Provincial Government
Sudurpaschim Province
Ministry of Social Development
Dhangadhi, Kailali

FINAL REPORT

Detail Engineering Design & Cost Estimate of Campus Building (Terai Region)

DRAWING REPORT

Volume II

Submitted By: *2076B.S.*

Durga Engineering Construction and Consult Nepal Pvt. Ltd.
Doti

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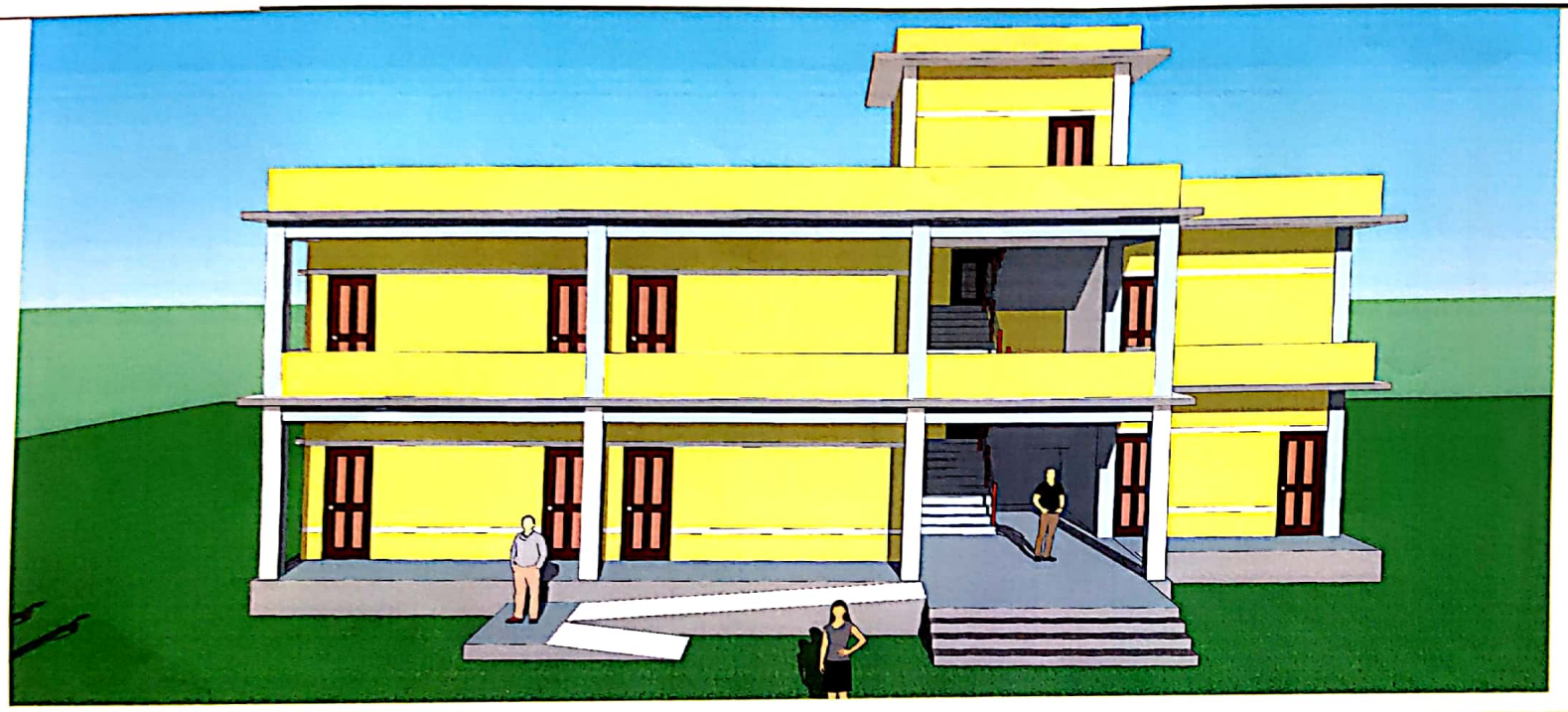

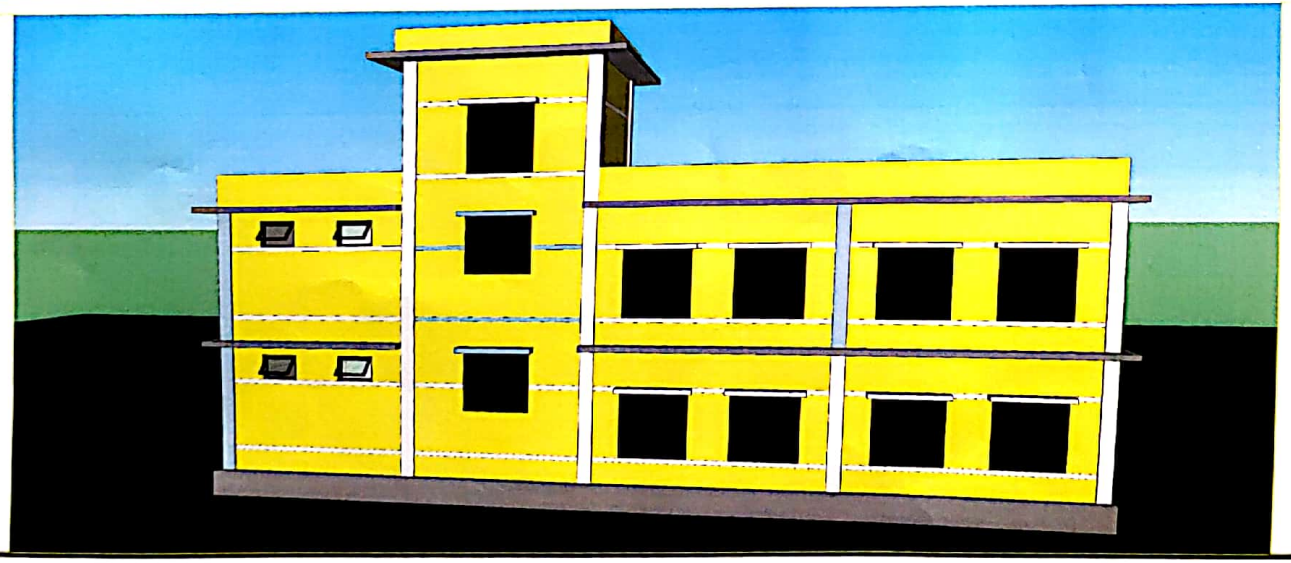

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Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

CLINT:

Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

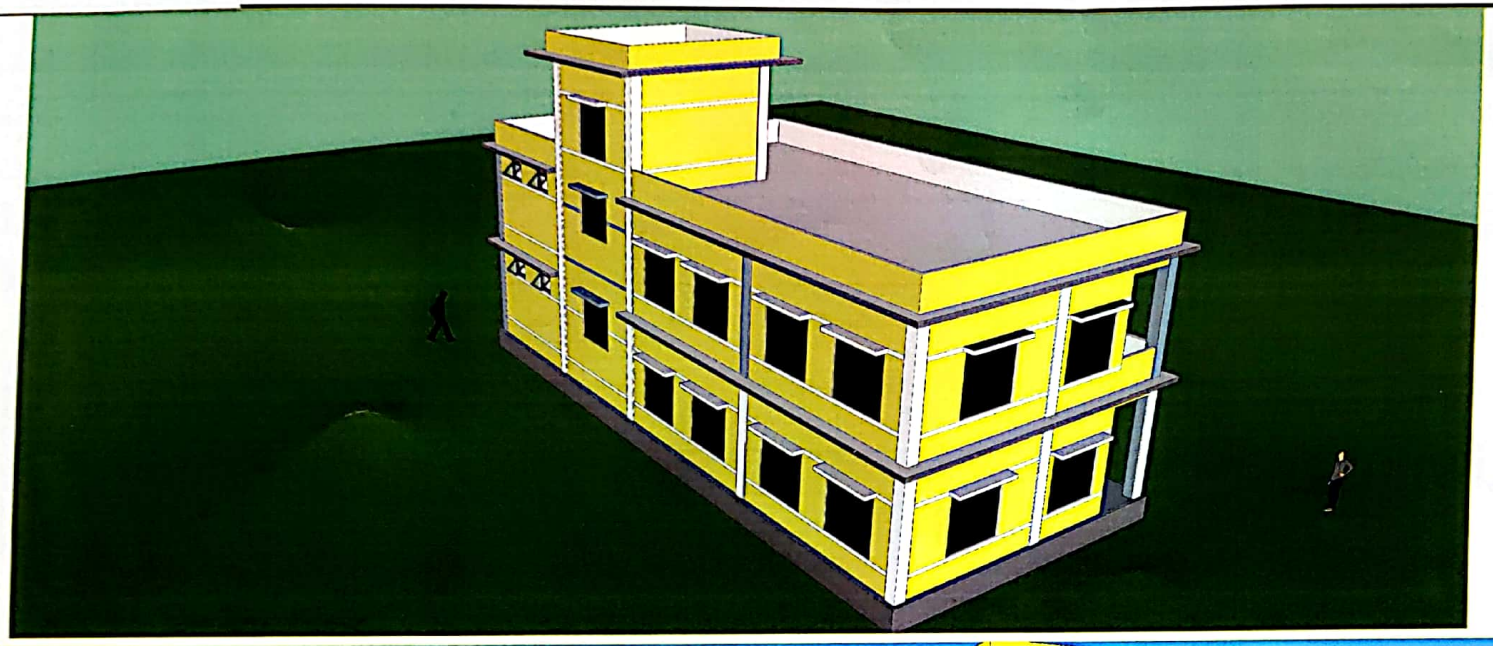
Name Of Consultant :

