

Palestine Polytechnic University
College of Engineering and Technoloqe
Surveying and Geomatics Engineering

Project Name :

Design of the road connecting Kanar and Bir al-hammam

(Dura Magistrate Court Street)

ROAD LENGTH: st 0+00 To st 2+162

Preparation of Students:

Ahmad Nammura

Arafat Hanani

Fadi Younis

Hamdan Alsada

Supervised by:

Dr. Mutaz Qafisheh

2025

LIST OF DRAWINGS

GENERAL

..... COVER	
G.01 DRAWING LIST
G.02 LOCATION
G.03 LOCATION
G.04 ABBREVIATIONS AND SYMBOLS

CIVIL

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2 From St 0+120To St 0+240 Plan &profile	13 From St 1+440To St 1+560 Plan &profile
3 From St 0+240To St 0+360 Plan &profile	14 From St 1+560To St 1+680 Plan &profile
4 From St 0+360To St 0+480 Plan &profile	15 From St 1+680To St 1+800 Plan &profile
5 From St 0+480To St 0+600 Plan &profile	16 From St 1+800To St 1+920 Plan &profile
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TYPICAL CROSS SECTIONS

T.C.S 001 Typical Cross Section
T.C.S 002 Typical Cross Section
T.C.S 003	..... Typical Cross Section
T.C.S 004	..... Typical Cross Section
T.C.S 005	..... Typical Cross Section
T.C.S 006	..... Typical Cross Section
T.C.S 007	..... Typical Cross Section
T.C.S 008	..... Typical Cross Section
T.C.S 009	..... Typical Cross Section
T.C.S 010	..... Typical Cross Section
T.C.S 011	..... Typical Cross Section


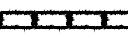

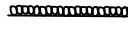
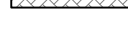




SPECIAL DETAILS

D.T 1	..... Curb Stone Details
D.T 2	..... Median and Sidewalk Details
D.T 3	..... HandRails details
D.T 4	..... Detail of typical reflective studs & Road Marking
D.T 5	..... Boulders Wall details
D.T 6	..... Concrete Wall , Stone Wall , Concrete Beam and Concrete Shoulders details
D.T 7	..... Road Signs details
D.T 8	..... Road Signs details

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND	-----
PROPOSED PGL	-----
LEGEND AND ABBREVIATIONS :	
CENTER LINE	-----
EXISTING PAVMENT ROAD	-----
EXISTING BUILDING	
EXISTING CONCRETE WALL	=====
EXISTING STONE WALL	=====
PROPOSED STONE BLOCKS	
PROPOSED CONCRETE WALL	
PROPOSED STONE WALL	
INTERLOCK	
PROPOSED CURVE STONE	-----
PROPOSED HAND RAILS	-----
PROPOSED CONCRETE GRAVITY WALL	=====
ELECTRIC POLE	EP 
TELEPHONE POLE	TP 
HIGH VOLTAGE POLE	HEP 
WATER MANHOLE	

Palestine Polytechnic University



Designed By:
Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr. Mutaz Qafisha

Project Name :
شارع كتار - راه الحمام / محطة صلح هردا

Drawing Title :
LIST OF DRAWINGS

Date :
12.2024

Scale : NOT SCALE	Sheet No : G-01
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Notes:

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4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —
 PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE —

PROPOSED HAND RAILS —

PROPOSED CONCRETE GRAVITY WALL —

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

Palestine Polytechnic University



Designed By:
Ahmad Nammura
Arafat Hanani
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Hamdan Alsada

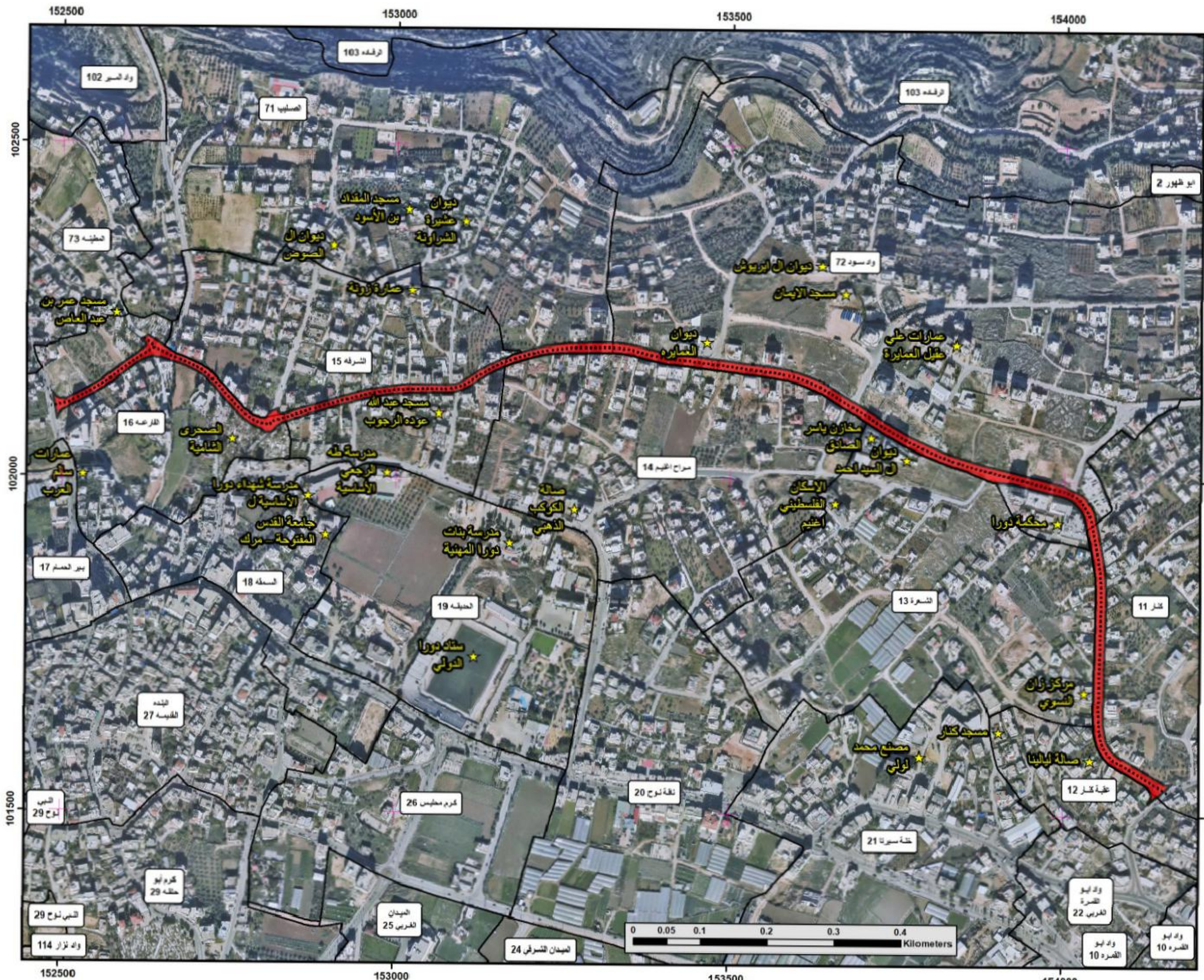
Supervisor:
Dr .Mutaz Qafisha

Project Name :
شارع هتار - واه الحمام / محكمة صلح دورا

Drawing Title : **location**

Date :
12.2024

Sheet No : G 2



مفتاح الخارطة

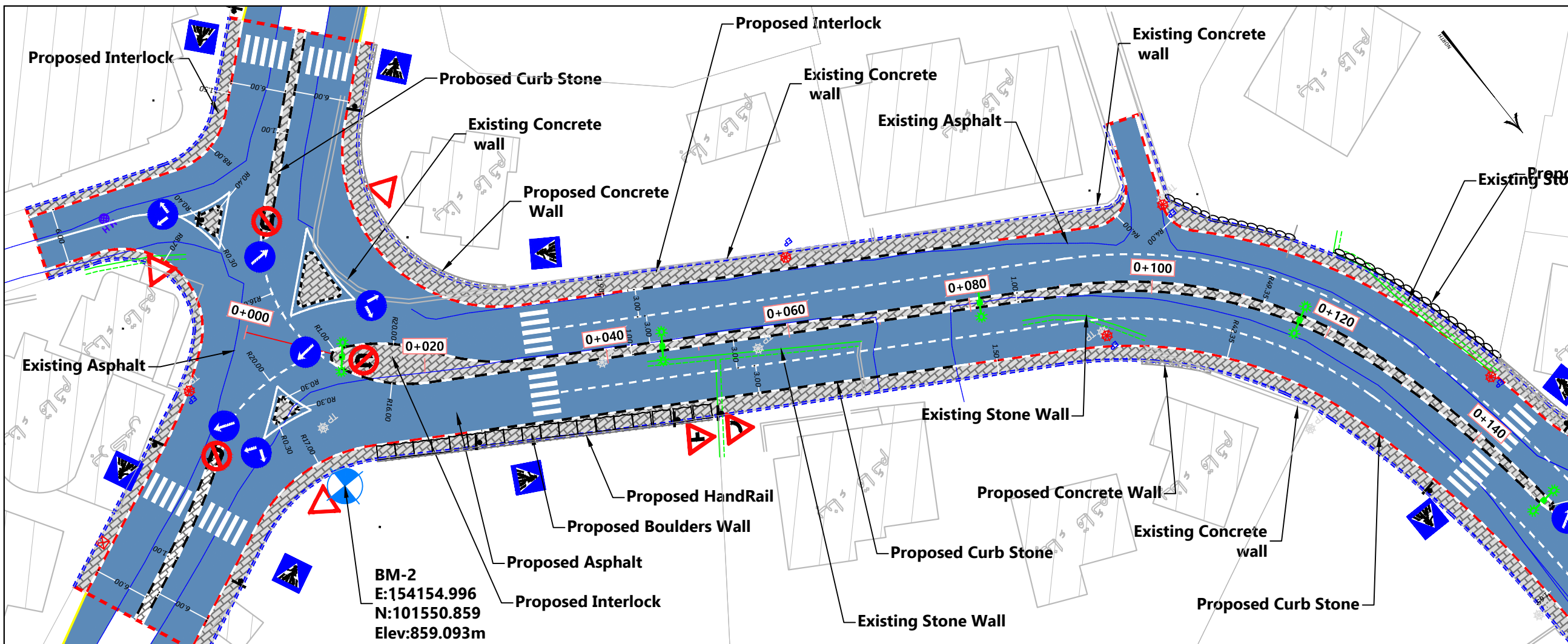
- مسار الطريق المقترح
- مركز الشارع
- أحواض المدينة
- الأماكن المعروفة

إعادة تأهيل شارع المحكمة
 طول الشارع: 2200 متر
 عرض الشارع: (16_12)

إعداد الطلبة
 أحمد تاجي التمورة
 فادي يونس
 عرفات حنفي
 حمدان السعدة

بإشراف الدكتور: معتر فقيشة

Projected Coordination System:
 Palestine_1923_Palestine Grid



- Notes:
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND

PROPOSED PGL

LEGEND AND ABBREVIATIONS :

CENTER LINE

EXISTING PAVMENT ROAD

EXISTING BUILDING

EXISTING CONCRETE WALL

EXISTING STONE WALL

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE M.H

Palestine Polytechnic University

Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

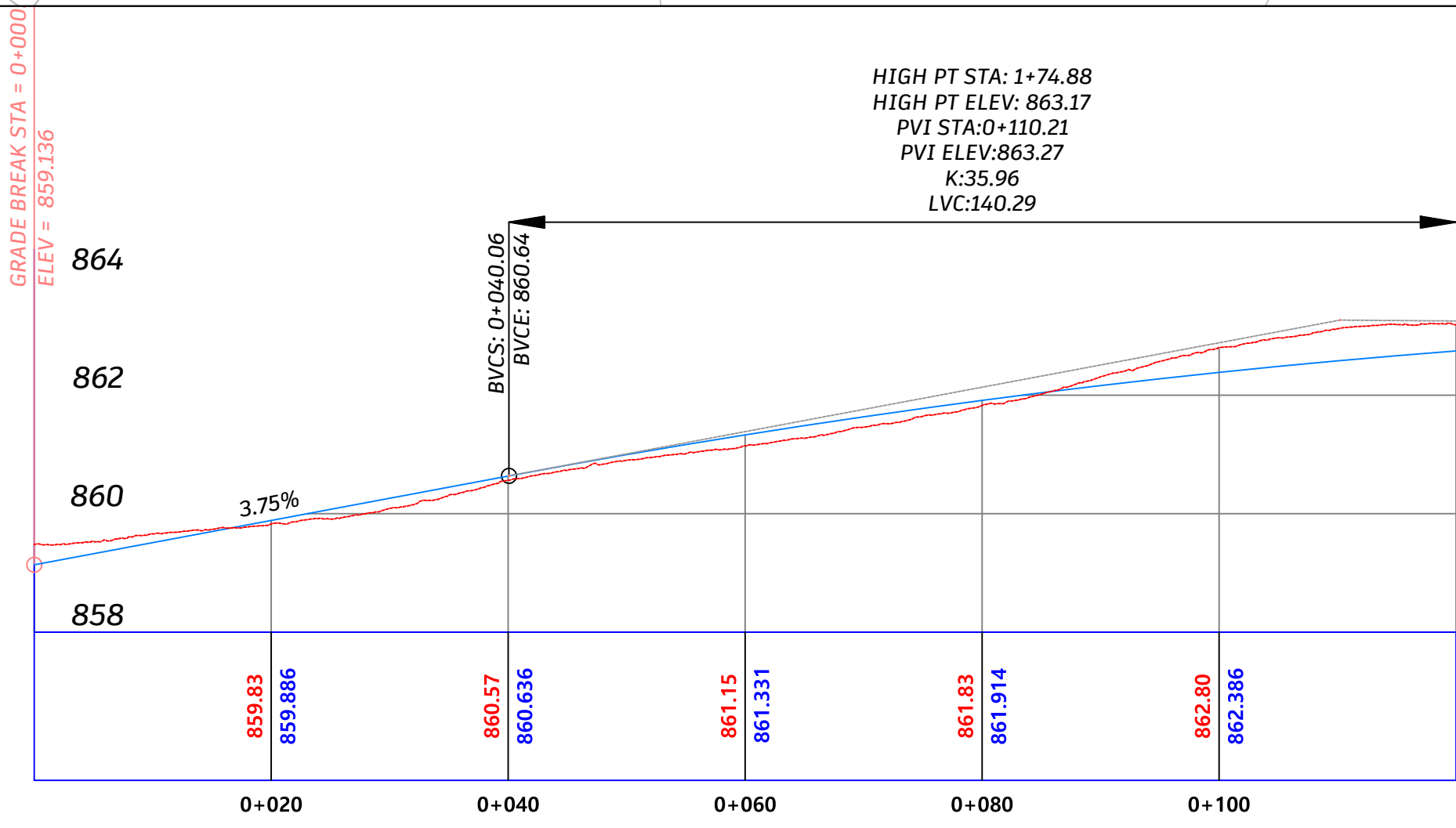
Supervisor:
Dr. Mutaz Qafisha

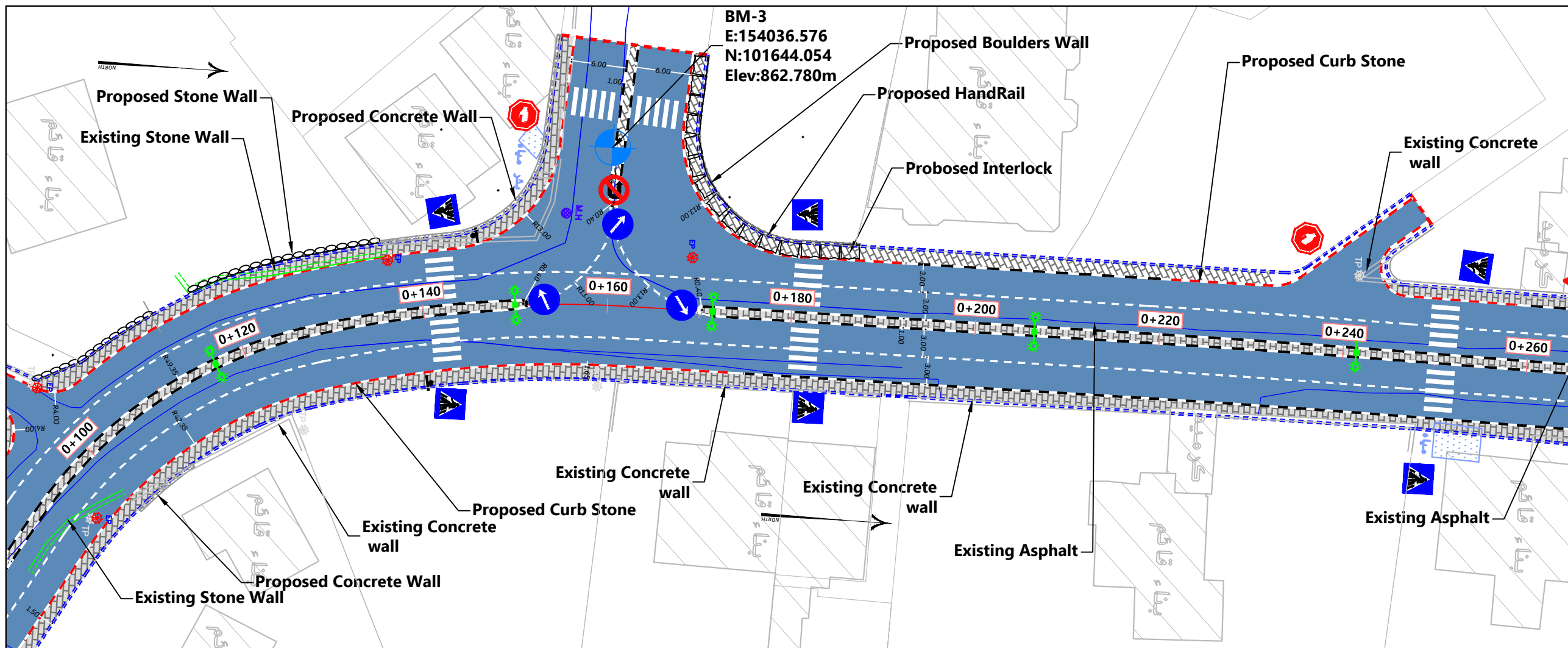
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شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : **Plan & Profile**
 From St 0+000.00 To St 0+120.00

