

polytechnic university



Engineering and Technology
Architecture Dept.

ate Project

WADI ALHARIA ROAD

ed by :

KHALED A. SHUKEIR

supervisor

DE SHABANAH

palestine polytechnic



*College of Engineering and
/Civil & Architecture*

Graduate Pro

ALA' JOURE - WADI ALHARIA

Desined by :

SULIEMAN M. AJWEH

Supervisor

Eng FAIDE SHABAN

Contents

Title

Traverse

Existing Road Before Design

New Design of Street

Plane and Profiles

Typical Cross Section

Cross Section of Street

The Mass Curves

Al'aouri Junction

Suggested Roads

Suggested Design
of PPU Entrance



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DRAWING TITLE :

TABLE OF CONTENT

Supervisor :

Eng . FAIDI SHABANAH

Designed by :

Suleiman Ajweh

Khaled Shukeir

DATE

30/05/2007

Table of Contents

SHEET NO.	Title
A0	Travers
A1	Existing Road Be
A2	New Design of
A3-6	Plane and P
A7	Typical Cross
A8-11	Cross Section
A12-13	The Mass C
A14	Al'ajouri Ju
A15	Suggested
A16	Suggested I of PPU Entr



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GPS POINTS

CENTER LINE OF THE ROAD



BULDINGS

EXISTENCE ASPHALT

CONCRET WALLS

DRAWING TITLE :

TRAVERSE

Supervisor :

Eng. FALDI USMANAH

Desined by :

KHALED A. SHUKR

SULEMAN M. AJWEH

SCALE

NO.OF
DRAW

DATE

To Fit

AC

23/05/2007

Bench Marks Coordinates

<i>Point</i>	<i>Easting</i>	<i>Northing</i>	<i>Description</i>
1	158673.4971	102590.415	ST.1
2	158629.426	101933.9035	ST.2
3	158651.6872	102028.9613	ST.3
4	158646.1467	102196.379	ST.4
5	158708.6675	102337.1475	ST.5
6	158709.0911	102471.6795	ST.6
A	158807.533	101824.185	Control point on A
B	158568.374	101505.006	Control point on B



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DRAWING TITLE :

Existing Road Before Design

Supervisor :

Eng. FADEL CHABAN

Designed by :

KHALED A. SHUKR

SULHEMAN M. ALWEH

SCALE

NO. OF
DRAW

DATE

To Fit

A1

30/05/2007





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①	
②	
③	
④	
⑤	
⑥	
⑦	
⑧	
⑨	
⑩	
⑪	

DRAWING TITLE :

designed road

Supervisor :

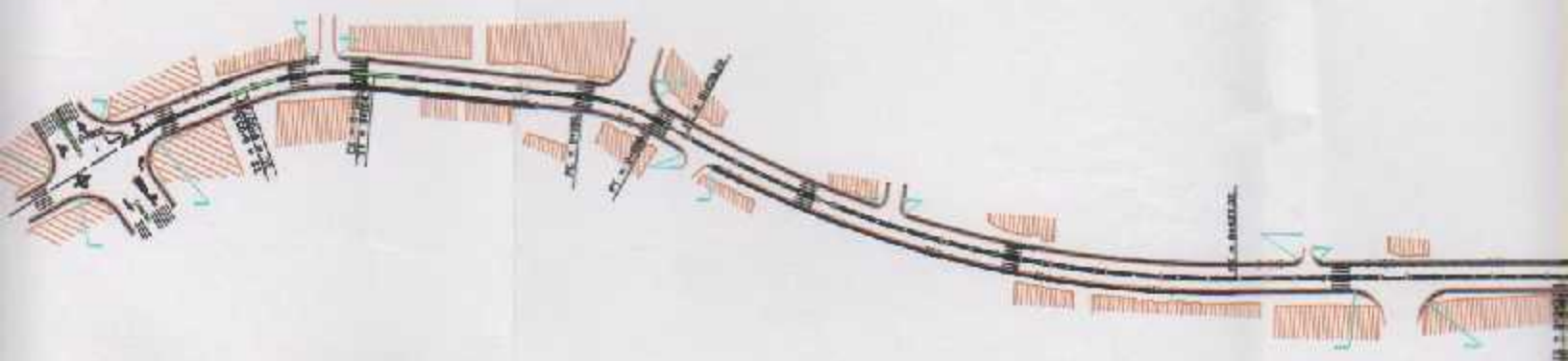
Eng. Faide Shabannah

Designed by :

Khaled Shukeir

Sulieyman Ajweh

SCALE	NO. OF DRAW	DATE
To Fit	A2	30/05/2007





1.03	0.00	913.48	912.45	400
0.9	0.00	910.64	909.74	440
0.8	0.00	907.8	907	480
0.26	0.00	904.69	904.43	520



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DRAWING TITLE :

Plane And Profile

Supervisor :

Eng . Faide Shabaneh

Designed by :

