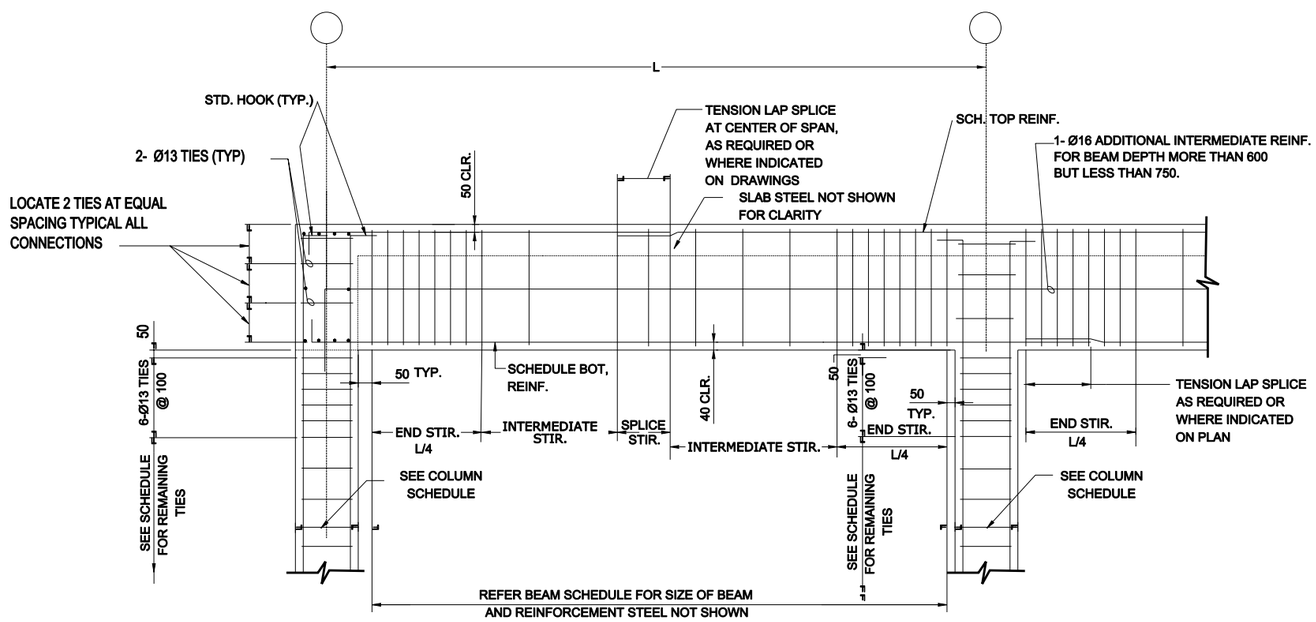


1 S-502 COLUMN TYPE
NTS



SLAB-ON-GRADE WITH TOP & BOTTOM REINFORCEMENTS

4 S-502 DETAIL
NTS



TYPICAL BEAM TO COLUMN END CONNECTION

2 S-502 DETAIL
NTS

TYPICAL BEAM TO COLUMN INTERIOR CONNECTION

3 S-502 DETAIL
NTS

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

DESIGNED BY: AED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
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FILE NAME:
PLOT SCALE: AS SHOWN
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U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

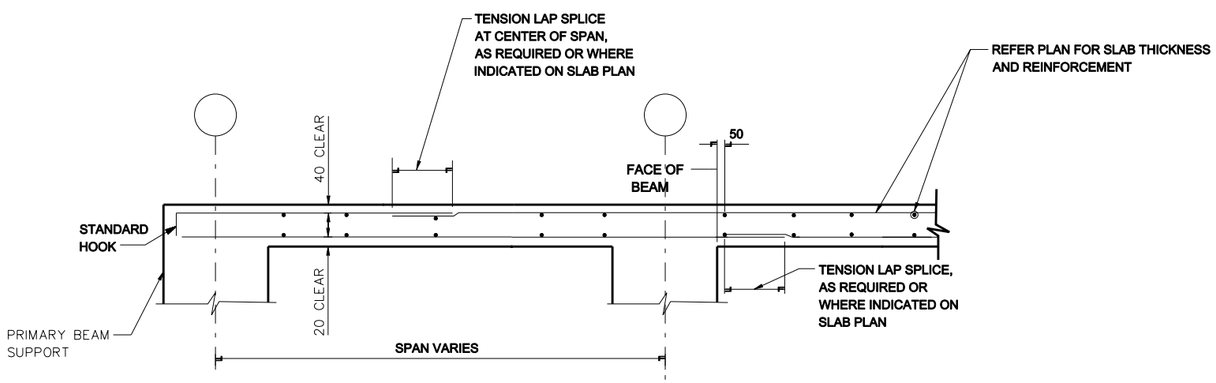
CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN
BOOSTER PUMP BUILDING
STRUCTURAL DETAILS

SHEET REFERENCE NUMBER:
S-502
SHEET — OF —

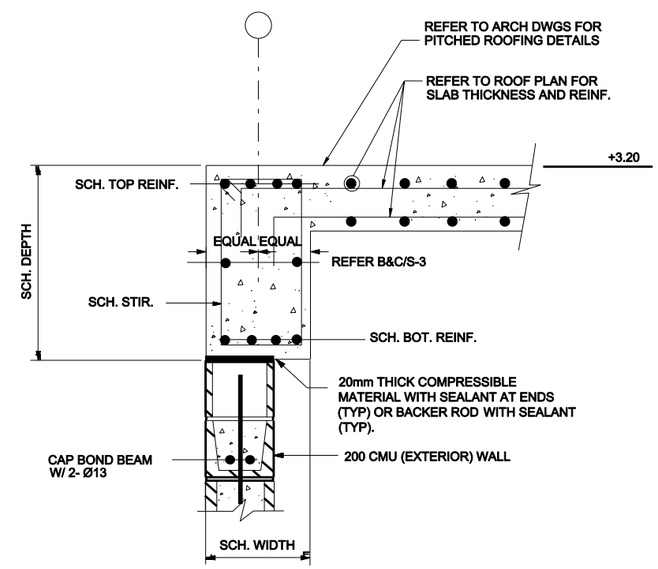
BEAM SCHEDULE

MARK	CONCRETE DIMENSIONS		FLEXURAL REINFORCEMENT		STIRRUP REINFORCEMENT				REMARKS
					SIZE	TYPE	SPACING		
	WIDTH	DEPTH	TOP	BOTTOM			ENDS & SPLICE	INTERMEDIATE	
RB1	400	700	4- Ø22	4- Ø22	Ø13		160	320	

NOTE: REFER TO DETAILS B&C/S-3 FOR TYPICAL BEAM ELEVATIONS AND SECTION 1/S-4 FOR TYPICAL BEAM SECTION.



1 S-503 STRUCTURAL SLAB WITH TOP AND BOTTOM REINFORCEMENTS
NTS



2 S-503 SECTION
NTS

US ARMY CORPS
OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

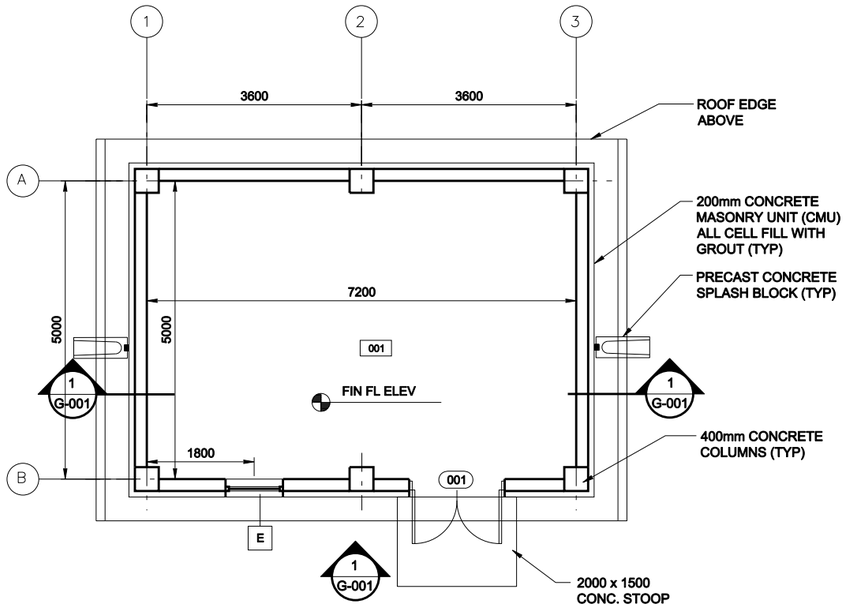
DESIGNED BY: ASD
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
DRAWING CODE:
FILE NAME:
PLOT SCALE: AS SHOWN
CONTRACT NO. XXX-XX-XX
REV. —

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

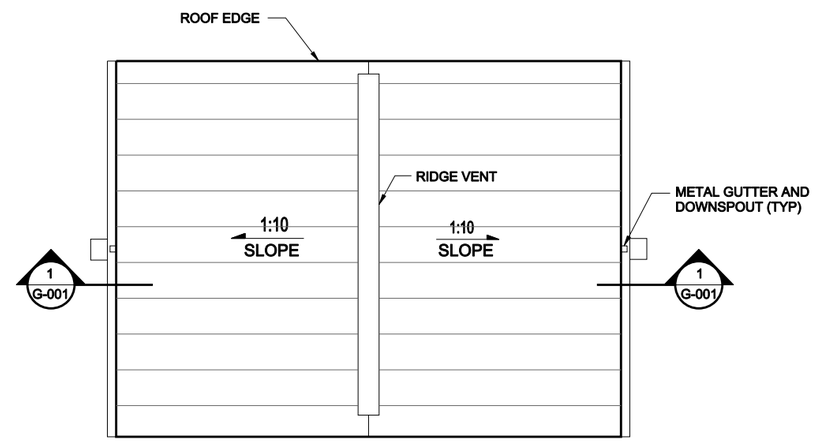
ENGINEERING AND
CONSTRUCTION DIVISION

CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN
BOOSTER PUMP BUILDING
STRUCTURAL DETAILS

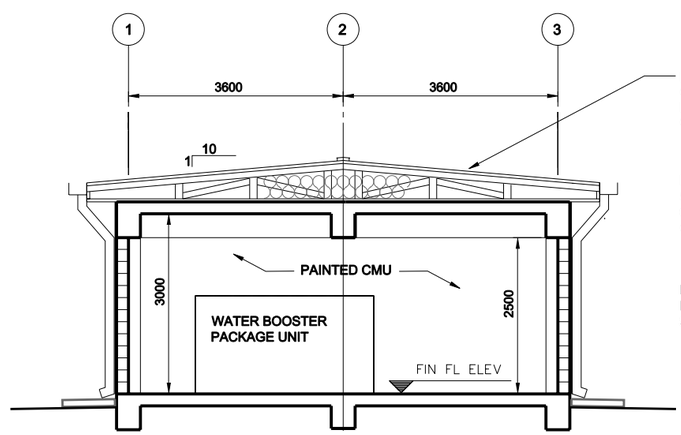
SHEET
REFERENCE
NUMBER:
S-503
SHEET — OF —



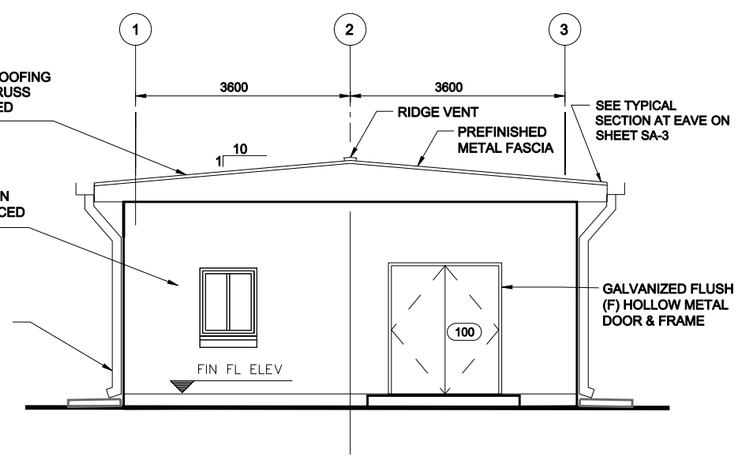
1 A-101 FLOOR PLAN
SCALE = 1:50



2 A-101 ROOF PLAN
SCALE = 1:50



3 A-101 BUILDING SECTION
SCALE = 1:50



4 A-101 ELEVATION
SCALE = 1:50

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

DESIGNED BY: AED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
DRAWING CODE:
FILE NAME:
PLOT SCALE: AS SHOWN
CONTRACT NO. XXX-XX-XXX
REV. ___

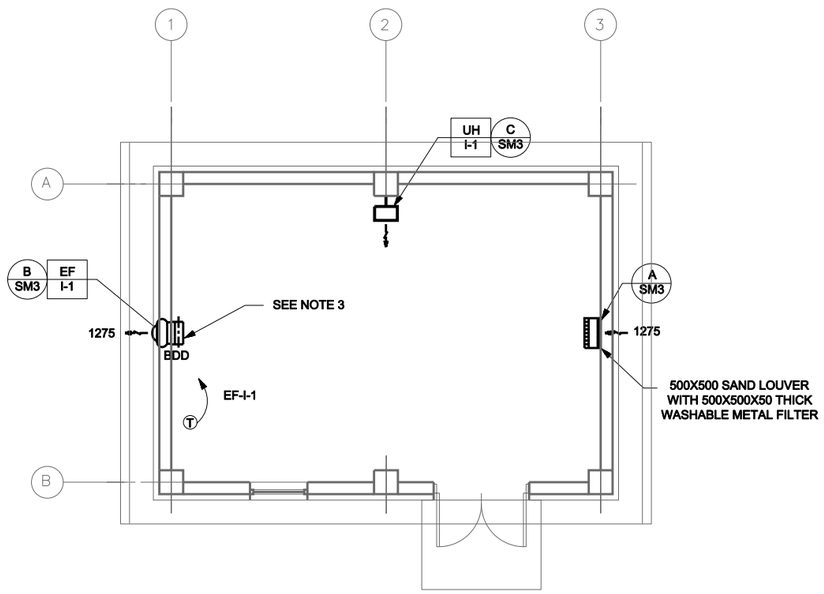
U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

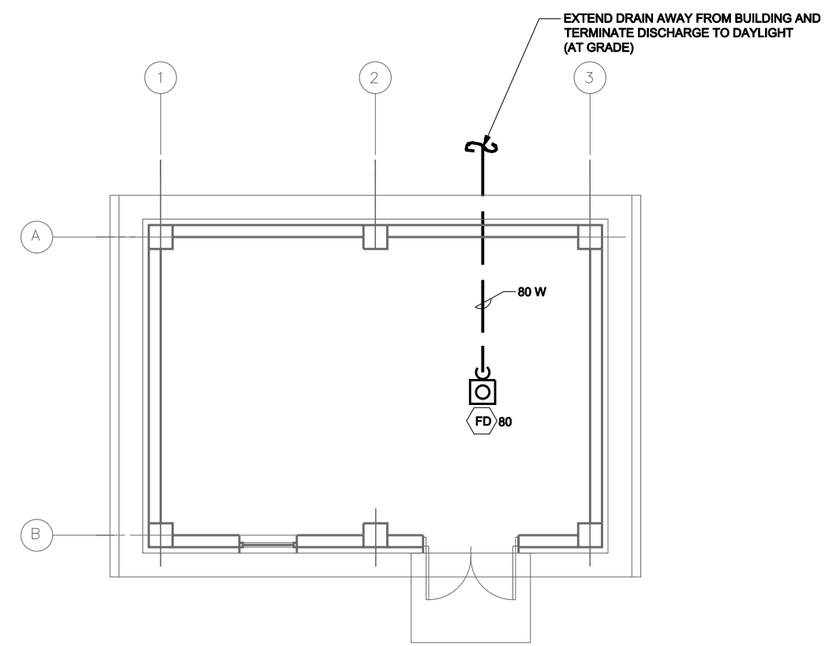
CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN

BOOSTER PUMP BUILDING
FLOOR PLAN, ELEVATIONS & BUILDING SECTION

SHEET REFERENCE NUMBER:
A-101
SHEET — OF —



1 M-101 HVAC PLAN
SCALE = 1:50



1 M-101 PLUMBING PLAN
SCALE = 1:50

US ARMY CORPS
OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

DESIGNED BY: ASD
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
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U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND
CONSTRUCTION DIVISION

CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN

BOOSTER PUMP BUILDING
HVAC AND PLUMBING
PLANS

SHEET
REFERENCE
NUMBER:
M-101
SHEET — OF —

POWER

- DISTRIBUTION PANELBOARD
- NEW PANELBOARD - SURFACE
- NEW PANELBOARD - RECESSED
- EXISTING PANELBOARD
- GENERATOR
- TVSS — TRANSIENT VOLTAGE SURGE SURPRESSOR
- TRANSFORMER (DRAWN TO SIZE)
- PS — POWER SUPPLY
- CP — CONTROL PANEL
- TC — TIME CLOCK
- TIM — ASTRONOMICAL TIME CLOCK- "SEE SPEC."
- R — RELAY WITH RATING AND NUMBER OF POLES AS NOTED ON DRAWINGS- "SEE SPEC."
- J — JUNCTION BOX
- J — JUNCTION BOX - CEILING
- PB — PULL BOX
- BD — BUS DUCT HORIZONTAL
- BUS DUCT VERTICAL
- EMERGENCY POWER OFF PUSH BUTTON
- NON-FUSIBLE SAFETY SWITCH
- FUSIBLE SAFETY SWITCH
- M — MOTOR
- $M — MOTOR STARTING SWITCH - 20A RATED
- $K — KEY SWITCH - 20A RATED
- FC — FAN COIL - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION
- UH — UNIT HEATER - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION
- D — JUNCTION BOX FOR CONNECTION TO GARBAGE DISPOSAL
- CF — LIGHT/HEATER/FAN - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION
- ELECTRIC WATER HEATER
- EPO — WEATHERPROOF / EXPLOSION PROOF EMERGENCY POWER OFF PUSH-BUTTON TO BE INTERCONNECTED WITH GENERATOR SHUT DOWN CONTROL
- CF — CEILING FAN - REFER TO SPECIFICATION SECTION 26 20 00

RECEPTACLES

- DUPLEX 20A BRITISH STANDARD UNSWITCHED SOCKETS
- GF — DUPLEX 20A BRITISH STANDARD UNSWITCHED SOCKETS - GROUND FAULT INTERRUPTER TYPE
- WP, GF — DUPLEX 20A BRITISH STANDARD UNSWITCHED SOCKETS - GROUND FAULT INTERRUPTER TYPE WITH WEATHERPROOF COVER
- EXP — DUPLEX 20A BRITISH STANDARD UNSWITCHED SOCKETS - EXPLOSION PROOF
- * — INDICATES MOUNT DEVICE ABOVE COUNTER TOP

LIGHTNING PROTECTION

- AIR TERMINAL 1/2"O.D. X 12' SOLID COPPER, NICKEL PLATED ON ADHESIVE BASE.
- EQ — EQUIPMENT AIR TERMINAL
- TEST WELL WITH GROUND ROD(S)
- GROUND ROD
- G — GROUND PLATE
- MAIN GROUND CONDUCTER CONCEALED WITHIN CONSTRUCTION
- MAIN GROUND CONDUCTOR EXPOSED ON EXPOSED ON BUILDING EXTERIOR SURFACE
- GROUND CONDUCTOR CAD WELDED TO GROUND CABLE OR EQUIPMENT
- GROUND CONDUCTOR CAD WELDED TO BUILDING STEEL COLUMN
- GROUND ROD TRIPOD, SPACED 10 FEET APART.
- LEVEL TO LEVEL CABLE

LIGHTING

- LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
- LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION
- DOWNLIGHT
- LIGHTING FIXTURE ON NORMAL/EMERGENCY
- WALL MOUNTED LIGHT FIXTURE
- E — EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS
- B — BATTERY PACK WITH HEADS AS INDICATED ON DRAWINGS
- REMOTE HEAD FOR BATTERY PACK
- $ — SINGLE POLE SWITCH - 20A RATED
- $3 — 3-WAY SWITCH - 20A RATED
- $4 — 4-WAY SWITCH - 20A RATED
- PC — PHOTOCELL VOLTAGE TO MATCH CIRCUITRY
- LC — LIGHTING CONTACTOR
- POLE MOUNTED SITE LIGHTING FIXTURE- NUMBER OF FIXTURES PER POLE AS INDICATED ON DRAWINGS
- EXTERIOR DIRECTIONAL LIGHTING FIXTURE
- a — SMALL CASE LETTERS REPRESENTS LAMP(S) / SWITCHES. WHEN USED WITH AN OCCUPANCY SENSOR THIS INDICATES SENSOR WITH MANUAL OVERRIDE SWITCH

TELECOMMUNICATIONS

- TELEPHONE OUTLET(S) @ 18" AFF. U.N.O. WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELEPHONE TERMINAL BOARD IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION
- DATA OUTLET(S) @ 18" AFF. U.N.O. WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO DATA EQUIPMENT RACK IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION

TELECOMMUNICATIONS (CONTINUED)

- COMBINATION TELEPHONE/DATA OUTLET(S) @ 18" AFF. U.N.O. WITH 1" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELE/DATA TERMINAL AREA IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION
- W — WALL MTD. TELEPHONE OUTLET WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELEPHONE TERMINAL BOARD IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION
- (x)T — INDICATES NUMBER OF TELEPHONE OUTLET(S) AND ASSOCIATED CABLING
- (x)D — INDICATES NUMBER OF DATA OUTLET(S) AND ASSOCIATED CABLING
- (x)TF — INDICATES NUMBER OF TELEPHONE OUTLETS AND ASSOCIATED CABLING WITH 1 OUTLET AND CABLE DEDICATED FOR FAX

SINGLE LINE SYMBOLS

- SWITCH
- BREAKER
- FUSE
- TRANSFORMER
- CAPACITOR
- GROUND
- CONTACT (NORMALLY OPEN)
- CONTACT (NORMALLY CLOSED)
- AUTOMATIC TRANSFER SWITCH
- MANUAL DOUBLE THROW SWITCH
- CURRENT TRANSFORMER
- INDICATES NEW ELECTRICAL EQUIPMENT
- C — INDICATES NEW CONTROL WIRING AND CONDUIT
- EQUIPMENT OUTLINE

MISCELLANEOUS

- BRANCH CIRCUIT WIRING CONCEALED ABOVE CEILINGS, SURFACE MOUNTED ON WALLS
- BRANCH CIRCUIT WIRING - #10 AWG
- BRANCH CIRCUIT WIRING - UNDER FLOOR
- HOME RUN BACK TO PANEL
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP
- LV — LOW VOLTAGE WIRING AND CONDUIT
- CT-X — CABLE TRAY ("X" DENOTES WIDTH)
- INDICATES CONTINUATION OF LINE

FIRE ALARM

- FACP — FIRE ALARM CONTROL PANEL WITH BATTERY BACKUP
- F — FIRE ALARM PULL STATION
- F — FIRE ALARM STROBE - WALL MOUNTED
- F — FIRE ALARM AUDIBLE/STROBE - WM

FIRE ALARM (CONTINUED)

- F — FIRE ALARM HORN/STROBE - WM
- S — SMOKE DETECTOR
- H — HEAT DETECTOR CEILING MOUNTED
- D — DUCT DETECTOR - PROVIDED BY EC, INSTALLED BY MC AND CONNECTED BY EC

DENOTATIONS & ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
C	CEILING MOUNTED
E	EMERGENCY
EC	ELECTRICAL CONTRACTOR
EPO	EMERGENCY POWER OFF
EXP	EXPLOSION PROOF
F	FIRE ALARM
FF	FLUSH FLOOR MOUNTED
FL	FLUORESCENT
FO	FIBER OPTIC
FSS	FUSED SAFETY SWITCH
G	GROUND FAULT INTERRUPTER
GC	GENERAL CONTRACTOR
HOA	HAND-OFF AUTO
I	INFRARED
ICD	INCANDESCENT
IG	ISOLATED GROUND
K	KEY
LV	LOW VOLTAGE
M	MOTOR
MC	MECHANICAL CONTRACTOR
NE	NORMAL/EMERGENCY
NFSS	NON-FUSED SAFETY SWITCH
PA	PAGING SYSTEM
PLC	PLUMBING CONTRACTOR
REL	RELOCATE
RED	RELOCATED
SL	SINGLE LINE
SS	SURGE SUPPRESSION
T	TELEPHONE
TL	TWIST LOCK
TP	TAMPER PROOF
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER

DENOTATIONS & ABBREVIATIONS (CONT.)

UT	UNDERGROUND TELEPHONE
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHERPROOF
WPG	WEATHERPROOF/GROUND FAULT INTERRUPTER
WT	WATER TIGHT

GENERAL PROJECT NOTES:

G1. UNLESS OTHERWISE NOTED, PROVIDE ALL EQUIPMENT SHOWN ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SYMBOLS SHOWN ON THE PLANS WITH THE SYMBOL LIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INTENT OF ANY SYMBOL THAT IS SHOWN ON THE PLANS AND NOT INDICATED ON THE SYMBOL LIST WITH THE ENGINEER PRIOR TO BID.

G2. COORDINATE THE FINAL LOCATIONS OF ALL LIGHT FIXTURES WITH THE ARCHITECT'S REFLECTED CEILING PLANS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO INSTALLATION.

G3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA THREE (3) WORKING DAYS NOTICE BEFORE COMMENCE DIGGING. NOTIFY THE LOCAL OR STATE AUTHORITY HAVING JURISDICTION AND WAIT THE REQUIRED TIME BEFORE COMMENCING TO DIG.

G4. THE CONTRACTOR SHALL COORDINATE CONDUIT RUNS, CABLE TRAY, LIGHTING FIXTURES AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADE CONTRACTORS TO AVOID CONFLICTS.

G5. WHERE VOLTAGES AND FREQUENCIES ON THE DRAWINGS AND IN THE SPECIFICATIONS DIFFER FROM THE LOCAL ONES, ALL WORK SHALL BE PERFORMED USING THE LOCAL VOLTAGES AND FREQUENCIES.

G6. THE MINIMUM WIRE SIZE ON THE PROJECT SHALL BE 4mm2. THE MINIMUM CONDUIT SIZE SHALL BE 20mm. THE MINIMUM BREAKER SIZE SHALL BE 20 AMPS.

G7. THE CONTRACTOR SHALL PUT A MAXIMUM OF 6 DUPLEX SOCKETS ON A 20A SINGLE POLE CIRCUIT.

G8. WHERE THE 1010 SCOPE REVIEW, 1015 TECHNICAL REVIEW, DRAWINGS, AND SPECIFICATIONS DIFFER FROM AMERICAN CODES OR STANDARDS THE 1010, 1015, DRAWINGS, AND SPECIFICATIONS SHALL RULE.

G9. WORK FOR THE AMMUNITION SUPPLY POINT SHALL BE DONE IN ACCORDANCE WITH DEPARTMENT OF DEFENSE STANDARD DOD 6055.9-STD.

G10. ALL CONDUIT AND DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE INDICATED.

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APP.

DESIGNED BY: AED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
DRAWING CODE:
FILE NAME:
PLOT SCALE: AS SHOWN
CONTRACT NO. XXX-XX-XX
REV. —

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN

BOOSTER PUMP BUILDING
ELECTRICAL
SYMBOLS AND ABBREVIATIONS

SHEET REFERENCE NUMBER:
E-001
SHEET — OF —

NOTES:

1. FOR LEGEND AND ABBREVIATIONS SEE DRAWING E-001.

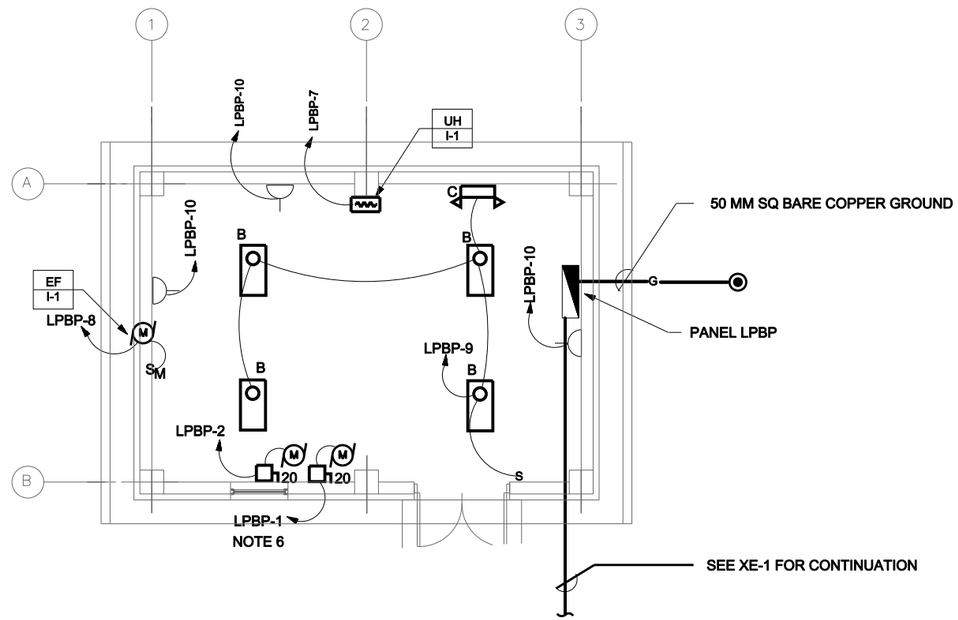
2.COORDINATE LOCATION OF ALL ELECTRICAL FIXTURES AND EQUIPMENT WITH ALL OTHER TRADES.

3. ALL WIRING SHALL BE SURFACE MOUNTED IN METAL CONDUIT.

4. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT SEE MECHANICAL DRAWINGS.

5. DESIGN IS BASED ON TWO 3 HP PUMP. IT IS CONTRACTORS' RESPONSIBILITY TO DESIGN AND PROVIDE PROPERLY SIZED PUMPS AS REQUIRED PER SCOPE OF WORK FOR THIS PROJECT.

