

PANEL LOCATION: FUEL CANOPY - BUILDING 'O'

PANELBOARD MDP SURFACE MOUNTED 22,000 ASYM. A.I.C. MIN. NEMA 12																	
AMP. MAIN LUGS (OR) 600 AMP. MAIN BREAKER W/ 600 AMP. TRIP																	
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 600 AMP. BUS																	
Ckt. No.	TRIP AMPS	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-V.A.			LOAD-V.A.			CONDUIT MM	GND MM2	WIRE MM2	TRIP AMPS	Ckt. No.	
						A0	B0	C0	A0	B0	C0						
1															2		
3					Panel 'O1'	13.1	13.1		46.8	46.8					4		
5								13.1		46.8					6		
7						47.0									8		
9					Panel 'DPI'	47.0	47.0							3	100	10	
11								47.0							12		
13								0.9							14		
15	100	3			Spare			0.9							16		
17									0.9						18		
19															20		
21	100	3			Spare									3	100	22	
23															24		
25	20	1			Space									1	20	26	
27	20	1			Space										28		
29	20	1			Space									3	100	30	
31	20	1			Space										32		
33	20	1			Space									1	20	34	
35	20	1			Space									1	20	36	
37	20	1			Space									1	20	38	
39	20	1			Space									1	20	40	
41	20	1			Space									1	20	42	
						60.1	60.1	60.1	47.7	47.7	47.7						
TOTAL CONN. LOAD PER PHASE (KVA):						A0	B0	C0	TOTAL CONN. LOAD PER PHASE (KVA):				A0	B0	C0		
TOTAL CONN. LOAD 323.4 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 226.4												TOTAL CONN. LOAD 141.1 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 98.8 SUPPLIED FROM PANEL 'MDP'					

* MAIN BREAKER SHALL BE EARTH GROUND TYPE

PANEL LOCATION: LATRINE - BUILDING 'D'

PANELBOARD DPI SURFACE MOUNTED 22,000 ASYM. A.I.C. MIN. NEMA 12																	
AMP. MAIN LUGS (OR) 300 AMP. MAIN BREAKER W/ 300 AMP. TRIP																	
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 400 AMP. BUS																	
Ckt. No.	TRIP AMPS	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-V.A.			LOAD-V.A.			CONDUIT MM	GND MM2	WIRE MM2	TRIP AMPS	Ckt. No.	
						A0	B0	C0	A0	B0	C0						
1															2		
3					Panel 'H1'	1.7	1.7		6.4	6.4					4		
5								22.0		16.5	16.5				6		
7					Panel 'B1'	22.0	22.0								8		
9					Spare									1	20	10	
11								6.8							12		
13					Panel 'J1'	6.8	6.8							3	100	14	
15					Spare										16		
17	20	1			Space					2.0	2.0			2	20	18	
19	20	1			Space										20		
21	20	1			Space					1.5				1	20	22	
23	20	1			Space									1	20	24	
25	20	1			Space									1	20	26	
27	20	1			Space									1	20	28	
29	20	1			Space									1	20	30	
31	20	1			Space									1	20	32	
33	20	1			Space									1	20	34	
35	20	1			Space									1	20	36	
37	20	1			Space									1	20	38	
39	20	1			Space									1	20	40	
41	20	1			Space									1	20	42	
						30.5	30.5	28.8	24.9	7.9	18.5						
TOTAL CONN. LOAD PER PHASE (KVA):						A0	B0	C0	TOTAL CONN. LOAD PER PHASE (KVA):				A0	B0	C0		
TOTAL CONN. LOAD 141.1 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 98.8												TOTAL CONN. LOAD 55.4 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 38.4 SUPPLIED FROM PANEL 'MDP'					

* MAIN BREAKER SHALL BE EARTH GROUND TYPE

PANEL LOCATION: ADMINISTRATION - BUILDING 'A1'

PANELBOARD DPII SURFACE MOUNTED 22,000 ASYM. A.I.C. MIN. NEMA 12																	
AMP. MAIN LUGS (OR) 300 AMP. MAIN BREAKER W/ 300 AMP. TRIP																	
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 400 AMP. BUS																	
Ckt. No.	TRIP AMPS	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-V.A.			LOAD-V.A.			CONDUIT MM	GND MM2	WIRE MM2	TRIP AMPS	Ckt. No.	
						A0	B0	C0	A0	B0	C0						
1															2		
3					Panel 'E1'	5.8	5.8		21.0	21.0					4		
5															6		
7	50	2			Spare									2	50	8	
9								25.3	25.3						10		
11					Panel 'A1'			25.3						2	50	12	
13															14		
15								5.5							16		
17					Panel 'M1'			5.5							18		
19															20		
21	100	3			Spare									2	20	22	
23					Space									1	20	24	
25	20	1			Space									1	20	26	
27	20	1			Space									1	20	28	
29	20	1			Space									1	20	30	
31	20	1			Space									1	20	32	
33	20	1			Space									1	20	34	
35	20	1			Space									1	20	36	
37	20	1			Space									1	20	38	
39	20	1			Space									1	20	40	
41	20	1			Space									1	20	42	
						31.1	36.6	30.8	21.0	21.0	-						
TOTAL CONN. LOAD PER PHASE (KVA):						A0	B0	C0	TOTAL CONN. LOAD PER PHASE (KVA):				A0	B0	C0		
TOTAL CONN. LOAD 140.5 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 98.4												TOTAL CONN. LOAD 76.0 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 53.2 SUPPLIED FROM PANEL 'DPII'					

