



# CONSTRUCTION OF WOMEN TRADE CENTER

## (MECHANICAL DRAWINGS)

KOHSAN DISTRICT, ISLAM QALA TOWN

**AFG 106-19/AFG-HELP-KOS-001-PROJECT**

DATE: DECEMBER, 23, 2020



DESIGN AGENCY: PEDESTAL CONSTRUCTION COMPANY

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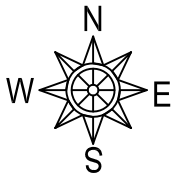
LOGOS



KEY-PLAN

NOTES :

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



REVISIONS

DATE	DESCRIPTION	DRN	BY	CHK	BY	APP	BY

CLIENT
HELP OFFICE - HERAT
DONOR
PATRIP FOUNDATION
PROJECT NAME/CODE NO
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE
SITE PLAN

ISSUED FOR
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	I-100	01

SCALE	1:700	DATE:	DEC .23, 2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY:	ENG. MEHRAN ARIB
DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:	

DESIGN AGENCY :

PEDESTAL CONSTRUCTION COMPANY

GENERAL NOTES

1 GENERAL:

- a. ALL DIMENSIONS ARE IN MILLIMETERS , UNLESS NOTED OTHERWISE.
- b. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.
- c. ANY DISCREPANCIES NOTICED IN THE DRAWING SHALL BE REPORTED TO CONSULTANT'S / OWNER'S REPRESENTATIVES PRIOR TO EXECUTION.
- d. THE NOTES IN THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS PERTAINING TO THE STRUCTURE.
- e. THE CONTRACTOR SHALL VERIFY ALL CHAINAGE, REDUCED LEVELS, CO-COORDINATES AND DIMENSIONS BEFORE WORK STARTS. IN CASE OF ANY DISCREPANCY, THE MATTER SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER-IN-CHARGE.
- f. NOTE FOR EXECUTION  
ALL THE WORK SHOULD BE EXECUTED UNDER THE SUPERVISION OF OWNER'S ENGINEER AND HIS DECISION WILL PREVAIL REGARDING ANY MATTER RELATED TO INTERPRETATION OF DRAWINGS AND / OR SPECIFICATION.
- g. REQUIREMENTS FOR HOT WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 305R-99 BASED ON ACI 318-05 SECTION 5.13.
- h. REQUIREMENTS FOR COLD WEATHER CONCRETING SHOULD BE IN ACCORDANCE WITH ACI 306.1-90 BASED ON ACI 318-05 SECTION 5.12.
- i. ALL CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHOULD BE WITHIN LIMITATIONS SPECIFIED UNDER ACI-318-05 SECTION 6.3.

2 CODES AND SPECIFICATIONS

- ACI 318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY  
ASCE-7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES  
IBC-2009 INTERNATIONAL BUILDING CODE (2009 IBC CODE TO BE IMPLEMENTED FOR SEISMIC DESIGN PURPOSES)  
ACI-350 CODE REQUIREMENT FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES & COMMENTARY.  
ACI SP-66 ACI DETAILING MANUAL  
ACI 207. 1R-96 MASS CONCRETE

DEFINITIONS

- ACI AMERICAN CONCRETE INSTITUTE  
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS  
IBC INTERNATIONAL BUILDING CODE

2a SEISMIC PARAMETER

- SEISMIC OCCUPANCY CATEGORY = III  
SITE CLASS = 4  
SEISMIC DESIGN CATEGORY = D  
SEISMIC IMPORTANCE FACTOR (I) = 1.0  
RESPONSE MODIFICATION FACTOR (R) = 8  
SPECTRAL RESPONSE FACTORS (S ) = 1.28g  
SPECTRAL RESPONSE FACTORS (S ) = 0.51g

2b WIND LOAD:

- DESIGN WIND LOAD FOR BUILDING SHALL BE IN ACCORDANCE WITH ASCE 7-2005. USING A BASIC WIND SPEED VELOCITY V OF 140 km/ph  
WIND EXPOSURE CATEGORY = B  
WIND IMPORTANCE FACTOR = 1.0

3 SOIL AND FOUNDATIONS

- a. MODULUS OF SUBGRADE REACTION CONSIDERED FOR RAFT DESIGN - 20,400 KN/cum  
b. THE SOIL BEARING CAPACITY USED FOR DESIGN IS 1kg/cm².  
c. EARTH UNDER ALL THE FOUNDATION SHALL BE COMPACTED TO 95%.  
d. A MIN. 50MM LAYER OF PCC SHALL BE PROVIDED UNDER ALL THE FOUNDATION.