6. CONTRACTOR SHALL CONFIRM THAT ALL CIRCUIT RATINGS ARE BASED ON THE ACTUAL NAMEPLATE OF THE SUPPLIED EQUIPMENT.



1 E-101 LIGHTING AND POWER PLAN
SCALE

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

SYMBOL	DESCRIPTION	DATE	APV

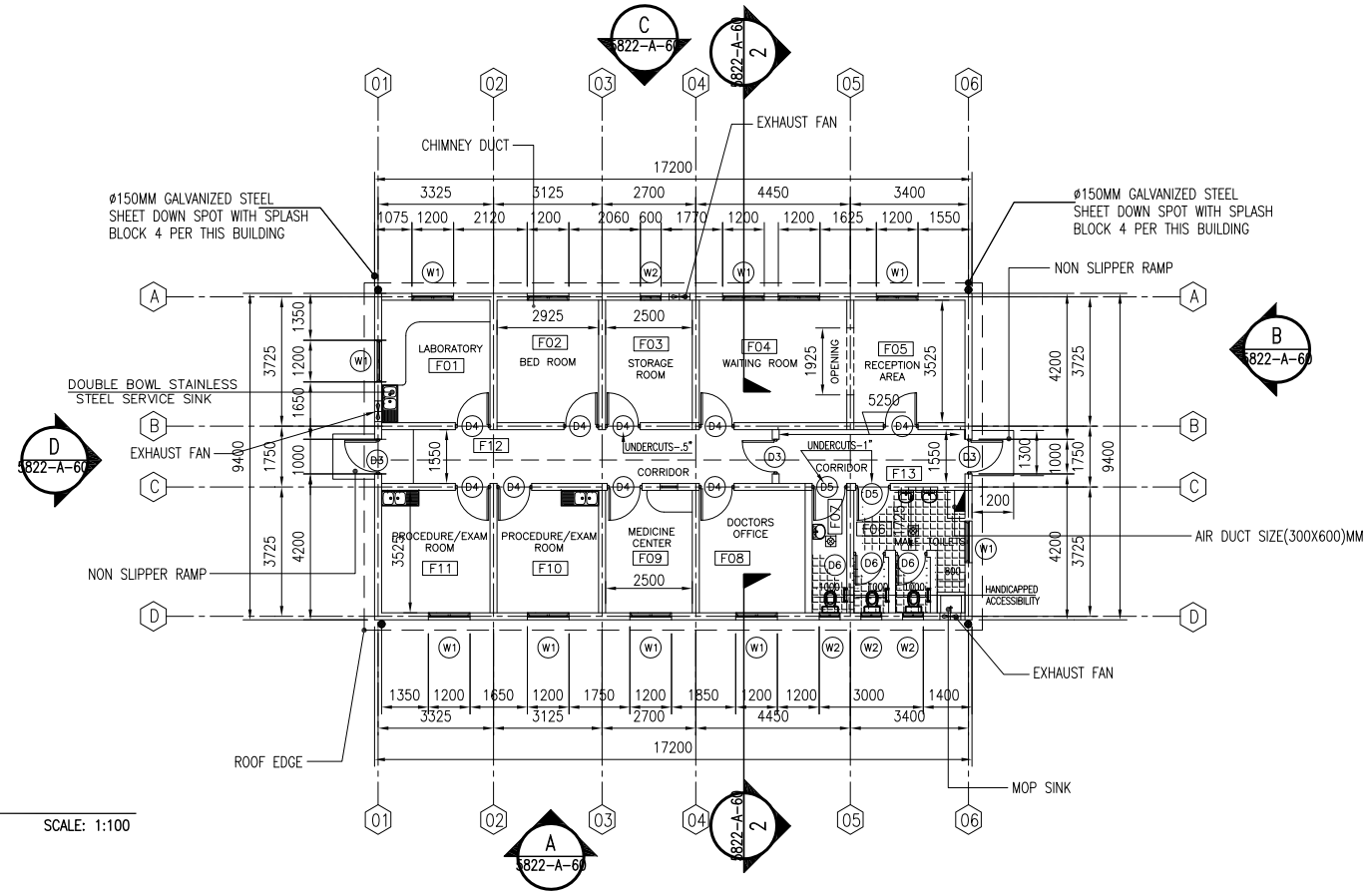
DESIGNED BY: ABED
DWN BY: AED
CKD BY: AED
REVIEWED BY:
SUBMITTED BY:
DATE: XX-XX-XX
DESIGN FILE NO.
REV. ___
DRAWING CODE:
FILE NAME:
PLOT SCALE: AS SHOWN
CONTRACT NO. XXX-XX-XXX

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 09356

ENGINEERING AND CONSTRUCTION DIVISION

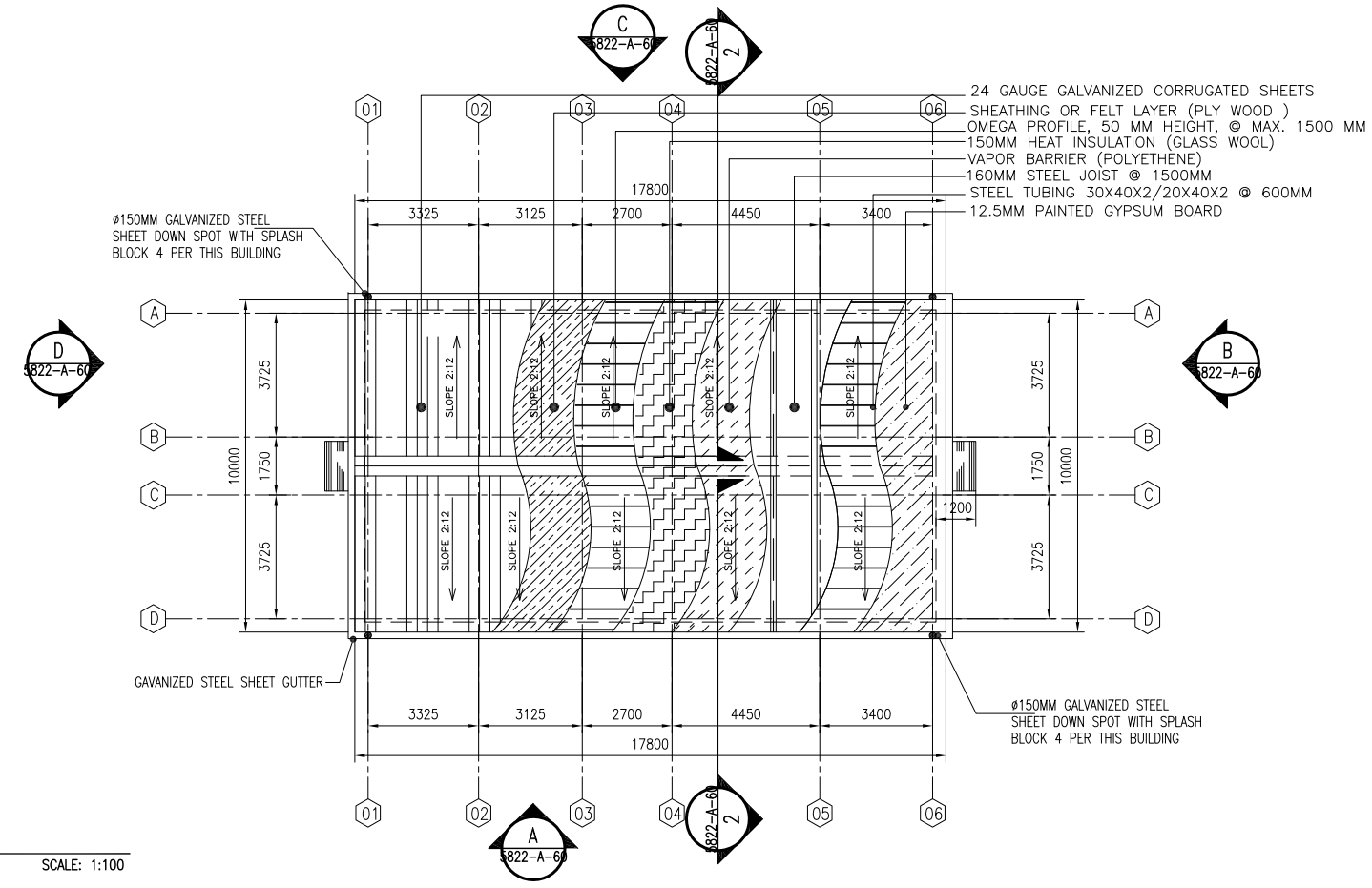
CNPA HEADQUARTERS COMPOUND
KABUL, AFGHANISTAN
BOOSTER PUMP BUILDING
LIGHTING AND POWER PLAN

SHEET REFERENCE NUMBER:
E-101
SHEET — OF —



01 FIRST FLOOR PLAN

5822-A-59 REF. SCALE: 1:100



02 ROOF PLAN

5822-A-59 REF. SCALE: 1:100

1 0 1 2 3 4 5 6 7 8 9

1:100

Finishing Schedule Legend

Floor

F1	GRAY DUST PROPER SURFACE HARDENING AND SEALER
F2	300mmX300mm Terrazzo with water proofing membrane beneath sloping mortar bed

Wall

W1	White Painted Plaster
W2	150mmX150mm glazed ceramic tiles up to 2000mm above F.F.L.
W3	PAINTED WITH 1 HOUR FIRE RATED PAINT (JOTUN)

Ceiling

C1	White Painted GYPSUM BOARD
C2	1/2 HOUR FIRE RATED GYPSUM BOARD

Room	Usage	Floor	Wall	Ceiling
F01	LABORATORY ROOM	F2	W3	C2
F02	BED ROOM	F2	W3	C2
F03	STORAGE ROOM	F2	W3	C2
F04	WAITING ROOM	F2	W3	C2
F05	RECEPTION AREA	F2	W1	C1
F06	MALE TOILETS	F2	W2	C1
F07	FEMALE TOILETS	F2	W2	C1
F08	DOCTORS OFFICE	F2	W3	C2
F09	MEDICINE CENTER	F2	W1	C1
F10	PROC/EXAM ROOM	F2	W2	C1
F11	PROC/EXAM ROOM	F2	W2	C1
F12	CORRIDOR	F2	W3	C2
F13	CORRIDOR	F2	W3	C2

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE UPECIFIED.
2- ALL LEVELS ARE IN METER (M) UNLESS OTHERWISE UPECIFIED
3- ALL WALLS ARE 200MM CMU MASONARY WORK
4- EXTERIOR WALLS TO BE COLORED STUCCO
5- ALL ROOFS ARE GAUGE 24 GALVANIZED STEEL CORRUGATED SHEETS

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	Description	DATE	Appr.
4	100% DESIGN RESUBMITTAL # 3	JAN-25-2011			
3	100% DESIGN RESUBMITTAL # 2	Date			
2	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS KTR		
1	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS KTR		
0	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS KTR		
0	65% DESIGN SUBMITTAL	APR-15-2007	DESIGNED BY PREVIOUS KTR		
0	35% DESIGN SUBMITTAL	JAN-26-2007	DESIGNED BY PREVIOUS KTR		

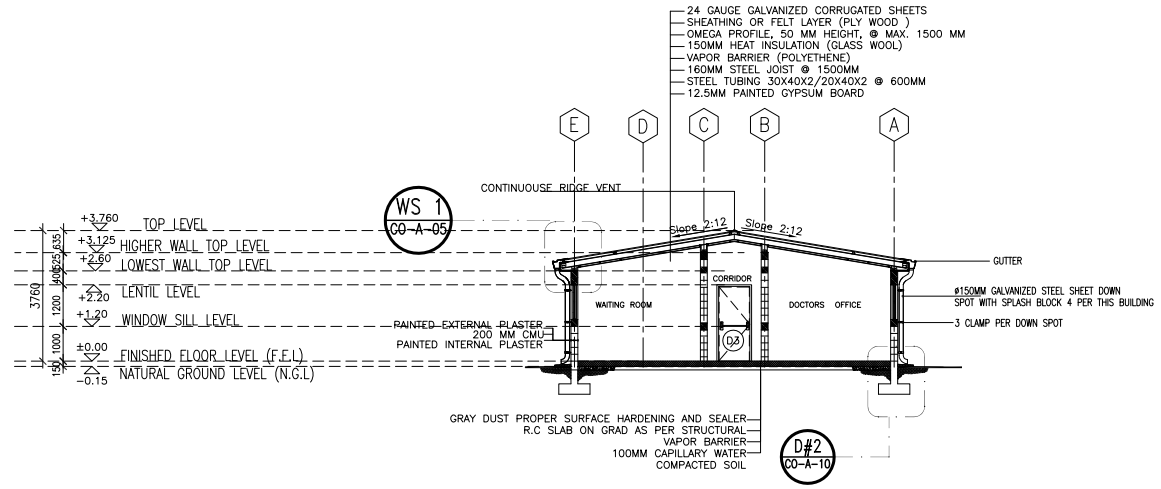
Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

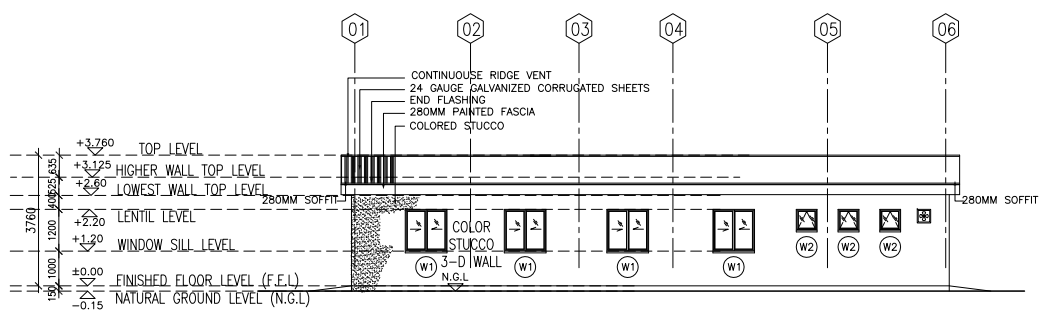
CLINIC BUILDING #(5822)
FIRST FLOOR + ROOF PLAN

SHEET REFERENCE NUMBER:
5822-A-59



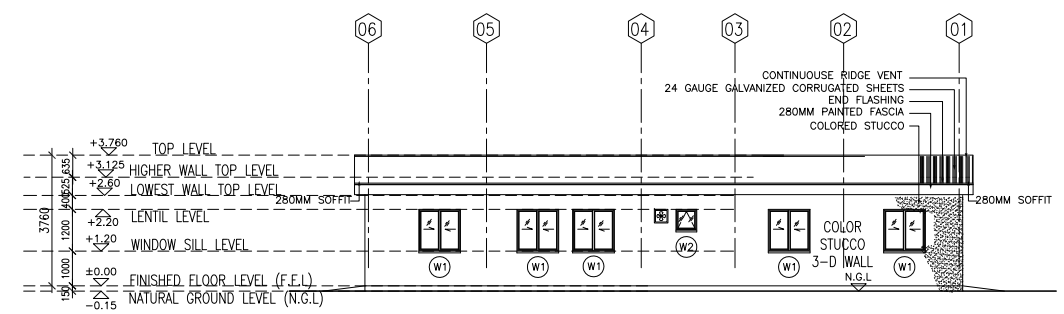
01 SECTION: 1-1

5822-A-60 REF. 5822-A-59 SCALE: 1:100



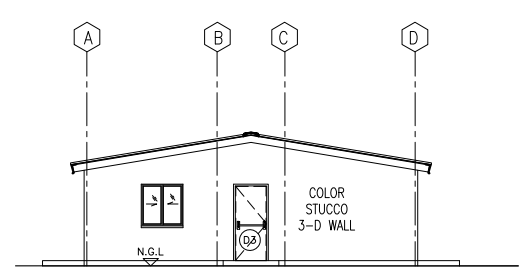
03 ELEVATION: A

5822-A-60 REF. 5822-A-59 SCALE: 1:100



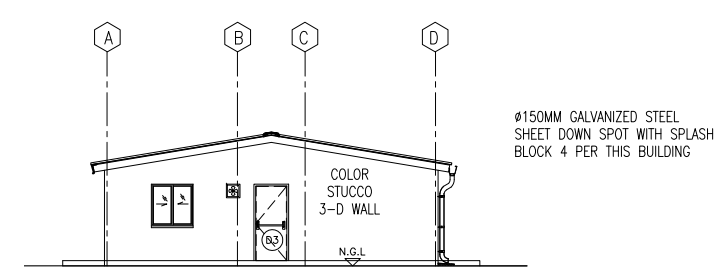
05 ELEVATION: C

5822-A-60 REF. 5822-A-59 SCALE: 1:100



04 ELEVATION: B

5822-A-60 REF. 5822-A-59 SCALE: 1:100



06 ELEVATION: D

5822-A-60 REF. 5822-A-59 SCALE: 1:100

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E
A	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS A/E
A	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS A/E
A	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS A/E
A	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS A/E