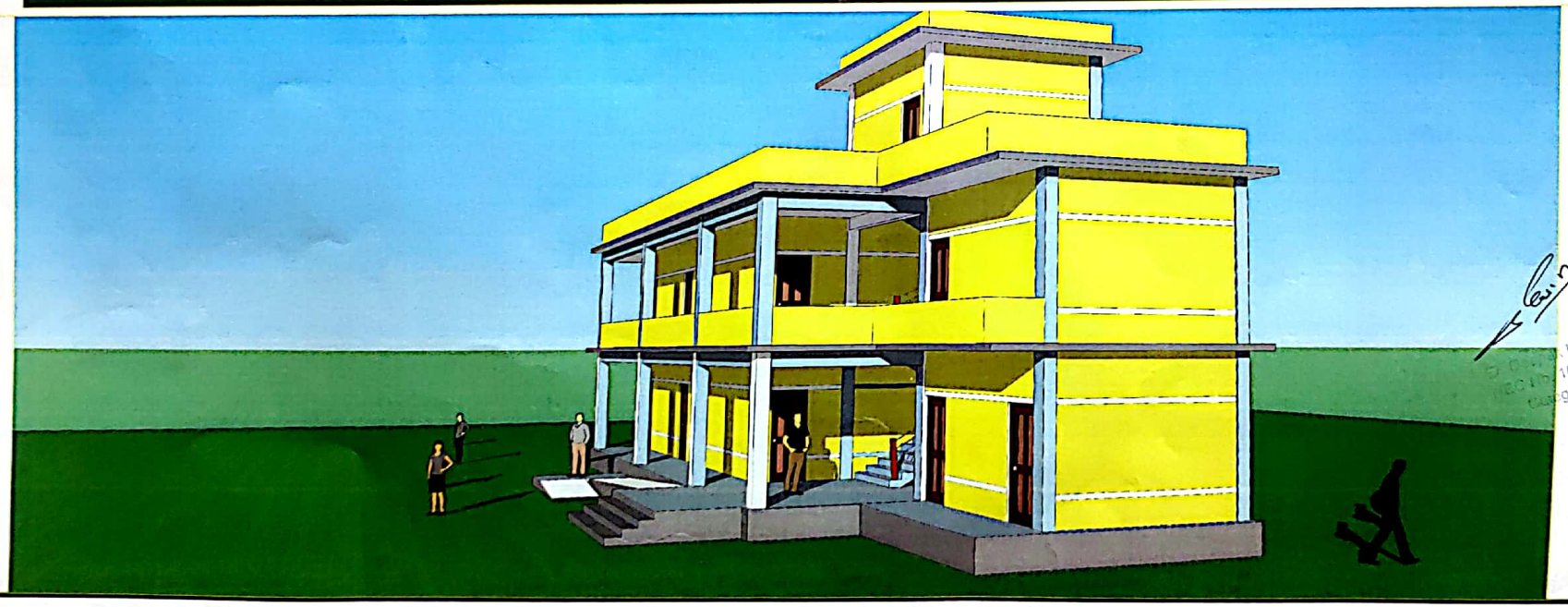
Durga Engineering Construction & Consult Nepal Pvt. Ltd., Doti

Er. Deepak Upadhya
NEC No. 16269 "Civil"
Category "A"

Name Of Project:- CAMPUS BUILDING	Checked By:- Er. Surendra Bam
Building Area:- 1539.82 Sq ,Ft	Drawn By:- Sunita Kumal
Details:- ELEVATION	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: A

Scanned by CamScanner





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Name Of Consultant :

Durga Engineering Construction & Consult Nepal Pvt. Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er. Surendra Bam. Nec Regd No - 17253 civil 'A'
Building Area:- 1539.82 Sq ,Ft	Drawn By:- Sunita Kumal
Details:- ELEVATION	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: B

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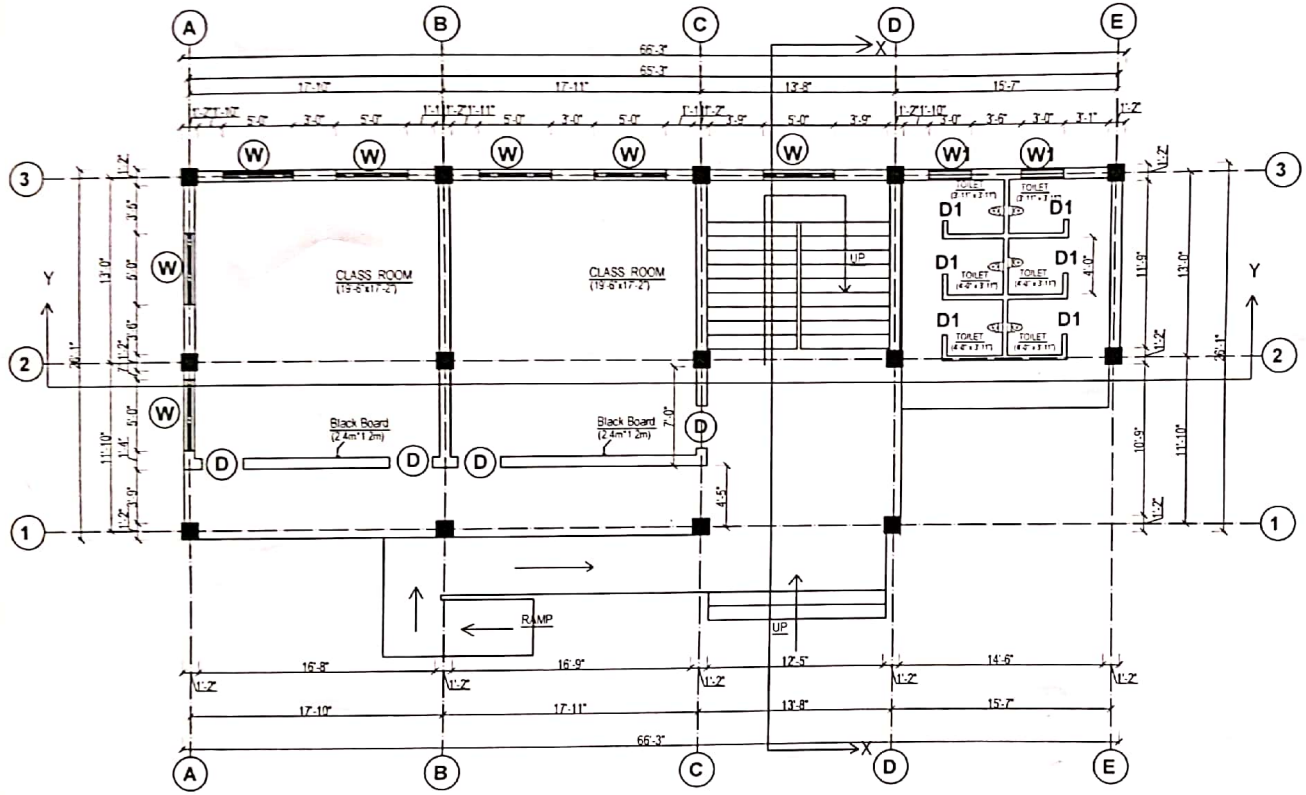
Brick



GROUND FLOOR PLAN

(AREA:-1539.82 SQ.FT)

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प्रदेश सरकार
सुदूरपश्चिम प्रदेश
सामाजिक विकास मन्त्रालय
कैलाली, नेपाल
२०७४

धनगढी उपमहानगरपालिका
नगर कार्यपालिकाको कार्यालय
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश, नेपाल

Er. Upendra Prasad Bhatta
CO Regd. No. 13339 Civil

डिभिजनल इन्जिनियर

Er. Deepak Upadhyay
NEC No. 16269 'Civil'
Category "A"

CLINT:

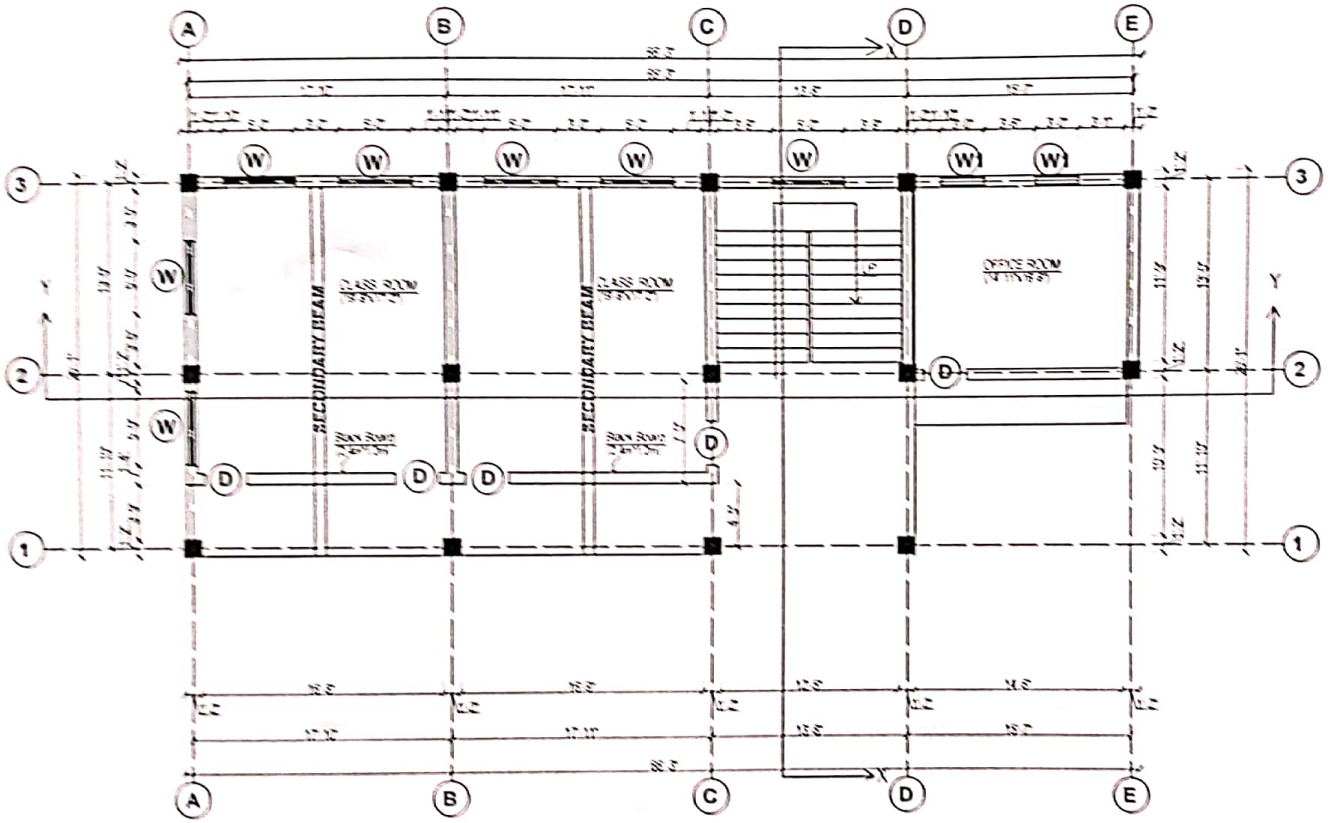
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali

Name Of Consultant :

Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er. Deepak Upadhyay Nec Regd No. 16269 civil A
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sudip Chaudhary
Details:- PLAN	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 1

Scanned by CamScanner



FIRST FLOOR PLAN

(AREA:-1539.82 SQ.FT)

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Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
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Name Of Consultant:
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project: CAMPUS BUILDING	Checked By: Er. Deepak Upadhyay
Building Area: 1539.82 Sq.Ft	Drawn By:
Details: PLAN	
	Scale: 1" = 8'-0"
Date: 2020	Sheet No: 2

Deepak Upadhyay
NEC No. 18269 "Civil"
Category "A"

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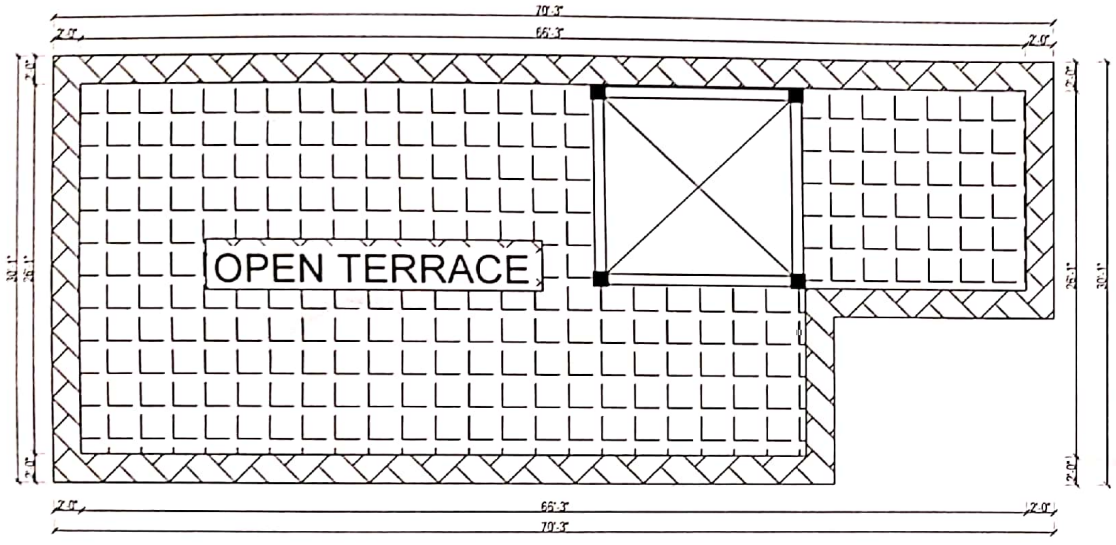

ROOF PLAN
Area of Building :- 1925.12 Sq.Ft.

OPENINGS SCHEDULE

S.N.	SYM.	PARTICULAR	WIDTH	HEIGHT	NOS.
1.	D	DOOR	3'-0"	7'-0"	9
2.	D1	DOOR	2'-6"	7'-0"	7
3.	W	WINDOW	5'-0"	5'-0"	14
4.	W1	WINDOW	3'-0"	5'-0"	4

Er. Deepak Upadhyay
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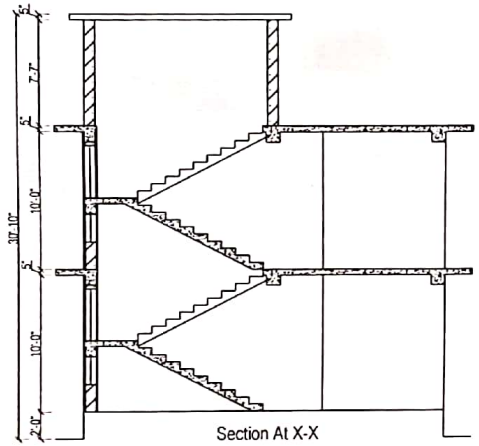
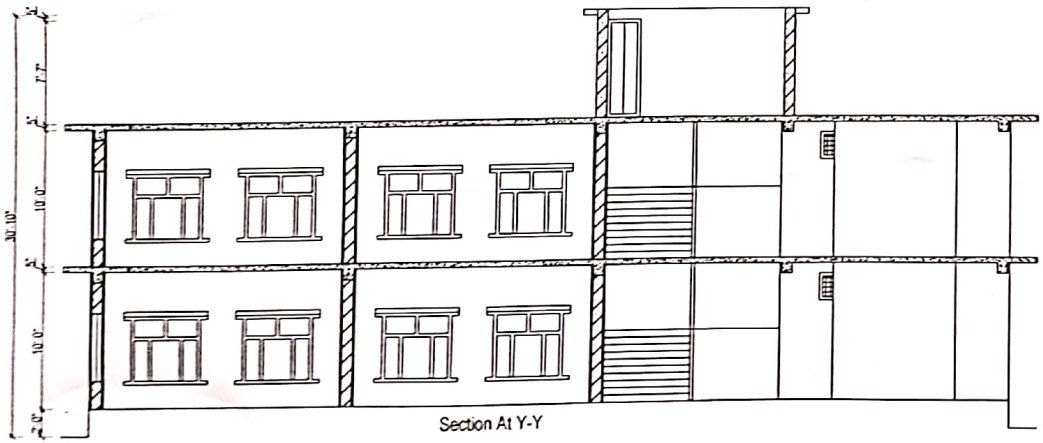
Name Of Project:- CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sudip Chaudhary
Details:- ROOF PLAN	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No:- 3

Scanned by CamScanner



Section At X-X



Section At Y-Y

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धनगढी उप-महानगरपालिका
नगर कार्यपालिकाको कार्यालय
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश, नेपाल

सुदूरपश्चिम प्रदेश सरकार
सामाजिक विकास मन्त्रालय
धनगढी, कैलाली
२०७५

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Dhangadhi Kailali .