4. CAST IN PLACE CONCRETE (CYLINDRICAL STRENGTH IN

ACCORDANCE WITH ASTM C172)  
FOUNDATION 28 N/mm  
COLUMNS 28 N/mm  
BEAMS 28 N/mm  
SLAB 28 N/mm

5 REINFORCING STEEL

- a. CONCRETE REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH RELEVANT STRUCTURAL DRAWINGS AND RELEVANT STANDARD CODES & SPECIFICATIONS.
- b. REINFORCING STEEL YIELD STRENGTH 420 N/mm
- c. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON DRAWINGS. THE FOLLOWING PROTECTION FOR REINFORCEMENT SHALL BE PROVIDED, EXCEPT OTHERWISE NOTED ON DRAWINGS.

MINIMUM COVER

SHALL BE EQUAL TO DIAMETER OF LARGEST REINFORCING BAR OR AS SPECIFIED BELOW, WHICHEVER IS GREATER.

CAST AGAINST PERMANENTLY EXPOSED TO EARTH ..... 75mm

EXPOSED TO EARTH OR WEATHER

20mm DIA THROUGH 32mm DIA ..... 50mm  
16mm DIA OR SMALLER ..... 40mm

NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, SLAB, WALLS ..... 20mm

BEAMS ..... 40mm  
COLUMNS ..... 40mm

e. LAPS AND DEVELOPEMENT LENGTHS(Ld):

LAPS SHALL BE PROVIDED ONLY AT APPROVED LOCATIONS AND SHOULD BE STAGGERED. LAP LENGTH SHALL BE 'Ld' AS GIVEN BELOW.  
'Ld' = FACTOR X DIAMETER OF BARS.

MULTIPLYING FACTORS

CONCRETE GRADE 4000 psi						
BAR DIA	10	12	16	20	25	32
DEVELOPMENT LENGTH FACTOR	38db	38db	38db	47db	47db	47db

db - DIA OF BAR

- f. REINFORCEMENT TO BE PROVIDED IN TWO LAYERS, IF REQUIRED TO AVOID CONGESTIONS AND FOR EASY PLACEMENT OF CONCRETE. THIS SHOULD BE REPORTED TO CONSULTANT PRIOR TO EXECUTION.
- g. REINFORCING STEEL WILL CONFORM TO ASTM615, GRADE 60
- h. MINIMUM LENGTH OF LAP FOR TENSION LAP SPLICES SHOULD BE IN ACCORDANCE WITH ACI 318-05 SECTION 12.15.1.
- i. REINFORCEMENT AND CONNECTION OF STURCTURE SHALL BE EFFECTIVELY TIED AND SHALL CONSTITUTE MINIMUM REQUIREMENTS IN ACCORDANCE WITH ACI-318-05 SECTION 7.13.
- j. MINIMUM SPACING FOR SHEAR REINFORCEMENT SHOULD BE IN ACCORDANCE WITH ACI-318-05 SECTION 11.5.5.
- k. NO SPLICE SHALL BE PERMITTED ON BEAMS AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR AND NO CONSTRUCTION JOINT SHALL BE PERMITTED ON BEAMS AND SLABS AT POINTS WHERE CRITICAL SHEAR STRESSES OCCUR.
- l. THE FIRST HOOP OF BEAM SHEAR REINFORCEMENT SHALL BE LOCATED NOT MORE THAN 50MM FROM FACE OF SUPPORTING MEMBER IN ACCORDANCE WITH ACI-318-05 SECTION 21.3.3.2.
- m. COLUMN TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ACCORDANCE WITH ACI-318-05 SECTION 7.10.5.4.
- n. THE MINIMUM CLEAR SPACING OF REINFORCEMENT BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN 25MM IN ACCORDANCE WITH ACI-318-05 SECTION 7.6.1.

6 NOTATIONS:

(A) REINFORCED CONCRETE

- 3 -Ø10

↑ DIA. OF BAR.

↑ TOTAL NO. OF BARS.

- THE SPACING OF BAR IF GIVEN AFTER DIA IS INDICATED BY @ FOLLOWED BY SPACING IN MILLIMETERS LIKE THIS.

- 10 @ 200 C/C.

↑ CENTER TO CENTER SPACING IN MM.

↑ DIA. OF BAR.

7 ABBREVIATIONS

- ARCH. - ARCHITECTURE  
BF - BOTH FACE  
B/W - BOTH WAYS  
B&T - TOP AND BOTTOM  
C/C - CENTER TO CENTER  
DWG. - DRAWING  
FFL - FINISHED FLOOR LEVEL  
Fn - FOOTING TYPE  
GL - GROUND LEVEL  
MM - MILLIMETERS  
NO. - NUMBER  
NOS. - NUMBERS  
P.C.C. - PLAIN CEMENT CONCRETE. (GRADE M10 U.N.O.)  
R.C.C - REINFORCED CEMENT CONCRETE  
SBC - SAFE BEARING CAPACITY  
THK. - THICKNESS  
TYP. - TYPICAL  
U.N.O. - UNLESS NOTED OTHERWISE

8 LEGENDS

- /@ - AT THE RATE OF  
// - GROUND LEVEL  
↑ - ONE WAY SLAB  
↑↓ - TWO WAY SLAB  
↑ - CANTILEVER SLAB  
(An) - GRID NO.  
Ø - DIAMETER OF REINFORCING BAR (SHEAR LUGS)