Khaled Shukeir
Sulieman Ajweh

SCALE

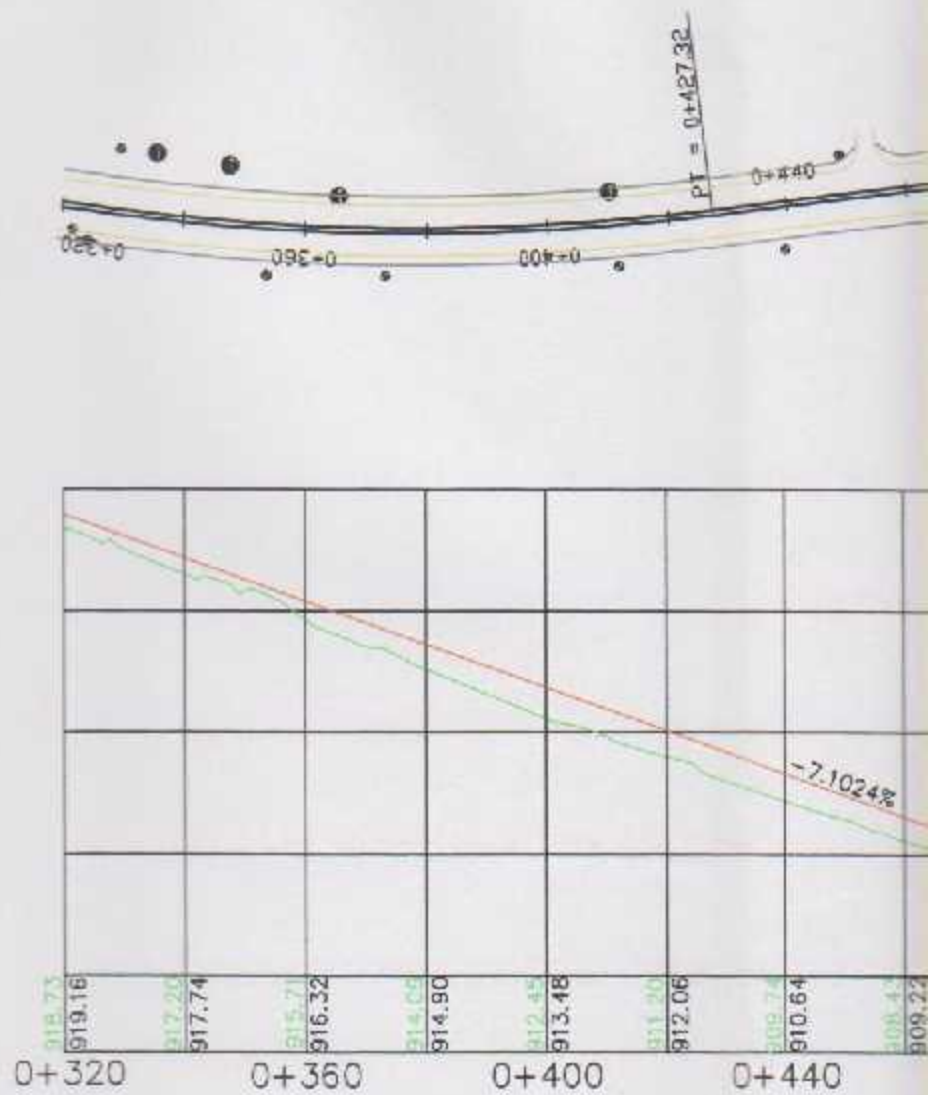
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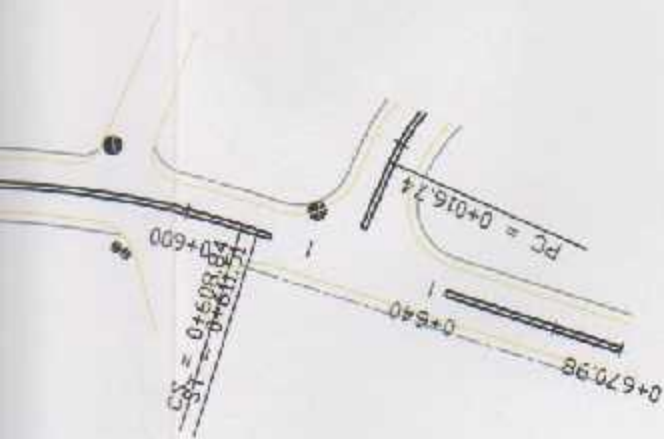
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A3

30/05/2007



chainage	320	360	400	440
reduce level	918.73	915.71	912.45	909.74
Formation level	919.16	916.32	913.48	910.64
Cut	0.00	0.00	0.00	0.00
Fill	0.43	0.61	1.03	0.9



0.77	0.00	899.28	898.51	600
0.54	0.00	896.43	895.89	640
0.00	0.00	849.23	894.23	670.89



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Water Construction Project



DRAWING TITLE :

Plane And Profile

Supervisor :

Eng. Faide Shabanah

Designed by :

Khaled Shukeir

Suliemen Ajweh

SCALE

1:500

NO. OF
DRAW

A4

DATE

30/06/2007

0+520

SE = 0.24533
0.24533

0.500

0.500
0.500

904.43
904.98
903.03
903.54
901.63
902.12
900.18
900.70
898.51
899.28
896.92
897.85

0+520

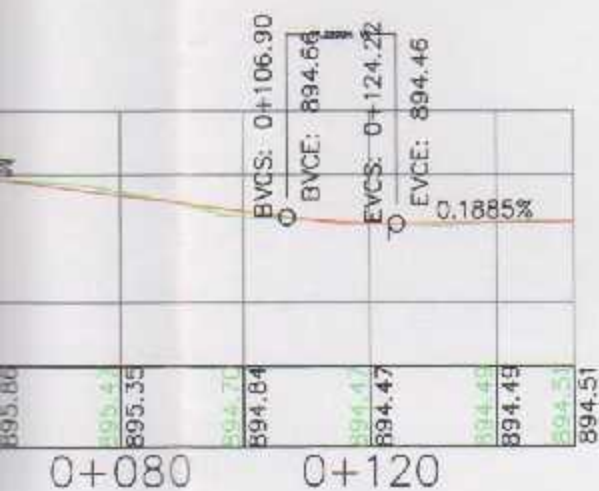
0+560

0+600

chainage	520	560	600
reduce level	904.43	901.63	898.51
Formation level	904.69	902.12	899.28
Cut	0.00	0.00	0.00
Fill	0.26	0.49	0.77



LOW POINT ELEV = 894.46
 LOW POINT STA = 0+123.03
 PVI STA = 0+115.56
 PVI ELEV = 894.44
 A.D. = 2.7389
 K = 6.3271



0.00	0.12	895.35	895.47	80
0.00	0.00	894.47	894.47	120
0.00	0.00	894.51	894.51	154.16



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DRAWING TITLE :

Plane And Profile

Supervisor :

Eng . Faide Shabanah

Desined by :