Date : **12.2024**

Scale : **1-200H 1-500V** Sheet No : **1**





- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND

PROPOSED PGL

LEGEND AND ABBREVIATIONS :

CENTER LINE

EXISTING PAVMENT ROAD

EXISTING BUILDING

EXISTING CONCRETE WALL

EXISTING STONE WALL

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

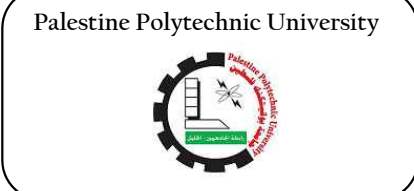
ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

M.H



Designed By: Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr. Mutaz Qafisha

Project Name :
شارع كتار - راه الحمام / محطة صلح دورا

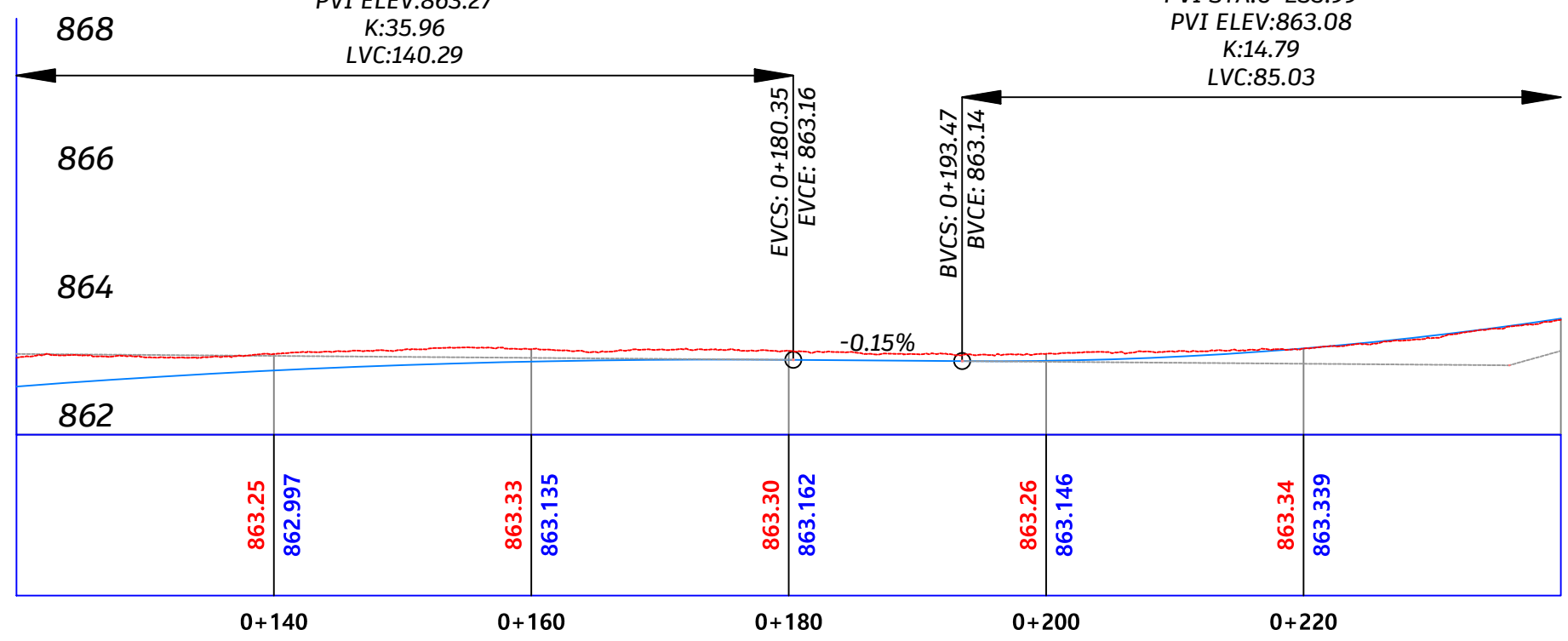
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From St 0+120.00 To St 0+240.00

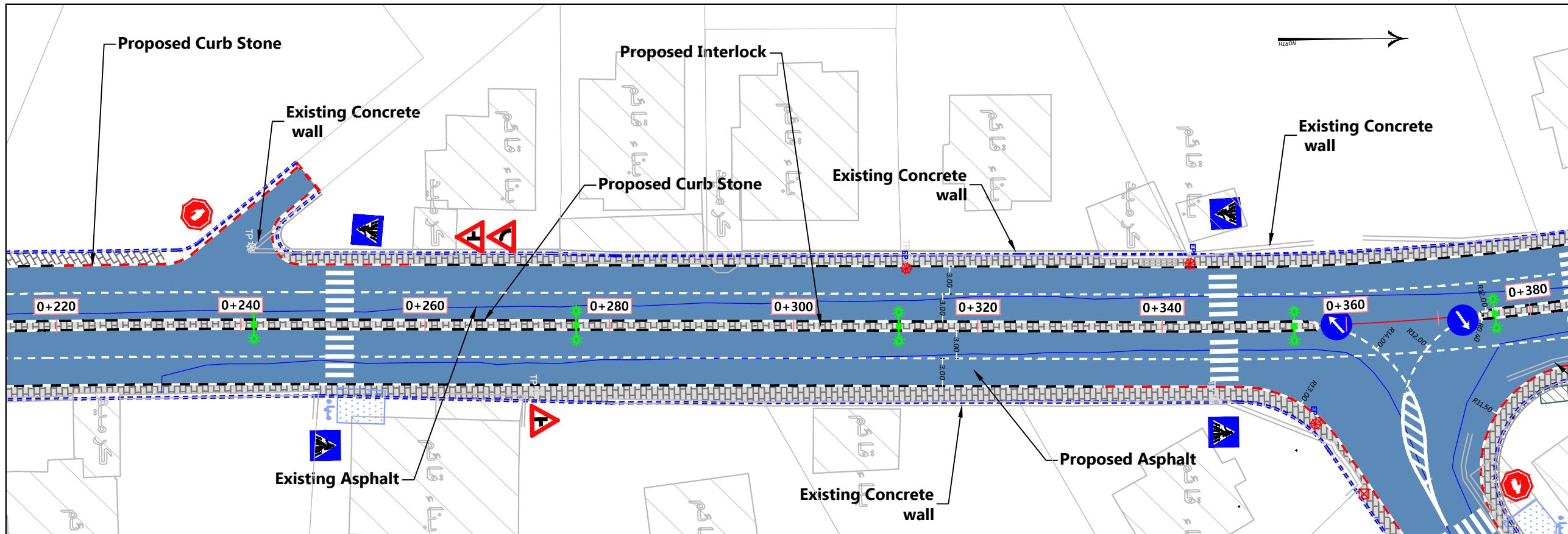
Date :
12.2024

Scale : 1-200H 1-500V
Sheet No : 2

HIGH PT STA: 1+74.88
HIGH PT ELEV: 863.17
PVI STA: 0+110.21
PVI ELEV: 863.27
K: 35.96
LVC: 140.29

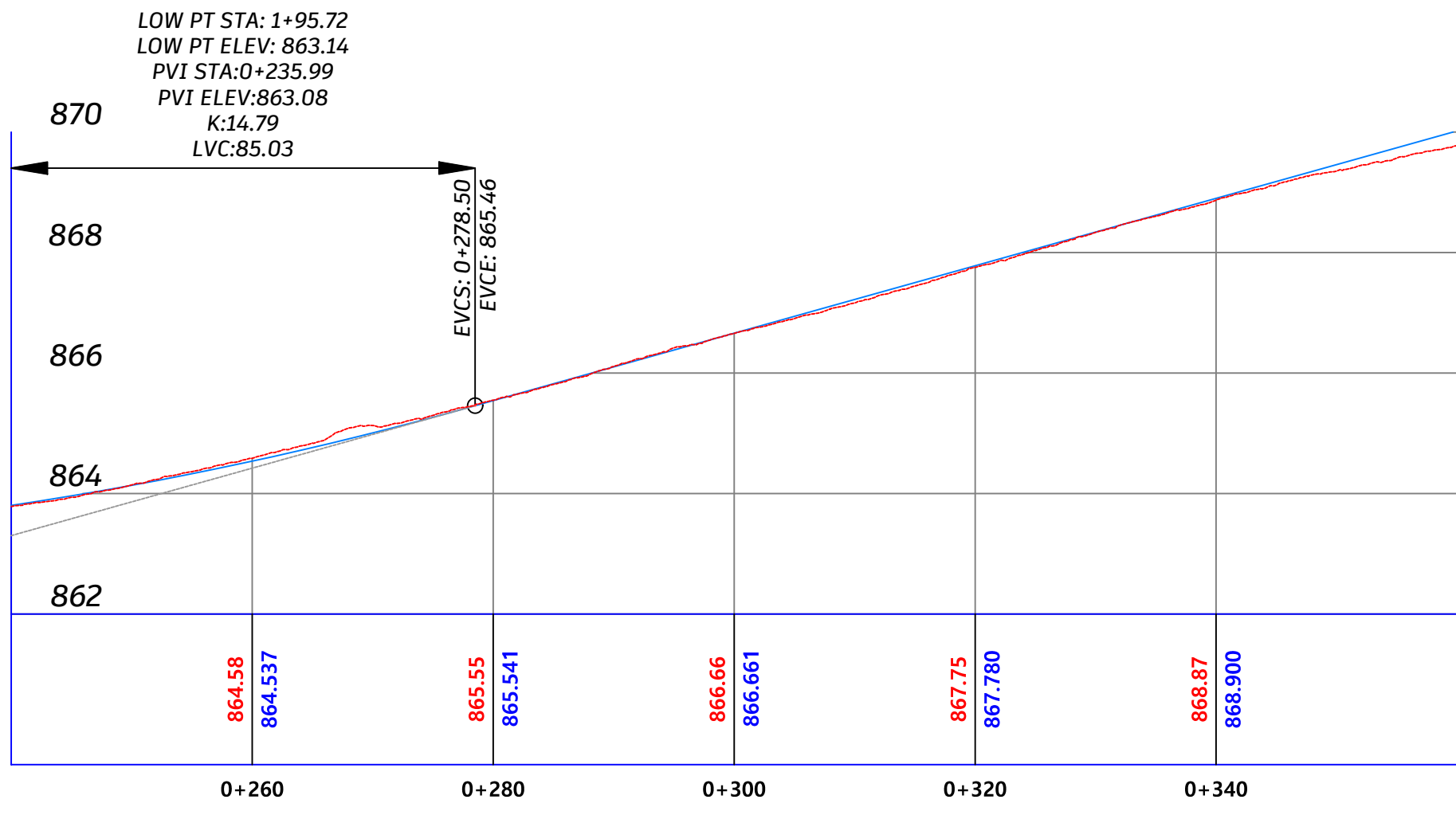
LOW PT STA: 1+95.72
LOW PT ELEV: 863.14
PVI STA: 0+235.99
PVI ELEV: 863.08
K: 14.79
LVC: 85.03





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 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND —
 - PROPOSED PGL —
- LEGEND AND ABBREVIATIONS :
- CENTER LINE —
 - EXISTING PAVMENT ROAD —
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL —
 - EXISTING STONE WALL —
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE
 -



Designed By:
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 Arafat Hanani
 Fadi Younis
 Hamdan Alsada

Supervisor:
 Dr. Mutaz Qafisha

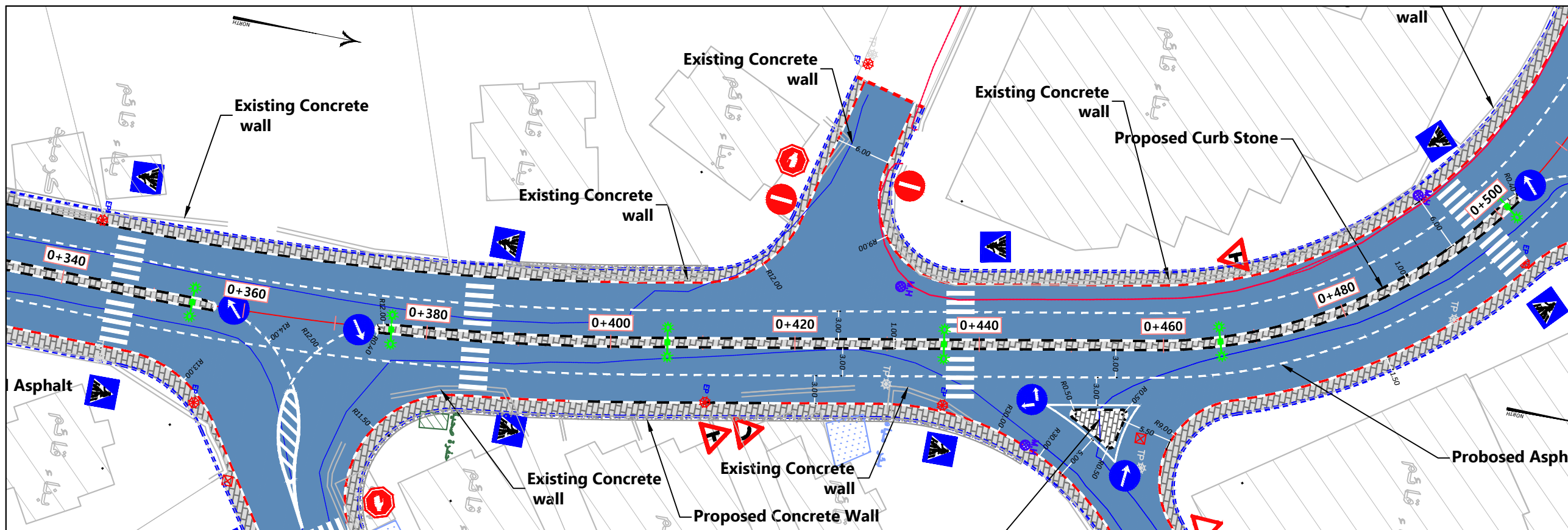
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 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
 From St 0+240.00 To St 0+360.00

Date:
 12.2024

Scale:
 1-200H 1-500V

Sheet No:
 3



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

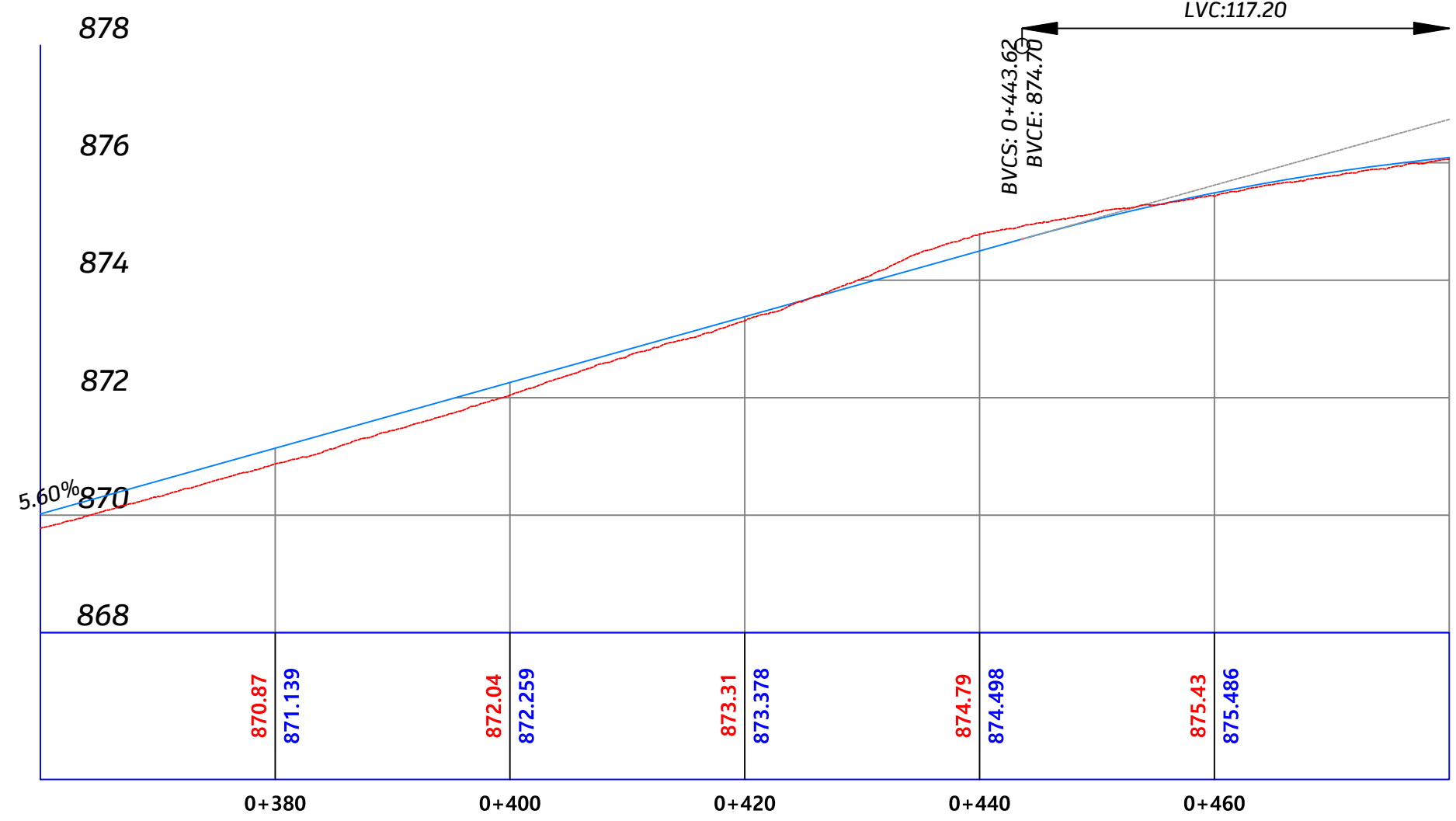
ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