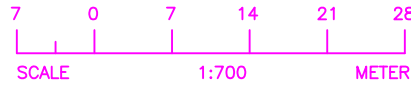
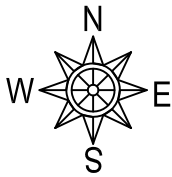
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KEY-PLAN

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SITE PLAN

ISSUED FOR

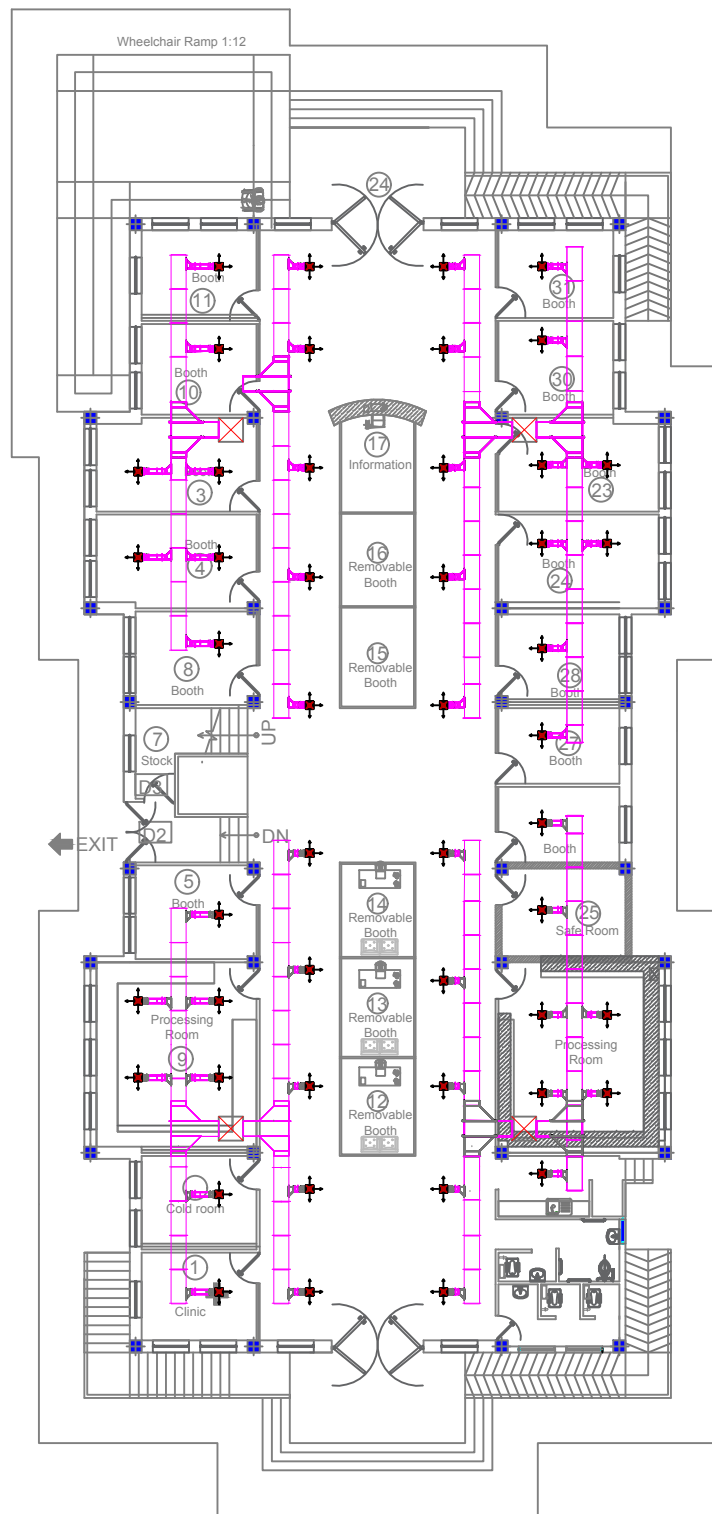
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	SD-100	02
SCALE	1:700	DATE: DEC 23, 2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG.BESMULLAH FOR.	APPROVED BY:

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



1 FIRST FLOOR MECHANICAL PLAN  
M-100 1:300

#### LEGENDS

NO	ABBREVIATION	DESCRIPTIONS	FIGURE	SIZE
1	C1	AIR CANAL 1		500X500mm
2	C2	AIR CANAL 2		300X400mm
3	SA	AIR SUPPLIER		300X400mm
4	EF	EXTRACTOR FAN		200XX200mm
5	KH	KITCHEN HOOD		1200XX600mm
6	WC	WATER COOLER 8000		800X800X1000mm
7	CH	CHIMNEY TO ROOF		Ø 4" STEEL PIPE
8	FE	FIRE EXTINGUISHER		VARRIABLE