Name Of Consultant

Durga Engineering Construction
& Consult Nepal Pvt Ltd., Doti

Name Of Project:-
CAMPUS BUILDING

Checked By:-
Er Deepak Upadhyay

Building Area:-
1539 82 Sq .Ft

Drawn By:-
Sudip Chaudhari

Details:-
SECTIONAL ELEVATION

Scale:
1" = 8'-0"

Date:-
2020

Sheet No:
4

Er. Deepak Upadhyay
NEC No. 16269 "Civil"
Category "A"

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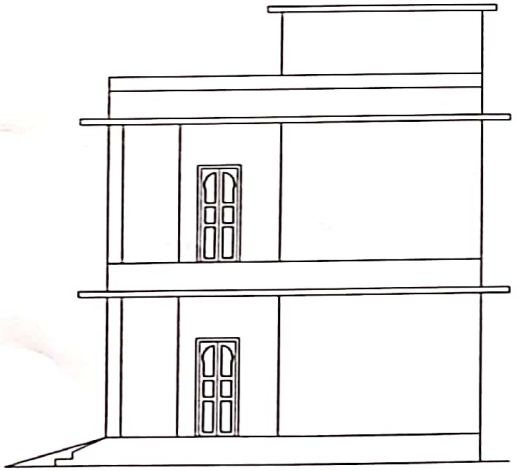
FRONT SIDE



RIGHT SIDE

Er. Deepak Upadhyay
NEC No. 18269 'Civil'
Category "A"

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Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

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Name Of Project:- CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sachin Chaudhary
Details:- ELEVATION	
	Scale: 1" = 5'-0"
Date:- 2020	Sheet No:- 5

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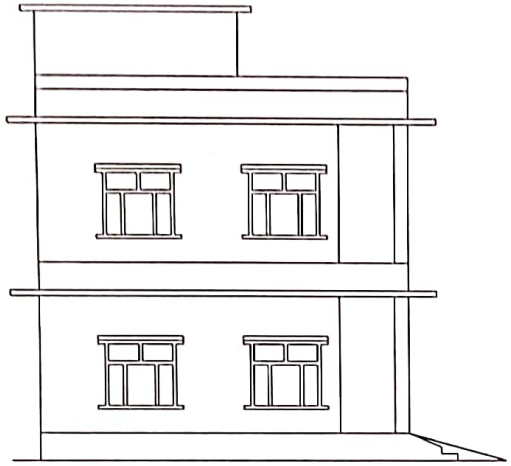
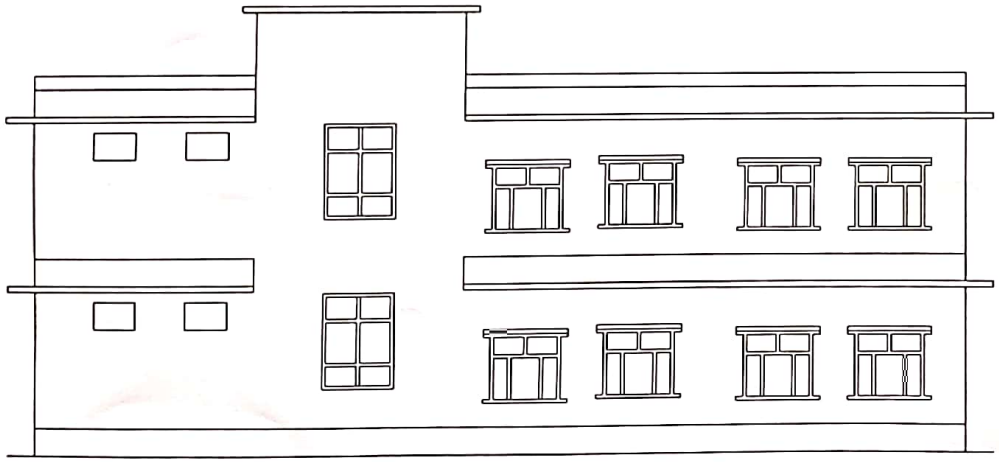


LEFT SIDE



BACK SIDE

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धनगढी उप-महानगरपालिका
नगर कार्यपालिकाको कार्यालय
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश, नेपाल

सुदूरपश्चिम प्रदेश सरकार
सामाजिक विकास मन्त्रालय
कैलाली, नेपाल
२०७४

Er. Upendra Prasad Bhatta
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Category "A"

Name Of Project:- CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay NEC Regd No. 16269 cat A
Building Area:- 1539 82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- ELEVATION	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 6

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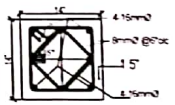
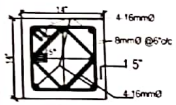
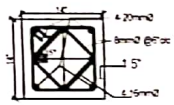
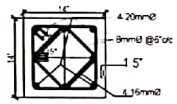
COLUMN DETAILS

Type	Ground floor	First floor
C1		
C2		

Note -

1) Concrete grade for all the R C C work shall be of M20(1 1 ½ 3)

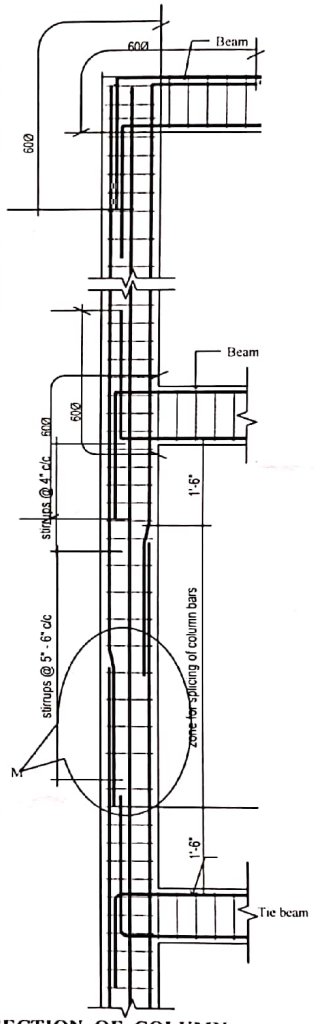
2) Mortar mix for all brick works shall be 1 4

3) Minimum clear cover for slab, beam, column and foundation shall be 15mm, 25mm, 40mm and 50mm respectively

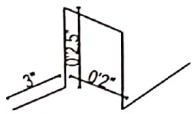
4) The Formwork should be removed only after 24 hours of Concreting. The curing of Columns should be carried properly by putting water on column surfaces for minimum 7 days. Jute bags can be used to cover the Column surfaces during curing to keep the surfaces wet

5) Shear key of size 100 x 100 x 100 mm should be provided at the top surface of the Column to avoid cold joint between old and new concrete and to strengthen the Column

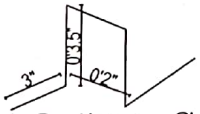
6) According to soil type round the foundation, it is adopted for medium foundation according to NBC 205



L- SECTION OF COLUMN WITH LAPPING
Scale- (1" = 2'-0")



8mm dia Chair Resting on bottom bars



8mm dia Chair Resting on Slab formworks

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Category "A"

Name Of Project: CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sudip Chaudhary
Details:- REINFORCEMENT DETAILS	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 7