Khaled A. Shukeir
 Sulieman M. Ajweh

SCALE

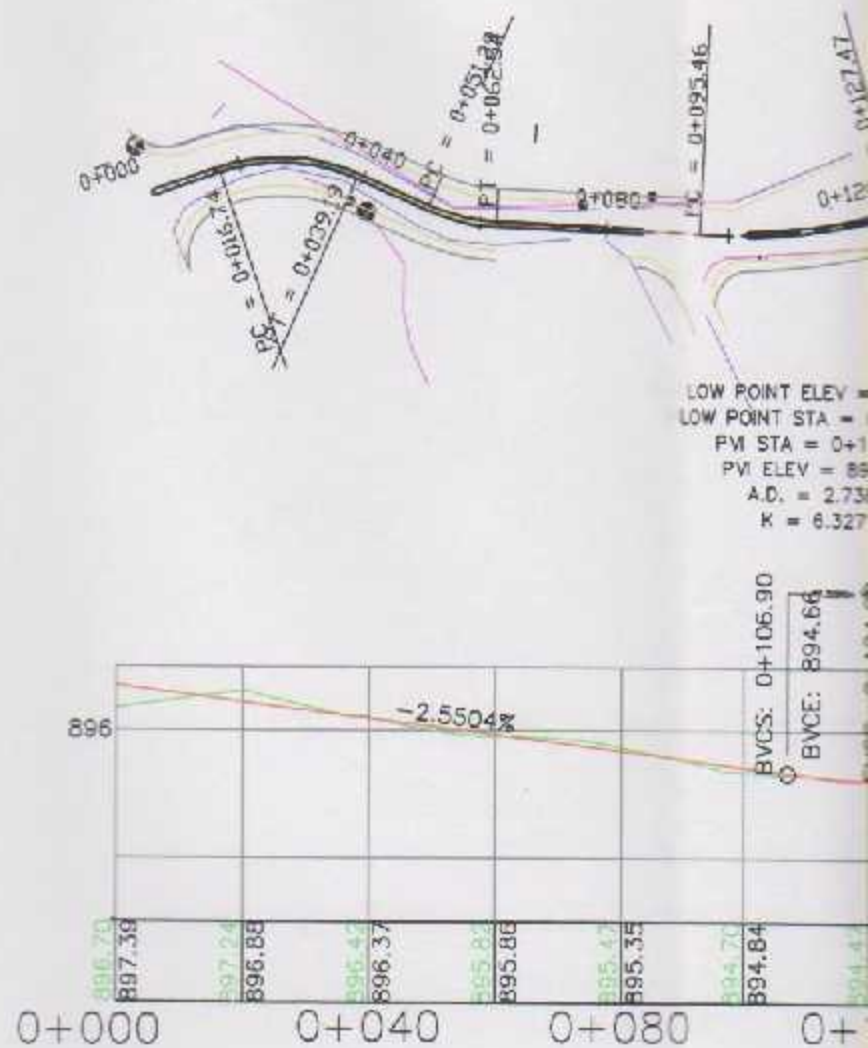
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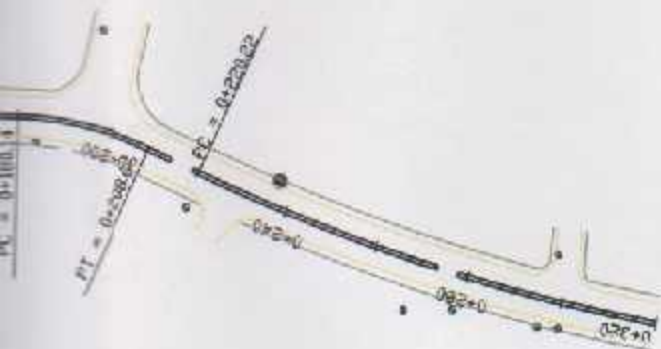
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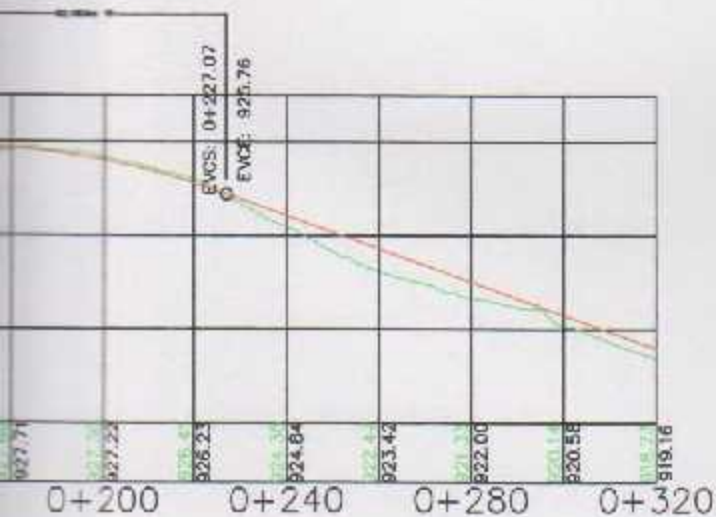
50/06/2007



chainage	0.0	40	80
reduce level	896.7	896.42	895.47
Formation level	897.39	896.37	895.35
Cut	0.00	0.05	0.12
Fill	0.69	0.00	0.00



POINT ELEV = 927.77
 POINT STA = 0+170.66
 VM STA = 0+195.99
 PM ELEV = 927.87
 A.D. = -7.8254
 K = 7.9434



	200		
0.00	0.14	927.22	927.36
0.49	0.00	924.84	924.35
0.67	0.00	922.00	921.33
0.43	0.00	919.16	918.73
			320



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DRAWING TITLE :

Plane And Profile

Supervisor :

Eng . Faide Shabanah

Designed by :

Khaled Shukeir
 Suleiman Ajweh

SCALE

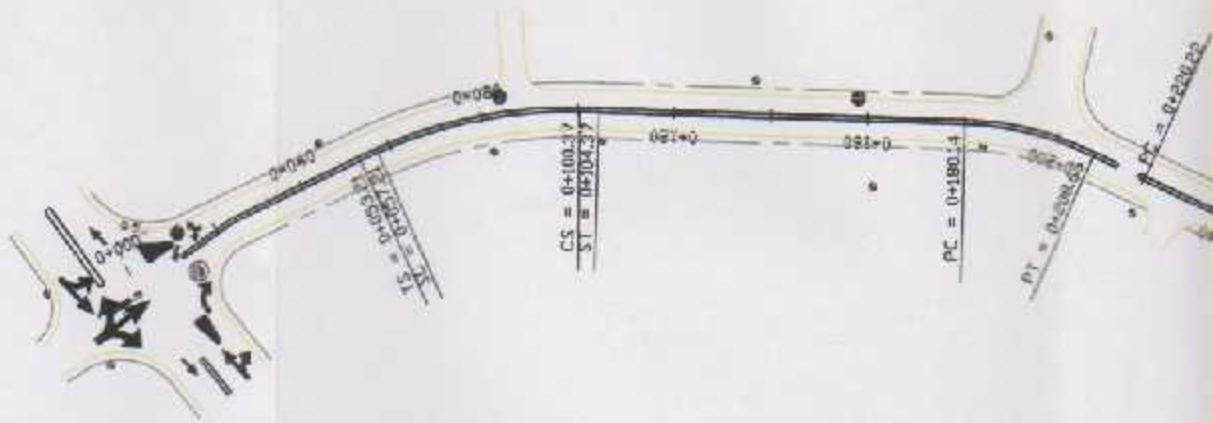
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NO.OF
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As