HIGH PT STA: 5+00.67
 HIGH PT ELEV: 876.30
 PVI STA: 0+502.22
 PVI ELEV: 877.98
 K: 10.19
 LVC: 117.20



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 Hamdan Alsada

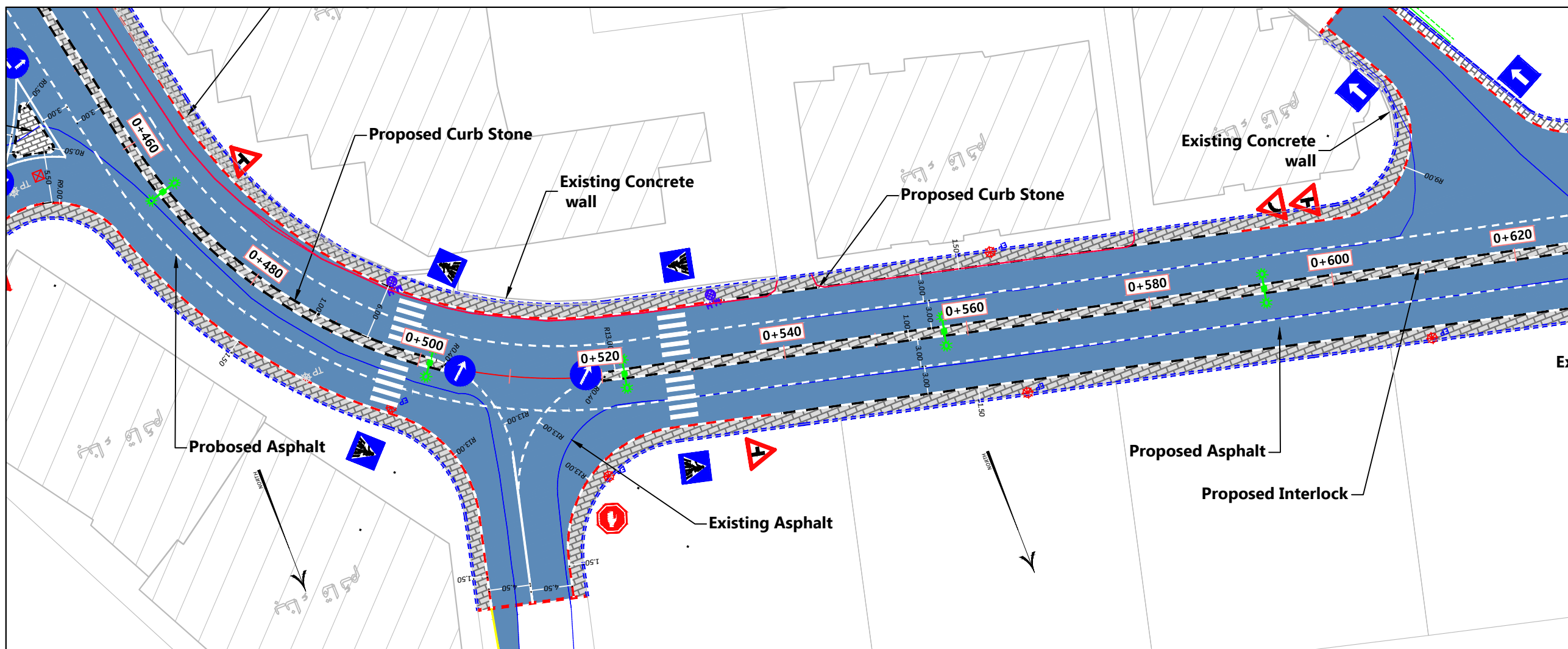
Supervisor: Dr. Mutaz Qafisha

Project Name: شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
 From St 0+360.00 To St 0+480.00

Date: 12.2024

Scale: 1-200H 1-500V
 Sheet No: 4



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

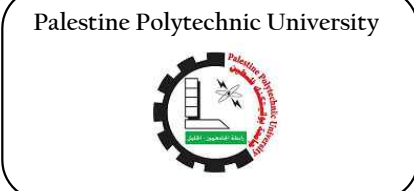
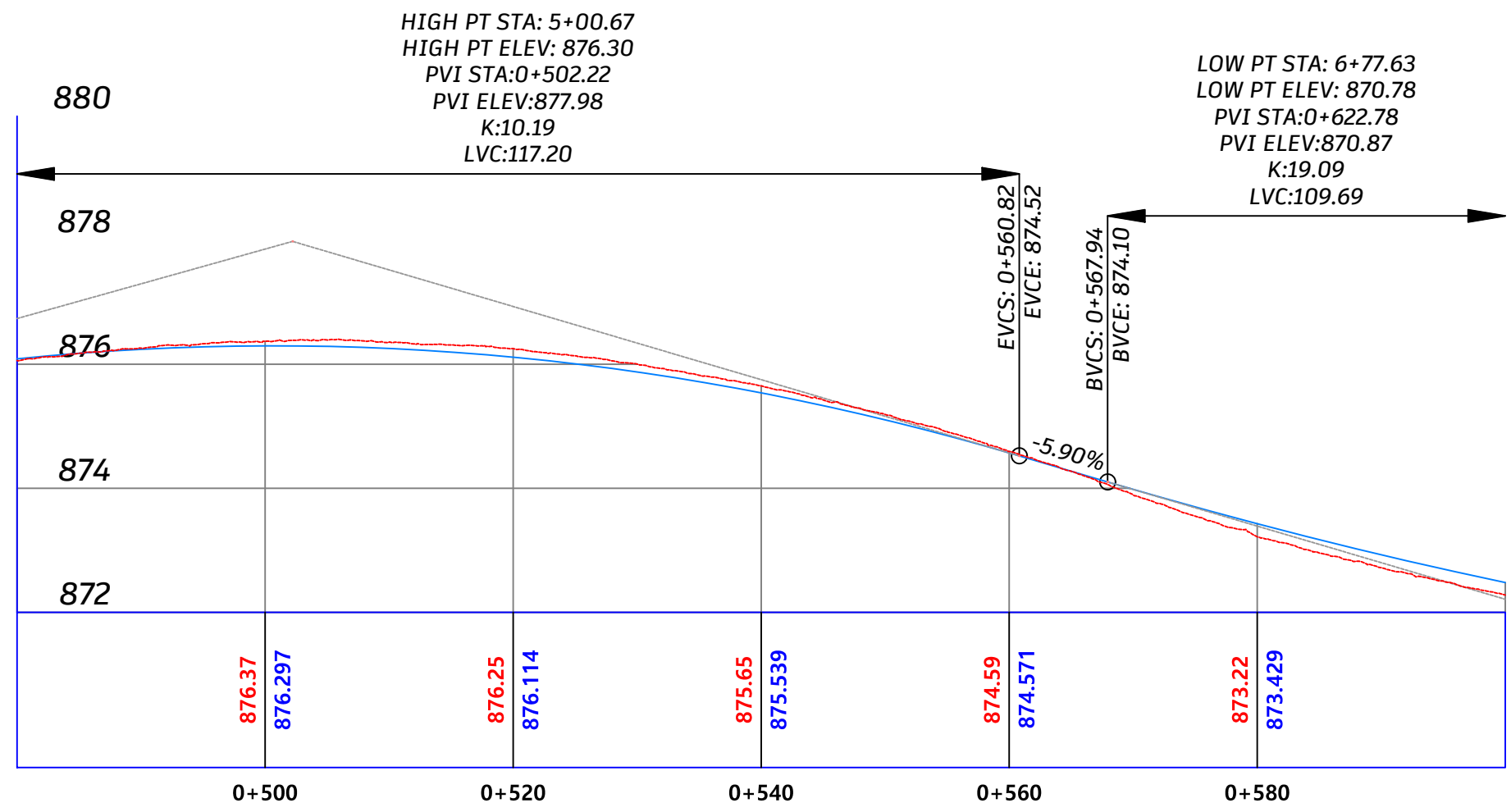
PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE



Designed By: Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

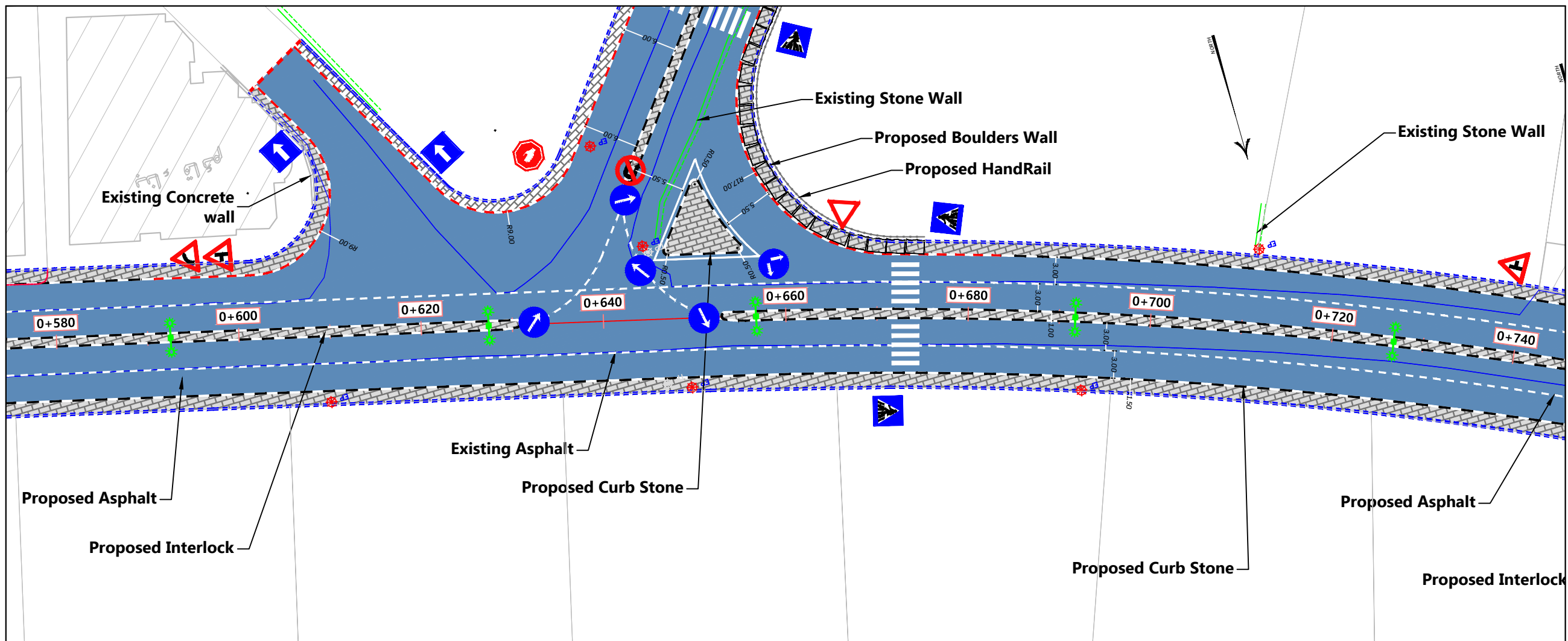
Supervisor: Dr. Mutaz Qafisha

Project Name: شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
From St 0+480.00 To St 0+600.00

Date: 12.2024

Scale: 1-200H 1-500V
Sheet No: 5



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

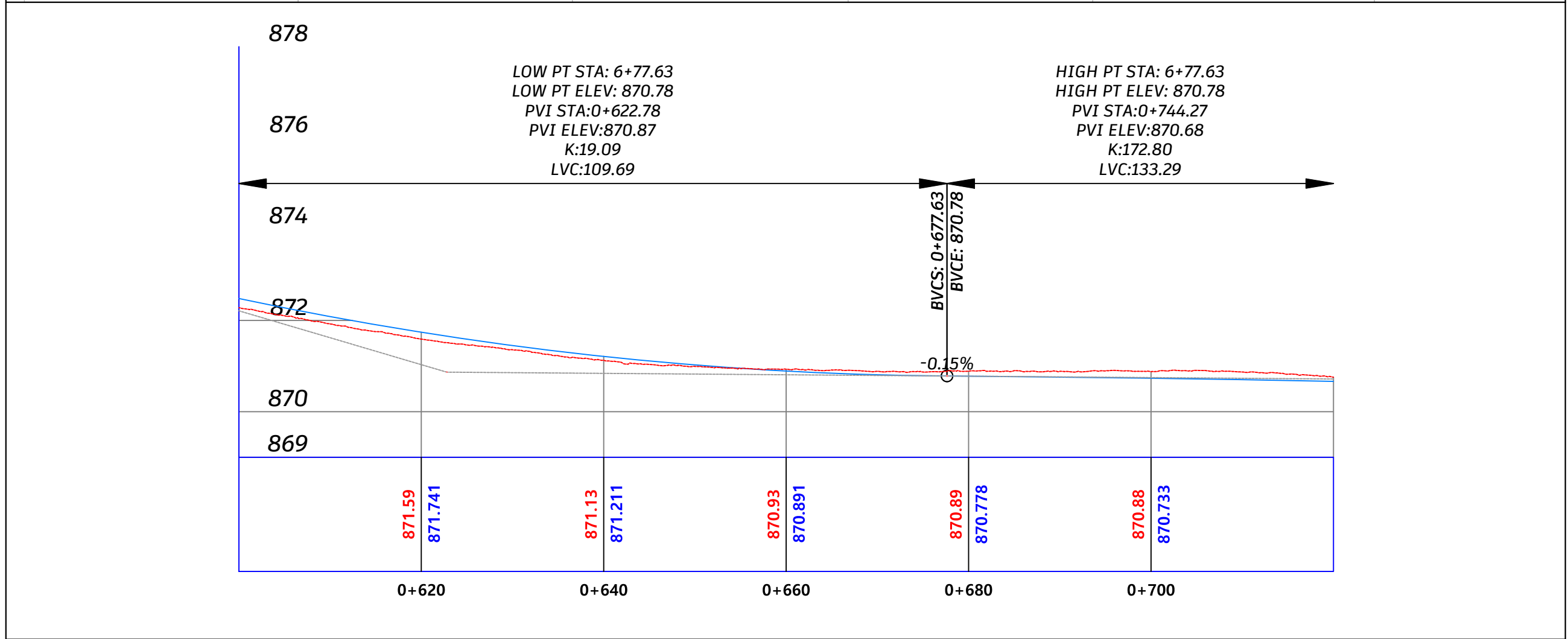
PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE



Palestine Polytechnic University

Designed By: Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

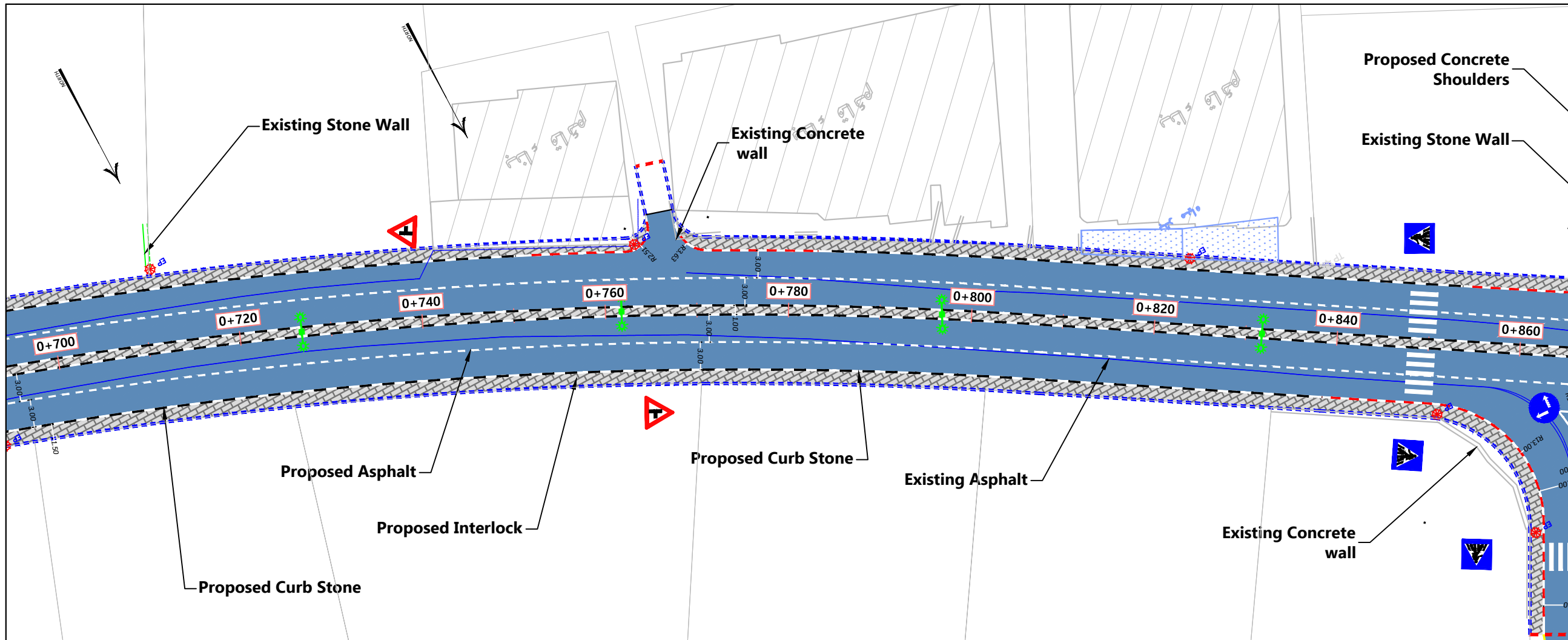
Supervisor:
Dr. Mutaz Qafisha

Project Name :
شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : Plan & Profile
From St 0+600.00 To St 0+720.00