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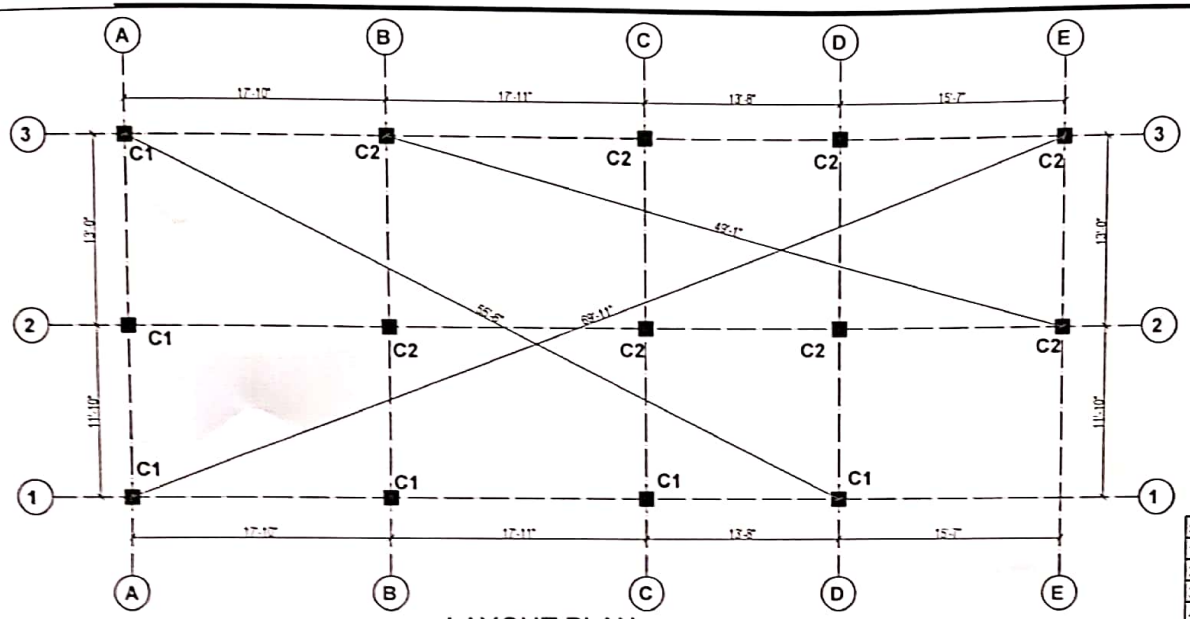
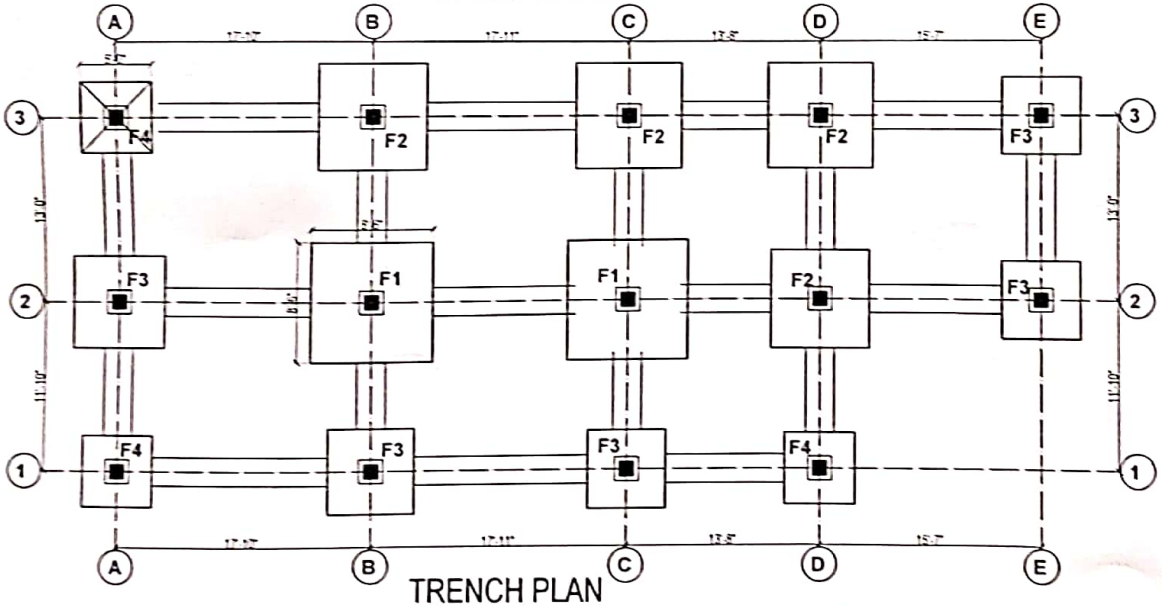


LAYOUT PLAN



TRENCH PLAN

SBC=80KN/M2

S.N.	SYMBOL	SIZE	DEPTH
1.	F1	8'-6"*8'-6"	5'-0"
2.	F2	7'-6"*7'-6"	5'-0"
3.	F3	6'-6"*6'-6"	5'-0"
4.	F4	5'-0"*5'-0"	5'-0"

SBC=100KN/M2

S.N.	SYMBOL	SIZE	DEPTH
1.	F1	8'-0"*8'-0"	5'-0"
2.	F2	7'-0"*7'-0"	5'-0"
3.	F3	6'-0"*6'-0"	5'-0"
4.	F4	5'-0"*5'-0"	5'-0"

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Name Of Project: CAMPUS BUILDING

Checked By: Er. Deepak Upadhyay

Building Area: 1539.82 Sq.Ft

Drawn By: Sadip Chaudhary

Details: LAYOUT & TRENCH PLAN

Scale: 1" = 8'-0"

Date: 2020

Sheet No.: 10

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SBC=80KN/M2

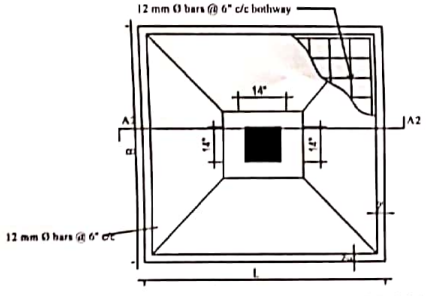
S.N.	SYMBOL	SIZE	DEPTH
1.	F1	8'-6"*8'-6"	5'-0"
2.	F2	7'-6"*7'-6"	5'-0"
3.	F3	6'-6"*6'-6"	5'-0"
4.	F4	5'-0"*5'-0"	5'-0"

SBC=100KN/M2

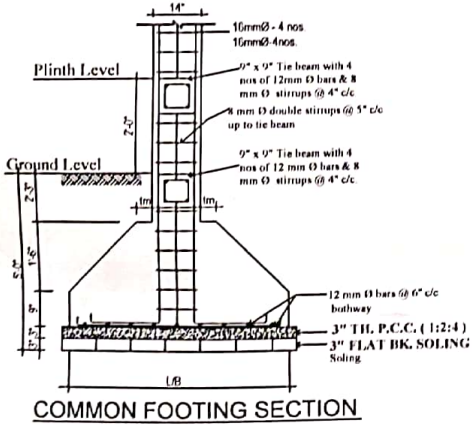
S.N.	SYMBOL	SIZE	DEPTH
1.	F1	8'-0"*8'-0"	5'-0"
2.	F2	7'-0"*7'-0"	5'-0"
3.	F3	6'-0"*6'-0"	5'-0"
4.	F4	5'-0"*5'-0"	5'-0"

SBC=150KN/M2

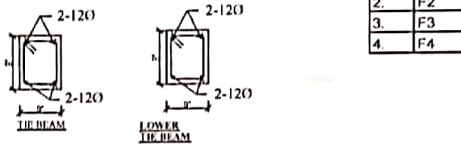
S.N.	SYMBOL	SIZE	DEPTH
1.	F1	6'-6"*6'-6"	5'-0"
2.	F2	5'-6"*5'-6"	5'-0"
3.	F3	5'-0"*5'-0"	5'-0"
4.	F4	5'-0"*5'-0"	6'-0"

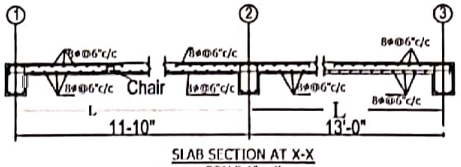


COMMON FOOTING PLAN

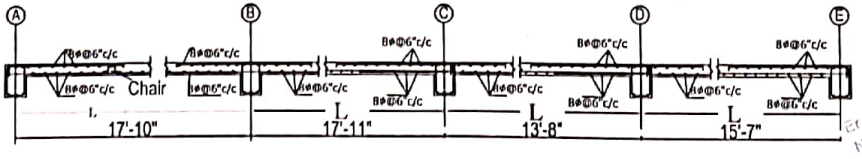


COMMON FOOTING SECTION





SLAB SECTION AT X-X
SCALE:1"= 4'



SLAB SECTION AT Y-Y
SCALE:1"= 4'

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Building Area:- 1539.82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- FOUNDATION DETAILS	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 11