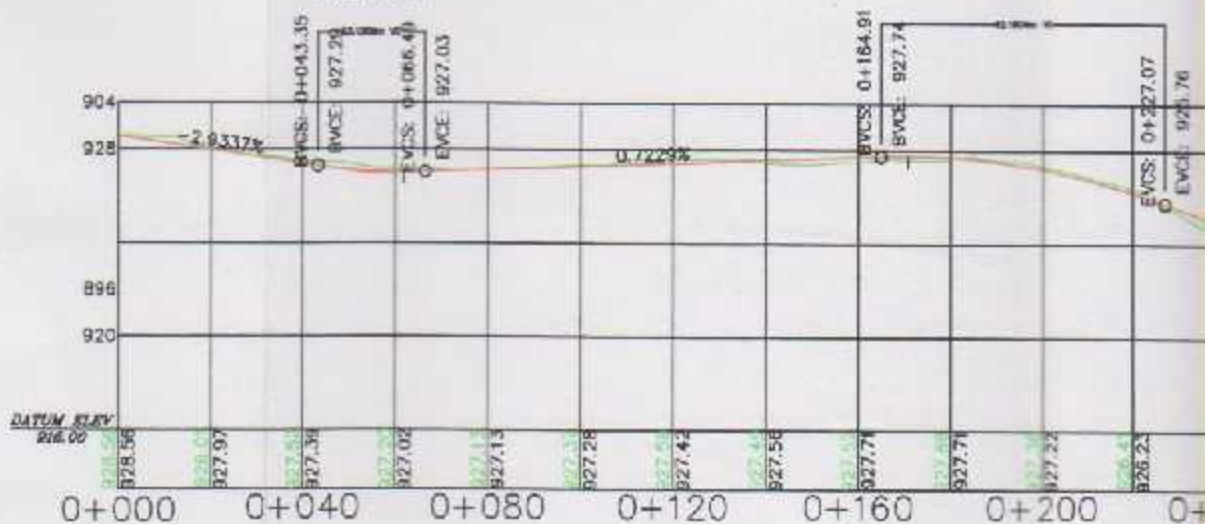
DATE

30/06/2007



LOW POINT ELEV = 927.02
 LOW POINT STA = 0+061.91
 PM STA = 0+054.92
 PM ELEV = 926.95
 A.D. = 3.6566
 K = 6.3271

HIGH POINT ELEV = 927.77
 HIGH POINT STA = 0+170.68
 PM STA = 0+185.69
 PM ELEV = 927.97
 A.D. = -7.8254
 K = 7.9434



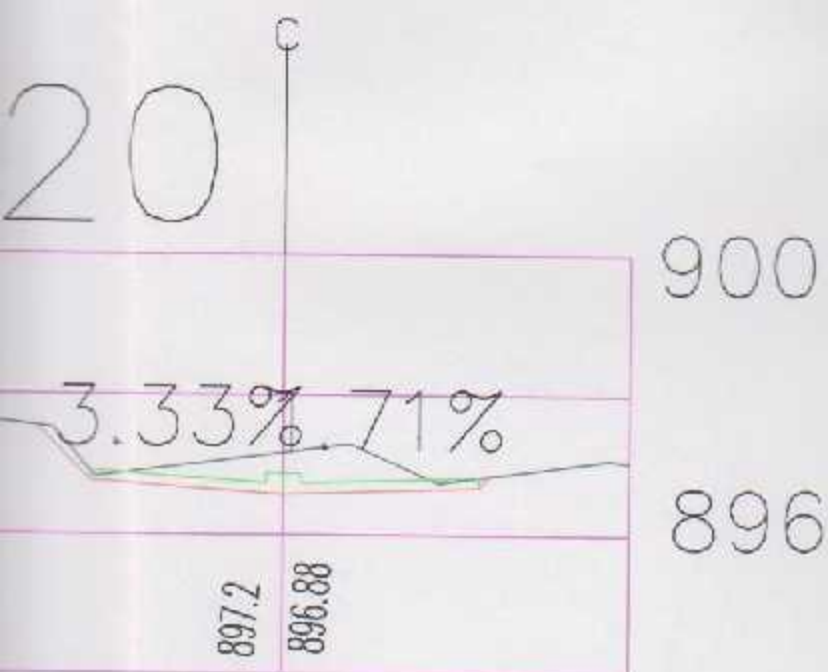
chainage						
	0.00	40	80	120	160	200
reduce level	928.56	927.52	927.13	927.59	927.52	927.36
Formation level	928.56	925.39	927.13	927.42	927.71	927.22
Cut	0.00	0.13	0.00	0.17	0.00	0.14
Fill	0.00	0.00	0.00	0.00	0.19	0.00

050



928

Area of fill = 0.0 20



0 Area of fill = 0.0

ection on Curves



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DRAWING TITLE :

Typical Cross Section

Supervisor :

Eng. Faideh Shabanah

Designed by :