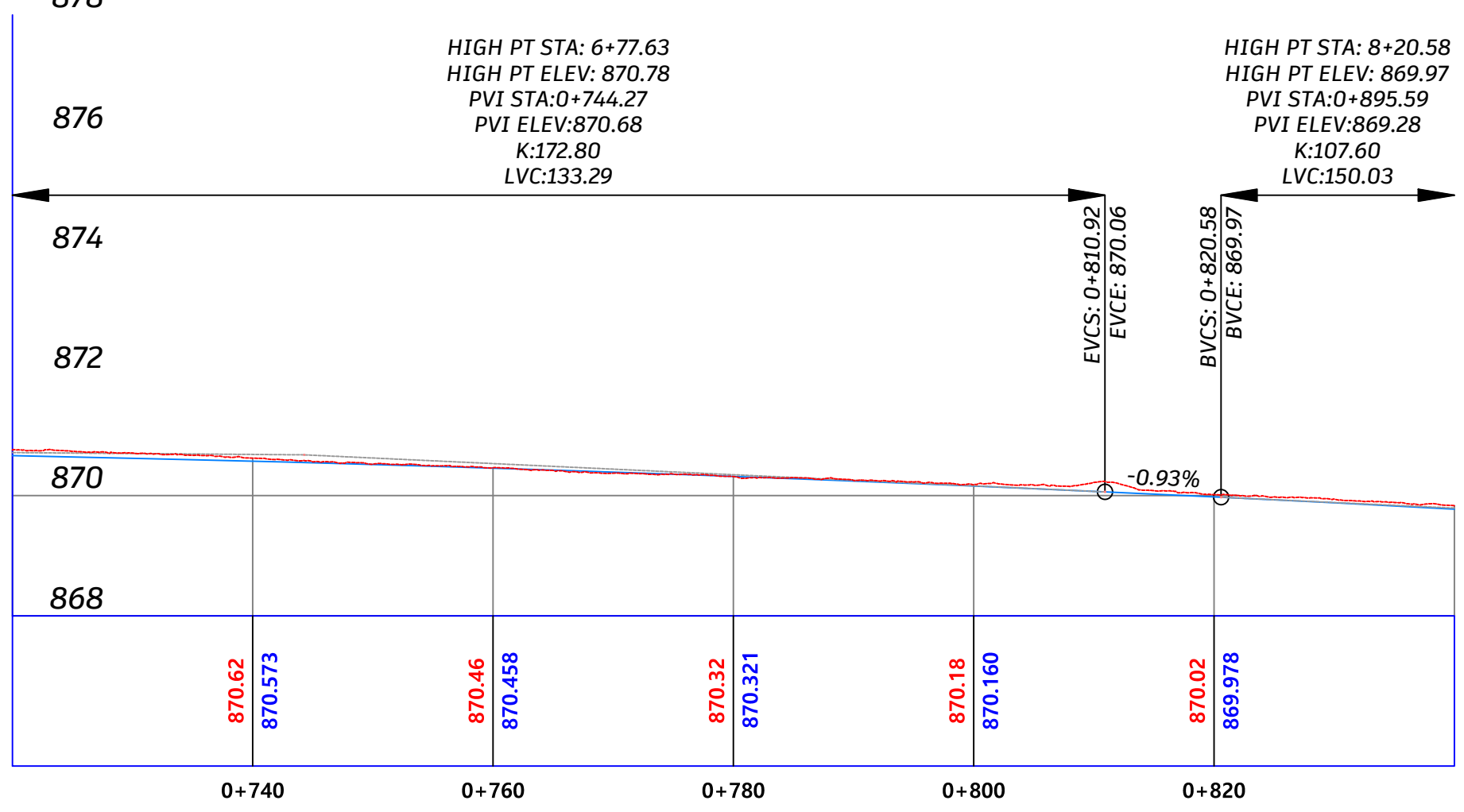
Date : **12.2024**

Scale : 1-200H 1-500V Sheet No : 6



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE (EP)
 - TELEPHONE POLE (TP)
 - HIGH VOLTAGE POLE (HEP)
 - WATER MANHOLE (M.H)



Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr .Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : **Plan & Profile**

From St 0+720.00 To St 0+840.00

Date :

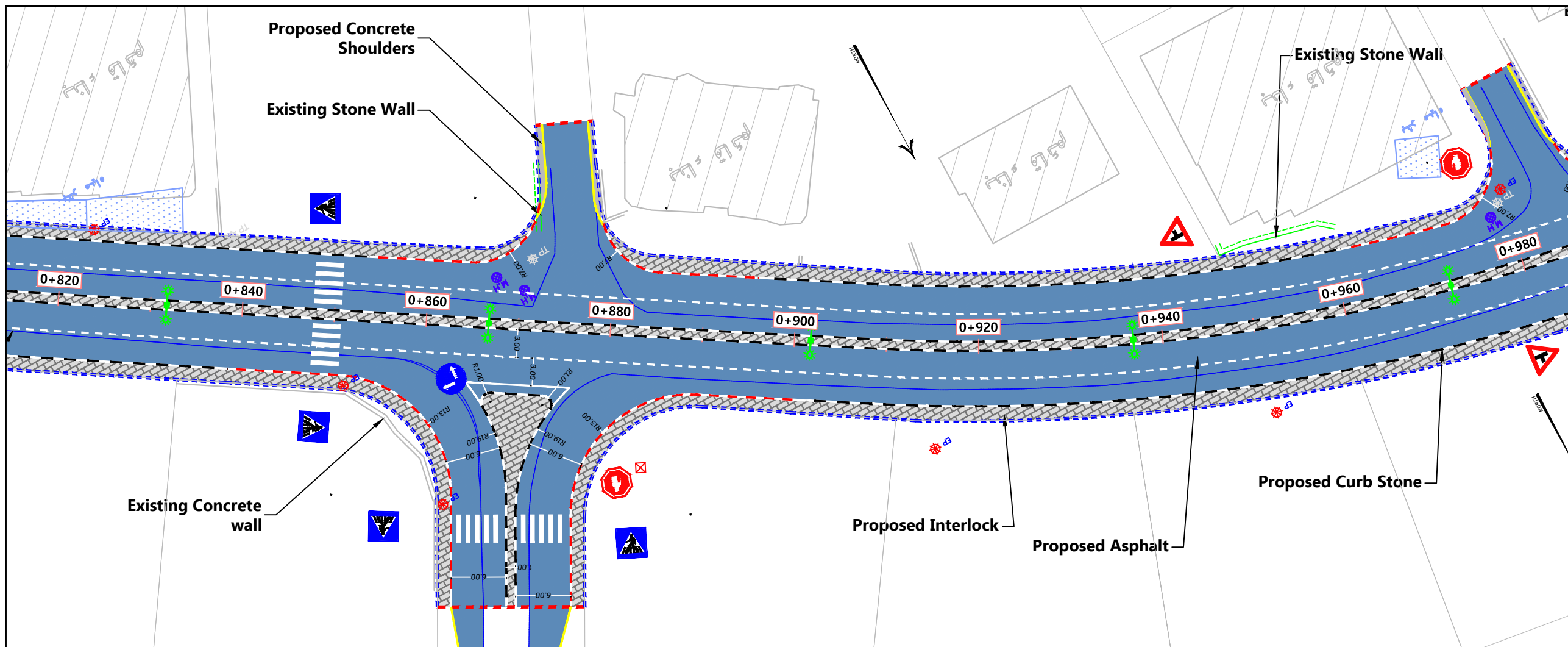
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Scale :

1-200H 1-500V

Sheet No :

7



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND

PROPOSED PGL

LEGEND AND ABBREVIATIONS :

CENTER LINE

EXISTING PAVMENT ROAD

EXISTING BUILDING

EXISTING CONCRETE WALL

EXISTING STONE WALL

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

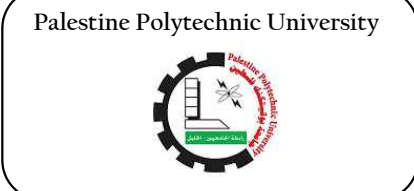
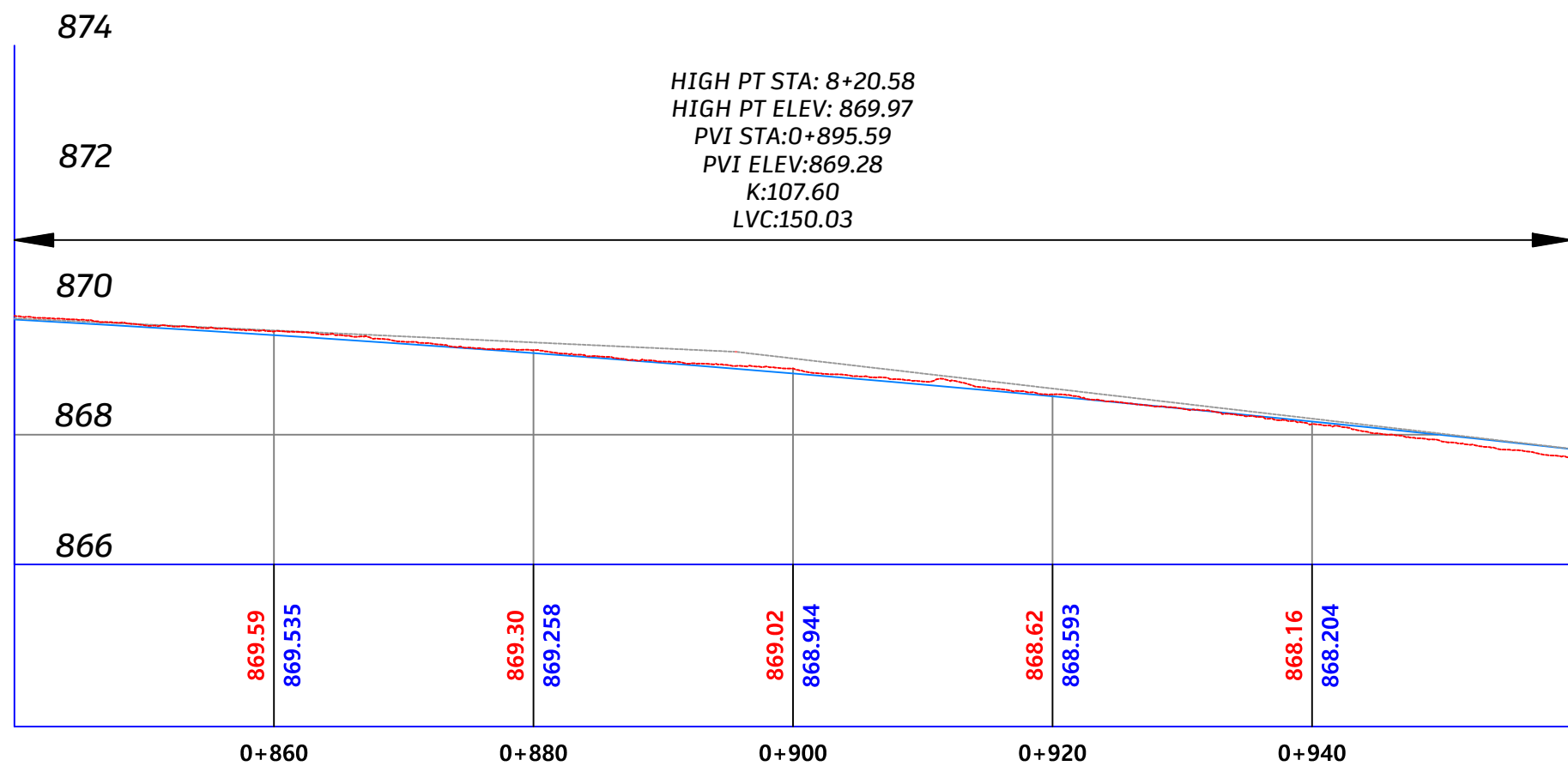
PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE



Designed By: Ahmad Nammura
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 Hamdan Alsada

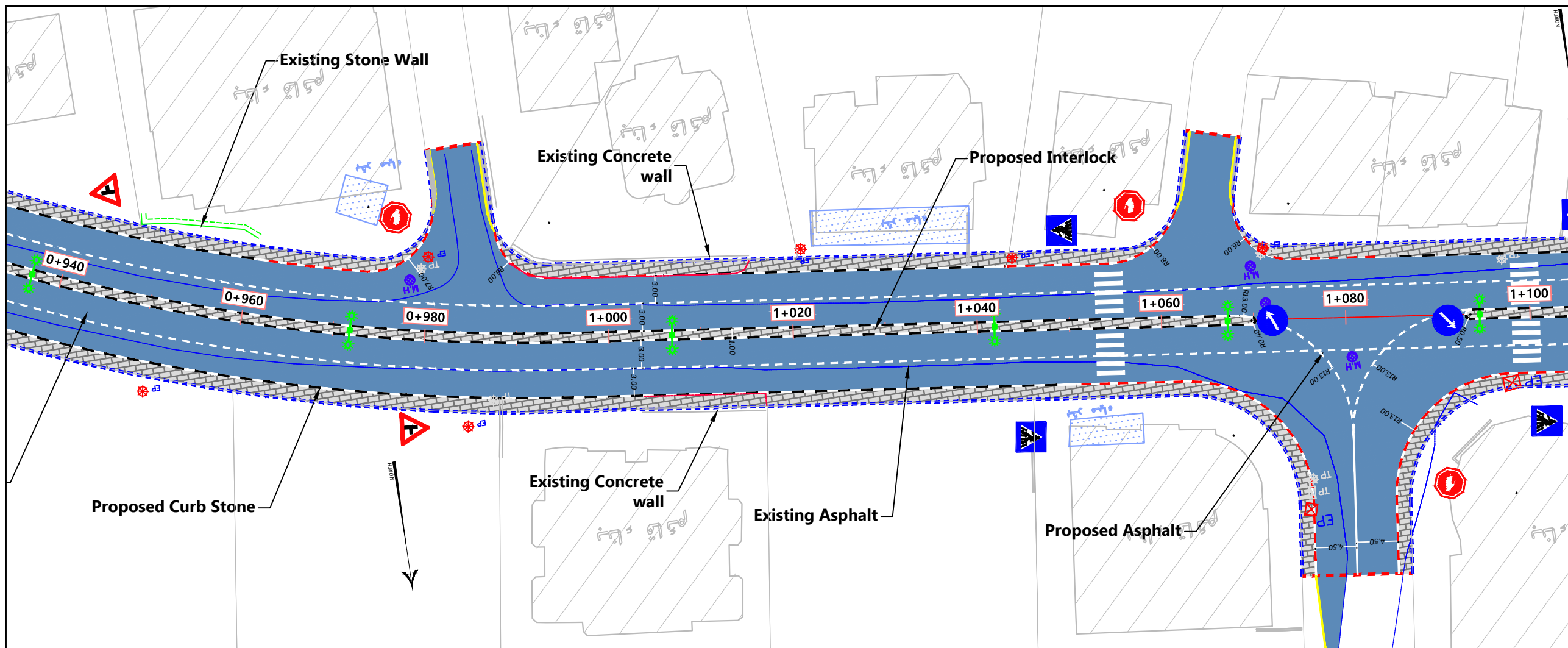
Supervisor:
Dr. Mutaz Qafisha

Project Name :
 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : Plan & Profile
 From St 0+840.00 To St 0+960.00

Date :
12.2024

Scale : 1-200H 1-500V
 Sheet No : 8



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

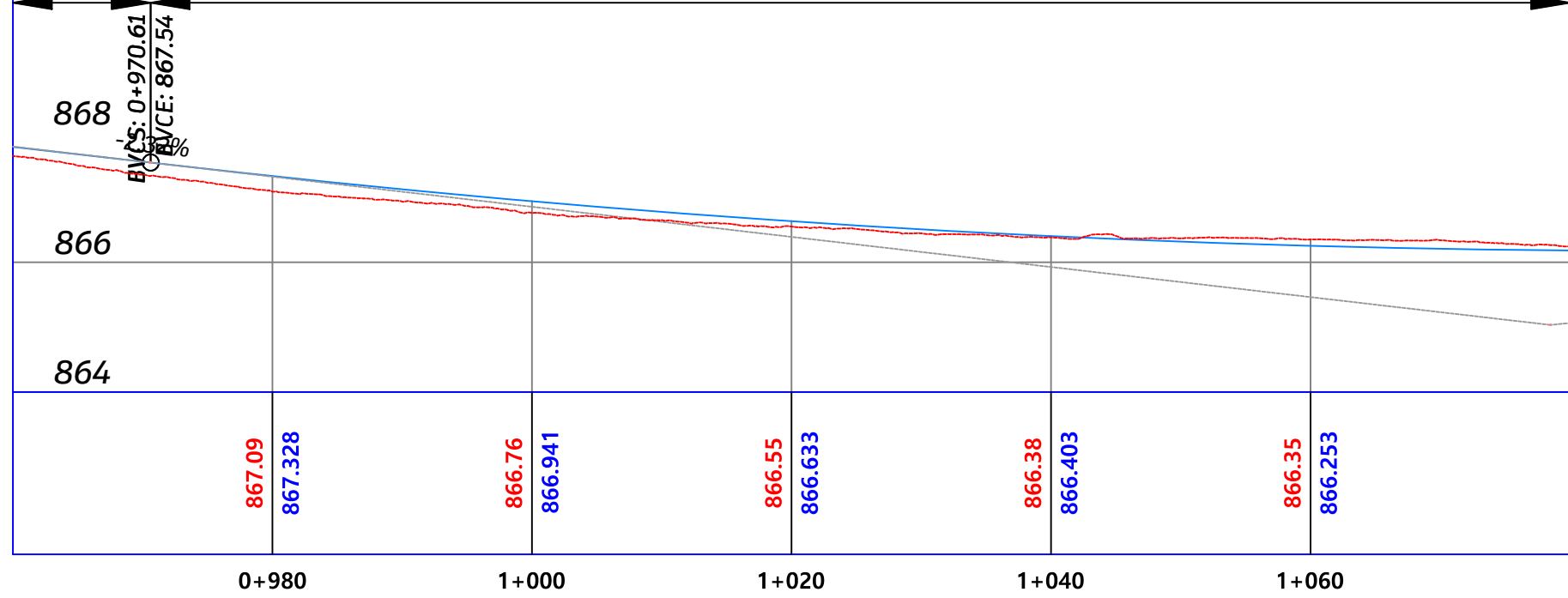
TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