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

CLINIC BUILDING #5822
SECTION AND ELEVATIONS

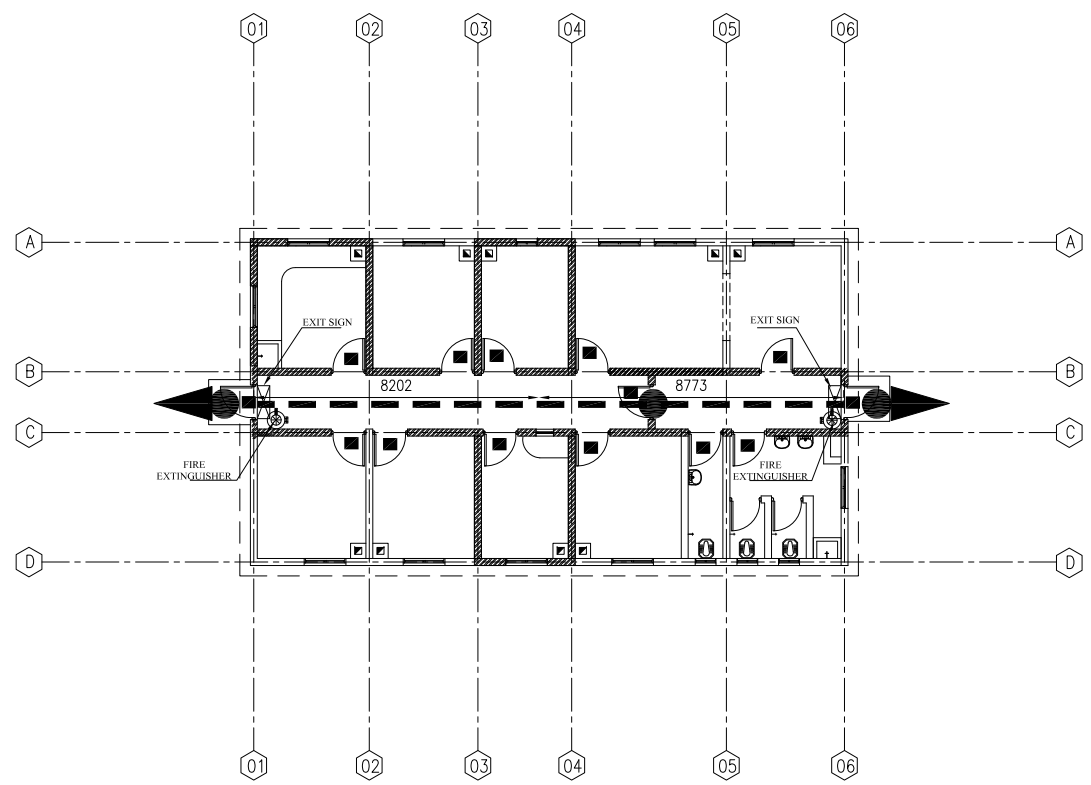
SHEET REFERENCE NUMBER:
5822-A-60
115 OF 529

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2- ALL LEVELS ARE IN METER (M) UNLESS OTHERWISE SPECIFIED
3- ALL WALLS ARE 200 MM CMU WORK AND ONE HOUR FIRE RATED
4- ALL EXIT DOOR ARE METAL
5- ALL ROOFS ARE GAUGE 24 GALVANIZED STEEL CORRUGATED SHEETS

LEGEND:

1- ONE HOUR FIRE RATED WALL UP TO DECK LEVEL
2- COMMON PATH OF TRAVEL
3- ISOLATED EXIT DOOR LOCATION
4- FAIRE EXTINGUISHER
5- EXIT SIGN
6-FIRE RATED DOOR



01 LIFE SAFTY PLAN
5822-A-61 REF. SCALE: 1:100

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	DESIGNED BY
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E
	100% DESIGN SUBMITTAL	JULY 21,2007	DESIGNED BY PREVIOUS A/E
	99% DESIGN SUBMITTAL	JUNE 10,2007	DESIGNED BY PREVIOUS A/E
	65% DESIGN SUBMITTAL	APRIL 15,2007	DESIGNED BY PREVIOUS A/E
	35% DESIGN SUBMITTAL	JAN.28,2007	DESIGNED BY PREVIOUS A/E

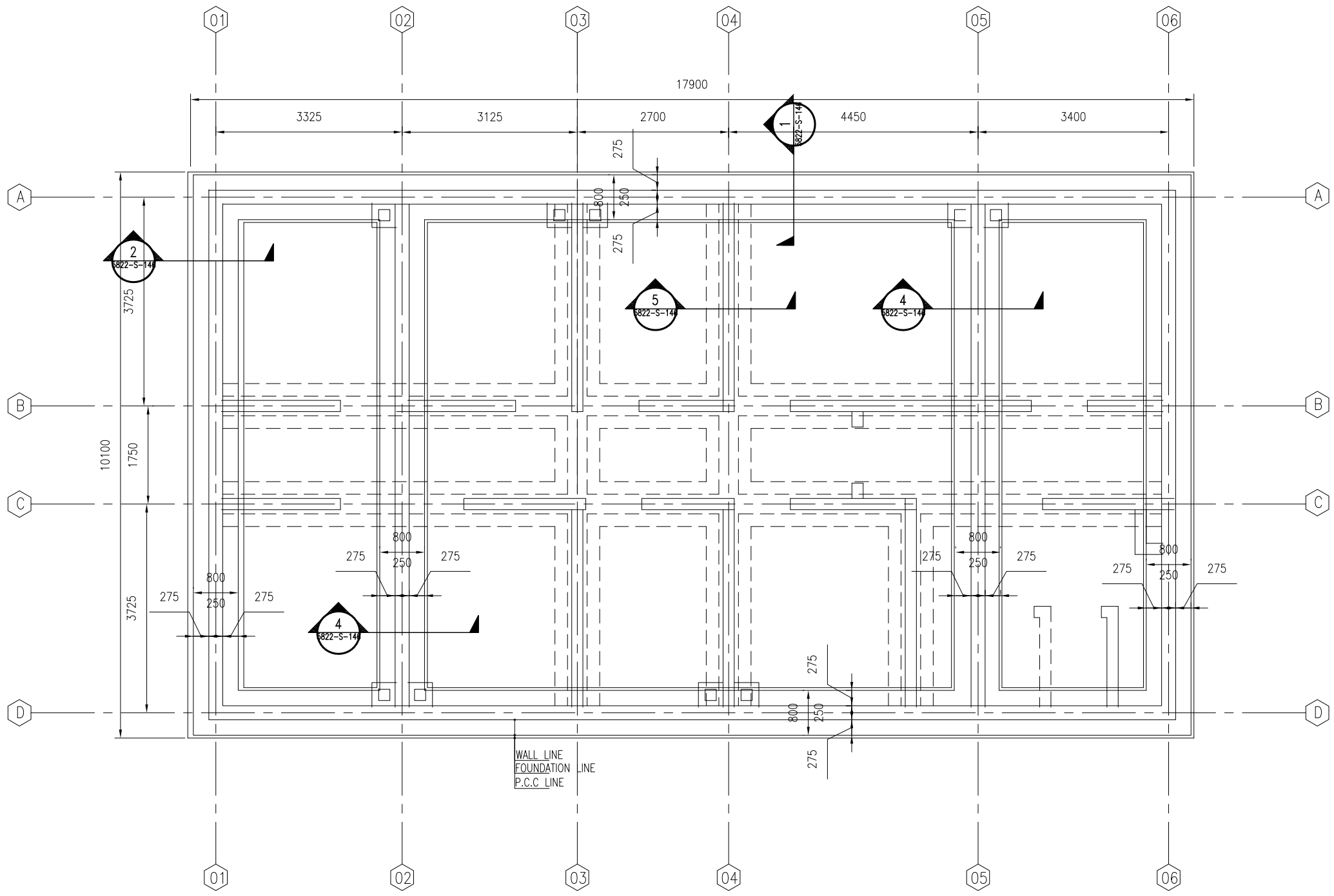
Symbol	Description	DATE	App.

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date: Plot Scale:
Solicitation No: Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN
Contractor:
Designer :

CLINIC BUILDING #5821
LIFE SAFTY PLAN

SHEET REFERENCE NUMBER:
5822-A-61
116 OF 529



01 FOUNDATION PLAN

5822-S-144 REF. SCALE: 1:80

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2- FOUNDATION DESIGN IS ASSUMED ON BEARING CAPACITY OF 14.22 PSI (1Kg/cm²).
3-FOUNDATION SHALL BE FOUNDED ON 95% MINMUM DENSITY OF COMPACTED MATERIAL.
4-THE STEEL GRADE SHALL BE Fy=60 KSI(Fy=4220Kg/cm²)
5-FOR CAST-IN-PLACE STRUCTURAL CONCRETE,MINIMUM 28 DAYS, CYLINDER STRENGTH f'c=4000 PSI(f'c=280Kg/cm²).

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

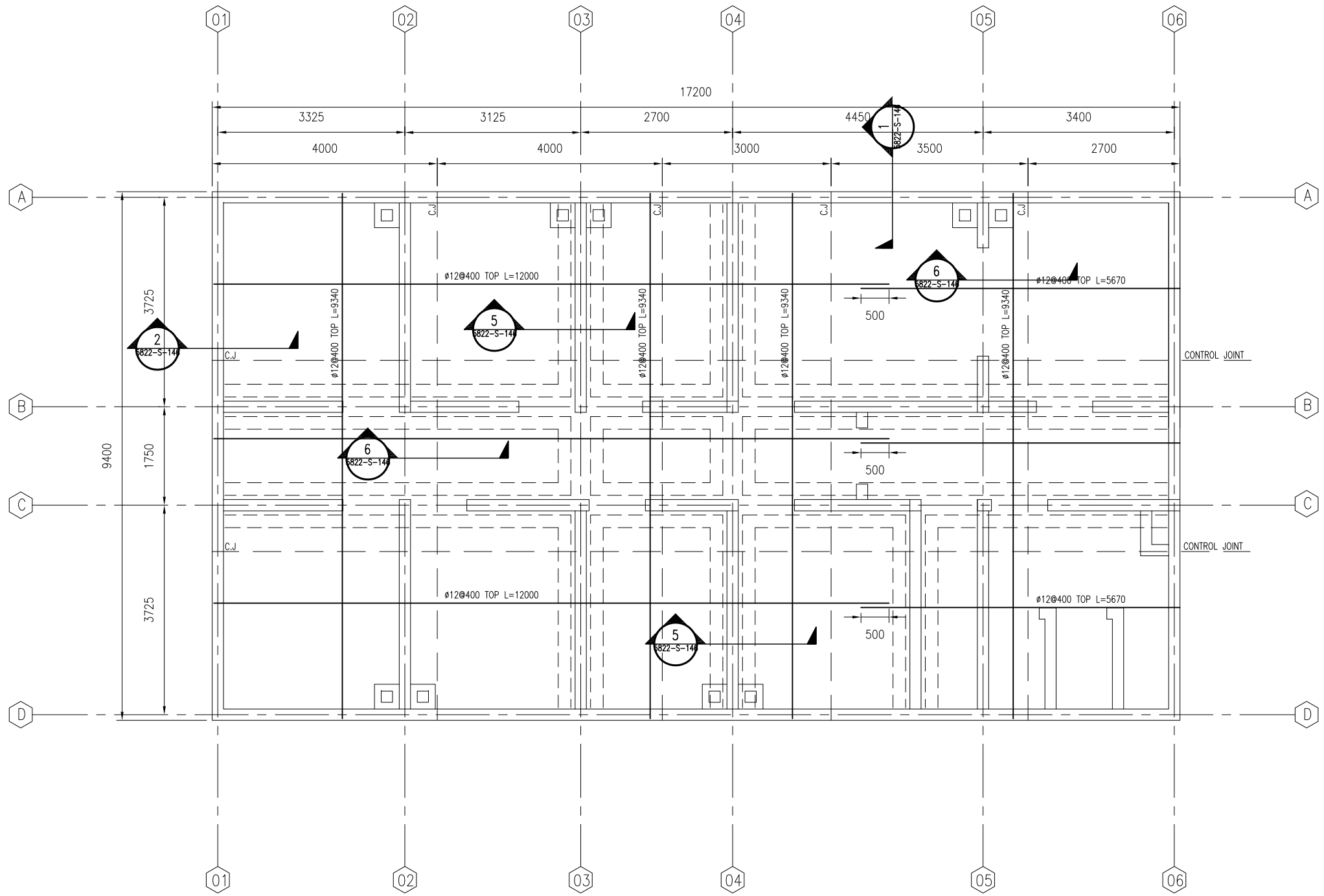
Symbol	Description	Date	Appr.
4	100% DESIGN RESUBMITTAL # 3	MAR-25-2011	
3	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
2	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS STR
1	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS STR
0	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS STR
A	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS STR
A	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS STR

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:
Contractor:
Designer :

CLINIC BLDG. # A
FOUNDATION PLAN

SHEET REFERENCE NUMBER:
5822-S-144
325 OF 529



01 SLAB ON GRADE REINFORCEMENT PLAN

5822-S-145 REF. SCALE: 1:80

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2-THE STEEL GRADE SHALL BE Fy=60 KSI(Fy=4220Kg/cm²)
3-FOR CAST-IN-PLACE STRUCTURAL CONCRETE,MINIMUM 28 DAYS, CYLINDER STRENGTH f'c=4000 PSI(f'c=280Kg/cm²).