Khaled Shukeir
Suleiman Ajweh

SCALE

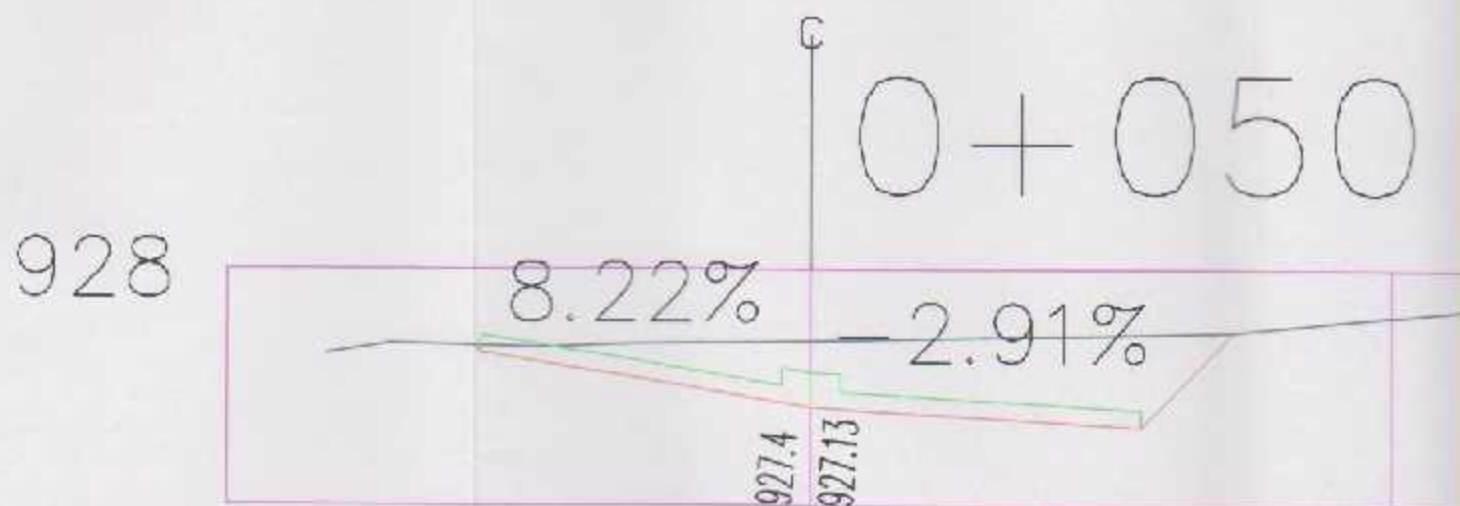
NO. OF
DRAW

DATE

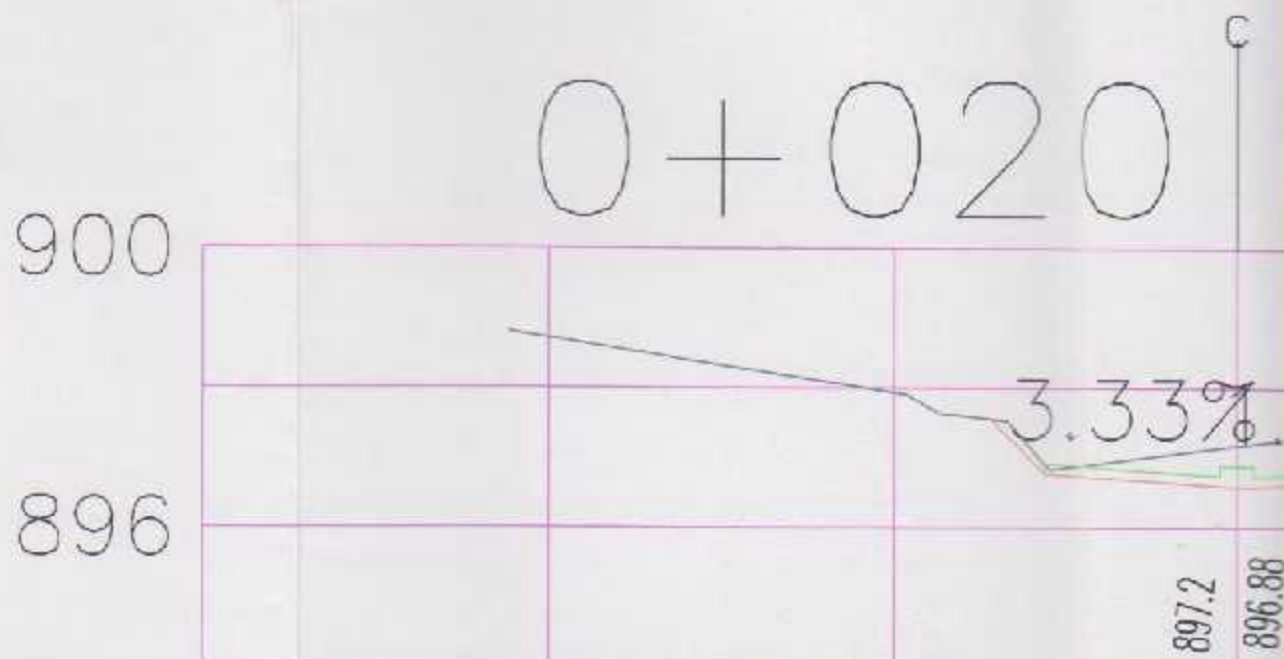
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A7

30/05/2007



Area of cut=6.16 0 Area of



Area of cut=⁻²⁰6.6 0

Typical Cross Section

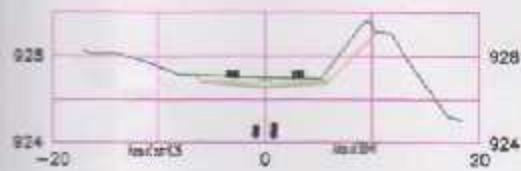


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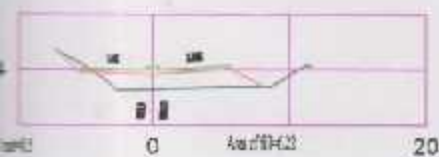
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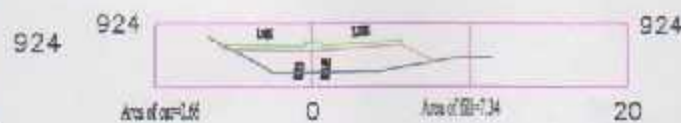
0+220.22



0+250



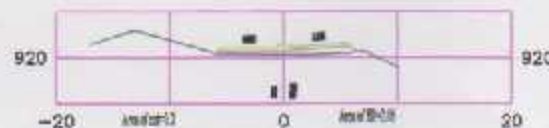
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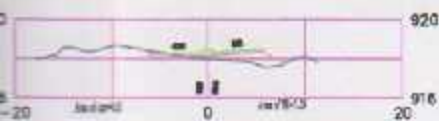
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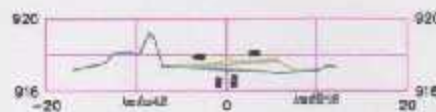
0+300



0+330



0+340



0+350



DRAWING TITLE :

CROSS SECTIONS

Supervisor :

Eng . FAIDE SHABANAH

Designed by :

SULIEMAN M. AJWEH
KHALED A. SHUKEIR

SCALE

NO. OF
DRAW

DATE

To Fit

AS

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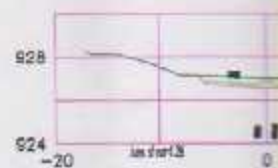
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0+200



0+210



0+230



0+240



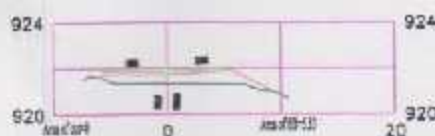
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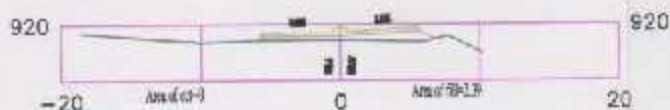
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0+290



0+310



0+320



0+330



0+350



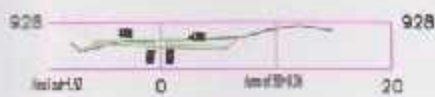
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0+053.21



0+090



0+100



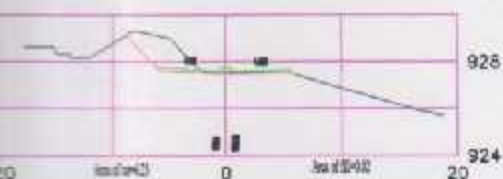
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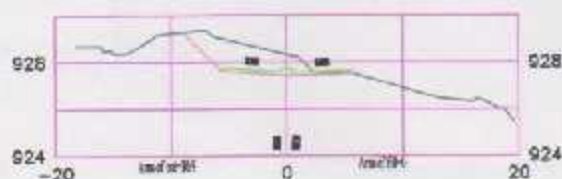
0+104.37



0+175



0+180.14



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DRAWING TITLE :

CROSS SECTIONS

Supervisor :

Eng . FAIDE SHABANAH

Designed by :