HIGH PT STA: 8+20.58
 HIGH PT ELEV: 869.97
 PVI STA: 0+895.59
 PVI ELEV: 869.28
 K: 107.60
 LVC: 370.03

LOW PT STA: 10+88.05
 LOW PT ELEV: 866.18
 PVI STA: 1+078.48
 PVI ELEV: 865.03
 K: 50.62
 LVC: 215.74



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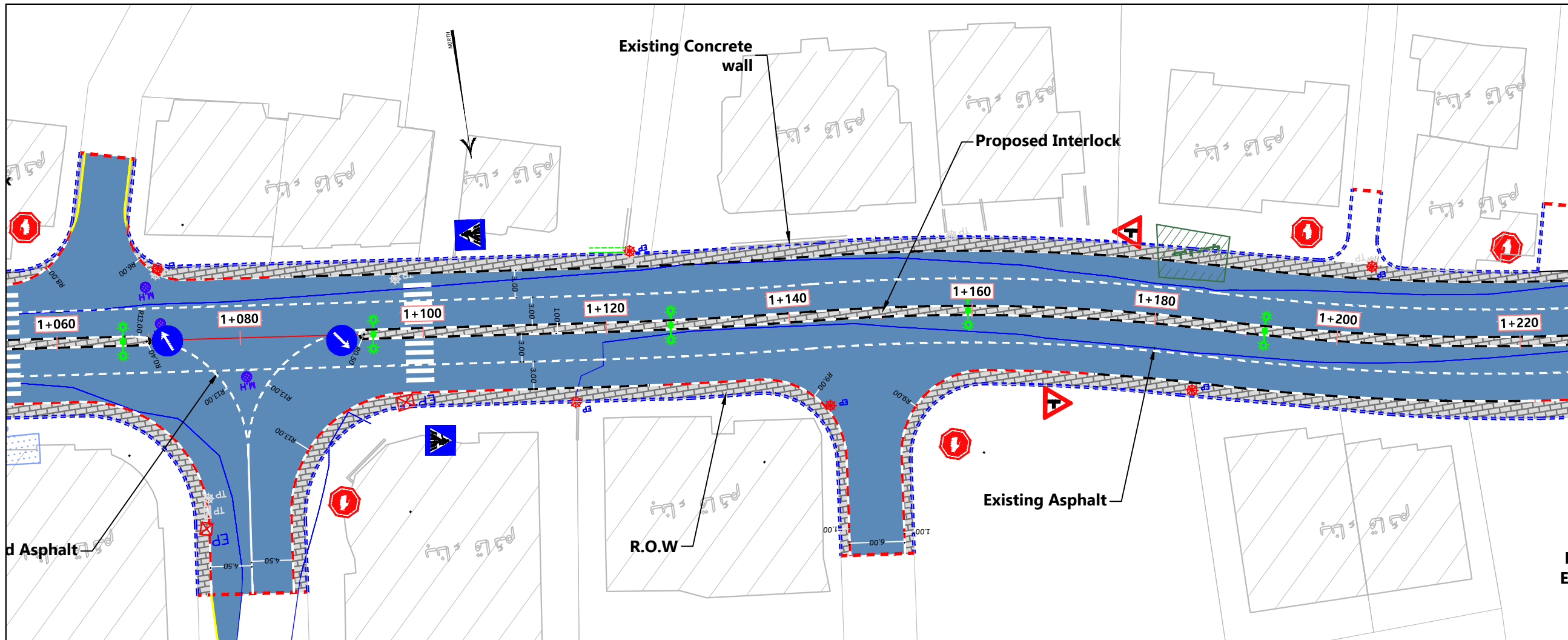
Supervisor:
Dr. Mutaz Qafisha

Project Name :
 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : Plan & Profile
 From St 0+960.00 To St 1+080.00

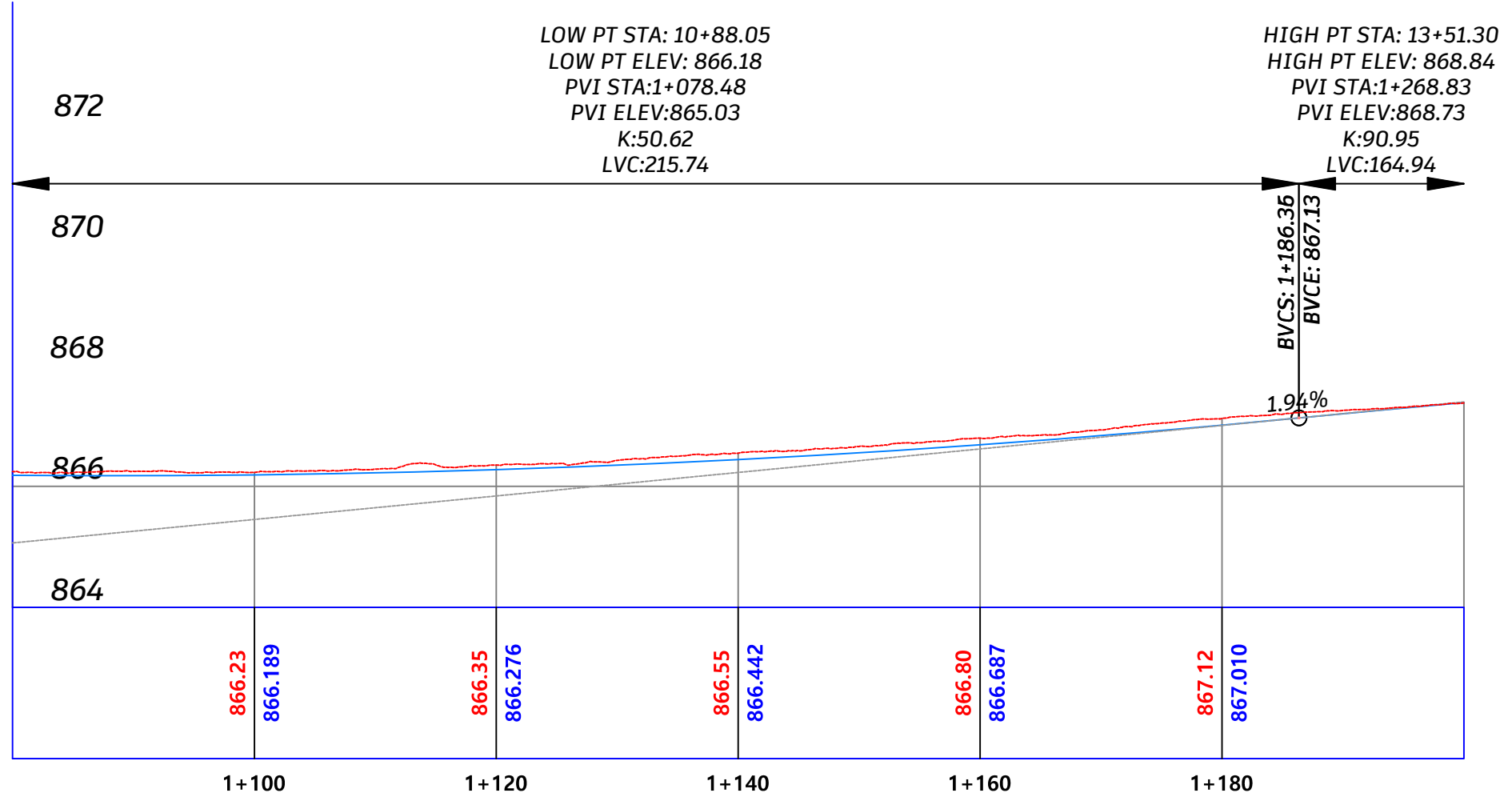
Date :
12.2024

Scale : 1-200H 1-500V
 Sheet No : 9



- Notes:
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 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE:
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS:
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE (EP)
 - TELEPHONE POLE (TP)
 - HIGH VOLTAGE POLE (HEP)
 - WATER MANHOLE (M.H)



Designed By:
Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

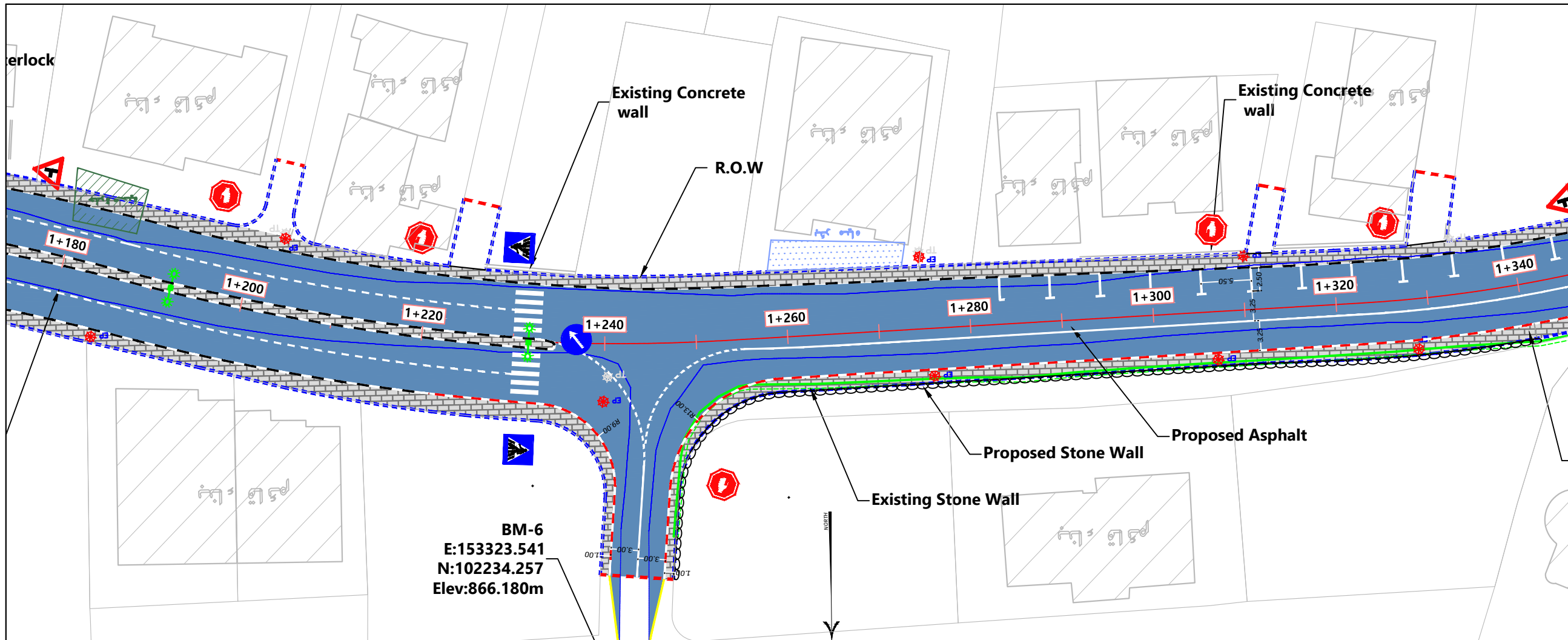
Supervisor:
Dr. Mutaz Qafisha

Project Name:
شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: **Plan & Profile**
 From St 1+080.00 To St 1+200.00

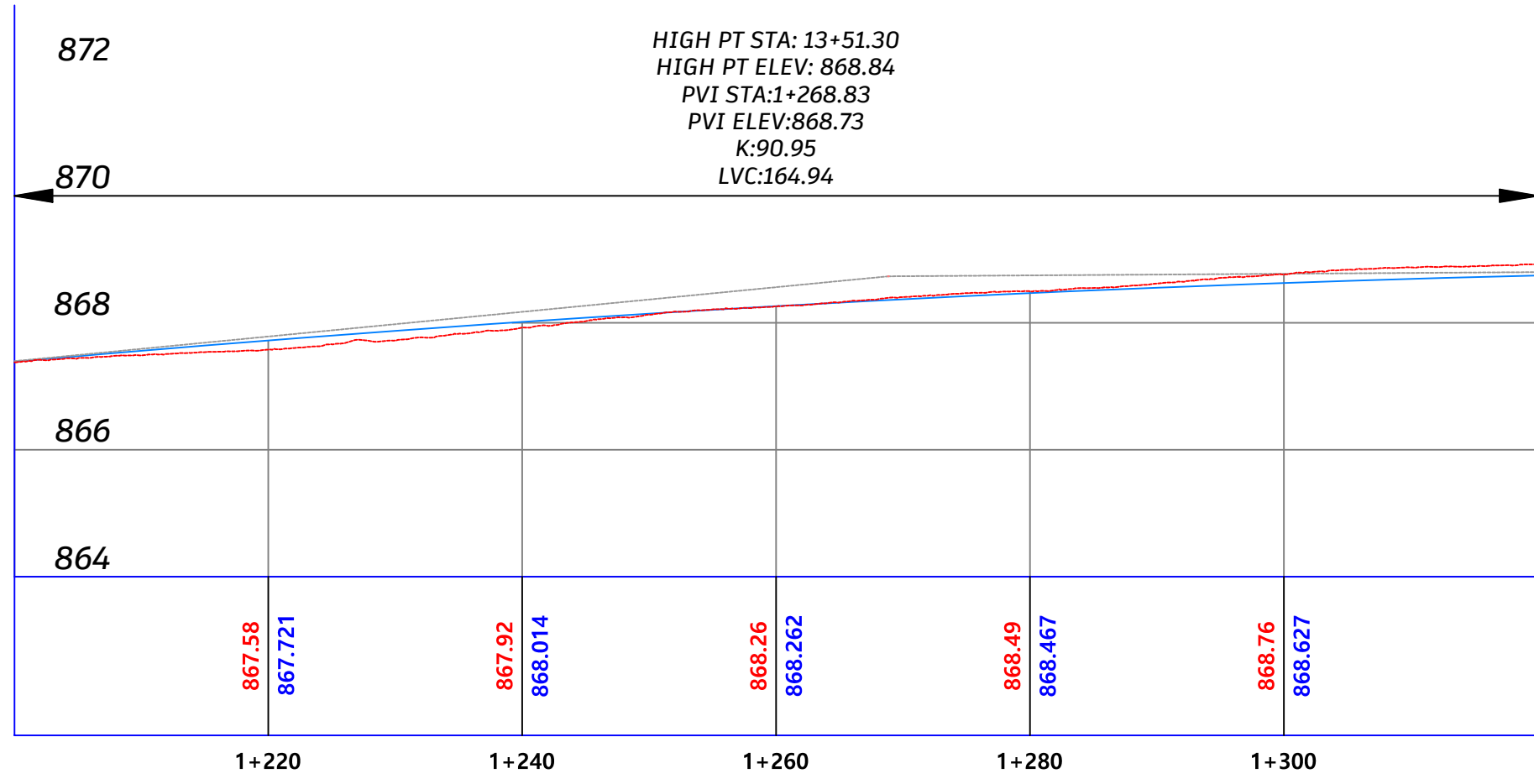
Date:
12.2024

Scale: **1-200H 1-500V** Sheet No: **10**



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE (EP)
 - TELEPHONE POLE (TP)
 - HIGH VOLTAGE POLE (HEP)
 - WATER MANHOLE (W, M.H)



Designed By: Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

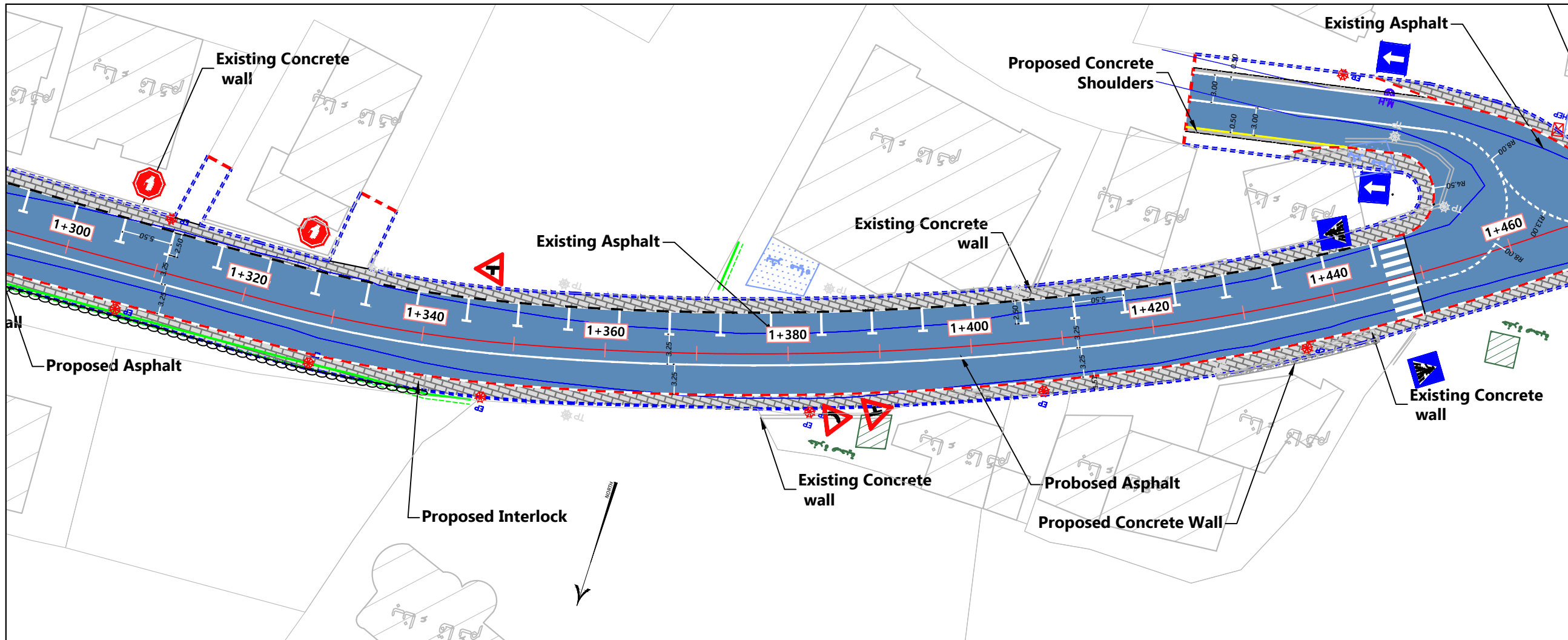
Supervisor: Dr. Mutaz Qafisha

Project Name: شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
From St 1+200.00 To St 1+320.00