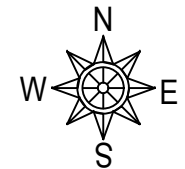
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TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN  
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REVISION

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PAGE NUMBER

SCALE

DATE

DESIGNED BY

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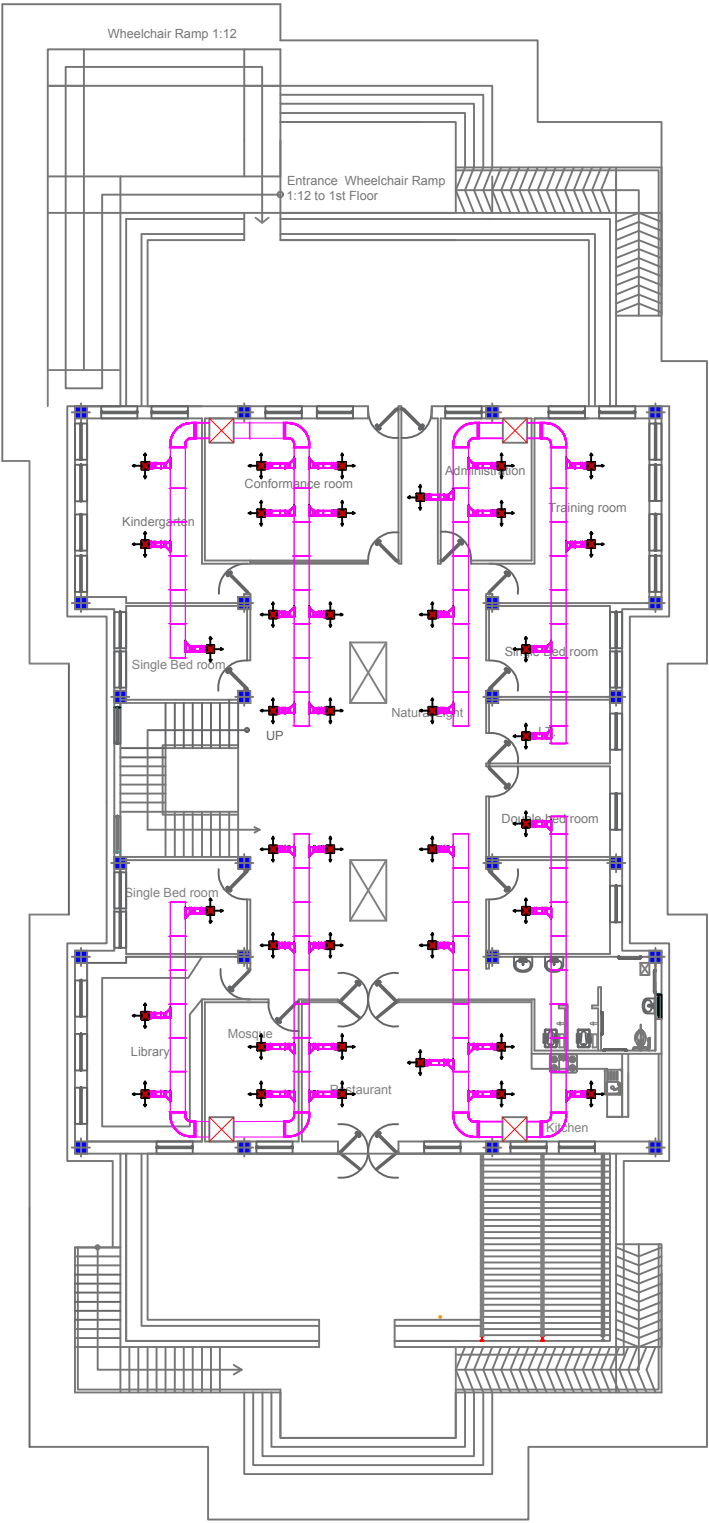
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APPROVED BY

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY



1 SECOND FLOOR MECHANICAL PLAN  
M-100 1:300

LEGENDS

NO	ABBREVIATION	DESCRIPTIONS	FIGURE	SIZE
1	C1	AIR CANAL 1		500X500mm
2	C2	AIR CANAL 2		300X400mm
3	SA	AIR SUPPLIER		300X400mm
4	EF	EXTRACTOR FAN		200XX200mm
5	KH	KITCHEN HOOD		1200XX600mm
6	WC	WATER COOLER 8000		800X800X1000mm
7	CH	CHIMNEY TO ROOF		Ø 4" STEEL PIPE
8	FE	FIRE EXTINGUISHER		VARRIABLE

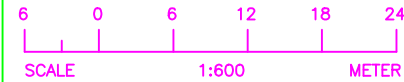
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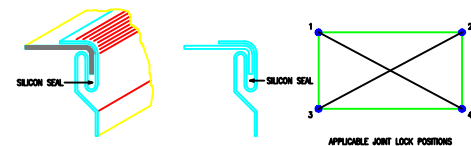
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PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN  
TRADE CENTER,KOHSAN DISTRICT, ISLAM QALA TOWN  
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE  
LONGITUDINAL PROFILE