SULIEMAN M. AJWEH
KHALED A. SHUKEIR

SCALE

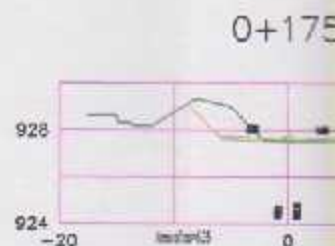
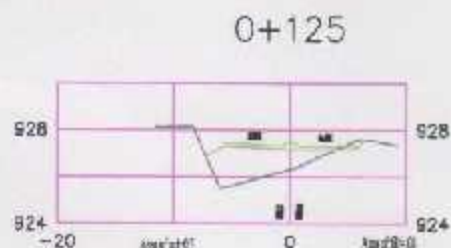
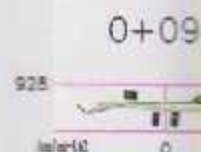
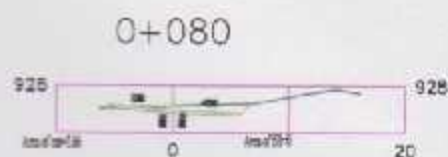
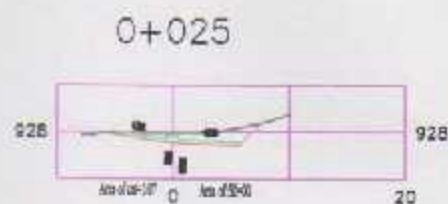
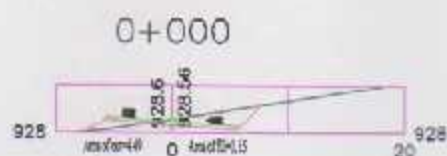
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AS

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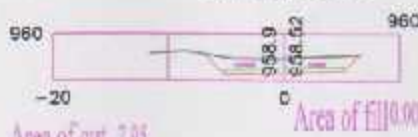
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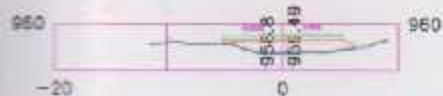
0+065.02



Area of cut 7.93

Area of fill 0.00

0+090



Area of cut 0.00

Area of fill 4.72

0+098.50



Area of cut 0.00

Area of fill 8.06

0+120



Area of cut 0.00

Area of fill 6.77

0+130



Area of cut 0.00

Area of fill 9.45

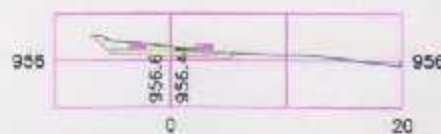
0+160



Area of cut 0.81

Area of fill 0.00

0+170



Area of cut 4.385

Area of fill 0.00

DRAWING TITLE :

Cross Sections

Supervisor :

Eng. Faide Shabanah

Designed by :

Khaled A. Shukeir

Sulaiman M. Ajweh

SCALE

NO. OF

DATE

1:500

A11

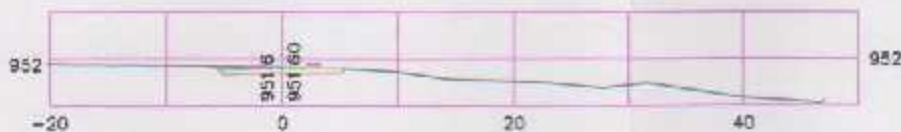
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80



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0+000



Area of cut 2.79

Area of fill 0.00

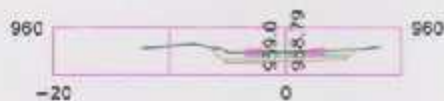
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Area of cut 8.44

Area of fill 0.00

0+070



Area of cut 4.83

Area of fill 0.00

0+080



Area of cut 0.3901

Area of fill 0.44

0+100



Area of cut 0.00

Area of fill 8.36

0+116.35



Area of cut 0.00

Area of fill 6.6

0+140



Area of cut 0.00

Area of fill

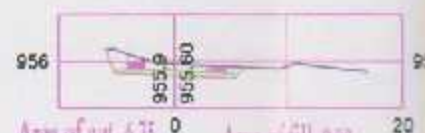
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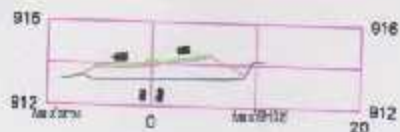
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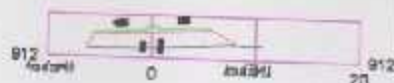
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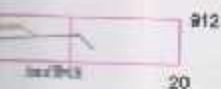
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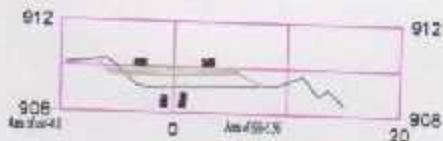
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0+420



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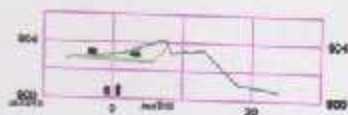
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0+500



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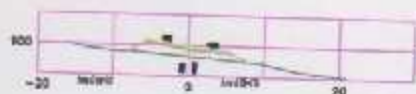
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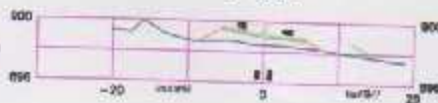
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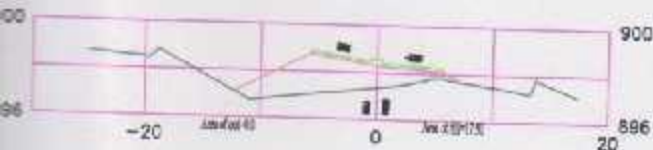
0+590



0+600



0+610



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DRAWING TITLE :

CROSS SECTIONS

Supervisor :

Eng. FAIDE SHABANAH

Designed by :

SULIEMAN M. AJWEH

KHALED A. SHUKR

SCALE

NO. OF

DRAW

DATE

To File

A10

30/06/2007

0+360



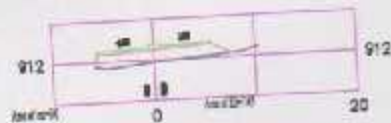
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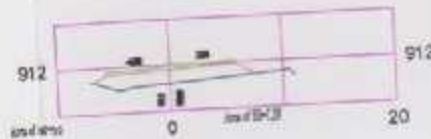
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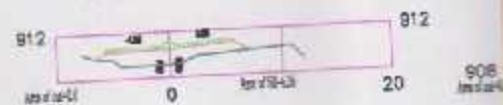
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0+420



0+427.32



0+500



0+525



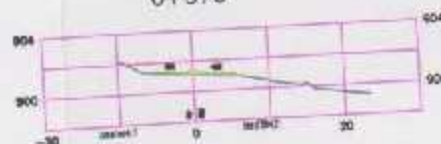
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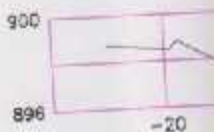
0+570



0+580



0+608.84





4 5 6 7 change

0 0+080 0+100 0+120 0+140



Palestine Polytechnic University

Engineering College / Civil & Architectural Dept.