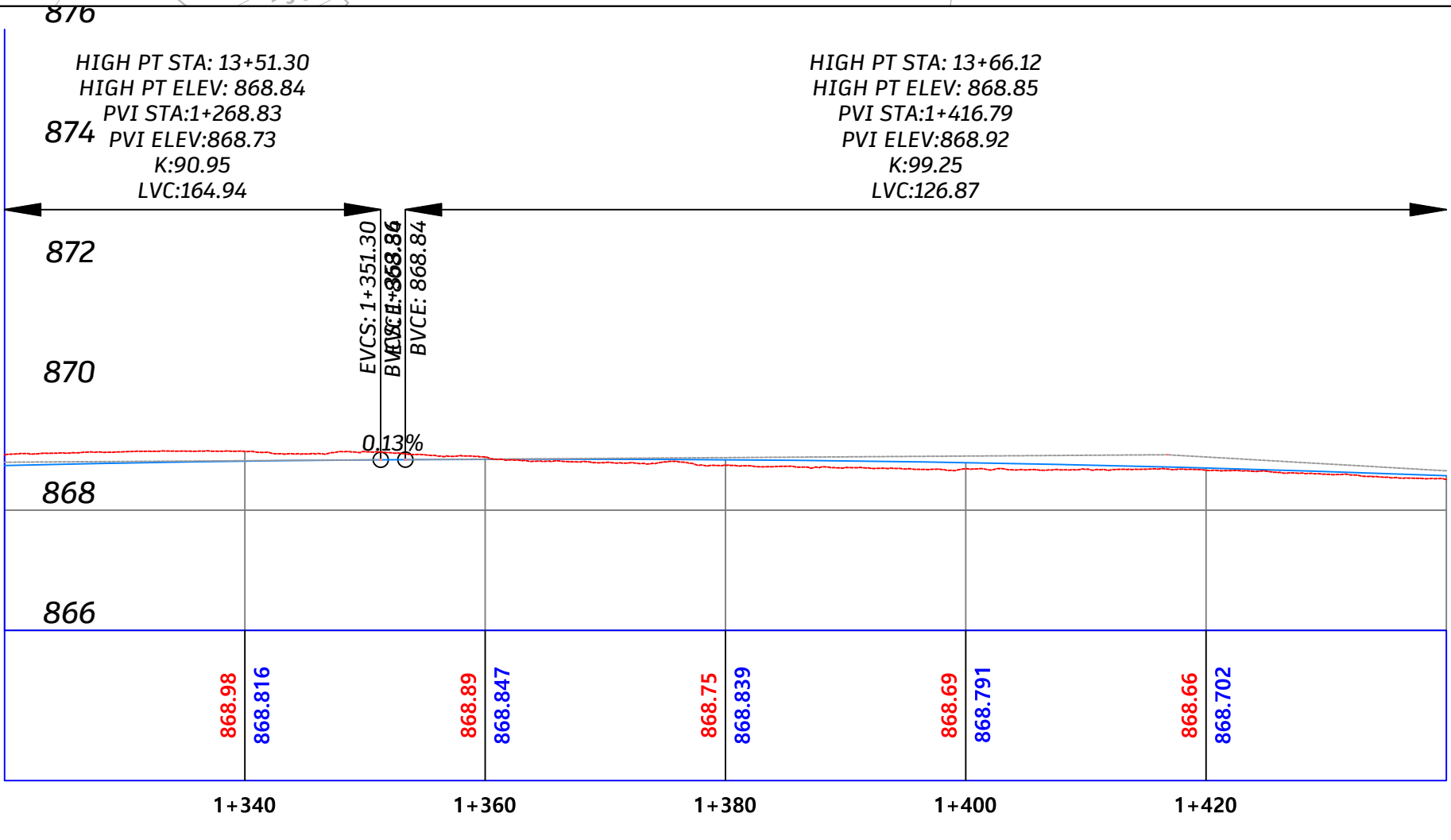
Date: 12.2024

Scale: 1-200H 1-500V
Sheet No: 11



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE M.H



Designed By: Ahmad Nammura
 Arafat Hanani
 Fadi Younis
 Hamdan Alsada

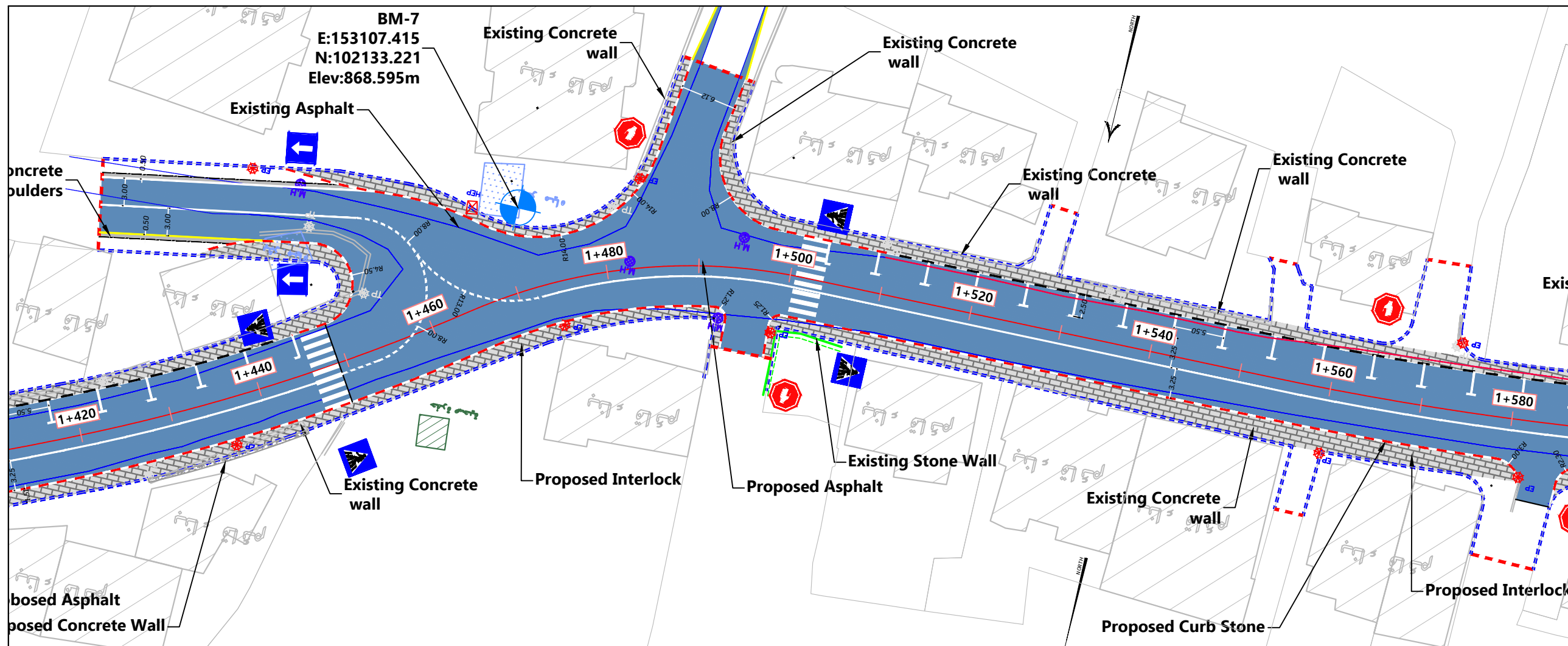
Supervisor:
 Dr. Mutaz Qafisha

Project Name:
 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
 From St 1+320.00 To St 1+440.00

Date:
 12.2024

Scale: 1:200H 1:500V
 Sheet No: 12



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

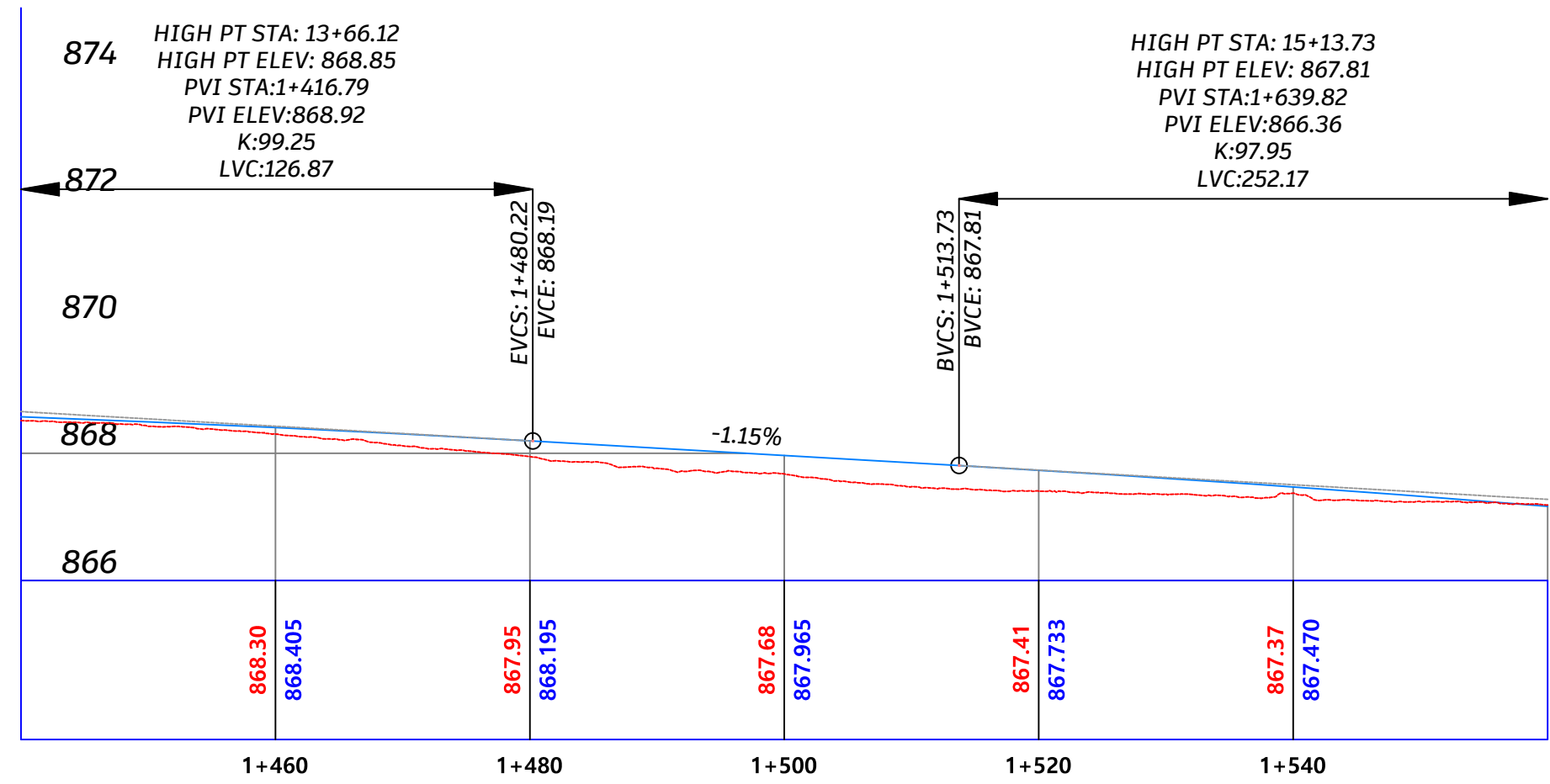
PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE



Palestine Polytechnic University

Designed By: Ahmad Nammura, Arafat Hanani, Fadi Younis, Hamdan Alsada

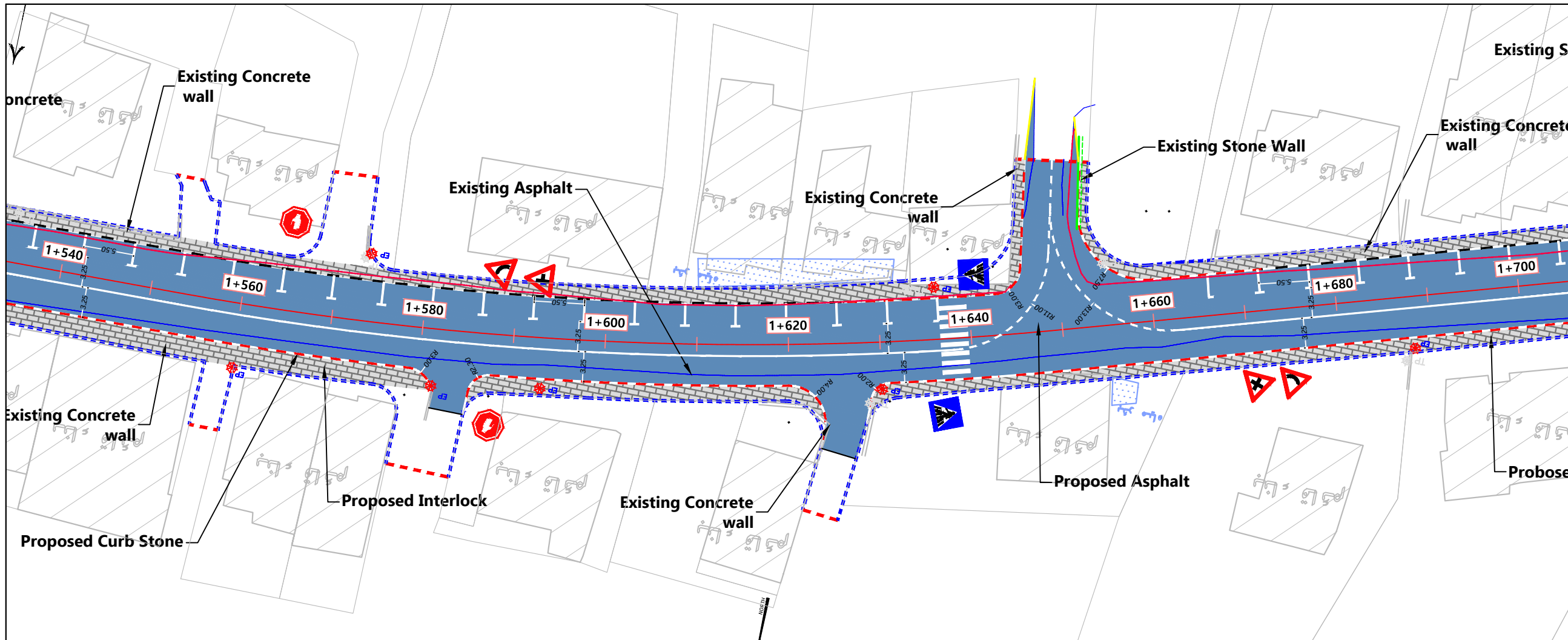
Supervisor: Dr. Mutaz Qafisha

Project Name: شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
From St 1+440.00 To St 1+560.00

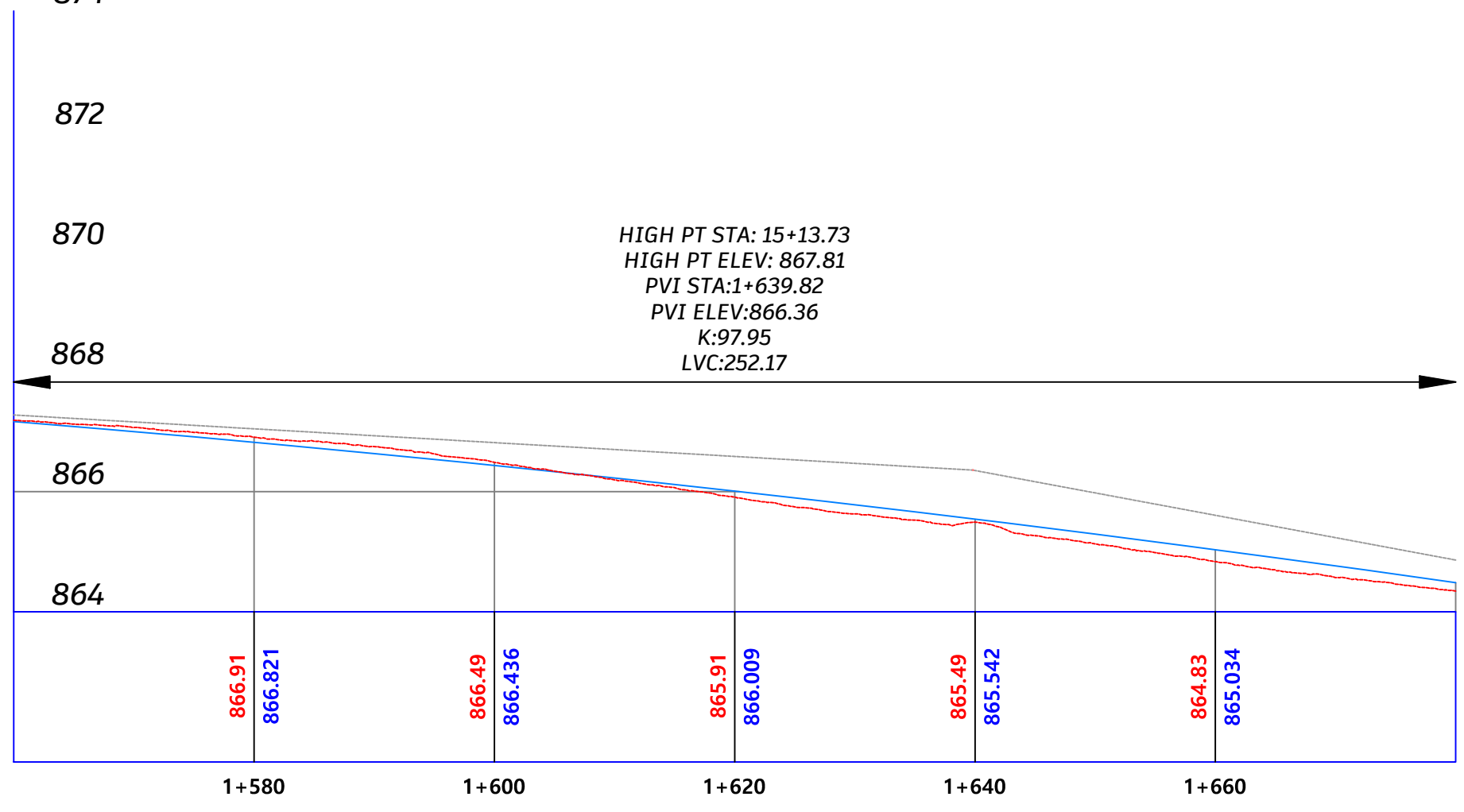
Date: 12.2024

Scale: 1-200H 1-500V | Sheet No: 13



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE
 -



Designed By: Ahmad Nammura
 Arafat Hanani
 Fadi Younis
 Hamdan Alsada

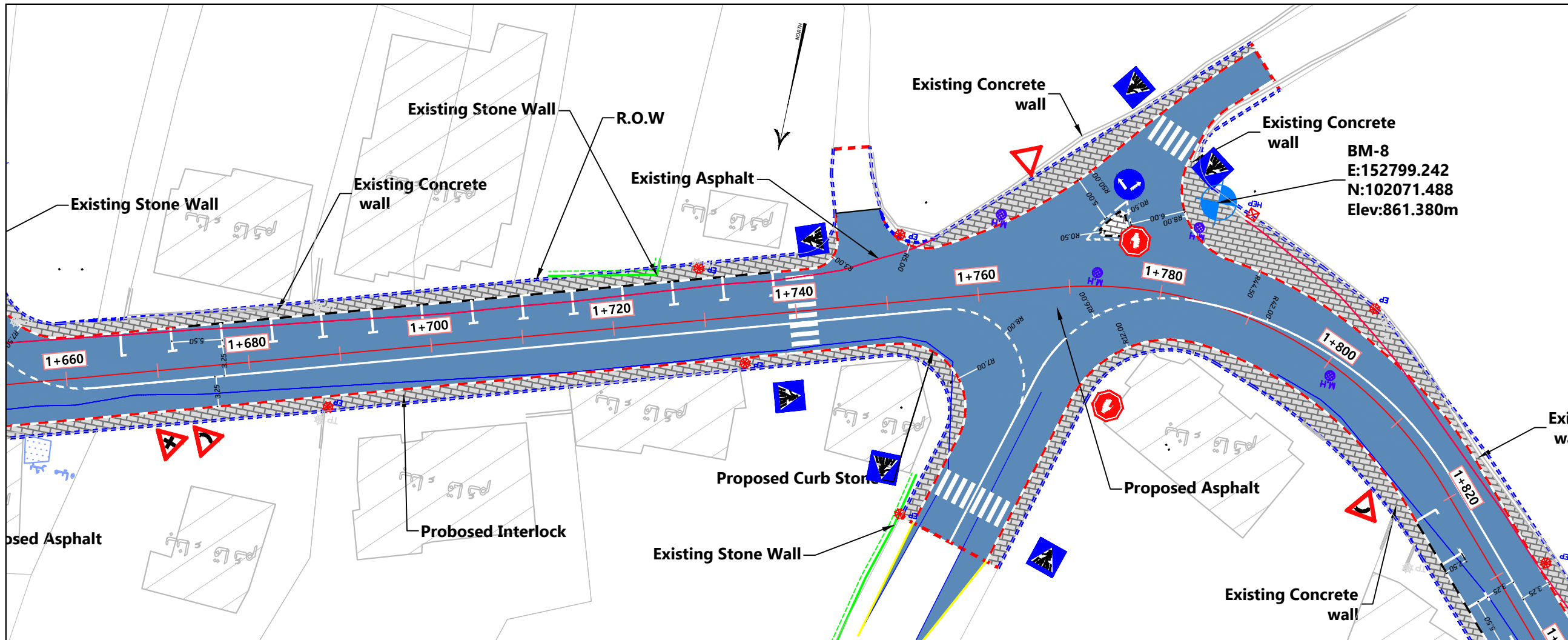
Supervisor:
Dr. Mutaz Qafisha

Project Name :
 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : Plan & Profile
 From St 1+560.00 To St 1+680.00