* MAIN BREAKER SHALL BE EARTH GROUND TYPE

PANEL LOCATION: ADMINISTRATION - BUILDING 'A1'

PANELBOARD A1 SURFACE MOUNTED 22,000 ASYM. A.I.C. MIN. NEMA 1																	
AMP. MAIN LUGS (OR) 150 AMP. MAIN BREAKER W/ 150 AMP. TRIP																	
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 225 AMP. BUS																	
Ckt. No.	TRIP AMPS	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-V.A.			LOAD-V.A.			CONDUIT MM	GND MM2	WIRE MM2	TRIP AMPS	Ckt. No.	
						A0	B0	C0	A0	B0	C0						
1	20	1	4.0	4.0	20	Lighting - 102-108	1.3		1.0			20	4.0	4.0	1	20	2
3	20	1	4.0	4.0	20	Lighting - 113-116		1.0		1.1		20	4.0	4.0	1	20	4
5	20	1	4.0	4.0	20	Lighting - Corridor			1.0		1.0	20	4.0	4.0	1	20	6
7	20	1	4.0	4.0	20	Receptacles - Corridor, Ext.	1.8		1.0			20	4.0	4.0	1	20	8
9	20	1	4.0	4.0	20	Receptacles - 118		1.2		0.8		20	4.0	4.0	1	20	10
11	20	1	4.0	4.0	20	Receptacles - 118, 119			0.8		1.0	20	4.0	4.0	1	20	12
13	20	1	4.0	4.0	20	Receptacles - 117	1.2		1.0			20	4.0	4.0	1	20	14
15	20	1	4.0	4.0	20	Receptacles - 119		0.6		1.2		20	4.0	4.0	1	20	16
17	20	1	4.0	4.0	20	Speaker Amplifier			0.3		0.5	20	4.0	4.0	1	20	18
19	20	1	4.0	4.0	20	Receptacles - 115, 116	1.0		2.5			20	4.0	4.0	1	20	20
21	20	1	4.0	4.0	20	Receptacles - 113, 114		1.0		6.5		20	6.0	10.0	1	40	22
23	20	1	6.0	6.0	20	Flag Pole Lighting		1.2		0.1		20	4.0	4.0	1	20	24
25	20	1			Spare				0.4			20	4.0	4.0	1	20	26
27	20	1	4.0	4.0	20	Exhaust Fan - 112		0.1		1.0		20	4.0	4.0	1	20	28
29	20	1	4.0	4.0	20	Ceiling Fans			0.2		1.5	20				30	
31	20	1	6.0	6.0	20	Site Lighting	2.0					20			2	20	32
33	20	1	6.0	6.0	20	Site Lighting		1.6		1.5		20				34	
35	20	1	6.0	6.0	20	Site Lighting			1.6		1.5	20			2	20	36
37							8.0			1.5		20				38	
39	50	3	16.0	6.0	20	Water Heater		8.0		1.5		20			2	20	40
41								8.0		1.5		20				42	
43	20	1				Spare				1.5		20			2	20	44
45	20	1				Spare					1.5	20				46	
47	20	1				Spare						1.5	20		2	20	48
49	20	1				Spare									1	20	50
51	20	1				Spare									1	20	52
53	20	1				Spare									1	20	54
55	20	1				Spare									1	20	56
57	20	1				Spare									1	20	58
59	20	1				Spare									1	20	60
						15.3	13.5	13.1	10.4	15.1	8.6						
TOTAL CONN. LOAD PER PHASE (KVA):						A0	B0	C0	TOTAL CONN. LOAD PER PHASE (KVA):				A0	B0	C0		
TOTAL CONN. LOAD 76.0 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 53.2												TOTAL CONN. LOAD 25.7 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 28.6 SUPPLIED FROM PANEL 'DPII'					

* MAIN BREAKER SHALL BE EARTH GROUND TYPE



SYMBOL	DESCRIPTION	DATE

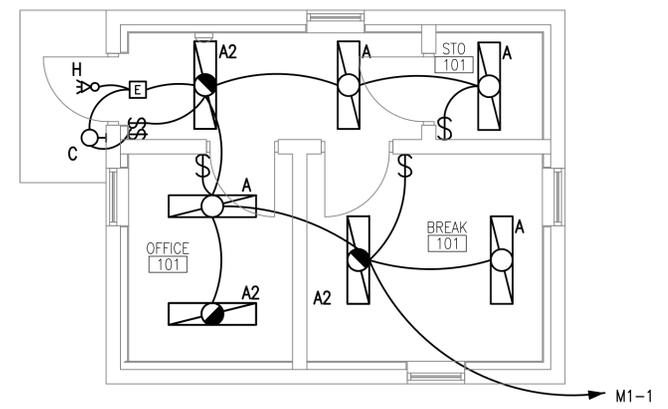
GENERAL NOTE:

1. REFER TO DRAWING #S-E0 FOR ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE ON UNSWITCHED CIRCUITS.
3. REFER TO DRAWING #S-E1 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #R-E1 FOR POWER RISER OF PANELS.
5. REFER TO R-E SERIES DRAWINGS FOR PANEL SCHEDULES.
6. ALL MECHANICAL EQUIPMENT & INSTALLATIONS AS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

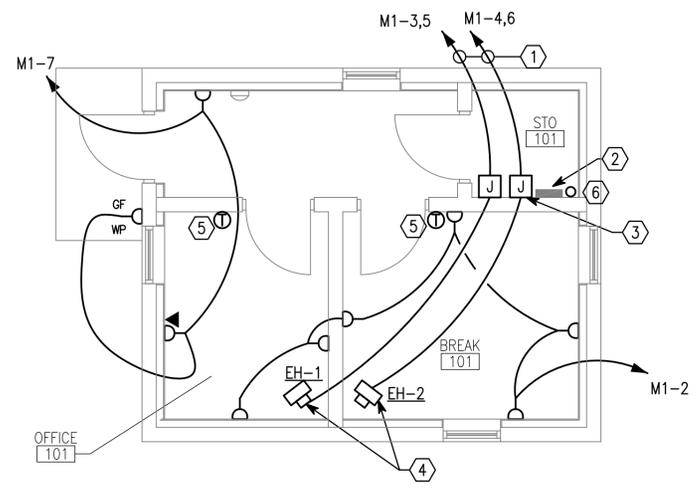
NUMBERED NOTE:

- 1 3 4.0mm² + 1 4.0mm² GND. IN 20mm C.
- 2 PANEL 'M1'.
- 3 ELECTRICAL CONNECTION TO ELECTRIC UNIT HEATER (TYPICAL).
- 4 ELECTRIC UNIT HEATER SUSPENDED FROM STRUCTURE ABOVE. HEATER SHALL BE SUPPLIED AND INSTALLED BY EC.
- 5 THERMOSTAT ON INSULATED BACKING.
- 6 TELECOMMUNICATIONS CONDUIT STUB-UP

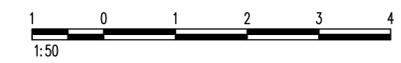
ELECTRIC UNIT HEATER SCHEDULE						
SYMBOL	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING	REMARKS
EH-1	.200	3	33	370/1/50	CEILING HUNG	
EH-2	.200	3	33	370/1/50	CEILING HUNG	



1
GATE HOUSE LIGHTING PLAN
M-E1 M-E1 SCALE: 1:50



2
GATE HOUSE POWER PLAN
M-E1 M-E1 SCALE: 1:50



DATE	DESCRIPTION	SYMBOL

DESIGNED BY: ALF	DATE: 04-01-08
DWN BY: ALF	SUBMITTED BY: BAKER
CHK BY: JRG	FILE NO.:

Altride Business Park
Altride Engineering
Moore, Pennsylvania, Pa. 15108
(412) 269-6300

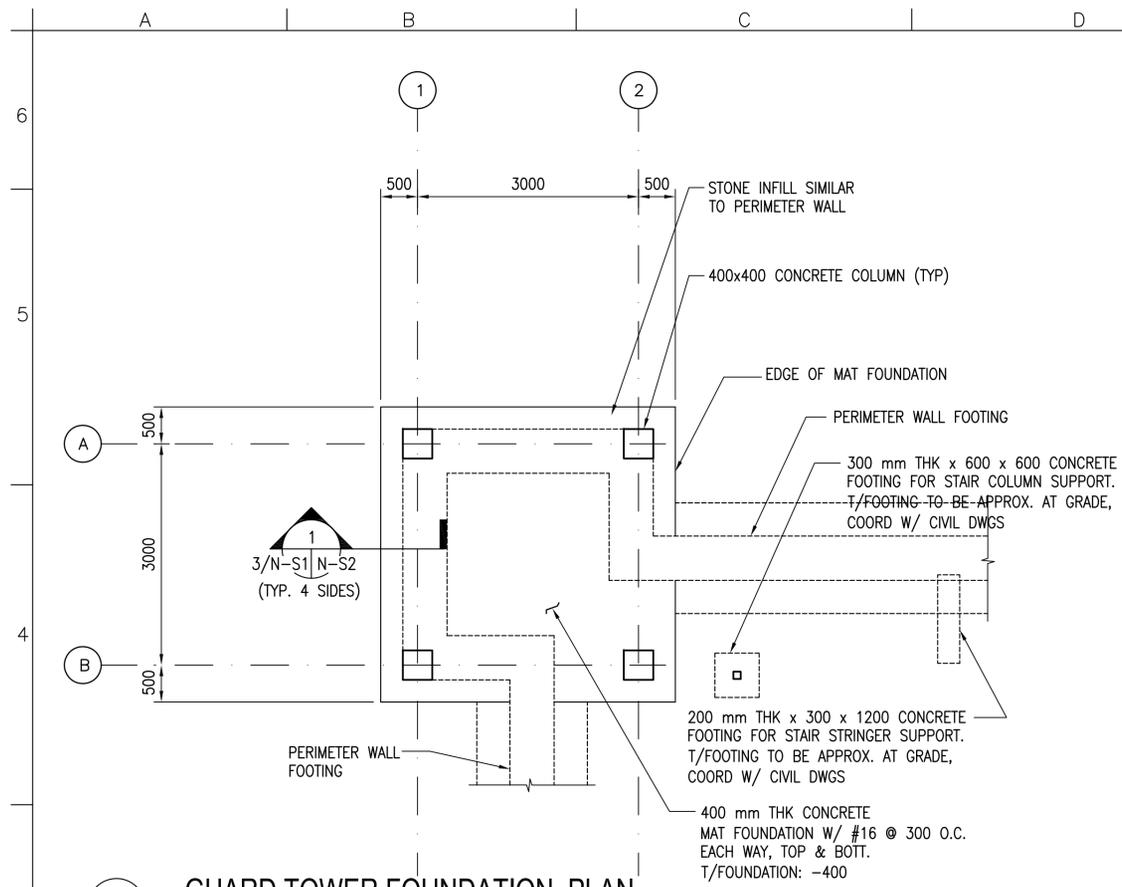
Baker
MICHAEL BAKER JR., INC.