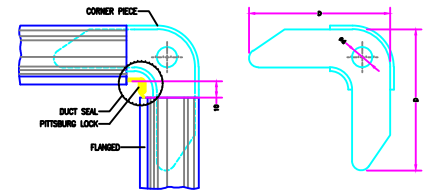
ISSUED FOR  
REVISION

PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	M-101	04
SCALE	1:600	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG BESMULLAH FOR	APPROVED BY:

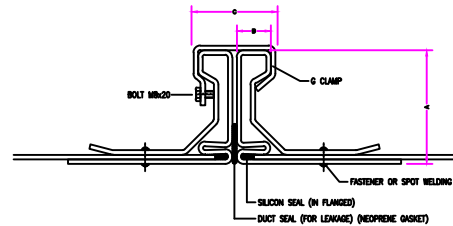




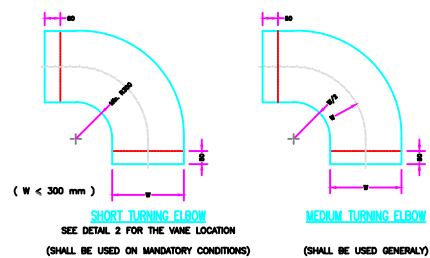
PITTSBURG LOCK BEND-CLAMP TYPE CONNECTION DETAIL  
N.T.S.



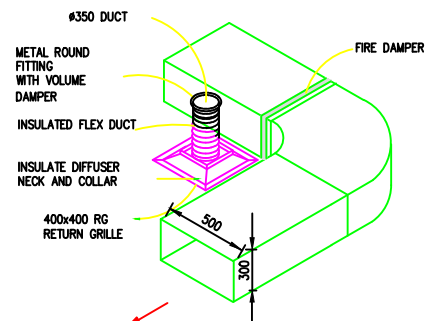
CONNECTION FLANGE TO CORNER & CORNER PIECE  
N.T.S. - (SEE TABLE-1)



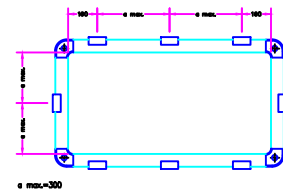
CONNECTION; FLANGE TO FLANGE  
N.T.S. - (SEE TABLE-1)



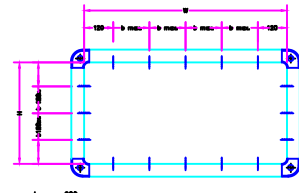
RECTANGULAR DUCT ELBOWS  
N.T.S.



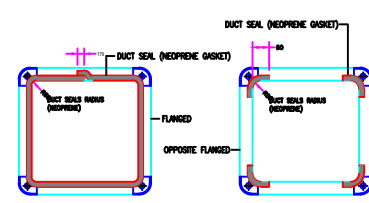
TRANSFER RETURN DUCT 1  
N.T.S.



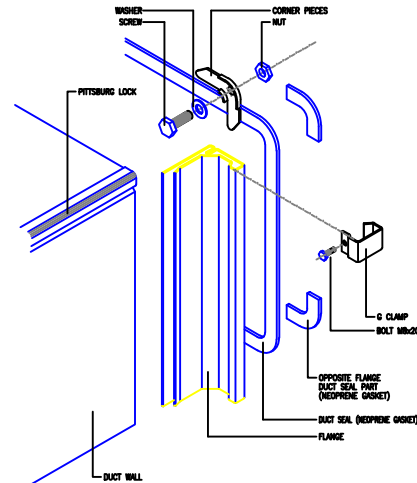
G CLAMP INSTALLATION DETAIL  
N.T.S.



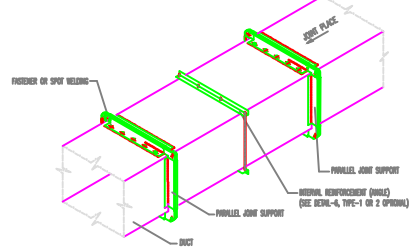
FASTENER OR SPOT WELDING LOCATIONS  
N.T.S.



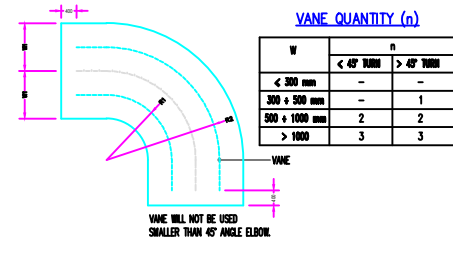
DUCT SEAL DETAIL  
N.T.S.



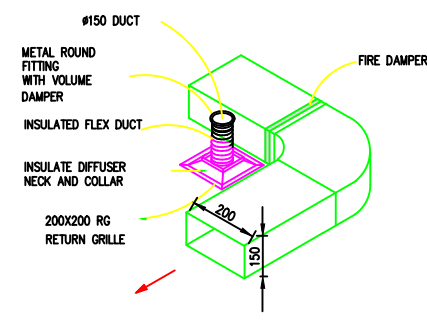
PIECES  
N.T.S.