Date :
12.2024

Scale : 1:200H 1:500V
 Sheet No : 14



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

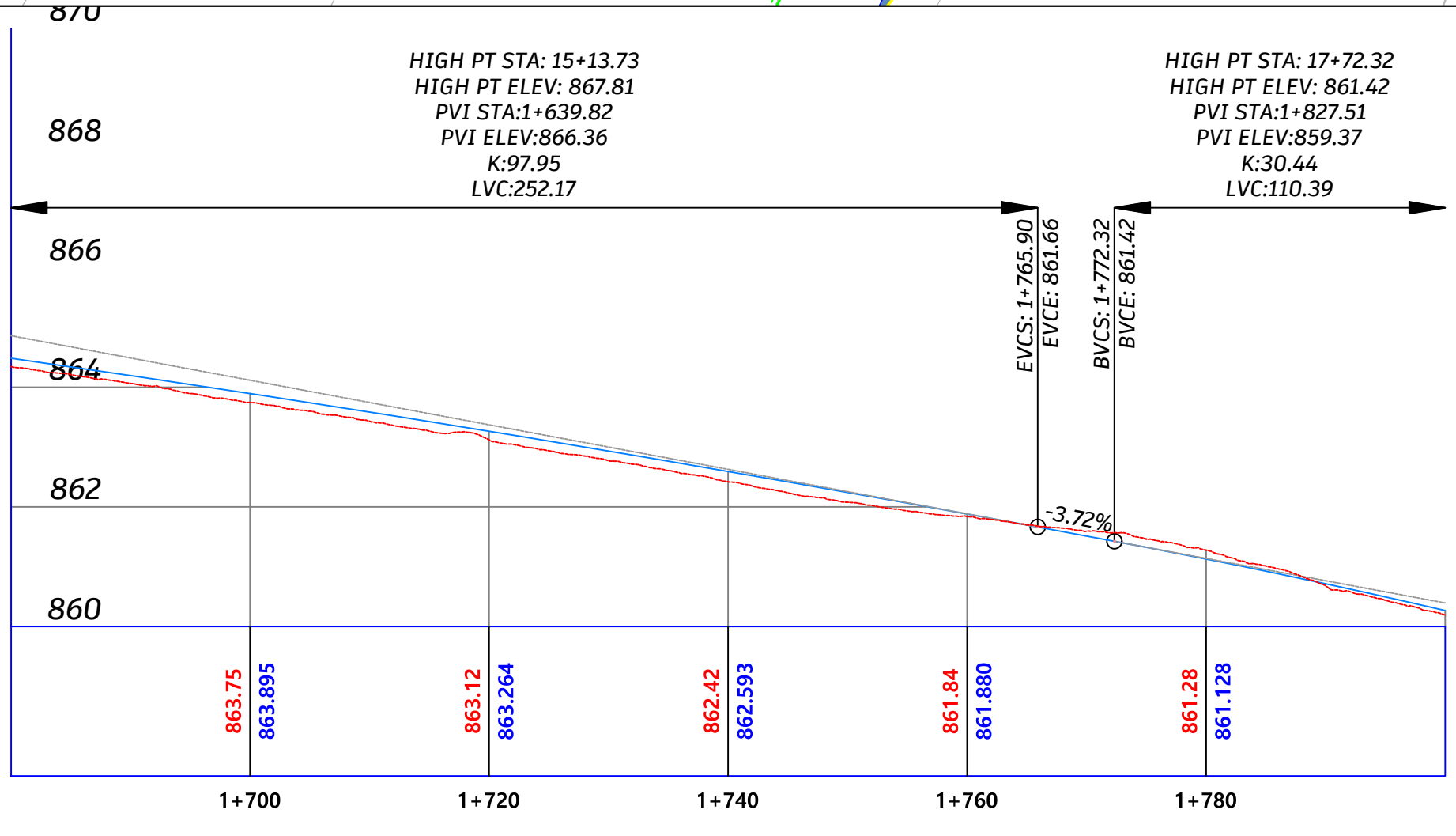
PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE



Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr. Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : **Plan & Profile**

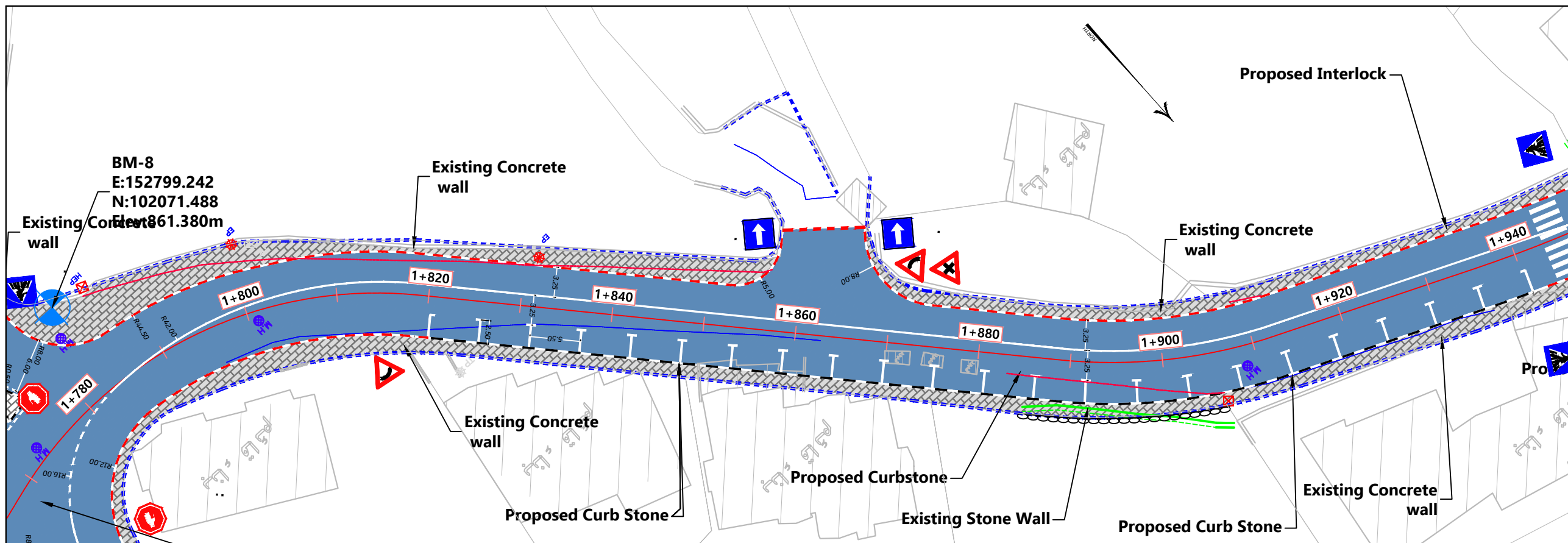
From St 1+680.00 To St 1+800.00

Date :

12.2024

Scale : **1-200H 1-500V**

Sheet No : **15**

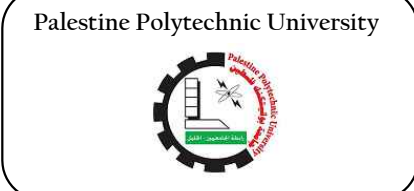
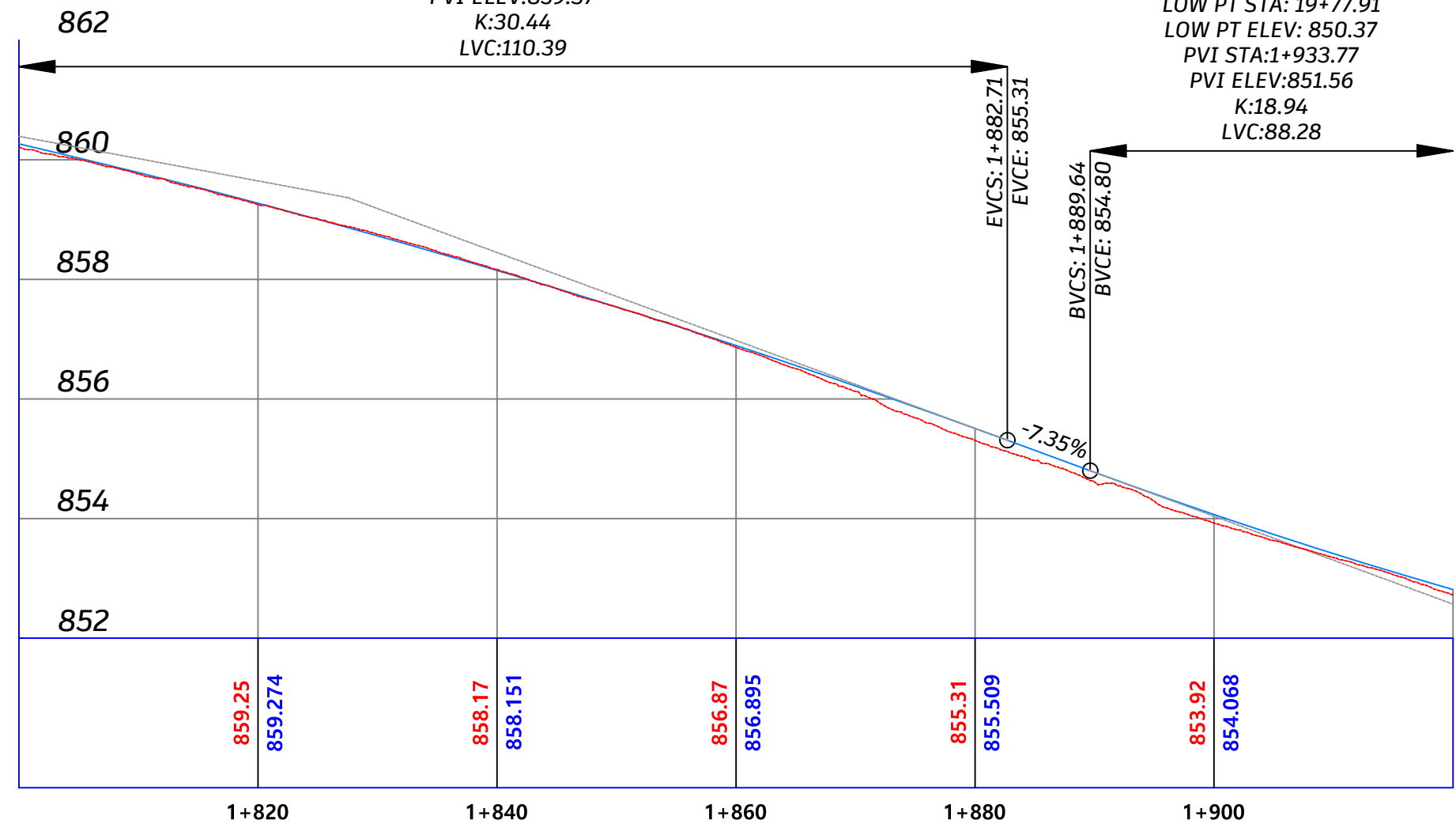


- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE M.H

HIGH PT STA: 17+72.32
 HIGH PT ELEV: 861.42
 PVI STA: 1+827.51
 PVI ELEV: 859.37
 K: 30.44
 LVC: 110.39

LOW PT STA: 19+77.91
 LOW PT ELEV: 850.37
 PVI STA: 1+933.77
 PVI ELEV: 851.56
 K: 18.94
 LVC: 88.28



Designed By: Ahmad Nammura
 Arafat Hanani
 Fadi Younis
 Hamdan Alsada

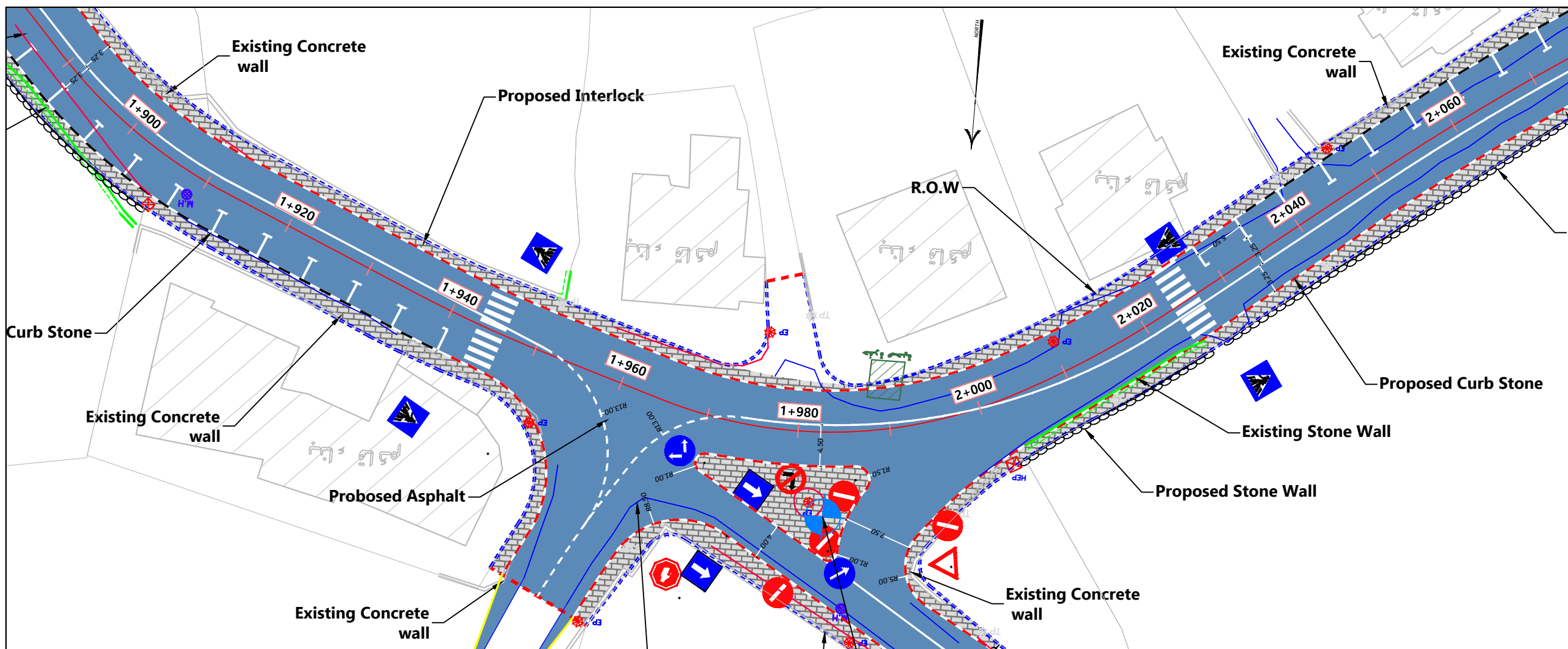
Supervisor:
Dr. Mutaz Qafisha

Project Name:
 شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
 From St 1+800.00 To St 1+920.00