US Army Corps
of Engineers
Transatlantic Programs
Center

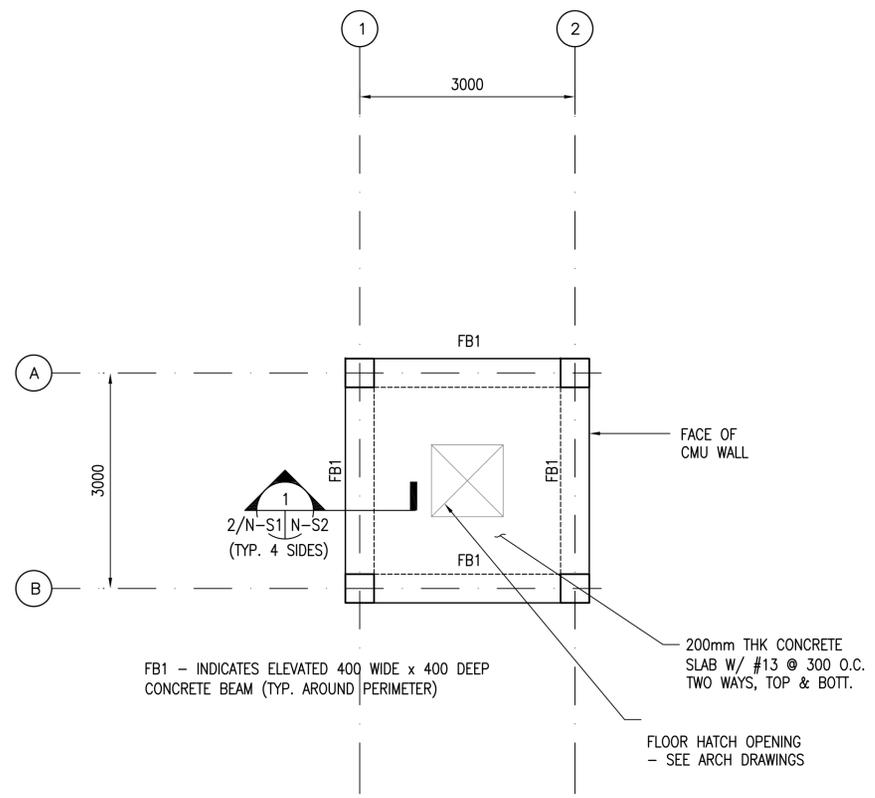
AFGHAN NATIONAL BORDER POLICE
AFGHANISTAN NATIONAL
BORDER POLICE UNIT FACILITY
BORDER POLICE COMPANY
GATE HOUSE
LIGHTING AND POWER PLAN