REINFORCEMENT INSTALLATION VIEW  
(DUCT REINFORCED ON TWO SIDES)  
N.T.S.



RECTANGULAR DUCT ELBOW VANE LOCATION  
N.T.S.



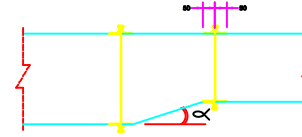
TRANSFER RETURN DUCT 2  
N.T.S.

TABLE-1

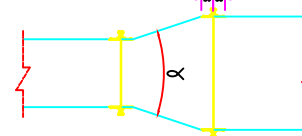
FLANGE DIMENSION LIST FOR DUCT JOINTS				
FLANGE HEIGHT A (mm)	B (mm)	C (mm)	CORNER PIECE LENGTH D (mm)	W
25	9	23	80	M8
35	9	23	110	M8

TABLE-2

RECTANGULAR DUCT CONSTRUCTION FOR ALL AIR CONDITIONING SYSTEMS STANDARDS OF DECIMATE (SMACNA 75 mmWG)				
AIR DUCT DIMENSIONS (mm)	FLANGE TYPE	DUCT LENGTH 2 L (mm)	INTERNAL REINFORCEMENT PIECES ANGLE	L (mm)
0-300	25	1500	-	-
330-440	25	1500	-	-
450-760	25	1250	-	-
790-1070	25	1250	30 x 30 x 3 mm	625
1090-1370	35	1250	30 x 30 x 3 mm	625
1400-1520	35	1250	30 x 30 x 3 mm	625
1550-1800	35	1250	40 x 40 x 3 mm	625
1801-2130	35	1250	40 x 40 x 3 mm	625
2160-10000	35	1250	40 x 40 x 5 mm	625

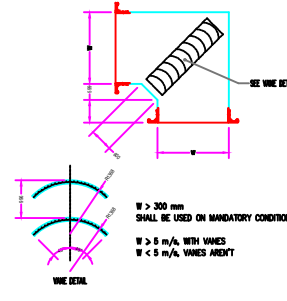


ECCENTRIC TRANSITION  
 $\alpha < \max = 30^\circ$

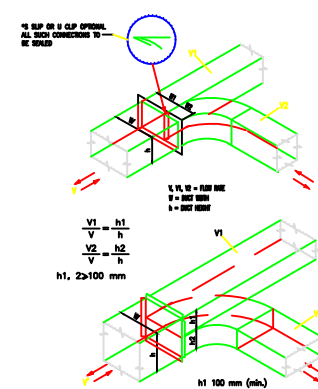


CONCENTRIC TRANSITION  
 $\alpha < \max = 45^\circ$  FOR DIVERGING  
 $\alpha < \max = 60^\circ$  FOR CONVERGING

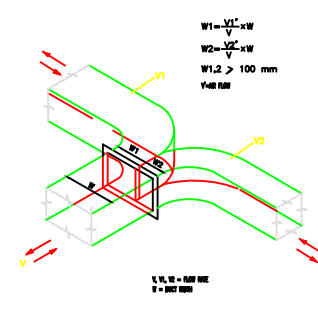
TRANSITION DETAILS  
N.T.S.



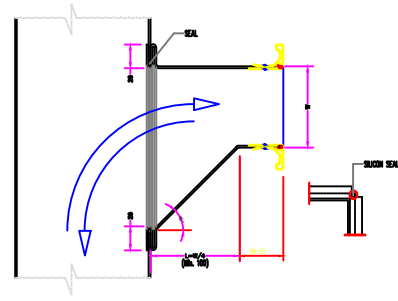
SQUARE THROAT ELBOW  
N.T.S.



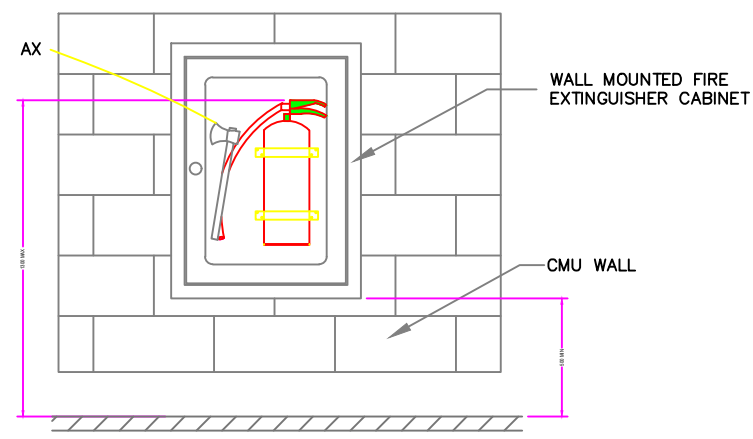
DUCT BRANCH DETAIL-1  
N.T.S.