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

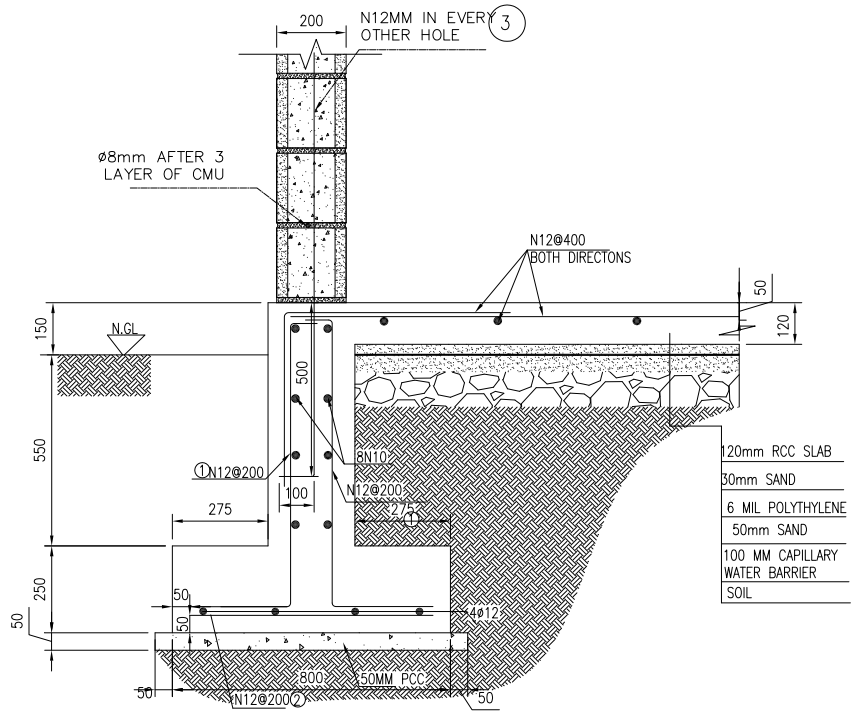
Symbol	Description	Date	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS STR
A	100% DESIGN SUBMITTAL	JULY 21,2007	DESIGNED BY PREVIOUS STR
A	99% DESIGN SUBMITTAL	JUNE 10,2007	DESIGNED BY PREVIOUS STR
A	65% DESIGN SUBMITTAL	APRIL 15,2007	DESIGNED BY PREVIOUS STR
A	35% DESIGN SUBMITTAL	JAN.28,2007	DESIGNED BY PREVIOUS STR

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN
Contractor:
Designer :

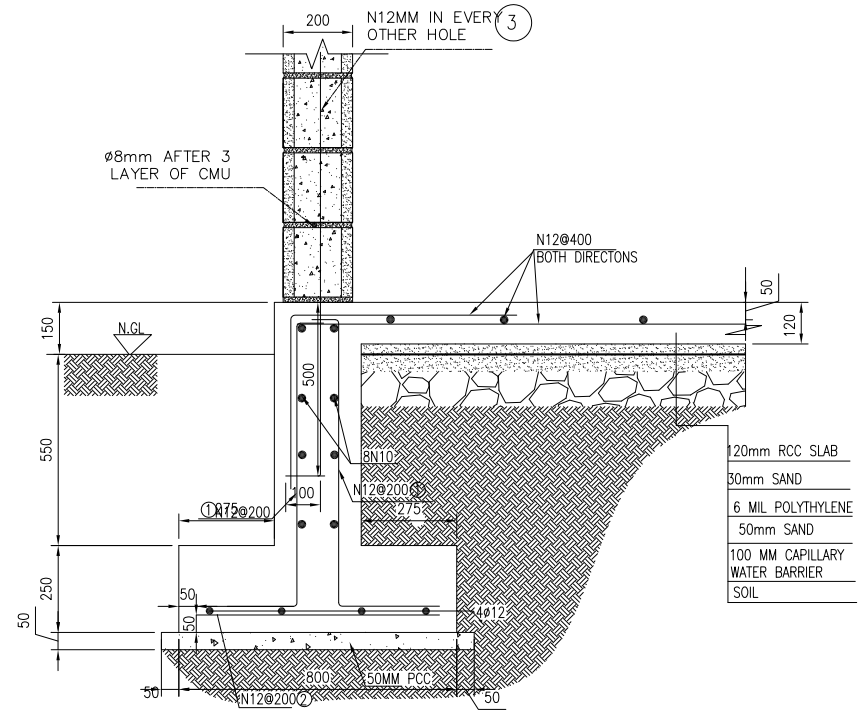
CLINIC BLDG. # A
SLAB ON GRADE REINFORCEMENT PLAN

SHEET REFERENCE NUMBER:
5822-S-145
326 OF 529



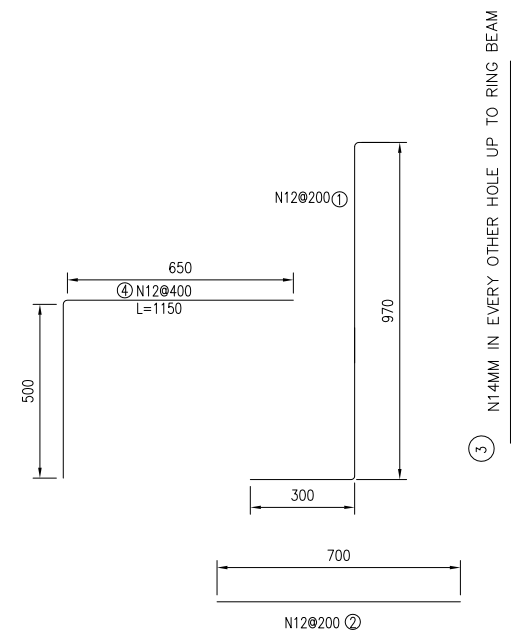
01 TYPICAL SECTION_1

5822-S-146 | REF. 5822-S-144&45 | SCALE: 1:20



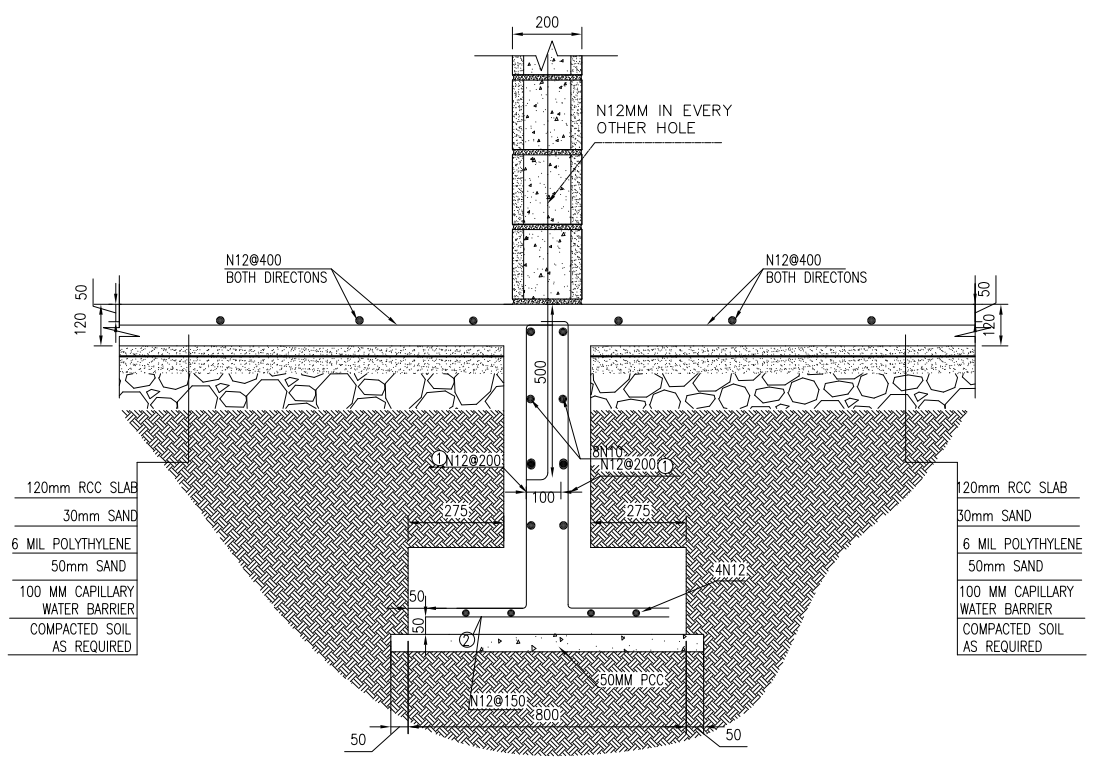
02 TYPICAL SECTION_2

5822-S-146 | REF. 5822-S-144&45 | SCALE: 1:20



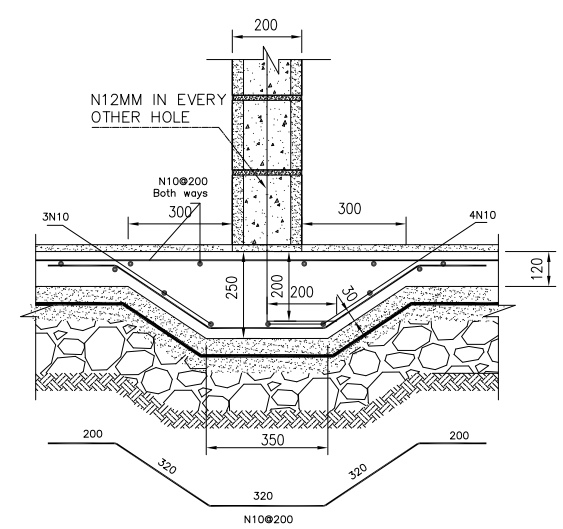
03 REINFORCEMENT DETAIL FOR SECTION 1&2

5822-S-146 | REF. 5822-S-146 | SCALE: 1:20



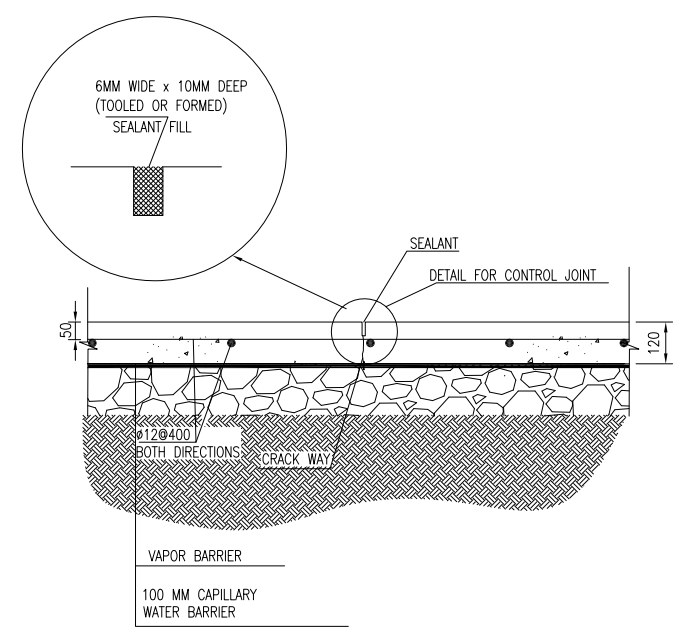
04 TYPICAL SECTION_4

5822-S-146 | REF. 5822-S-144 | SCALE: 1:20



05 TYPICAL SECTION FOR INTERNAL WALLS

5822-S-146 | REF. 5822-S-144&45 | SCALE: 1:20



06 SLAB ON GRADE CONTROL JOINT

5822-S-146 | REF. 5822-S-145 | SCALE: 1:20

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	Description	DATE	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011			
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011			
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E		
	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS A/E		
	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS A/E		
	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS A/E		
	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS A/E		

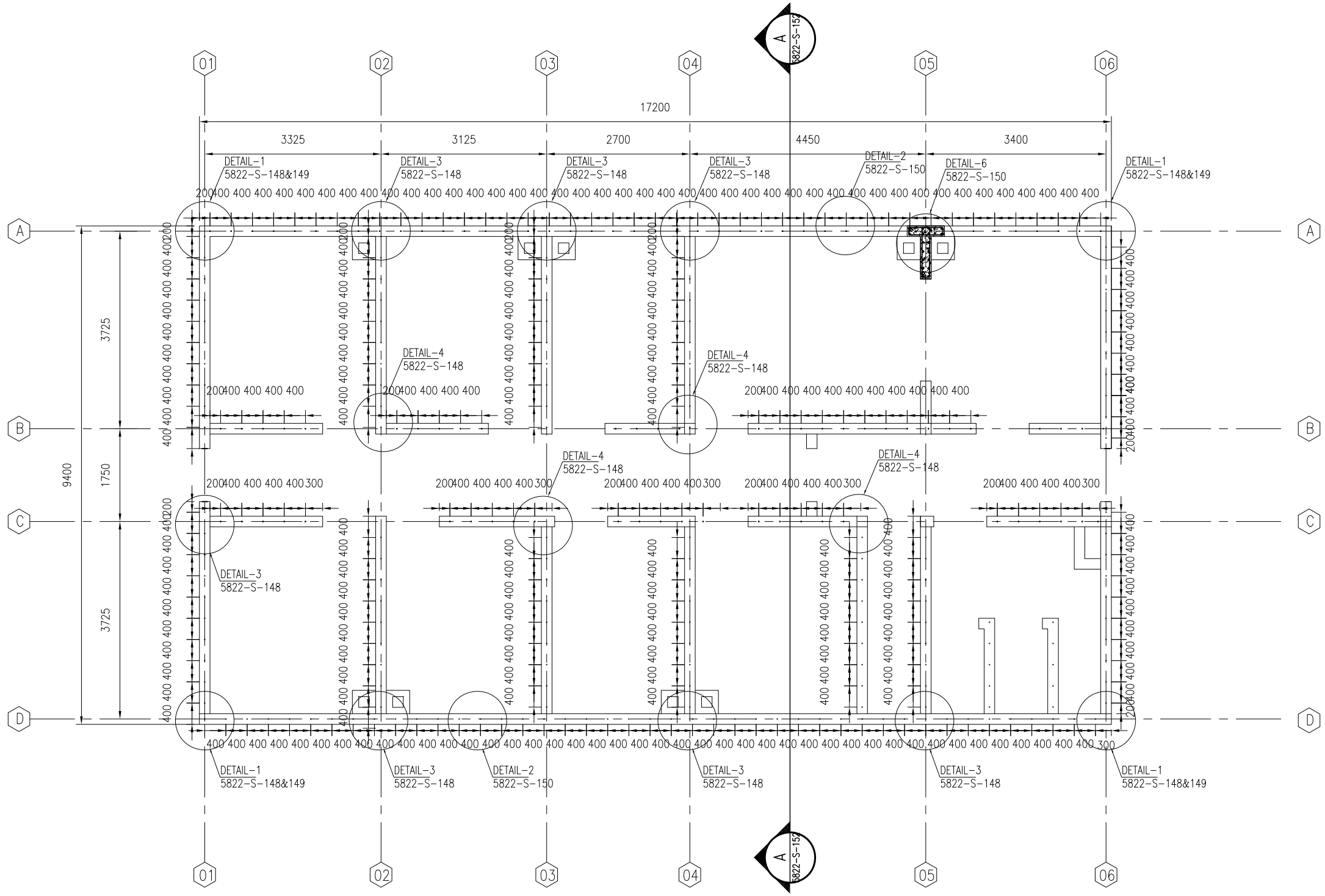
Designed BY: | Drawn BY: | Contract Date:
Reviewed by: | Draw Code: | FILE NAME:
Submitted by: | Plot Date: | Plot Scale:
Solicitation No: | Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

CLINIC BLDG. # A
SECTIONS

SHEET REFERENCE NUMBER:
5822-S-146
327 OF 529



Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

2-THE STEEL GRADE SHALL BE Fy=60 KSI(Fy=4220Kg/cm²)

3-FOR CAST-IN-PLACE STRUCTURAL CONCRETE,MINIMUM 28 DAYS, CYLINDER STRENGTH f'c=4000 PSI(f'c=280Kg/cm²).