SHEET
REFERENCE
NUMBER:
M-E1

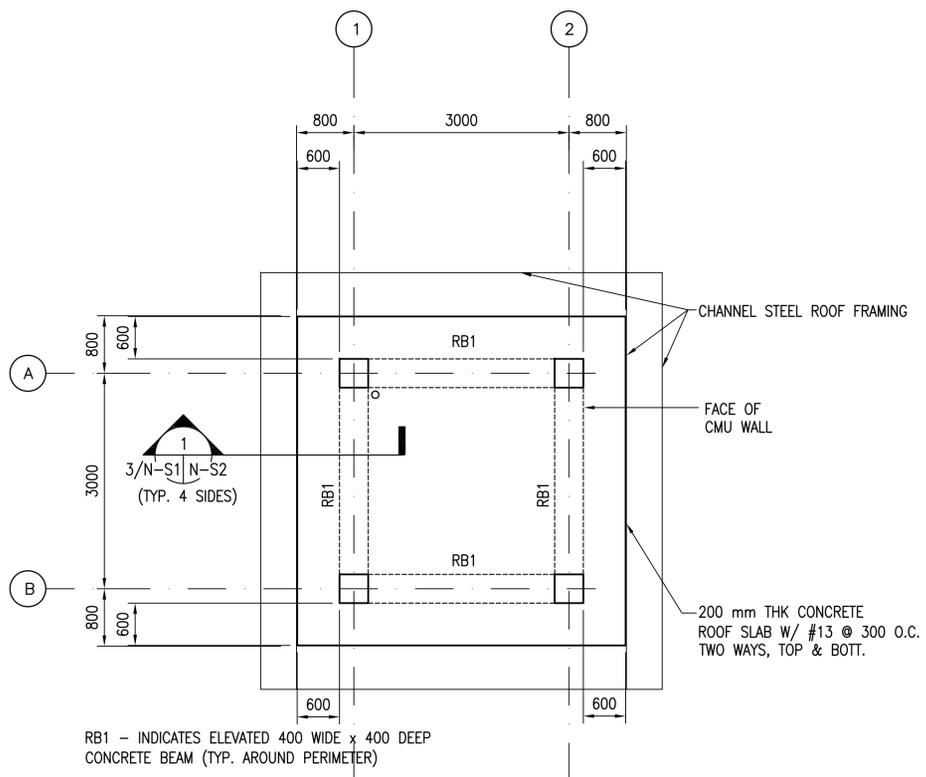
READY TO ADVERTISE SUBMISSION



1 GUARD TOWER FOUNDATION PLAN
N-S1 | N-S1 SCALE: 1:50

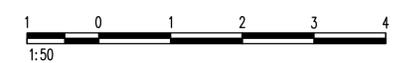


2 GUARD TOWER ELEVATED FLOOR FRAMING PLAN
N-S1 | N-S1 SCALE: 1:50



3 GUARD TOWER ROOF FRAMING PLAN
N-S1 | N-S1 SCALE: 1:50

- NOTES :
1. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.0) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
 2. TOP OF FOOTINGS: SEE PLAN
 3. REFER TO DRAWINGS S-S1 TO S-S3 FOR STRUCTURAL NOTES, BASIS OF DESIGN, SYMBOLS AND ABBREVIATIONS.
 4. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY PARTITION TYPES
 5. FILL ALL CELLS OF CMU WITH GROUT FULLY ENTIRE WALL HEIGHT. REINFORCE ALL MASONRY WITH #16 BARS @ 600mm O.C. MAX.
 6. CONCRETE ROOF AND FLOOR STRUCTURE SHALL BE POURED-IN-PLACE IN ONE CONTINUOUS OPERATION AND SHORED AS REQUIRED UNTILL THE CONCRETE REACHES 75% OF ITS STRENGTH AS A MINIMUM.



SYMBOL	DESCRIPTION	DATE	APP.

DESIGNED BY: JDM	DATE: 04-01-08
DWN BY: JDS	SUBMITTED BY: BAKER
CHK BY: RTD	FILE NO.:

Michael Baker Jr., Inc.
 15108
 Alridge Business Park
 Alridge, Virginia, Pa. 15108
 (412) 269-6300

US Army Corps
 of Engineers
 Transatlantic Programs
 Center

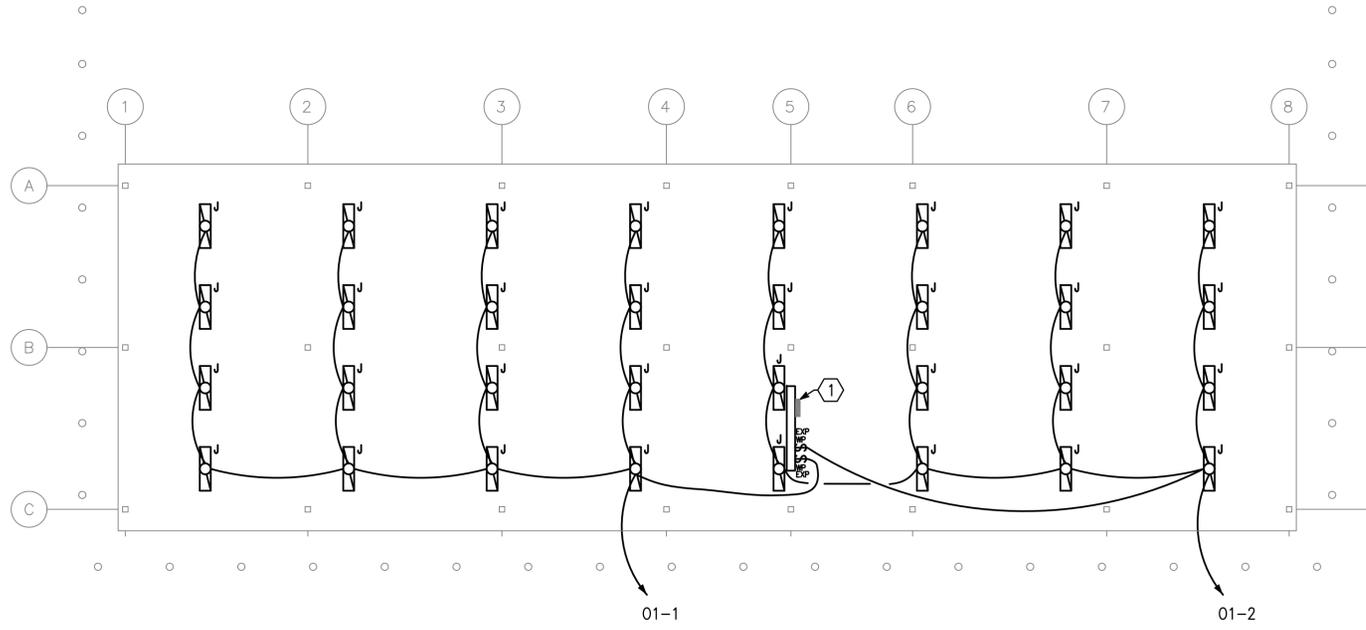
AFGHAN NATIONAL BORDER POLICE
 AFGHANISTAN NATIONAL
 BORDER POLICE UNIT FACILITY
 BORDER POLICE COMPANY
 GUARD TOWERS
 FOUNDATION, FLOOR FRAMING AND ROOF PLAN