DUCT BRANCH DETAIL-2  
N.T.S.



TYPICAL BRANCH CONNECTION  
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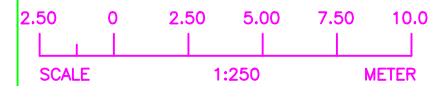
4 FIRE EXTINGUISHER CABINET TYPE DETAIL  
NOT TO SCALE

LOGOS



KEY-PLAN

NOTES :



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DATE	DESCRIPTION	DRN BY	CHK BY/APP BY

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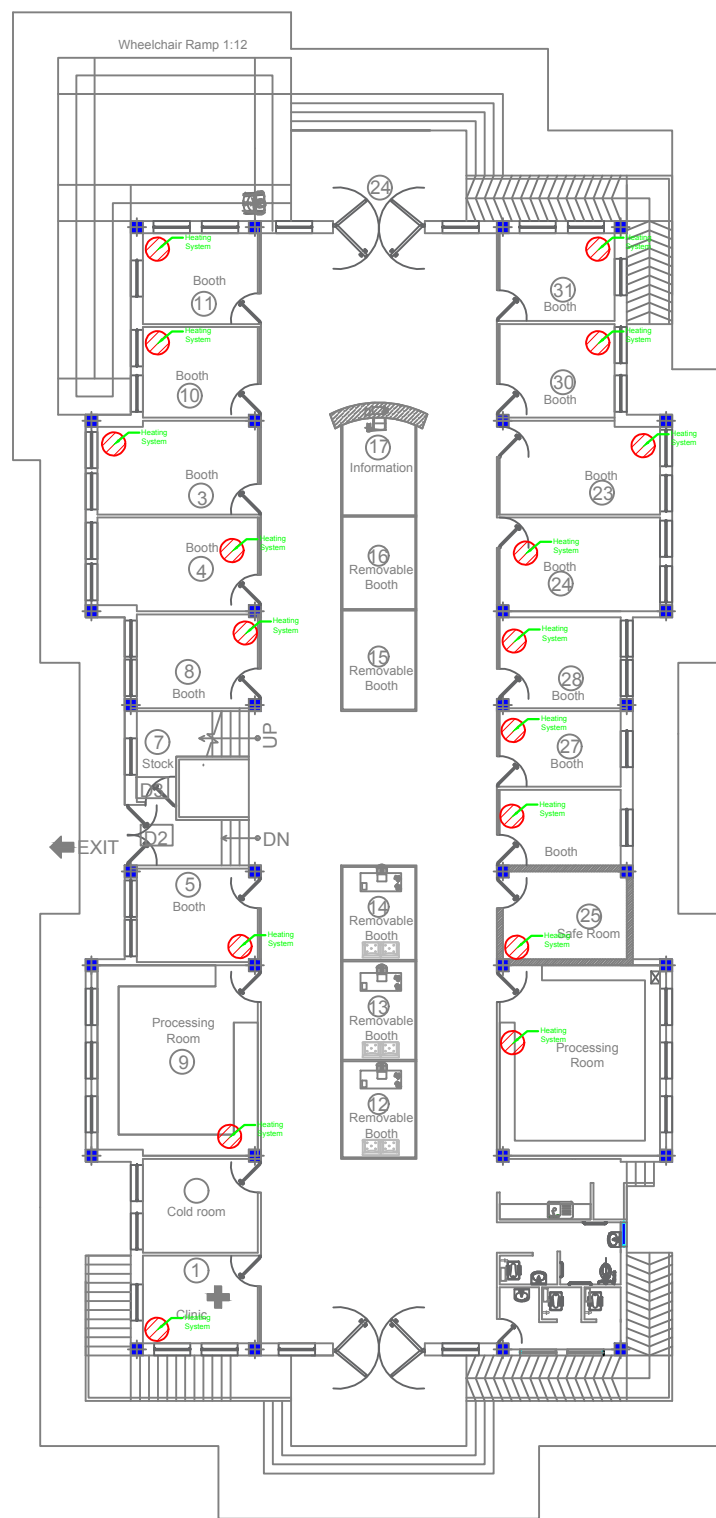
PROJECT NAME/CODE NO  
PREPARE DETAILED DESIGN DOCUMENTATION, WOMEN  
TRADE CENTER, KOHSAH DISTRICT, ISLAM QALA TOWN  
AFG 106-19/AFG-HELP-KOS-001-PROJECT

DRAWING TITLE  
N.T.S.