The Graduate Project

DRAWING TITLE :

Mass

Supervisor :

Eng. FATEH SUHAMAN

Designed by :

KHALED A. SHUKR

SULHEMAN M. AJWEH

SCALE

NO. OF
DRAW

DATE

To Fit

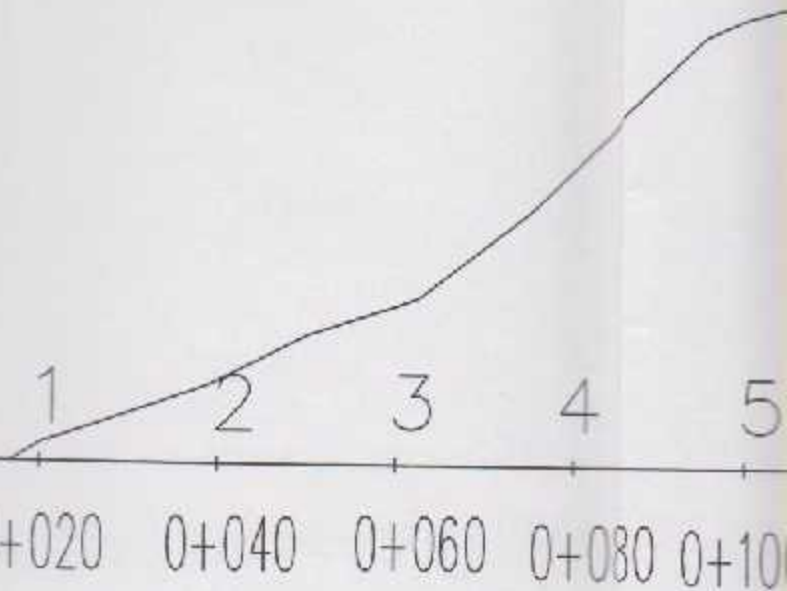
A12

30/06/2007

CUBIC METERS

0+000 0+020 0+040 0+060 0+080 0+100

1 2 3 4 5





Palestine Engineering University

Engineering College / Civil & Architecture Dept.

The Graduate Project

DRAWING TITLE :

mass

Supervisor :

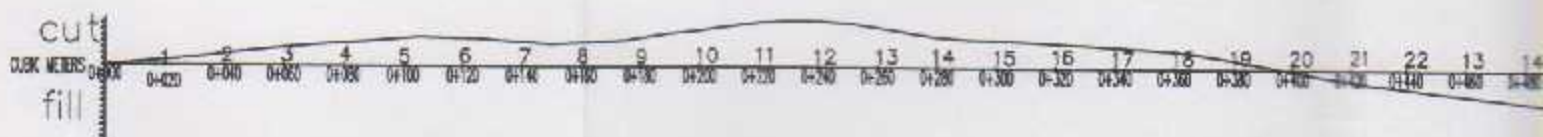
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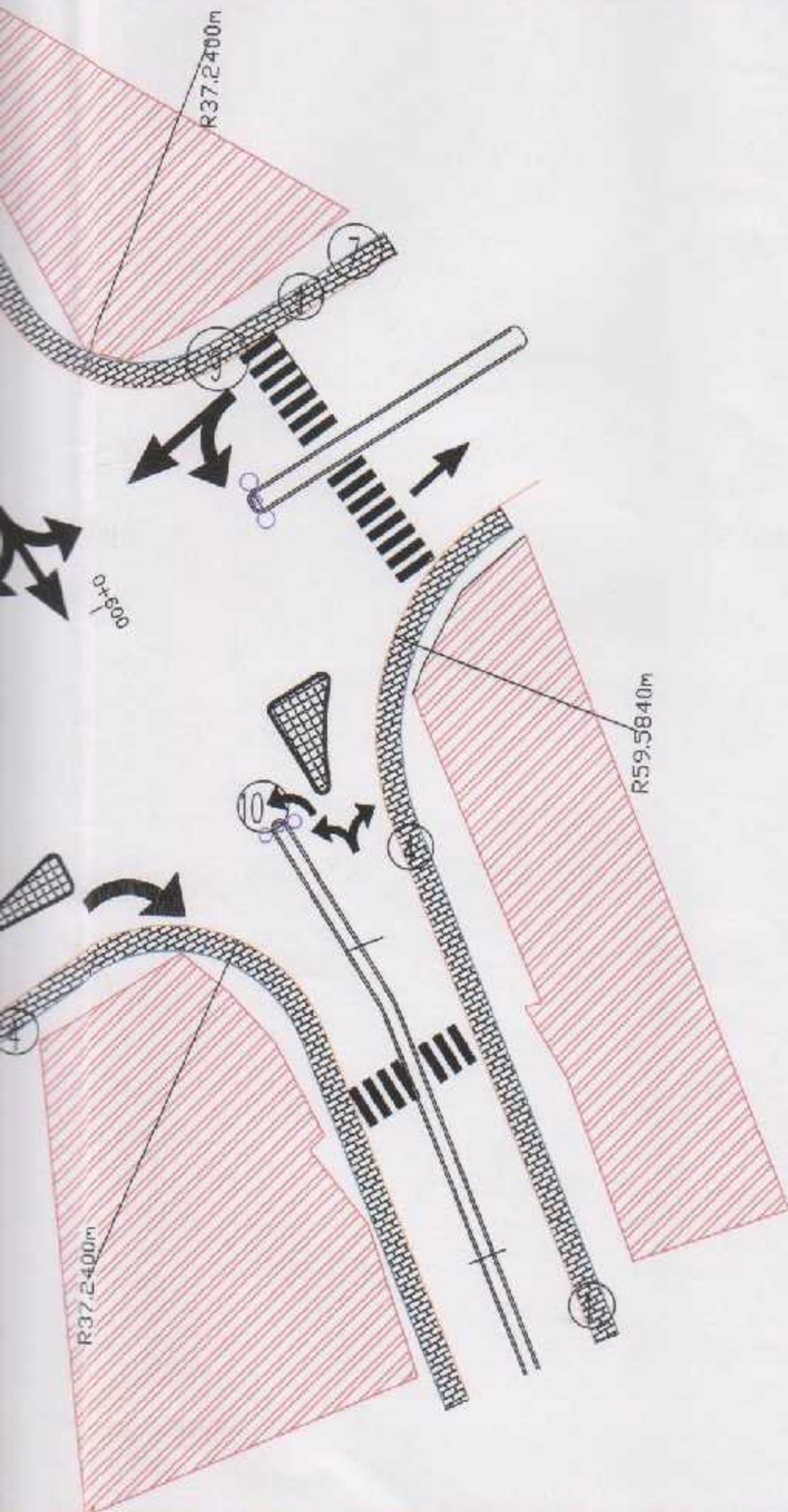
Designed by :

KHALED A. SHUKRIN

SULEMAN M. AJWEH

SCALE	NO. OF DRAW	DATE
To Fit	A13	30/05/2007





Politeknik Universiti Malaysia Sarawak

Engineering College / Civil & Architectural Dept.