SHEET
 REFERENCE
 NUMBER:
N-S1

READY TO ADVERTISE SUBMISSION

A B C D E F G H

6
5
4
3
2
1



GENERAL NOTE:

1. REFER TO DRAWING #S-E0 FOR ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #S-E1 FOR LIGHTING FIXTURE SCHEDULE.
3. REFER TO DRAWING #R-E1 FOR POWER RISER OF PANELS.
4. REFER TO R-E SERIES DRAWINGS FOR PANEL SCHEDULES.
5. ALL 'J' FIXTURES LOCATED IN THE FUEL/GENERATOR CANOPY SHALL BE FURNISHED WITH A LOW TEMPERATURE BALLAST.

NUMBERED NOTE:

- 1 PANEL '01'



SYMBOL	DESCRIPTION	DATE	APP.

DESIGNED BY: ALF	DATE: 04-01-08
DWN BY: ALF	SUBMITTED BY: BAKER
CHK BY: JRG	FILE NO.:


Baker
 MICHAEL BAKER JR., INC.
 15108
 Alside Business Park
 Alside Drive
 Moorefield, Va. 15108
 (412) 269-6300


 US Army Corps
 of Engineers
 Transatlantic Programs
 Center

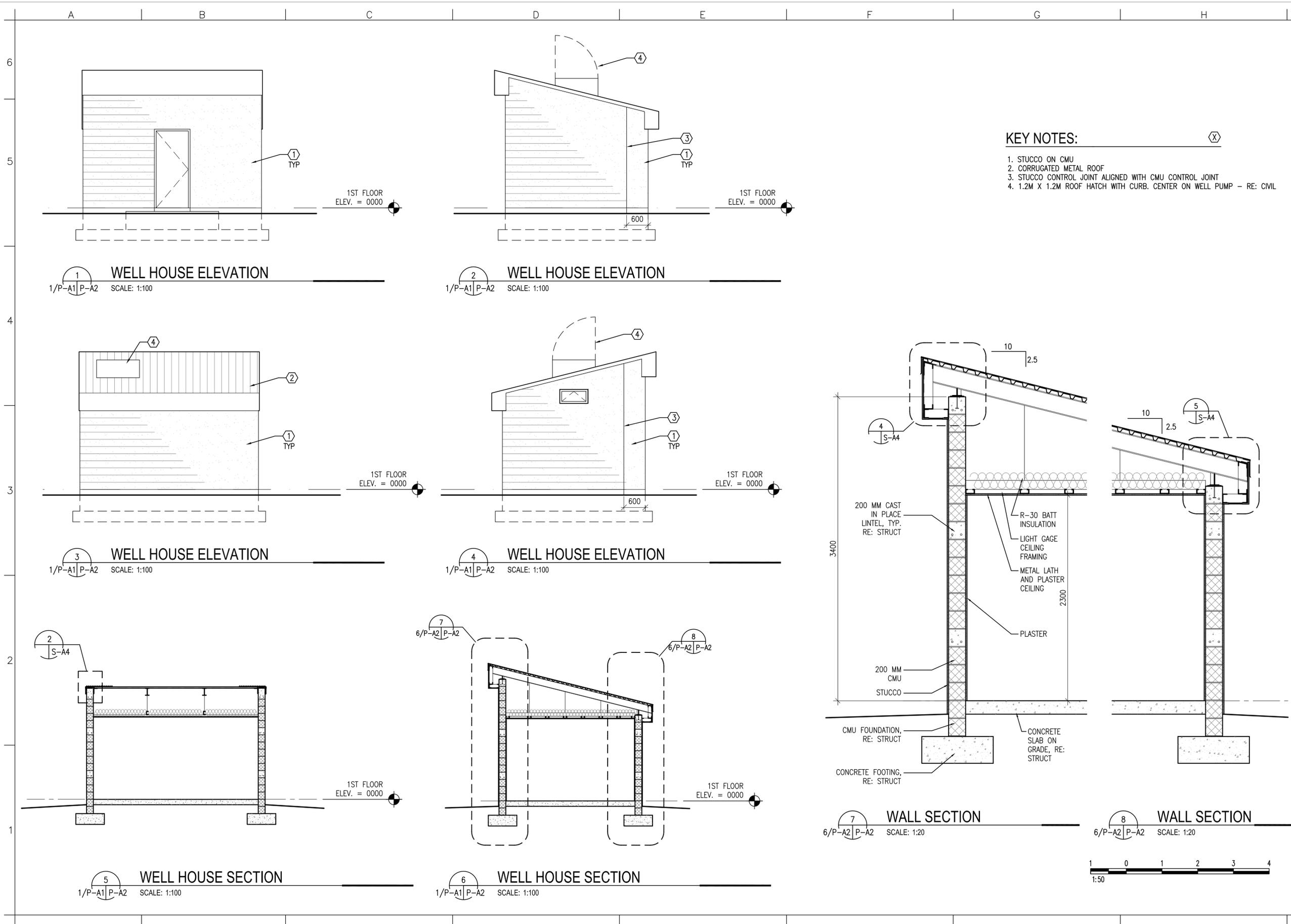
AFGHAN NATIONAL BORDER POLICE
 AFGHANISTAN NATIONAL
 BORDER POLICE UNIT FACILITY
 BORDER POLICE COMPANY
 RE-FUEL, GENERATOR AND FUEL CANOPY
 LIGHTING PLAN