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PROJECT ID	DRAWING NUMBER	PAGE NUMBER
	M-102	05
SCALE	1:250	DATE: DEC.23.2020
DESIGNED BY:	ENG. MEHRAN ARIB	CHECKED BY: ENG. MEHRAN ARIB
DRAWN BY:	ENG. BESMULLAH FOR	APPROVED BY:

DESIGN AGENCY :  
PEDESTAL CONSTRUCTION COMPANY  
EDESTA



1 FIRST FLOOR MECHANICAL PLAN  
M-100 1:300

#### LEGENDS

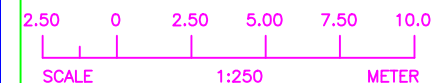
NO	ABBREVIATION	DESCRIPTIONS	FIGURE	SIZE
1	C1	AIR CANAL 1		500X500mm
2	C2	AIR CANAL 2		300X400mm
3	SA	AIR SUPPLIER		300X400mm
4	EF	EXTRACTOR FAN		200XX200mm
5	KH	KITCHEN HOOD		1200XX600mm
6	WC	WATER COOLER 8000		800X800X1000mm
7	CH	CHIMNEY TO ROOF		Ø 4" STEEL PIPE
8	FE	FIRE EXTINGUISHER		VARRIABLE
9	HS	HEATING SYSTEM		100X100mm

LOGOS



KEY-PLAN

NOTES :



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FIRST FLOOR PLAN

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PROJECT ID

DRAWING NUMBER

PAGE NUMBER

SCALE

DATE

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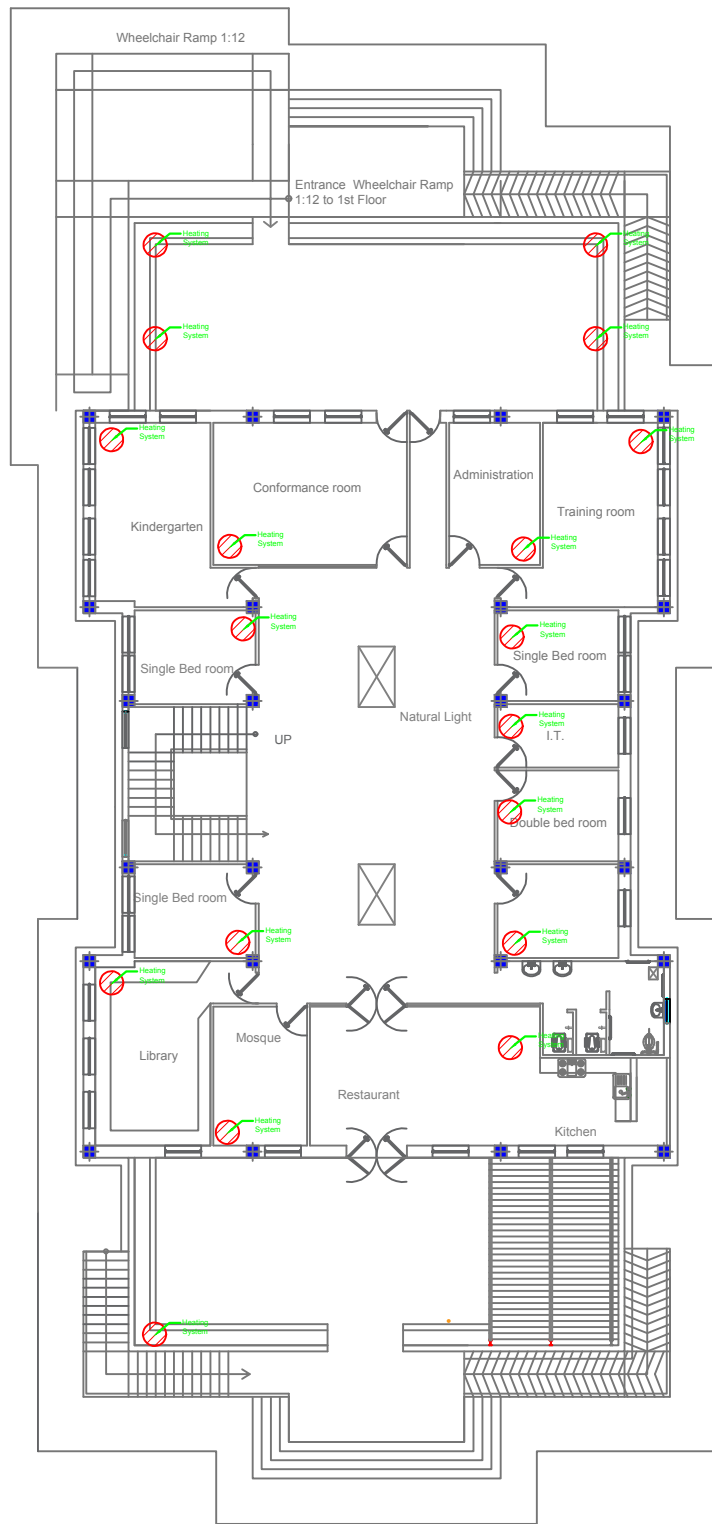
APPROVED BY

DESIGN AGENCY :



PEDESTAL CONSTRUCTION COMPANY





#### LEGENDS

NO	ABBREVIATION	DESCRIPTIONS	FIGURE	SIZE
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LOGOS



KEY-PLAN

NOTES :



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SECTIONS - A

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DESIGN AGENCY :



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