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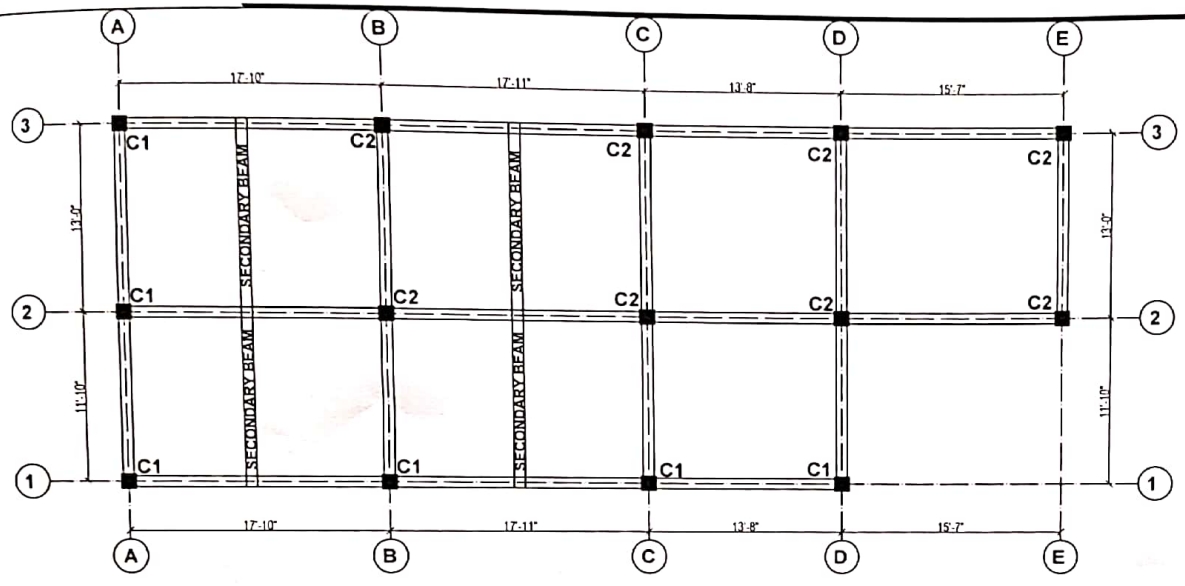
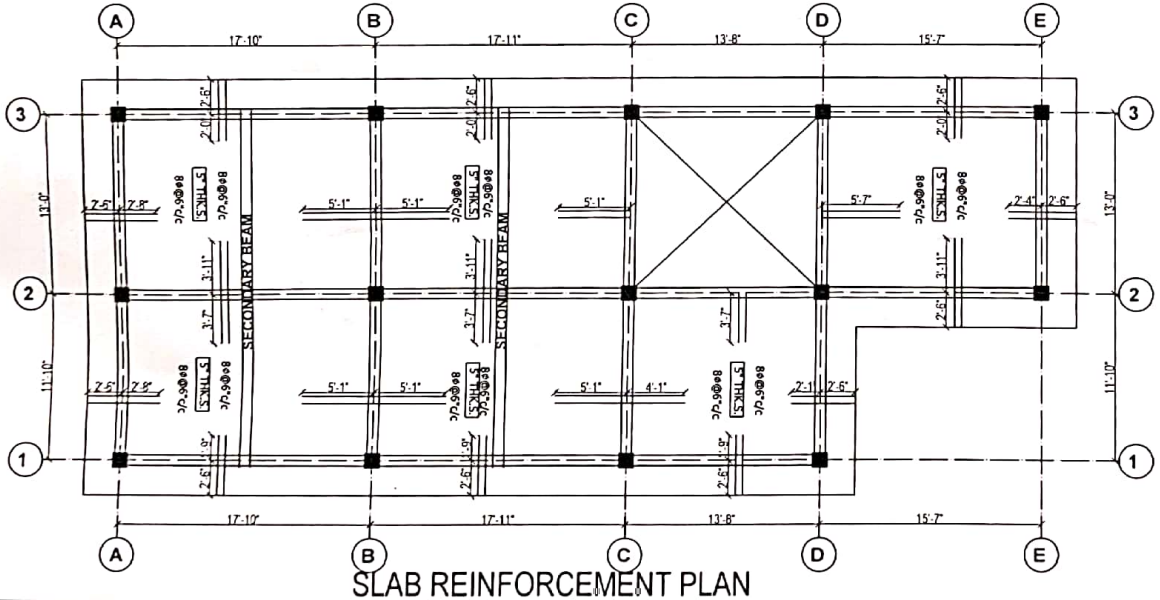


COLUMN AND BEAM PLAN



SLAB REINFORCEMENT PLAN

FOR OFFICAL USE ONLY

धनगढी उप-महानगरपालिका
नगर कार्यपालिकाको कार्यालय
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश, नेपाल

सुदूरपश्चिम प्रदेश
सामाजिक विकास मन्त्रालय
कैलाली, नेपाल
२०७४

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

Er. Deepak Upadhyay
NEC No. 16269 'Civil'
Category "A"

CLINT:

Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

Name Of Consultant :

Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay Nec Regd No - 16269 civil A
Building Area:- 1539 82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- SLAB DETAILS	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No:- 12

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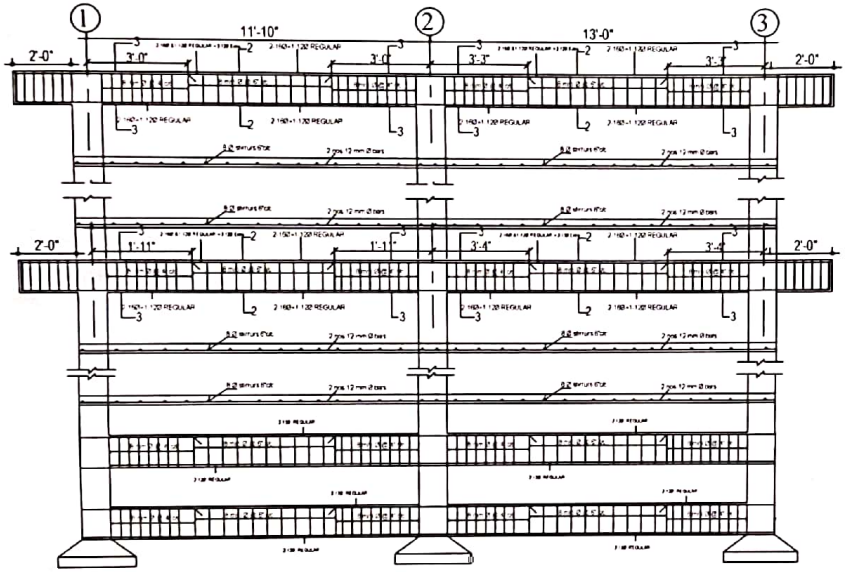
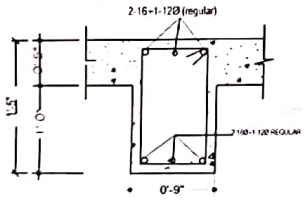
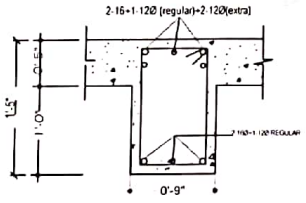


TYPICAL BEAM SECTION ALONG GRID A-A,B-B,C-C,D-D & E-E



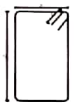
FLOOR BEAM

AT SECTION AT 2-2



FLOOR BEAM

AT SECTION AT 3-3



DETAIL OF BEAM STIRRUPS
SCALE - 1"=6"

Er. Deepak Upadhyay
NEC No. 16269 "Civil"
Category "A"

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उप-महानगरपालिका कार्यालय
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश, नेपाल

प्रदेश सरकार
सामाजिक विकास मन्त्रालय
कैलाली, नेपाल
२०७४

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

Name Of Consultant
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project:-
CAMPUS BUILDING

Checked By:-
Er Deepak Upadhyay
Nec Regd No: 16269 Civil A

Building Area:-
1539 82 Sq .Ft

Drawn By:-
Sudip Chaudhary

Details:-
TYPICAL BEAM SECTION

Scale:
1" = 8'-0"

Date:-
2020

Sheet No:
13

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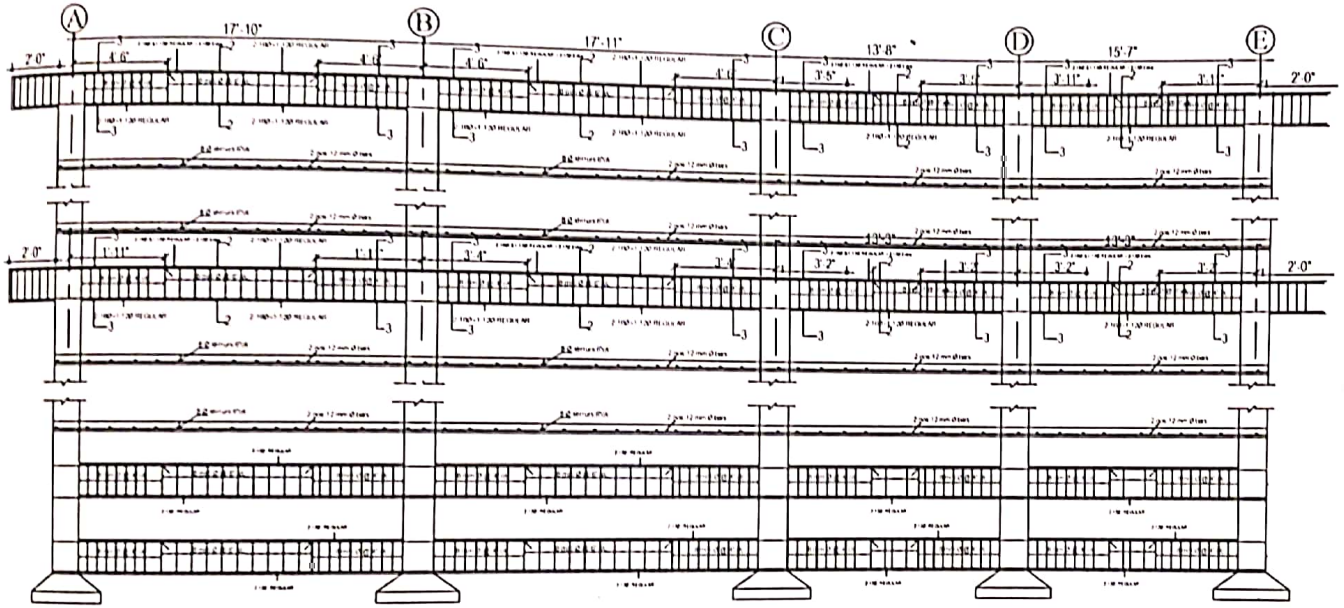
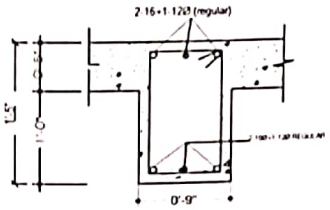
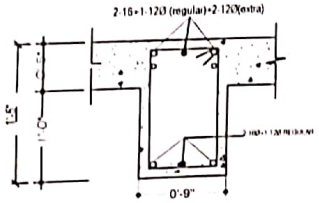