1 STARTER BARS PLAN

5822-S-147 REF. SCALE: 1:80

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

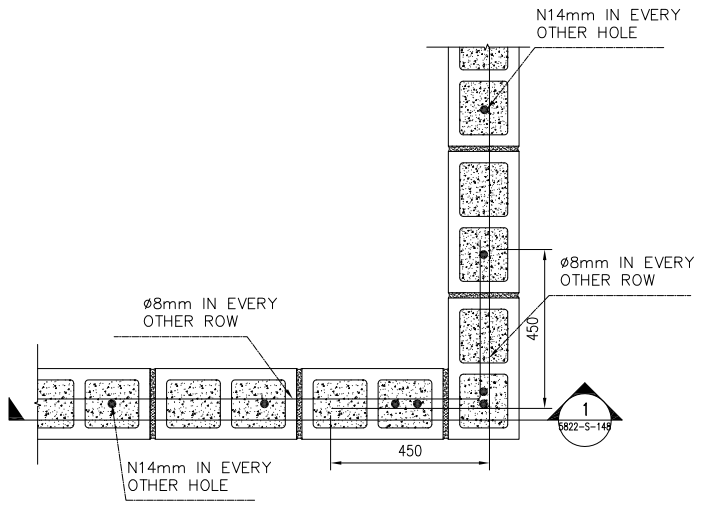
Symbol	Description	Date	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS ATR
	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS ATR
	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS ATR
	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS ATR
	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS ATR

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date: Plot Scale:
Solicitation No: Contract No:
Contractor:
Designer :

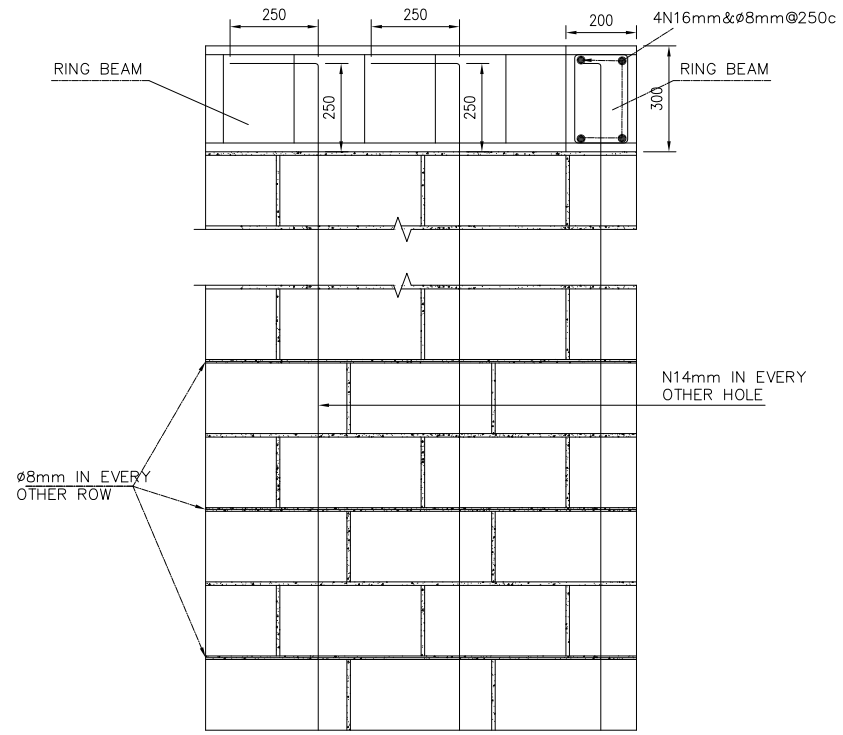
CLINIC BLDG. # A
STARTER BARS PLAN

SHEET REFERENCE NUMBER:
5822-S-147
328 OF 529



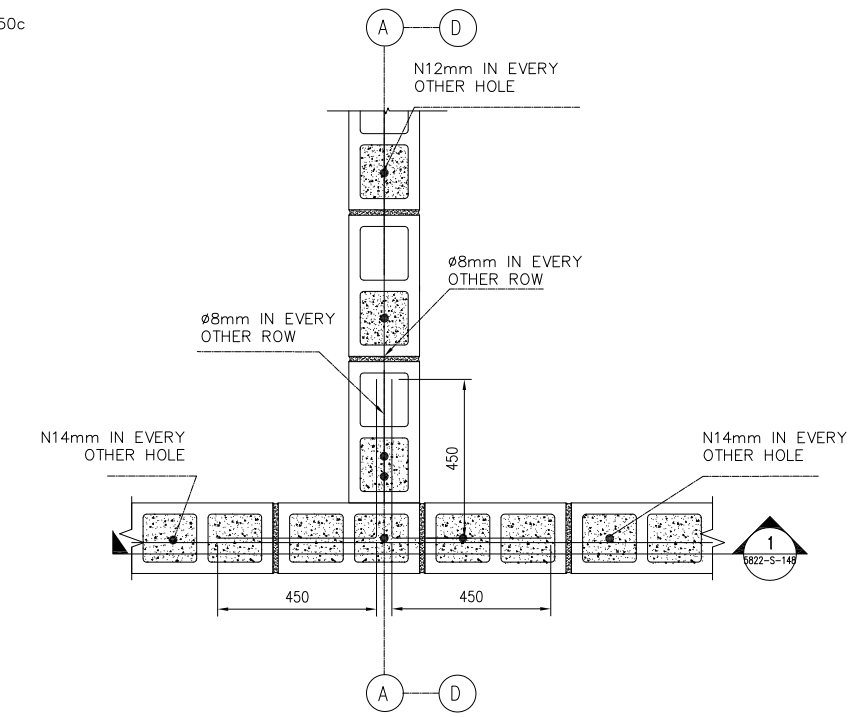
01 DETAIL OF EXTERIOR WALL IN CORNER

5822-S-148 | REF. 5822-S-147 | SCALE: 1:20



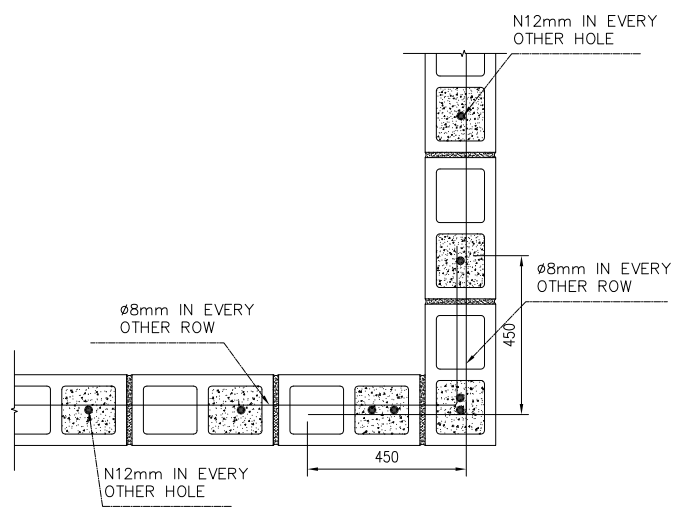
02 SECTION-1

5822-S-148 | REF. 5822-S-148 | SCALE: 1:20



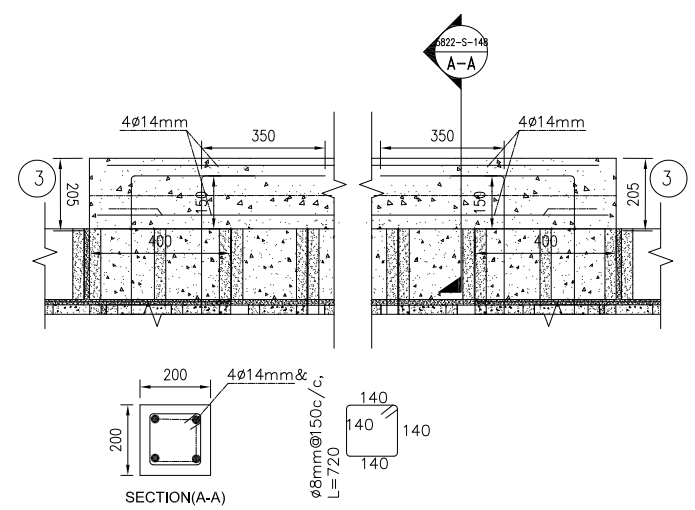
03 DETAIL OF EXTERIOR WALL IN MIDDLE

5822-S-148 | REF. 5822-S-147 | SCALE: 1:20



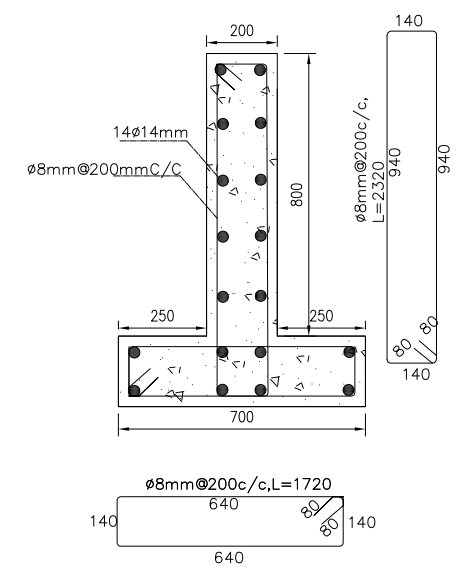
04 DETAIL OF INTERIOR WALL IN CORNER

5822-S-148 | REF. 5822-S-147 | SCALE: 1:20



05 DETAIL FOR ALL LENTAL

5822-S-148 | REF. | SCALE: 1:20



06 DETAIL-6

5822-S-148 | REF. | SCALE: 1:20

NOTES

1- USE ø14MM @ 400 FOR EXTERIOR CMU WALLS AND ø12 @400 FOR INTERIOR CMU WALLS,UNLESS OTHERWISE NOTED.
2- ø 8 MM EVERY OTHER ROWS FOR HORIZONTAL REINFORCEMENT
3- ALL CELLS OF EXTIRIOR CMU WALLS SHALL BE FULLY GROUTED:
4- USE FULL CONTACT LAP SPLICES FOR REINFORCING STEEL IN CMU WALLS 48 DIAMETER OF BAR UNLESS OTHERWISE NOTED :

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	DATE	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011		
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011		
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS STR	
A	100% DESIGN SUBMITTAL	JULY.21.2007	DESIGNED BY PREVIOUS STR	
A	99% DESIGN SUBMITTAL	JUNE.10.2007	DESIGNED BY PREVIOUS STR	
A	65% DESIGN SUBMITTAL	APRL15.2007	DESIGNED BY PREVIOUS STR	
A	35% DESIGN SUBMITTAL	JAN.28.2007	DESIGNED BY PREVIOUS STR	

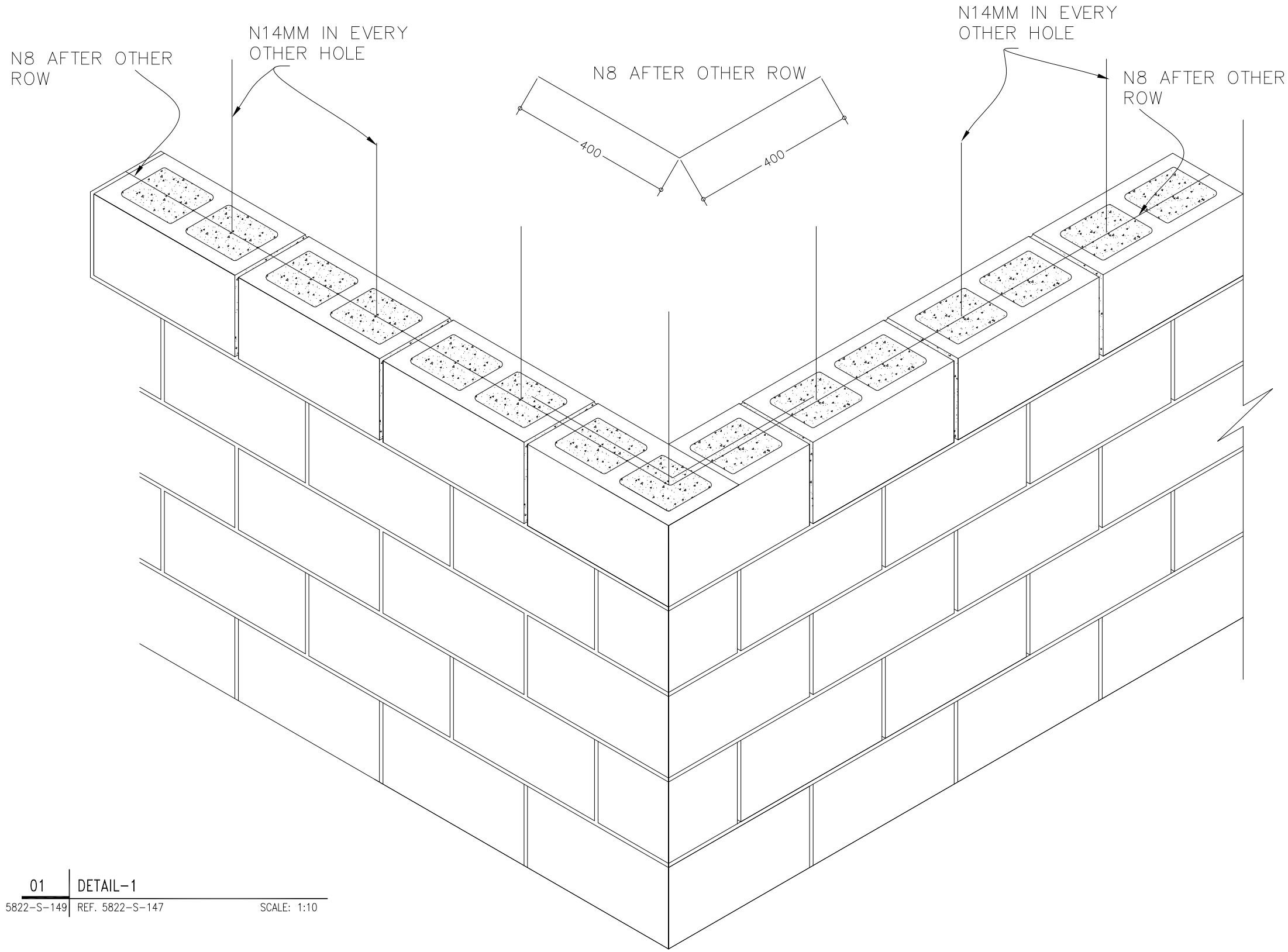
Designed BY: | Drawn BY: | Contract Date:
Reviewed by: | Draw Code: | FILE NAME:
Submitted by: | Plot Date: | Plot Scale:
Solicitation No: | Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