SHEET
 REFERENCE
 NUMBER:
O-E1


RE-FUEL, GENERATOR, AND FUEL SUPPLY CANOPY LIGHTING PLAN
 SCALE: 1:100



READY TO ADVERTISE SUBMISSION



- KEY NOTES:**
1. STUCCO ON CMU
 2. CORRUGATED METAL ROOF
 3. STUCCO CONTROL JOINT ALIGNED WITH CMU CONTROL JOINT
 4. 1.2M X 1.2M ROOF HATCH WITH CURB. CENTER ON WELL PUMP - RE: CIVIL



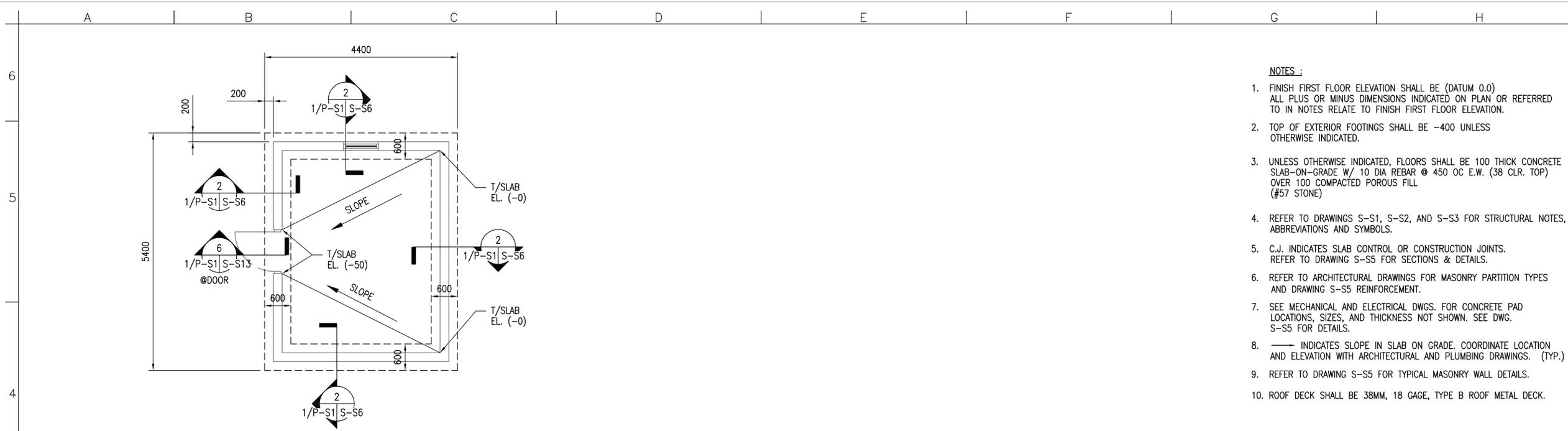
SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: BAKER	DATE: 04-01-08
DWN BY: JEB	SUBMITTED BY: BAKER
CHK BY: DMP	FILE NO:
100 Alside Drive Moon Township, Pa. 15108 (412) 269-6300 MICHAEL BAKER, JR., INC.	
US Army Corps of Engineers Transatlantic Programs Center	