The Graduate Project

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⑤



DRAWING TITLE :

Al'ajouri Junction

Supervisor :

Eng . Faide Shabanah

Designed by :

Khaled A. Shukeir

Sulaiman M. Ajweh

SCALE

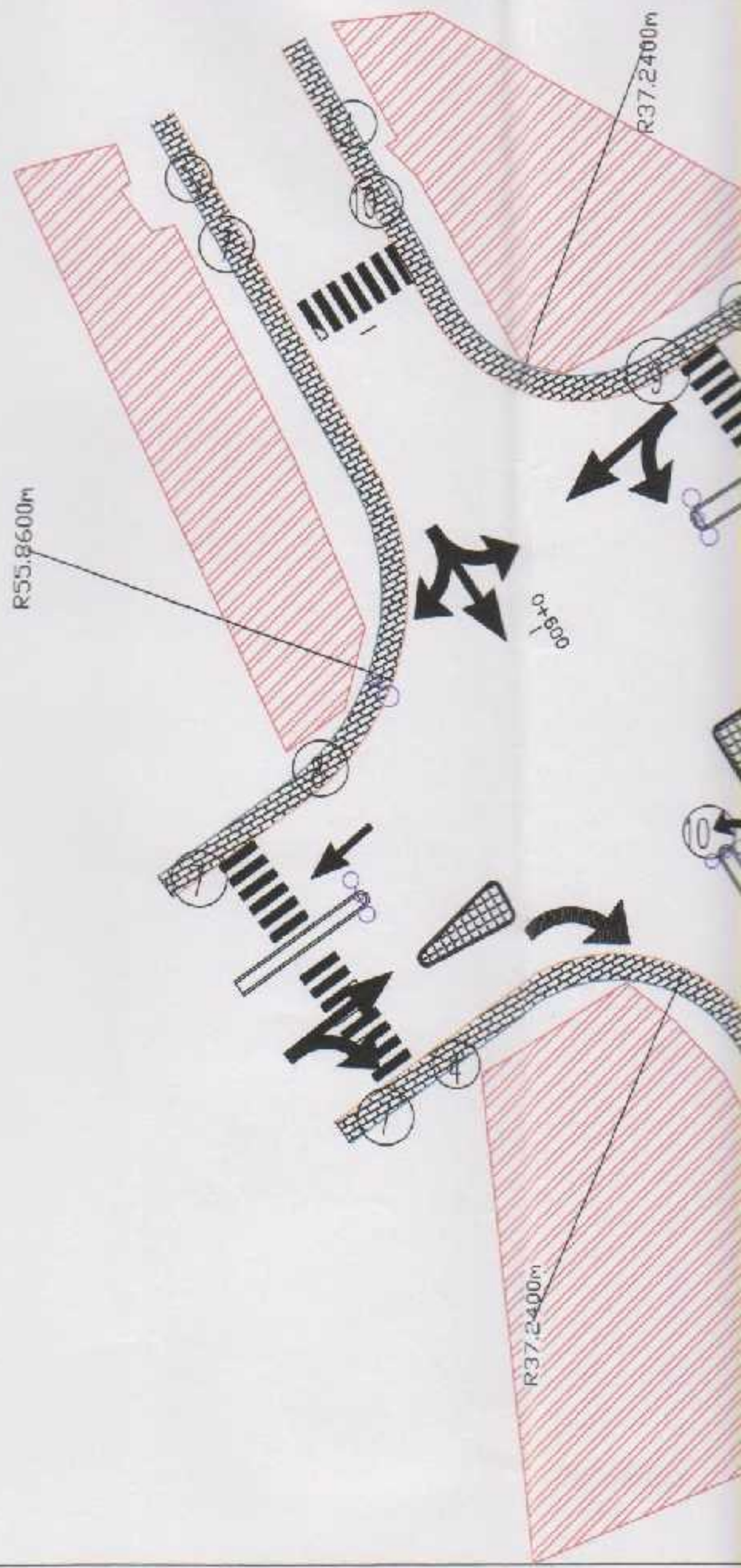
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DATE

23/06/2007

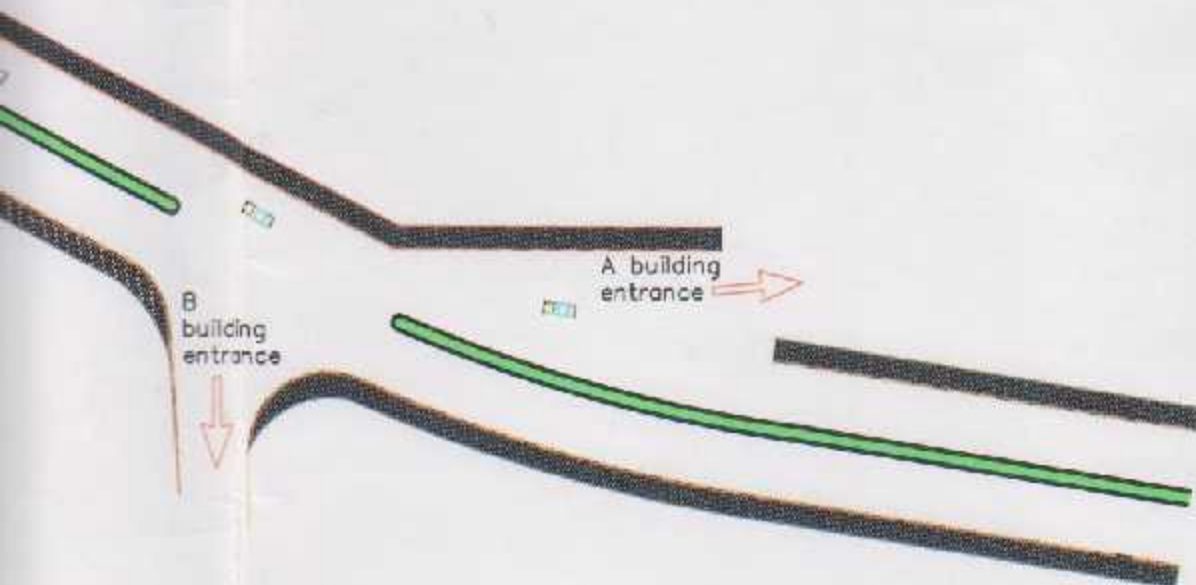




Palestine Polytechnic University

Engineering College / Civil & Architecture Dept.

The Graduate Project



DRAWING TITLE :

Suggested Design

Supervisor :

Eng. Faide Shabanah

Designed by :

Khaled Shukeir
Suliman Ajweh

SCALE

NO. OF
DRAW

DATE

To fit

A16

30/06/2007