CLINIC BLDG. # A
SECTION & DETAIL

SHEET REFERENCE NUMBER:
5822-S-148
329 OF 529



01 DETAIL-1

5822-S-149 REF. 5822-S-147 SCALE: 1:10

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

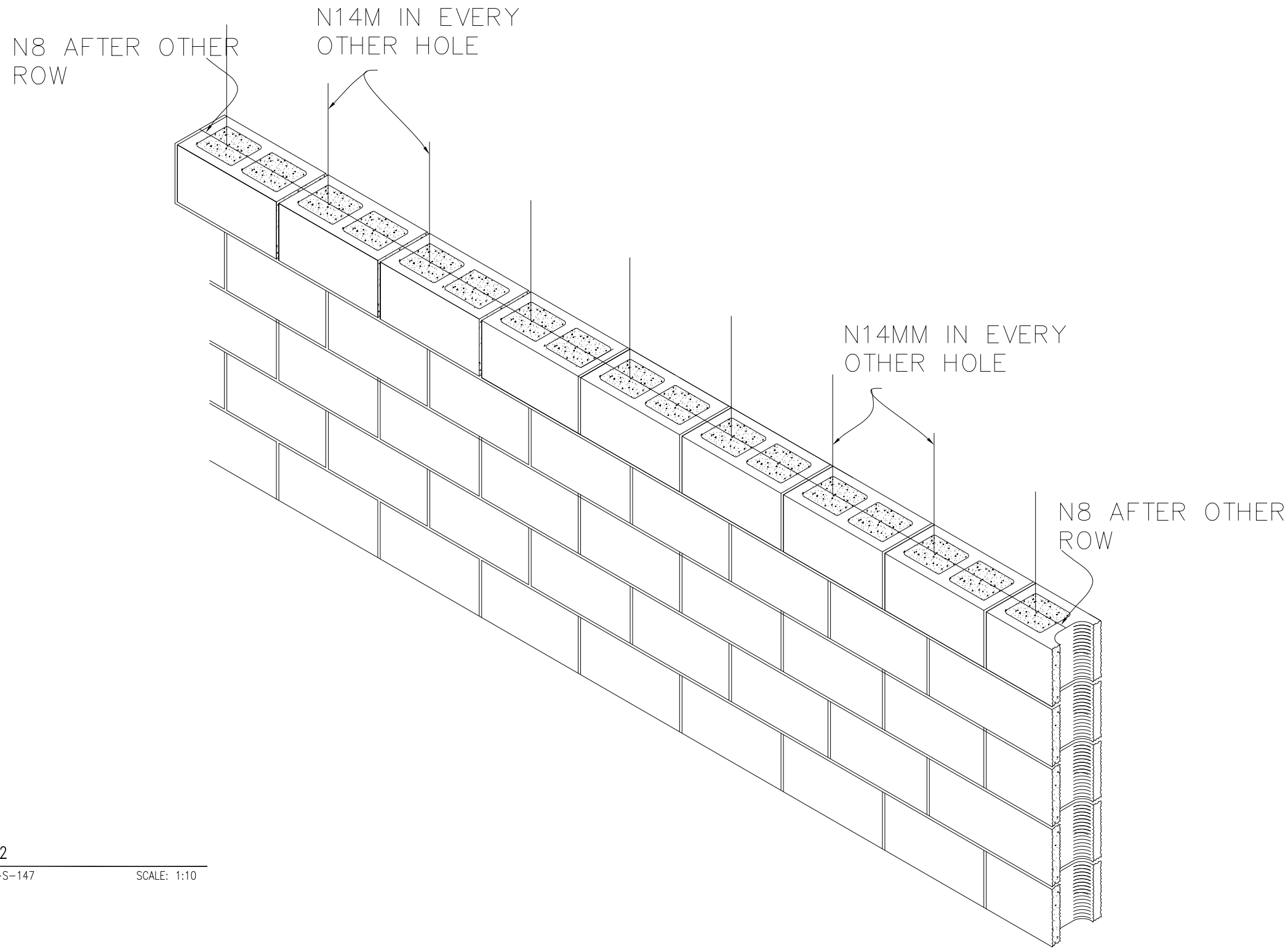
Symbol	Description	Date	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
2	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E
A	100% DESIGN SUBMITTAL	JULY 21,2007	DESIGNED BY PREVIOUS A/E
A	99% DESIGN SUBMITTAL	JUNE 10,2007	DESIGNED BY PREVIOUS A/E
A	65% DESIGN SUBMITTAL	APRIL 15,2007	DESIGNED BY PREVIOUS A/E
A	35% DESIGN SUBMITTAL	JAN.28,2007	DESIGNED BY PREVIOUS A/E

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:
Contractor:
Designer :

CLINIC BLDG. # A
DETAIL-1

SHEET REFERENCE NUMBER:
5822-S-149
330 OF 529



01 DETAIL-2

5822-S-150 REF. 5822-S-147 SCALE: 1:10

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	DESIGNED BY	Description	DATE	Appr.
4	100% DESIGN RESUBMITTAL # 3	JUN-25-2011				
3	100% DESIGN RESUBMITTAL # 2	MAR-20-2011				
2	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E/R			
1	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS A/E/R			
4	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS A/E/R			
3	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS A/E/R			
2	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS A/E/R			

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN
Contractor:
Designer :

CLINIC BLDG. # A
DETAIL-2

SHEET REFERENCE NUMBER:
5822-S-150
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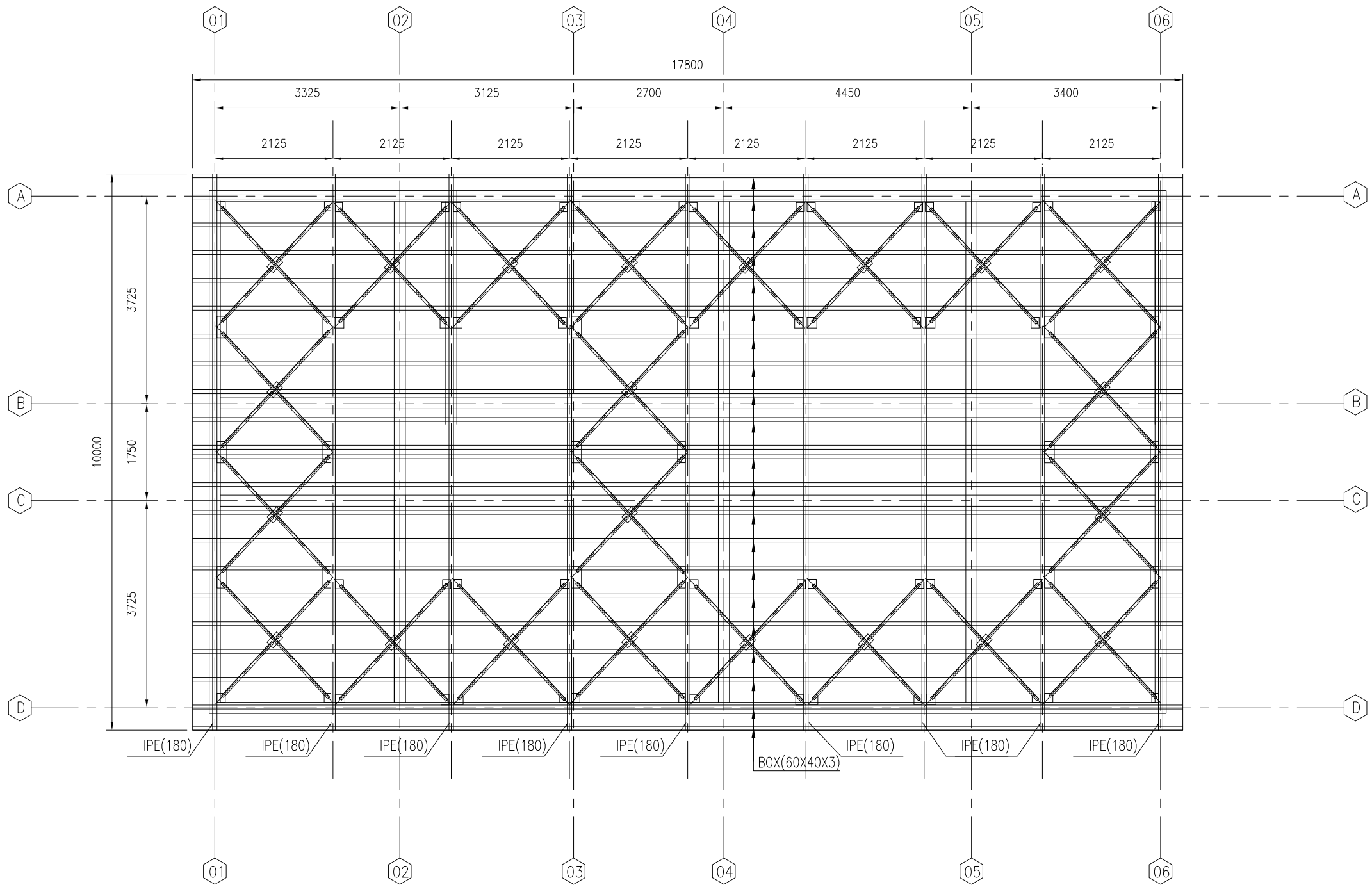


01 ROOF PLAN

5822-S-151 REF. SCALE: 1:80

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2-THE STEEL GRADE SHALL BE Fy=60 KSI(Fy=4220Kg/cm²)
3-FOR CAST-IN-PLACE STRUCTURAL CONCRETE,MINIMUM 28 DAYS, CYLINDER STRENGTH f'c=4000 PSI(f'c=280Kg/cm²).

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

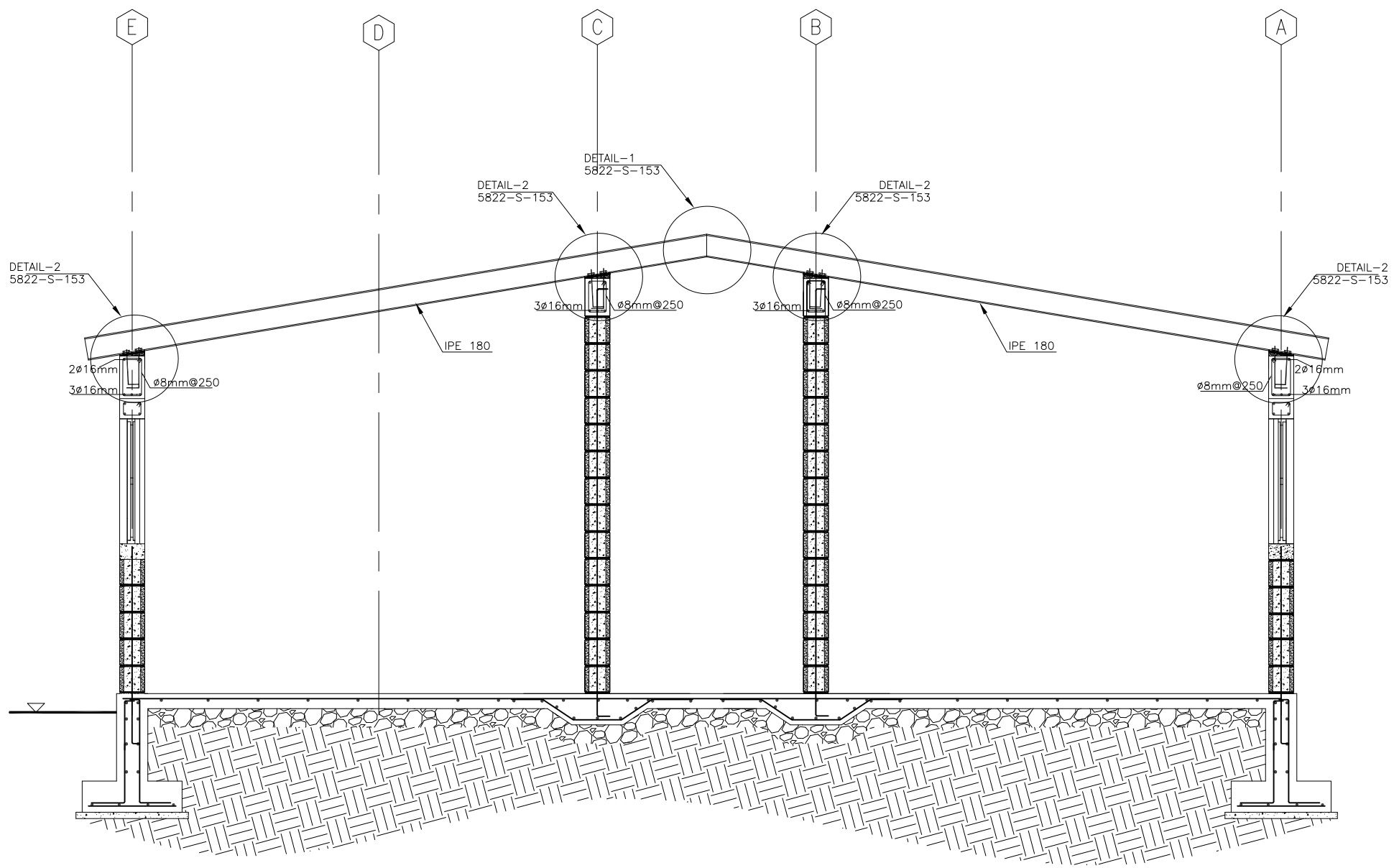
Symbol	Description	Date	Description	DATE	Appr.
3	100% DESIGN RESUBMITTAL # 3	JUN-25-2011			
2	100% DESIGN RESUBMITTAL # 2	MAR-25-2011			
1	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS STR		
A	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS STR		
B	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS STR		
C	65% DESIGN SUBMITTAL	APRIL-15-2007	DESIGNED BY PREVIOUS STR		
D	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS STR		

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:
Contractor:
Designer :

CLINIC BLDG. # A
ROOF PLAN

SHEET REFERENCE NUMBER:
5822-S-151
332 OF 529



01 SECTION A-A

5822-S-152 REF. 5822-S-147 SCALE: 1:40

Notes

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2- FOUNDATION DESIGN IS ASSUMED ON BEARING
CAPACITY OF 14.22 PSI (1Kg/cm²).
3-FOUNDATION SHALL BE FOUNDED ON 95% MINMUM DENSITY OF COMPACTED MATERIAL.
4-THE STEEL GRADE SHALL BE Fy=60 KSI(Fy=4220Kg/cm²)
5-FOR CAST-IN-PLACE STRUCTURAL CONCRETE,MINIMUM 28 DAYS, CYLINDER STRENGTH f'c=4000 PSI(f'c=280Kg/cm²).

US ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT

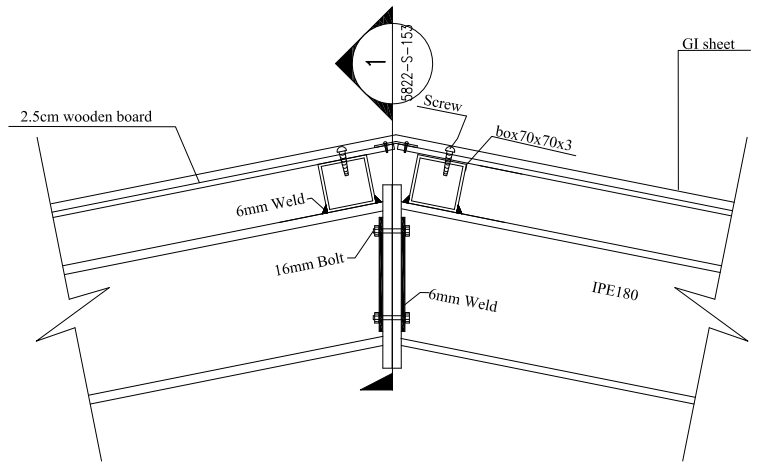
Symbol	Description	Date	Appr.
4	100% DESIGN RESUBMITTAL # 3	JUN-25-2011	
3	100% DESIGN RESUBMITTAL # 2	MAR-20-2011	
2	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS KTR
1	100% DESIGN SUBMITTAL	JULY-21-2007	DESIGNED BY PREVIOUS KTR
0	99% DESIGN SUBMITTAL	JUNE-10-2007	DESIGNED BY PREVIOUS KTR
0	65% DESIGN SUBMITTAL	APR-15-2007	DESIGNED BY PREVIOUS KTR
0	35% DESIGN SUBMITTAL	JAN-28-2007	DESIGNED BY PREVIOUS KTR

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Designed BY: Drawn BY: Contract Date:
Reviewed by: Draw Code: FILE NAME:
Submitted by: Plot Date:
Plot Scale:
Solicitation No: Contract No:
Contractor:
Designer :