TYPICAL BEAM SECTION ALONG GRID 1-1,2-2,3-3



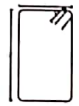
FLOOR BEAM

AT SECTION AT 2-2



FLOOR BEAM

AT SECTION AT 3-3



DETAIL OF BEAM STIRRUPS
SCALE : 1"=6'

FOR OFFICAL USE ONLY

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

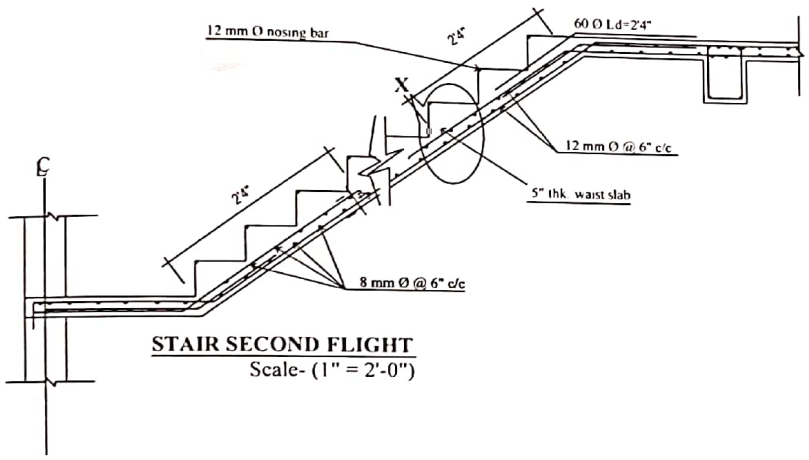
Er. Deepak Upadhyay
NEC No. 16269 'Civil'
Category "A"

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

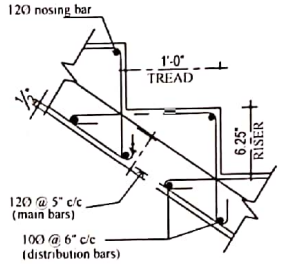
Name Of Consultant :
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er. Deepak Upadhyay
Building Area:- 1539 82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- TYPICAL BEAM SECTION	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 14

Scanned by CamScanner

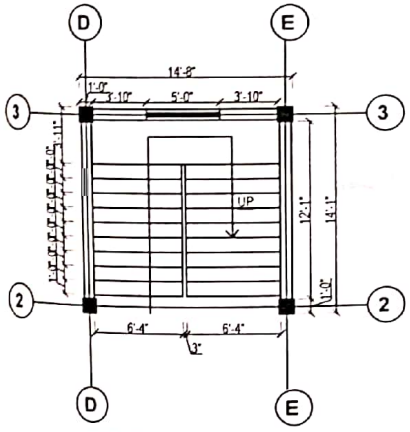


STAIR SECOND FLIGHT
Scale- (1" = 2'-0")

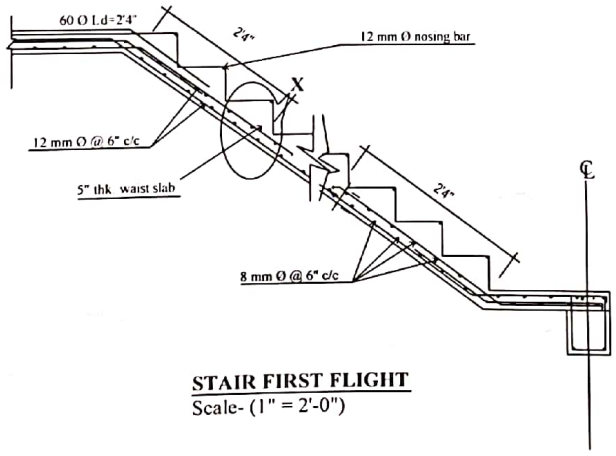


DETAIL AT X
SCALE: 1"=1'-0'

TRADE = 1'-0"
RISE = 6.25"



STAIRCASE PLAN
AREA :-207.52 SQFT



STAIR FIRST FLIGHT
Scale- (1" = 2'-0")

Er. Deepak Upadhyay
NEC No. 16269 'Civil'
Category "A"

FOR OFFICAL USE ONLY

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

Name Of Consultant:
Durga Engineering Construction & Consult Nepal Pvt.Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er. Deepak Upadhyay
Building Area:- 1539 82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- STAIRCASE DETAILS	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No:- 15

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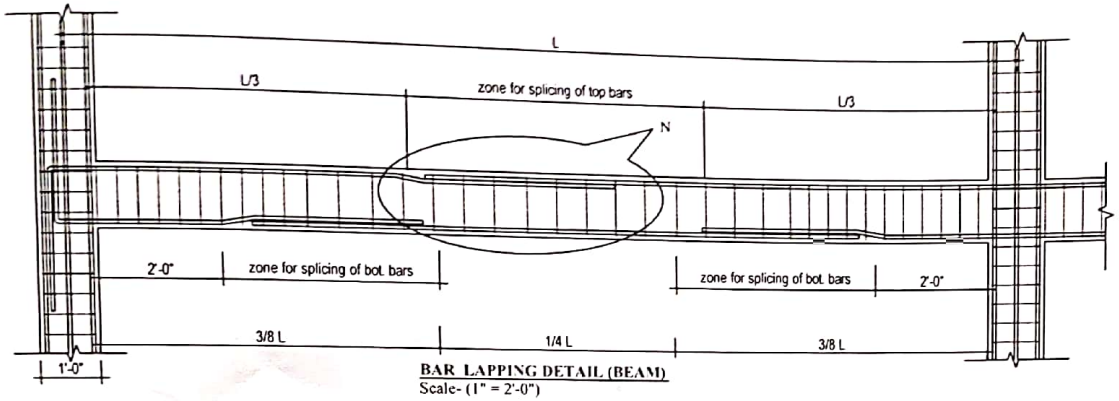
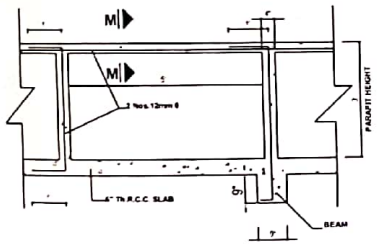
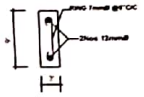


BAR LAPPING DETAIL (BEAM)
Scale- (1" = 2'-0")

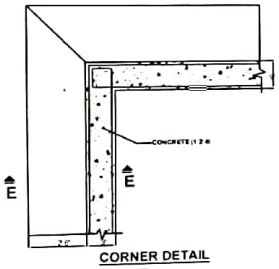
TYPICAL PARAPET BAND DETAIL



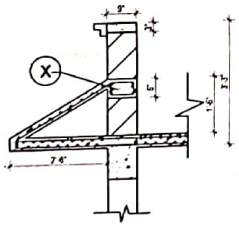
TYPICAL PARAPIT WALL DETAIL



SECTION AT M-M

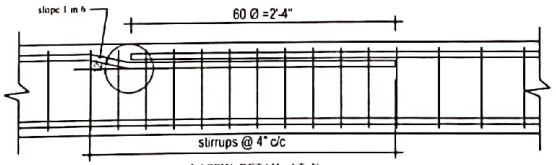


CORNER DETAIL
(PARAPIT)

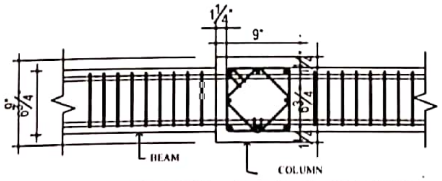


SECTION AT E-E

DETAIL AT X



LAPPIN DETAIL AT N
(Scale-1" = 1'-0")



BEAM AND COLUMN JUNCTION DETAIL (12" x 12") COLUMN
(Scale-1" = 1'-0")

Er. Deepak Upadhyay
NEC No. 16269 'Civil'
Category "A"

FOR OFFICAL USE ONLY

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali

Name Of Consultant :
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project:- CAMPUS BUILDING	Checked By:- Er Deepak Upadhyay
Building Area:- 1539 82 Sq .Ft	Drawn By:- Sudip Chaudhary
Details:- LAPPING DETAILS	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No: 16