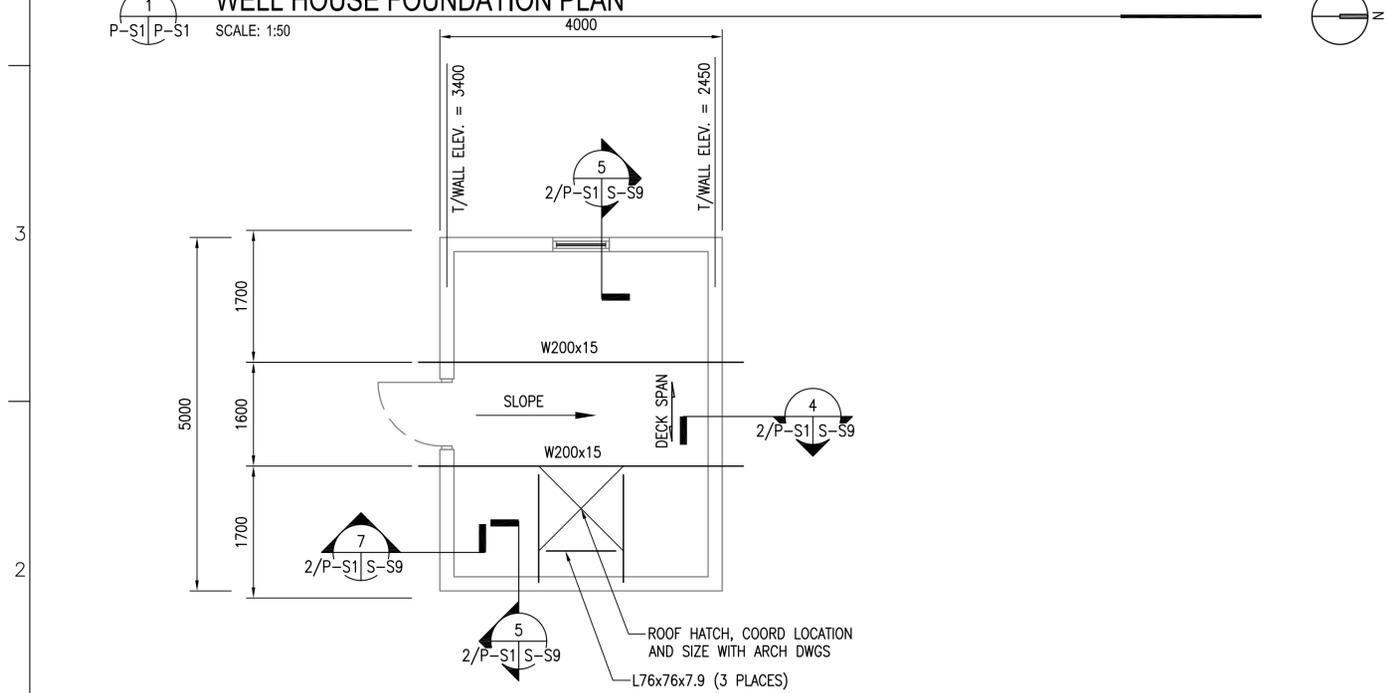
AFGHAN NATIONAL BORDER POLICE
 AFGHANISTAN NATIONAL
 BORDER POLICE UNIT FACILITY
 BORDER POLICE COMPANY
 WELL HOUSE
 ELEVATIONS

SHEET
 REFERENCE
 NUMBER:
P-A2

READY TO ADVERTISE SUBMISSION



1
P-S1|P-S1 SCALE: 1:50
WELL HOUSE FOUNDATION PLAN



2
P-S1|P-S1 SCALE: 1:50
WELL HOUSE ROOF FRAMING PLAN

- NOTES :**
1. FINISH FIRST FLOOR ELEVATION SHALL BE (DATUM 0.0) ALL PLUS OR MINUS DIMENSIONS INDICATED ON PLAN OR REFERRED TO IN NOTES RELATE TO FINISH FIRST FLOOR ELEVATION.
 2. TOP OF EXTERIOR FOOTINGS SHALL BE -400 UNLESS OTHERWISE INDICATED.
 3. UNLESS OTHERWISE INDICATED, FLOORS SHALL BE 100 THICK CONCRETE SLAB-ON-GRADE W/ 10 DIA REBAR @ 450 OC E.W. (38 CLR. TOP) OVER 100 COMPACTED POROUS FILL (#57 STONE)
 4. REFER TO DRAWINGS S-S1, S-S2, AND S-S3 FOR STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS.
 5. C.J. INDICATES SLAB CONTROL OR CONSTRUCTION JOINTS. REFER TO DRAWING S-S5 FOR SECTIONS & DETAILS.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY PARTITION TYPES AND DRAWING S-S5 REINFORCEMENT.
 7. SEE MECHANICAL AND ELECTRICAL DWGS. FOR CONCRETE PAD LOCATIONS, SIZES, AND THICKNESS NOT SHOWN. SEE DWG. S-S5 FOR DETAILS.
 8. ——— INDICATES SLOPE IN SLAB ON GRADE. COORDINATE LOCATION AND ELEVATION WITH ARCHITECTURAL AND PLUMBING DRAWINGS. (TYP.)
 9. REFER TO DRAWING S-S5 FOR TYPICAL MASONRY WALL DETAILS.
 10. ROOF DECK SHALL BE 38MM, 18 GAGE, TYPE B ROOF METAL DECK.



SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: DATE: 04-01-08
 JDM
 DWN BY: SUBMITTED BY: BAKER
 JDS
 CHK BY: FILE NO.:
 RTD

Outside Business Park
 100 Ainside Drive
 Moon Township, Pa. 15108
 (412) 269-6300
Baker
 MICHAEL BAKER JR., INC.

US Army Corps
 of Engineers
 Transatlantic Programs
 Center

AFGHAN NATIONAL BORDER POLICE
 AFGHANISTAN NATIONAL
 BORDER POLICE UNIT FACILITY
 BORDER POLICE COMPANY
 WELL HOUSE FOUNDATION / SLAB &
 ROOF FRAMING PLAN

SHEET
 REFERENCE
 NUMBER:
P-S1