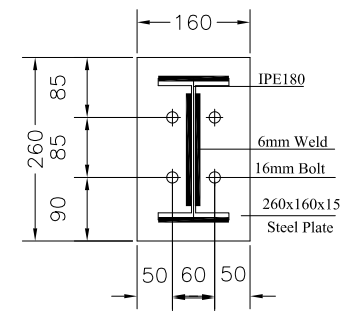
CLINIC BLDG. # A
SECTION A-A

SHEET REFERENCE NUMBER:
5822-S-152
333 OF 529



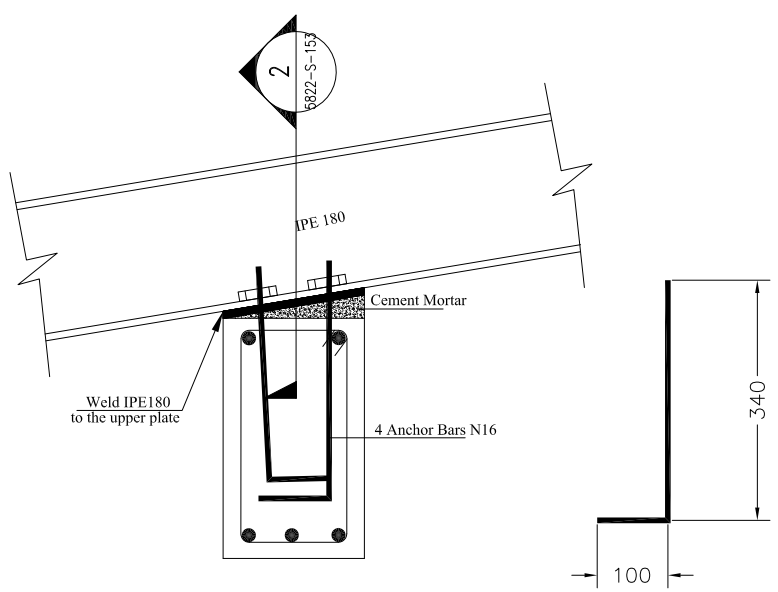
01 DETAIL-1

5822-S-153 | REF. 5822-S-152 | SCALE: 1:10



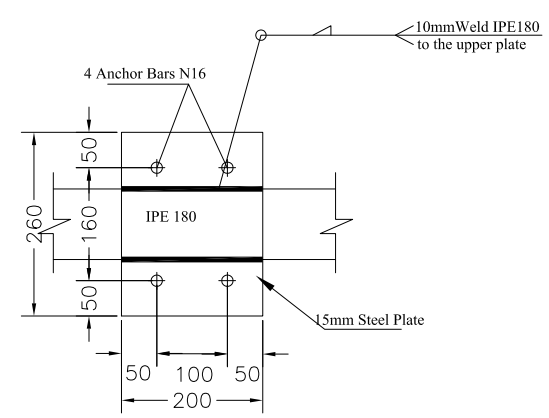
02 SECTION-1

5822-S-153 | REF. 5822-S-153 | SCALE: 1:10



03 DETAIL-2

5822-S-153 | REF. 5822-S-152 | SCALE: 1:10



04 SECTION-2

5822-S-153 | REF. 5822-S-153 | SCALE: 1:10

US ARMY CORPS
OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT

Symbol	Description	Date	Description	DATE	Appr.
A	100% DESIGN RESUBMITTAL # 3	JUN-26-2011			
A	100% DESIGN RESUBMITTAL # 2	MAR-20-2011			
A	100% DESIGN RESUBMITTAL # 1	DEC-15-2007	DESIGNED BY PREVIOUS A/E		
A	100% DESIGN SUBMITTAL	JULY.21.2007	DESIGNED BY PREVIOUS A/E		
A	99% DESIGN SUBMITTAL	JUNE.10.2007	DESIGNED BY PREVIOUS A/E		
A	65% DESIGN SUBMITTAL	APRIL15.2007	DESIGNED BY PREVIOUS A/E		
A	35% DESIGN SUBMITTAL	JAN.08.2007	DESIGNED BY PREVIOUS A/E		

Designed BY: | Drawn BY: | Contract Date:
Reviewed by: | Draw Code: | FILE NAME:
Submitted by: | Plot Date: | Plot Scale:
Solicitation No: | Contract No:

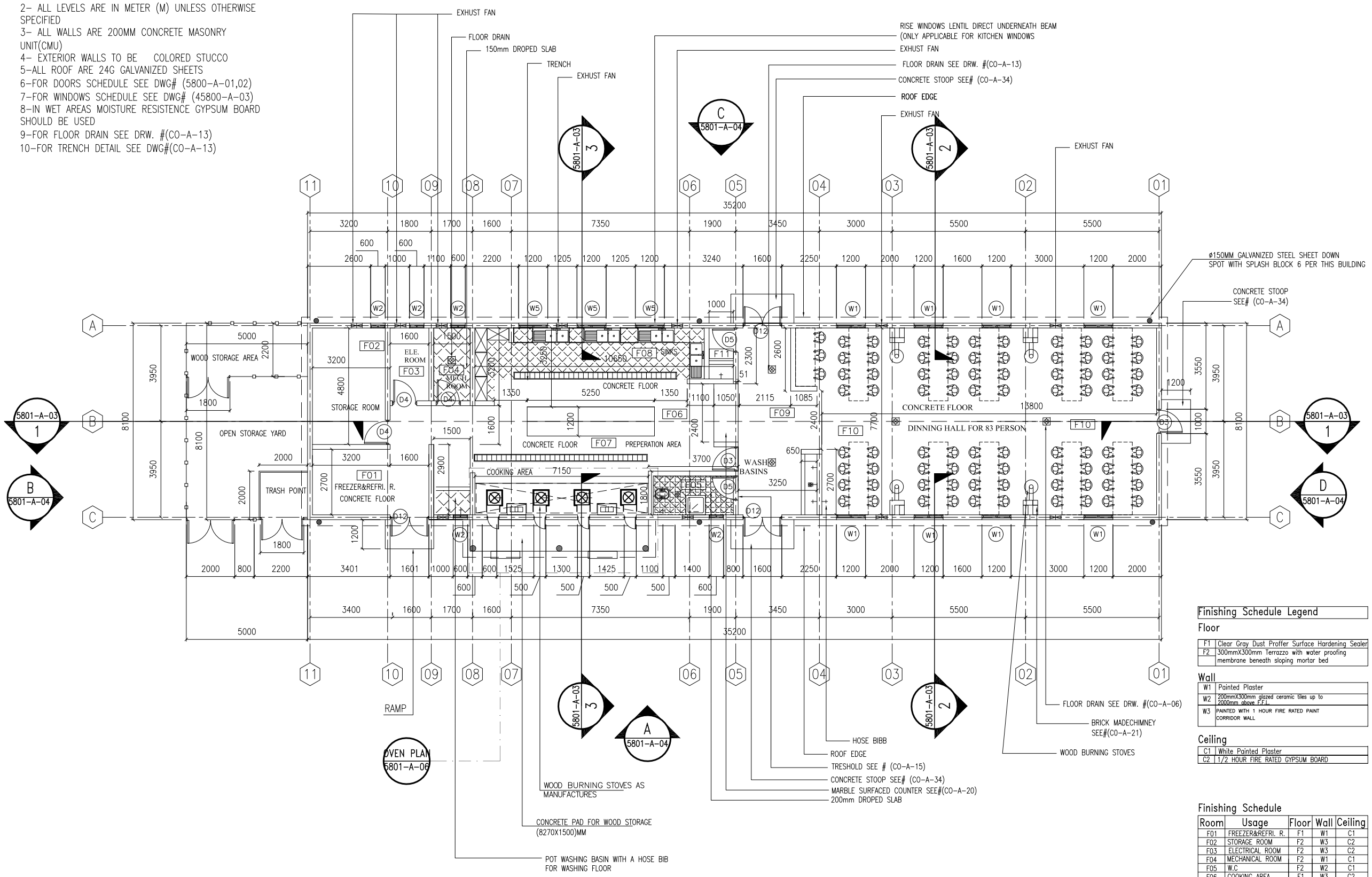
DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS DISTRICT
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

CLINIC BLDG. # A
SECTIONS&DETAIL

SHEET
REFERENCE
NUMBER:
5822-S-153
334 OF 529

NOTE
1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2- ALL LEVELS ARE IN METER (M) UNLESS OTHERWISE SPECIFIED
3- ALL WALLS ARE 200MM CONCRETE MASONRY UNIT(CMU)
4- EXTERIOR WALLS TO BE COLORED STUCCO
5-ALL ROOF ARE 24G GALVANIZED SHEETS
6-FOR DOORS SCHEDULE SEE DWG# (5800-A-01,02)
7-FOR WINDOWS SCHEDULE SEE DWG# (45800-A-03)
8-IN WET AREAS MOISTURE RESISTENCE GYPSUM BOARD SHOULD BE USED
9-FOR FLOOR DRAIN SEE DRW. #(CO-A-13)
10-FOR TRENCH DETAIL SEE DWG#(CO-A-13)



01 FLOOR PLAN

5801-A-01 | REF. 5801-A-01 | SCALE: 1:75

Finishing Schedule Legend

Floor

F1	Clear Gray Dust Proffer Surface Hardening Sealer
F2	300mmX300mm Terrazzo with water proofing membrane beneath sloping mortar bed

Wall

W1	Painted Plaster
W2	200mmX300mm glazed ceramic tiles up to 2000mm above F.F.L.
W3	PAINTED WITH 1 HOUR FIRE RATED PAINT CORRIDOR WALL

Ceiling

C1	White Painted Plaster
C2	1/2 HOUR FIRE RATED GYPSUM BOARD

Finishing Schedule

Room	Usage	Floor	Wall	Ceiling
F01	FREEZER&REFRI. R.	F1	W1	C1
F02	STORAGE ROOM	F2	W3	C2
F03	ELECTRICAL ROOM	F2	W3	C2
F04	MECHANICAL ROOM	F2	W1	C1
F05	W.C	F2	W2	C1
F06	COOKING AREA	F1	W3	C2
F07	PREPARATION AREA	F2	W2	C1
F08	SINKS	F2	W2	C1
F09	CORRIDOR	F2	W3	C2
F10	DINING HALL	F1	W1	C1
F11	MOP SINK	F2	W2	C1

NOTE:
S - SENIOR RANK
H - HIGH RANK
M - MIDDLE RANK
L - LOW RANK
P - PERSONS USEAGE

1:75

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	Description	DATE	Appr.

Designed BY: | Drawn BY: | Contract Date:
Reviewed by: | Draw Code: | FILE NAME:
Submitted by: | Plot Date:
Plot Scale:
Solicitation No: | Contract No:
Designer : :

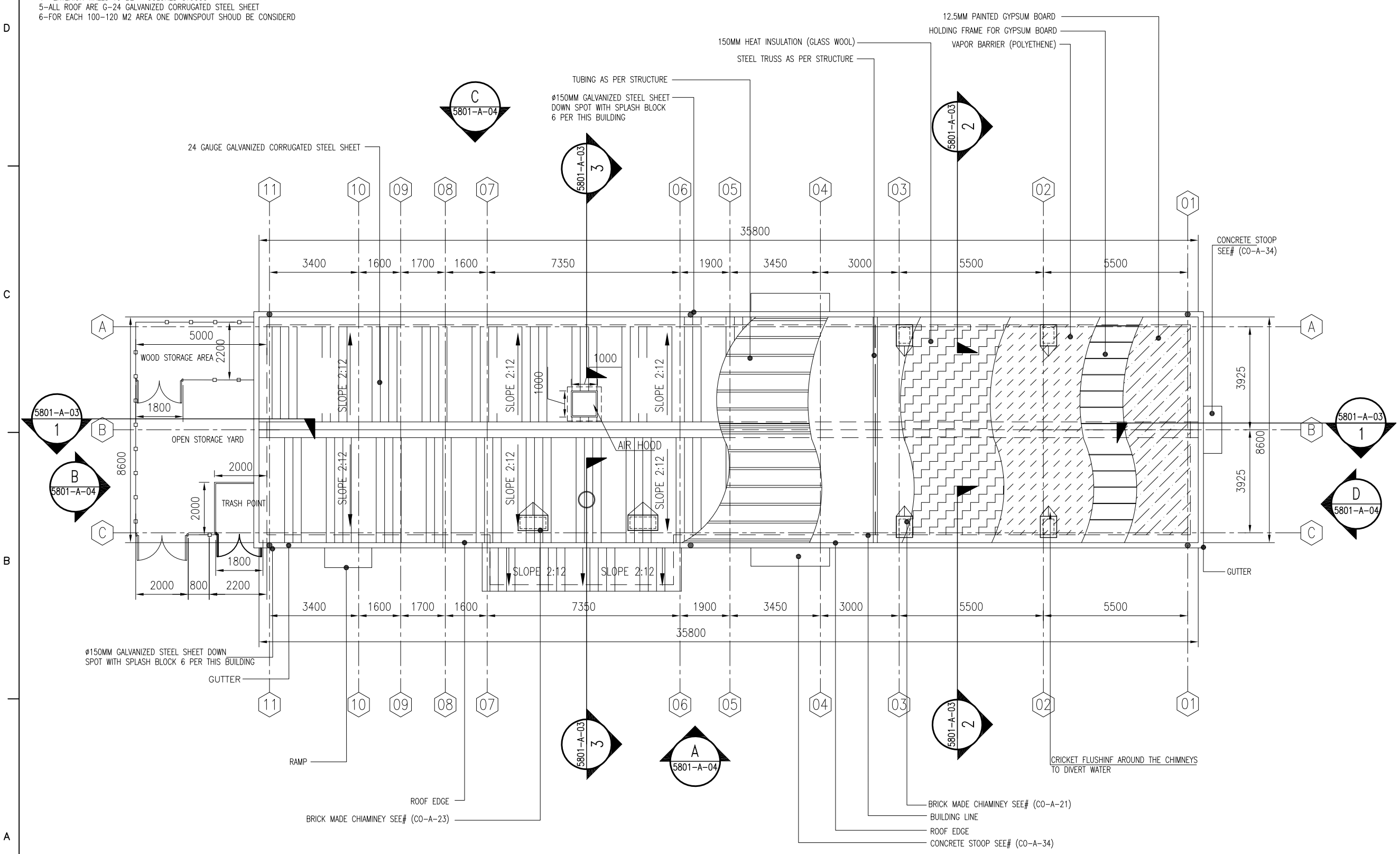
DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS SOUTH
KANDAHAR, AFGHANISTAN
Contractor:

DINING FACILITY BUILDING#(5801)
FIRST FLOOR PLAN

SHEET REFERENCE NUMBER:
5801-A-01
56 OF 529

NOTE

1- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2- ALL LEVELS ARE IN METER (M) UNLESS OTHERWISE SPECIFIED
3- ALL WALLS ARE 200MM CONCRETE MASONRY UNIT(CMU)
4- EXTERIOR WALLS TO BE COLORED STUCCO
5-ALL ROOF ARE G-24 GALVANIZED CORRUGATED STEEL SHEET
6-FOR EACH 100-120 M2 AREA ONE DOWNSPOUT SHOUD BE CONSIDERD



01 ROOF PLAN

5801-A-02 | REF. 5801-A-02 | SCALE: 1:75

1:75

US ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT

Symbol	Description	Date	Description	DATE	Appr.

Contract Date:
FILE NAME:
Drawn By:
Draw Code:
Plot Date:
Plot Scale:
Contract No:
Designed By:
Reviewed by:
Submitted by:
Solicitation No:

DEPARTMENT OF THE ARMY
U.S ARMY CORPS OF ENGIEERS
AFGHANISTAN ENGINEERS SOUTH
KANDAHAR, AFGHANISTAN

Contractor:
Designer :

DINING FACILITY BUILDING#(5801)
FLOOR PLAN

SHEET REFERENCE NUMBER:
5801-A-02
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