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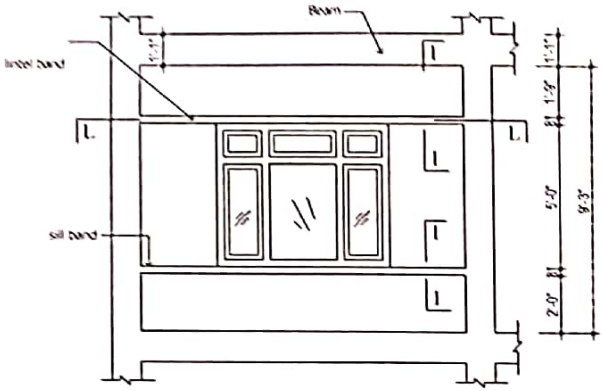
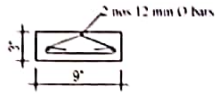
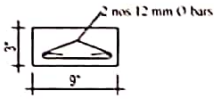


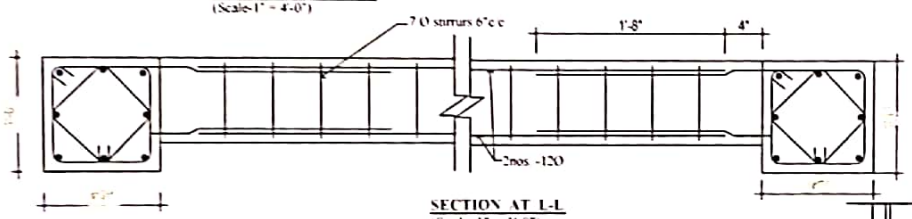
ELEVATION OF WALL
(Scale-1" = 4'-0")



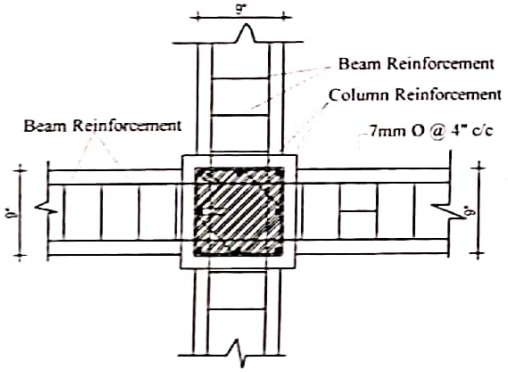
DETAIL OF SILL PARAPET BAND AT L1
(Scale-1" = 1'-0")



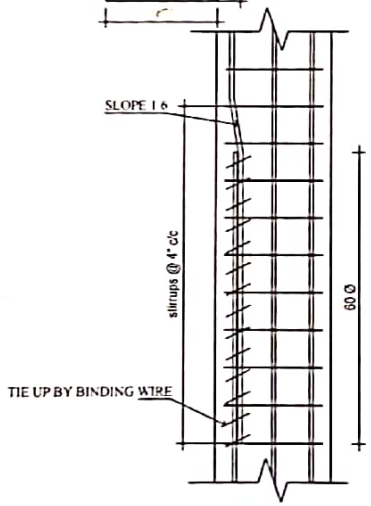
DETAIL OF LINTEL BAND AT L1
(Scale-1" = 1'-0")



SECTION AT L-L
(Scale-1" = 1'-0")



SECTIONAL PLAN OF BEAM COLUMN JOINT DETAIL
Scale- (1" = 1'-0")



LAPPING DETAIL AT M
(Scale-1" = 1'-0")

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Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civ
Category: "A"

डिभिजनल इन्जि

Er. Deepak Upadhyay
NEC No. 16269"Civil"
Category "A"

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

Name Of Consultant
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project: CAMPUS BUILDING	Checked By:- Er. Deepak Upadhyay
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sudip Chaudhary

Details:- SECTION DETAILS

Scale: 1" = 8'-0"

Date:- 2020

Sheet No: 17

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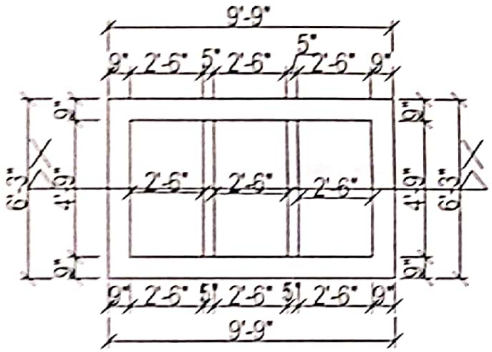
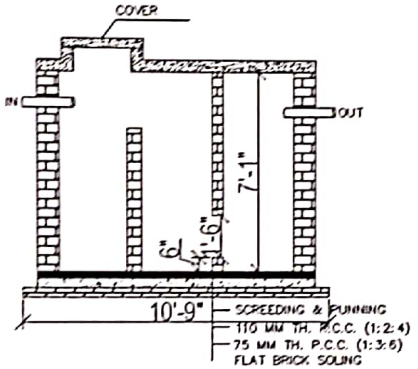
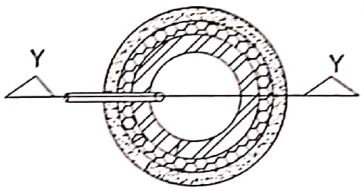


SEPTIC TANK PLAN

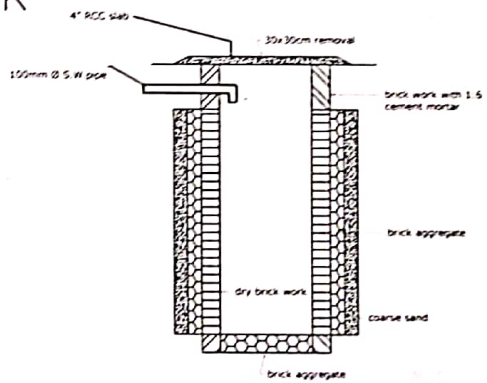


SECTION OF SEPTIC TANK

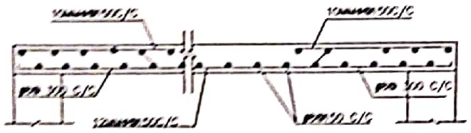
SOAKPIT



PLAN



SECTION AT YY



R.C.C.(1:2:4) SLAB COVER DETAIL FOR SEPTIC TANK

R.C.C.(1:2:4) BASE SLAB DETAIL

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Er. Upendra Prasad Bhatta
NEC Regd. No: 13339*Civil
Category: "A"

डिभिजनल इन्जिनियर

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali .

Name Of Consultant:
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project: CAMPUS BUILDING

Checked By:- Er. Deepak Upadhyay

Building Area:- 1539.82 Sq.Ft

Drawn By:- Sudip Chaudhari

Details:- SEPIC TANK & SOAK PIT

Scale: 1" = 8'-0"

Date:- 2020

Sheet No: 18

Er. Deepak Upadhyay
NEC No. 16269
Category "A"

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Notes :-

1. Minimum concrete grade to be M20.
2. Grade of reinforcement steel to be FE500.
3. Cover to reinforcement shall not be less than 50mm in foundation, 40mm in column, 25mm in Beam and 20mm in Slab & Stair.
4. All lateral ties in column to be 8mm dia. at 100mm (4") centers.
5. All stirrups in Beam to be 2 legged 8 mm dia
6. Hooks in lateral ties and stirrups shall be bent at 135°and hook length shall not be less than 3.5".
7. Lapping of longitudinal reinforcement in columns shall be done at the mid hight in each story.
8. In Beam & Slab no bottom reinforcement shall be lapped near mid-span and no top reiinforcement shall be lapped near support.
9. All chairs in slab to be 10mm at 500mm.
10. Development / lap length (ld.) for bars. (for m25 concrete & fe 500)

BAR DIA-(mm)	8	10	12	16	20	25	28	32
Ld(inch)	18	22	26	35	45	55	65	75

10. Only written dimensions to be followed, drawings not to be measured.
11. Any discrepancy or omission in the drawing if found shall be reported immediately to the site engineer.

Er. Deepak Upadhyay
NEC No. 16269 "Civil"
Category "A"

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प्रदेश नं. १ नगर समन्वय समिति
धनगढी, कैलाली
सुदूरपश्चिम प्रदेश,

सुदूरपश्चिम प्रदेश
सामाजिक विकास मन्त्रालय
कैलाली, नेपाल
२०७४

Er. Upendra Prasad Bhatta
NEC Regd. No: 13339"Civil"
Category: "A"

डिभिजनल इन्जिनियर

CLINT:
Provincial Government
Sudurpashim Provience
Ministry of Social Development
Dhangadhi Kailali

Name Of Consultant:
Durga Engineering Construction & Consult Nepal Pvt Ltd., Doti

Name Of Project: CAMPUS BUILDING	Checked By:- Er. Deepak Upadhyay
Building Area:- 1539.82 Sq.Ft	Drawn By:- Sudip Chaudhary
Details:- NOTES	
	Scale: 1" = 8'-0"
Date:- 2020	Sheet No:- 19

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