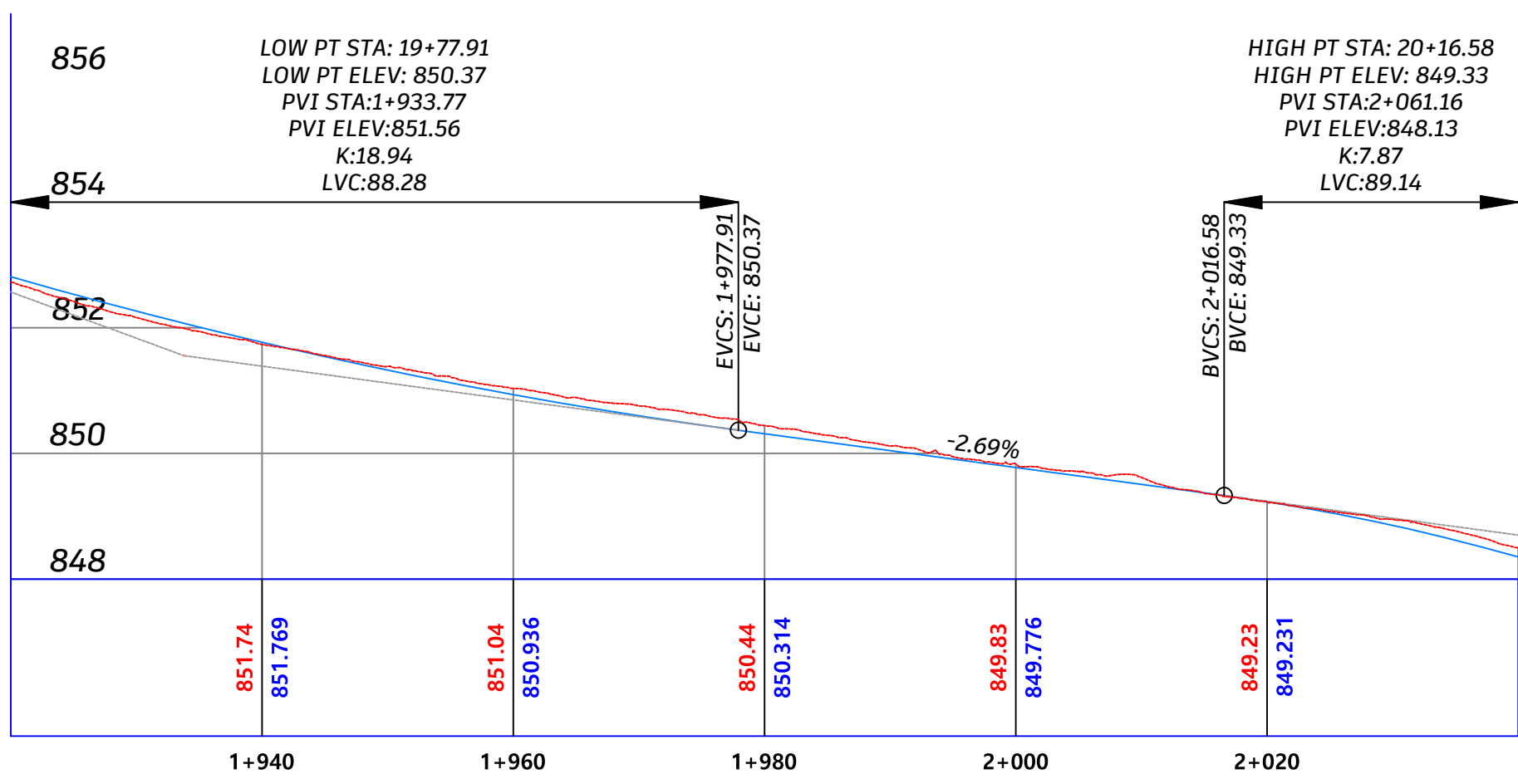
Date:
12.2024

Scale: 1:200H 1:500V
 Sheet No: 16



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE



Palestine Polytechnic University



Designed By: Ahmad Nammura, Arafat Hanani, Fadi Younis, Hamdan Alsada

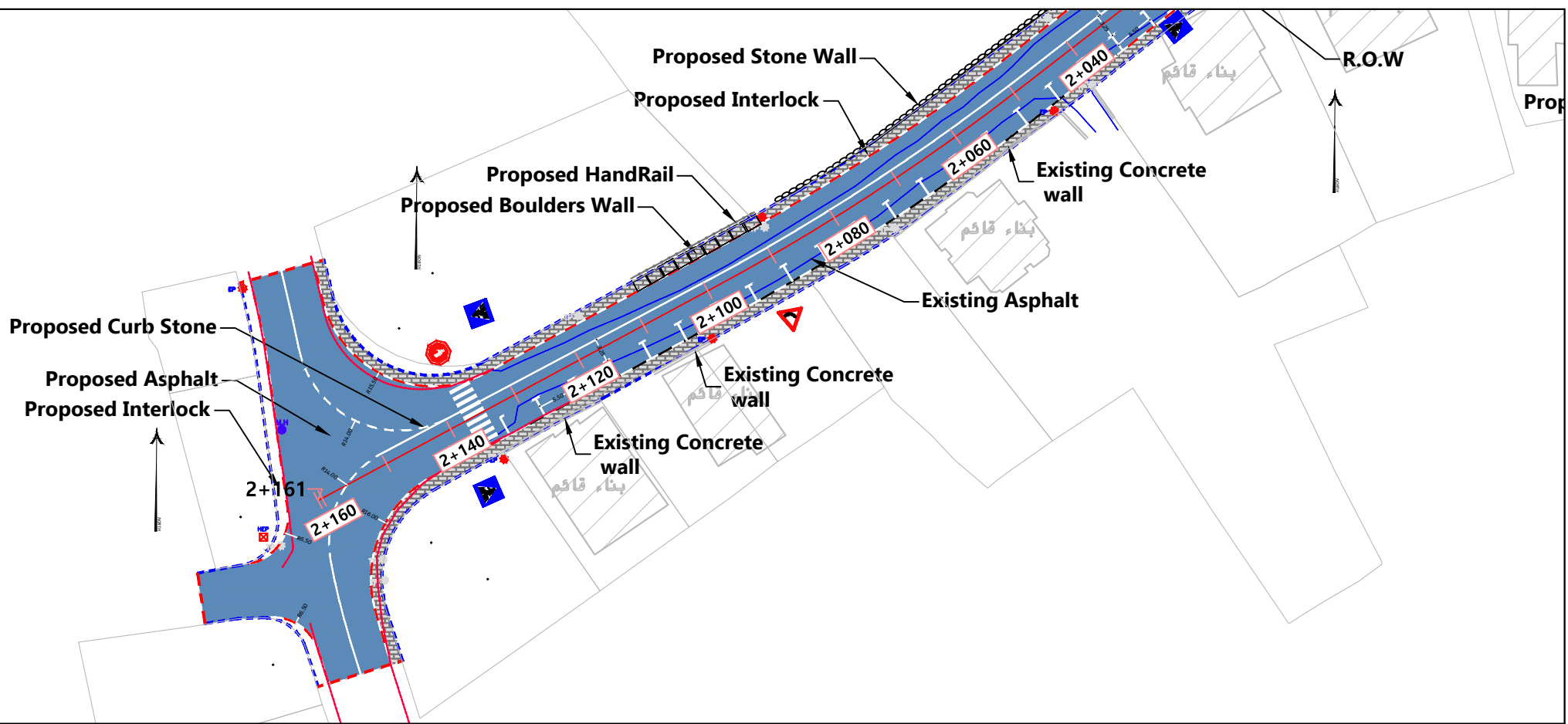
Supervisor: Dr. Mutaz Qafisha

Project Name: شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title: Plan & Profile
From St 1+920.00 To St 2+040.00

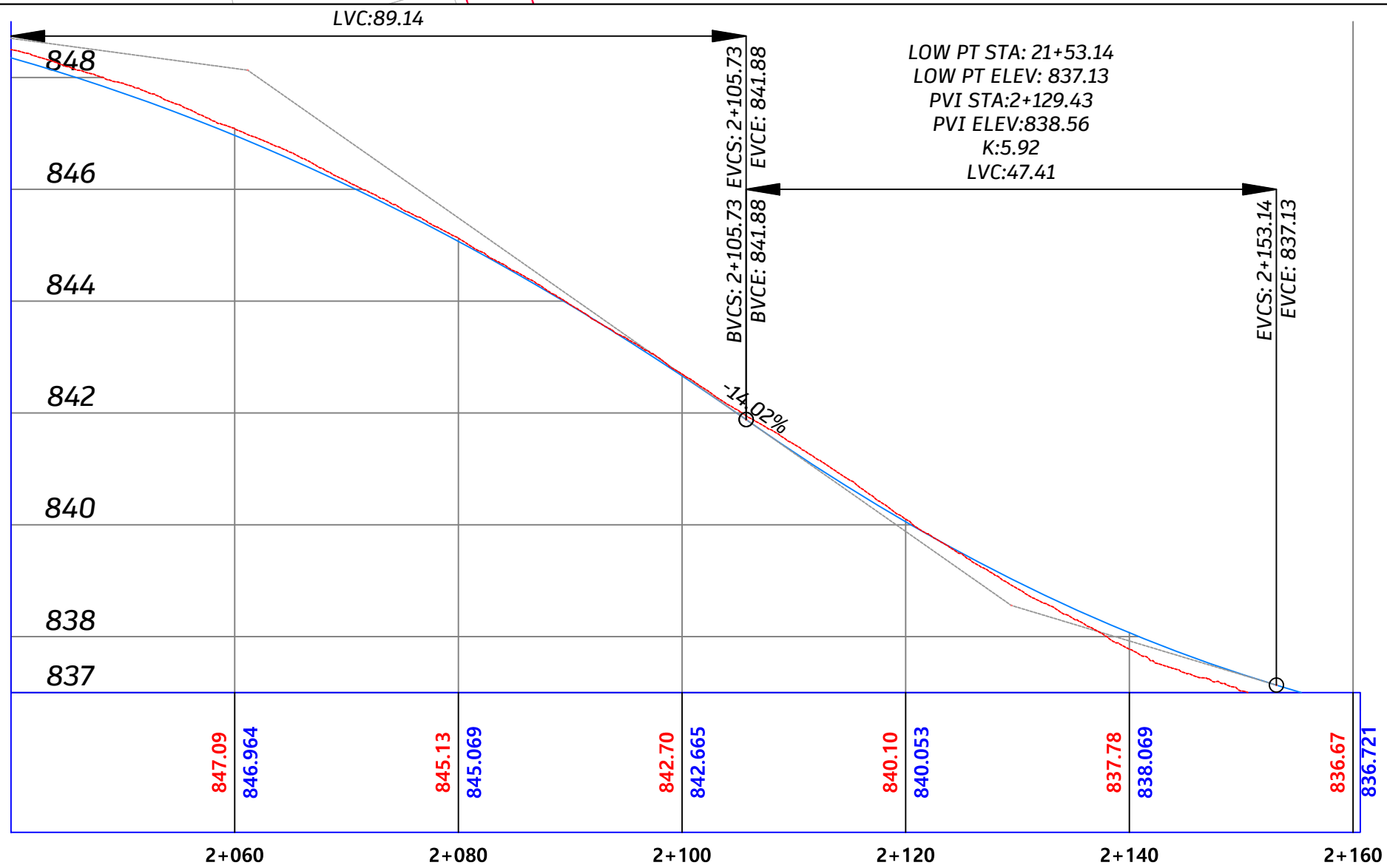
Date: 12.2024

Scale: 1-200H 1-500V | Sheet No: 17



- Notes:
- ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 - ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 - COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 - DESIGN SPEED IS 50 Km/h

- LEGEND FOR PROFILE :
- EXIST. GROUND
 - PROPOSED PGL
- LEGEND AND ABBREVIATIONS :
- CENTER LINE
 - EXISTING PAVMENT ROAD
 - EXISTING BUILDING
 - EXISTING CONCRETE WALL
 - EXISTING STONE WALL
 - PROPOSED STONE BLOCKS
 - PROPOSED CONCRETE WALL
 - PROPOSED STONE WALL
 - INTERLOCK
 - PROPOSED CURVE STONE
 - PROPOSED HAND RAILS
 - PROPOSED CONCRETE GRAVITY WALL
 - ELECTRIC POLE EP
 - TELEPHONE POLE TP
 - HIGH VOLTAGE POLE HEP
 - WATER MANHOLE



Designed By:
Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

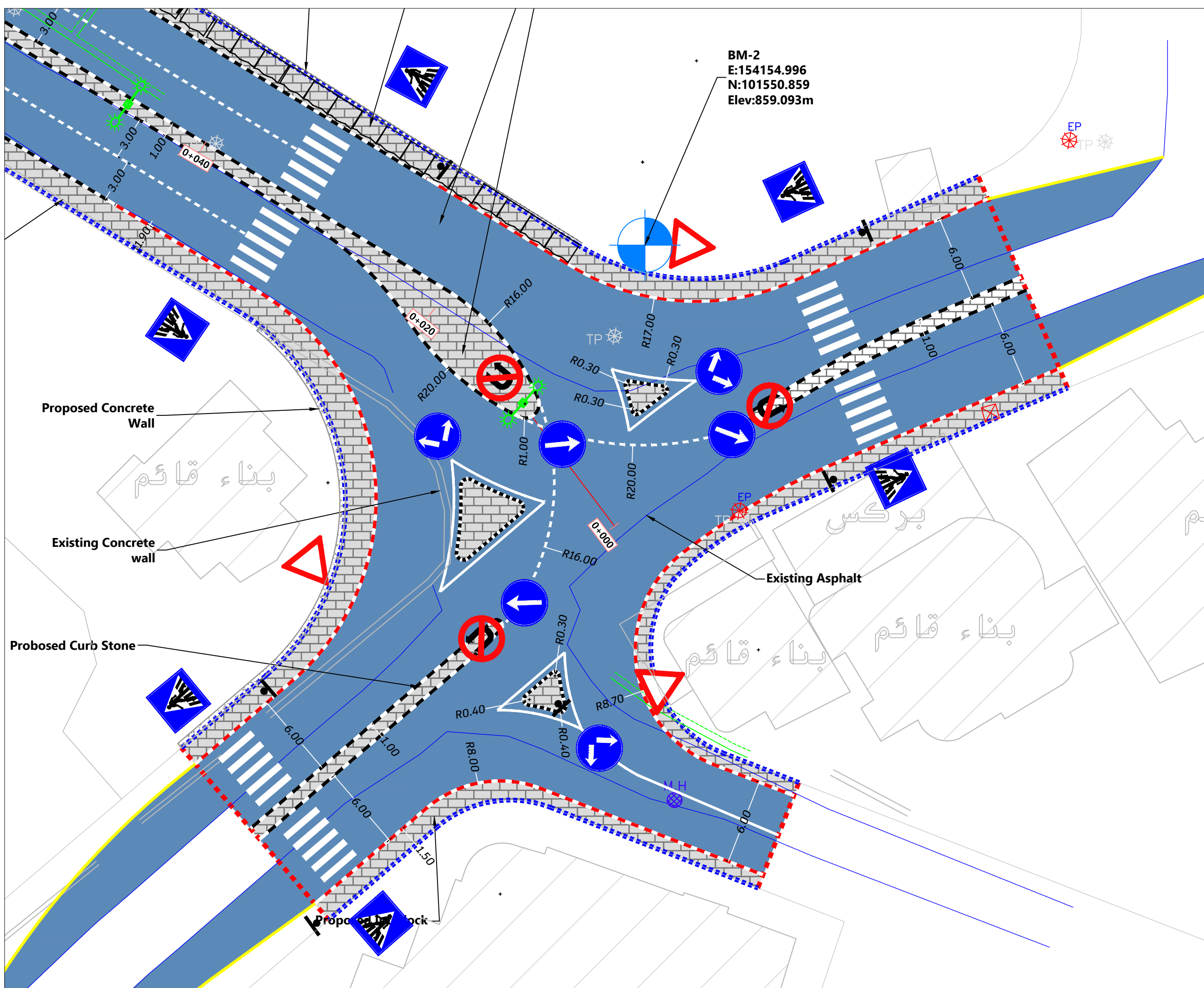
Supervisor:
Dr .Mutaz Qafisha

Project Name :
شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title : **Plan & Profile**
From St 2+040.00 To St 2+160.64

Date :
12.2024

Scale : **1-200H 1-500V** Sheet No : **18**



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND

PROPOSED PGL

LEGEND AND ABBREVIATIONS :

CENTER LINE

EXISTING PAVMENT ROAD

EXISTING BUILDING

EXISTING CONCRETE WALL

EXISTING STONE WALL

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE M.H



Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr. Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

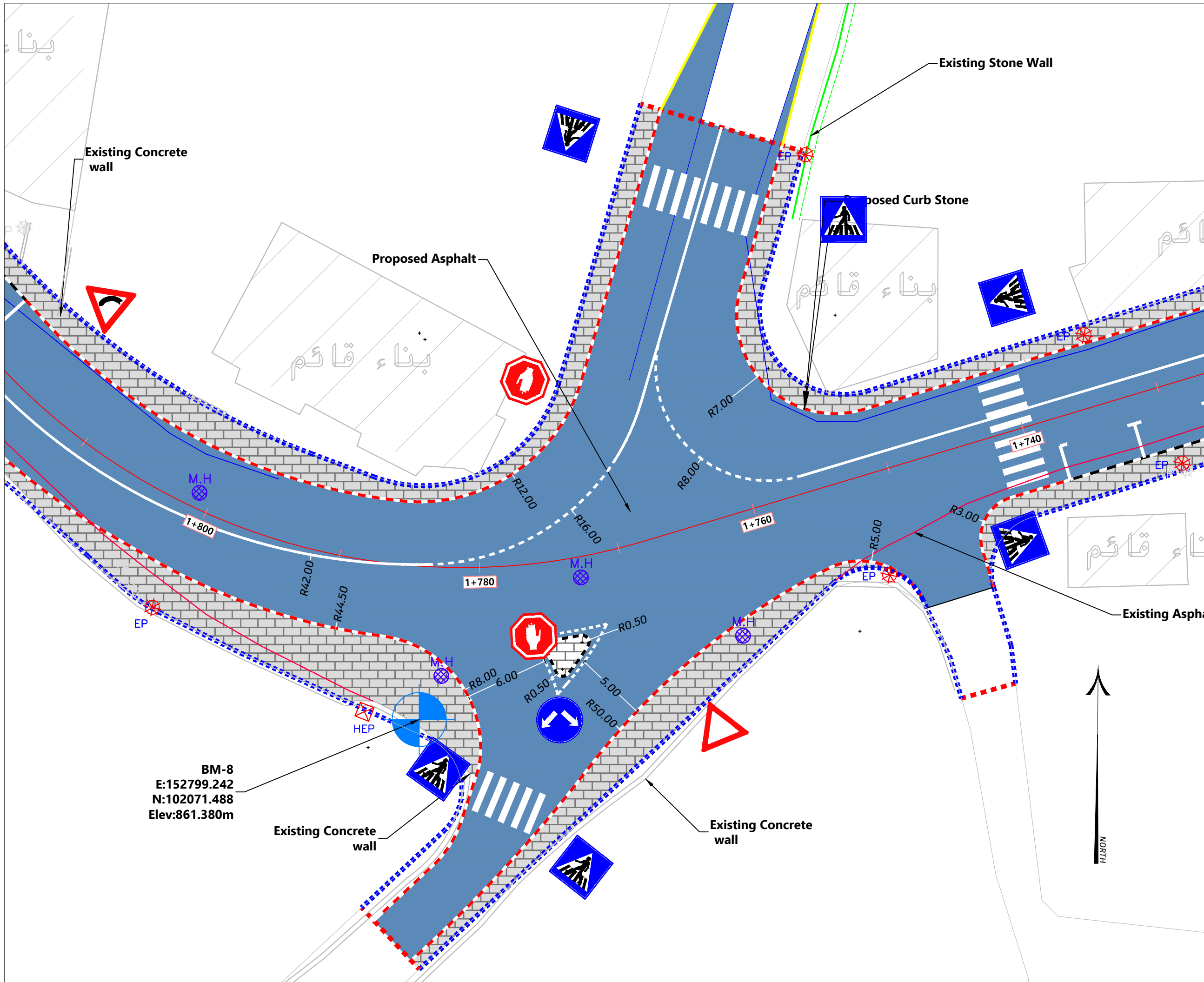
Drawing Title :

Intersection

Date :

12.2024

Sheet No : **IS_1**



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

Palestine Polytechnic University

Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr. Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title :

Intersection

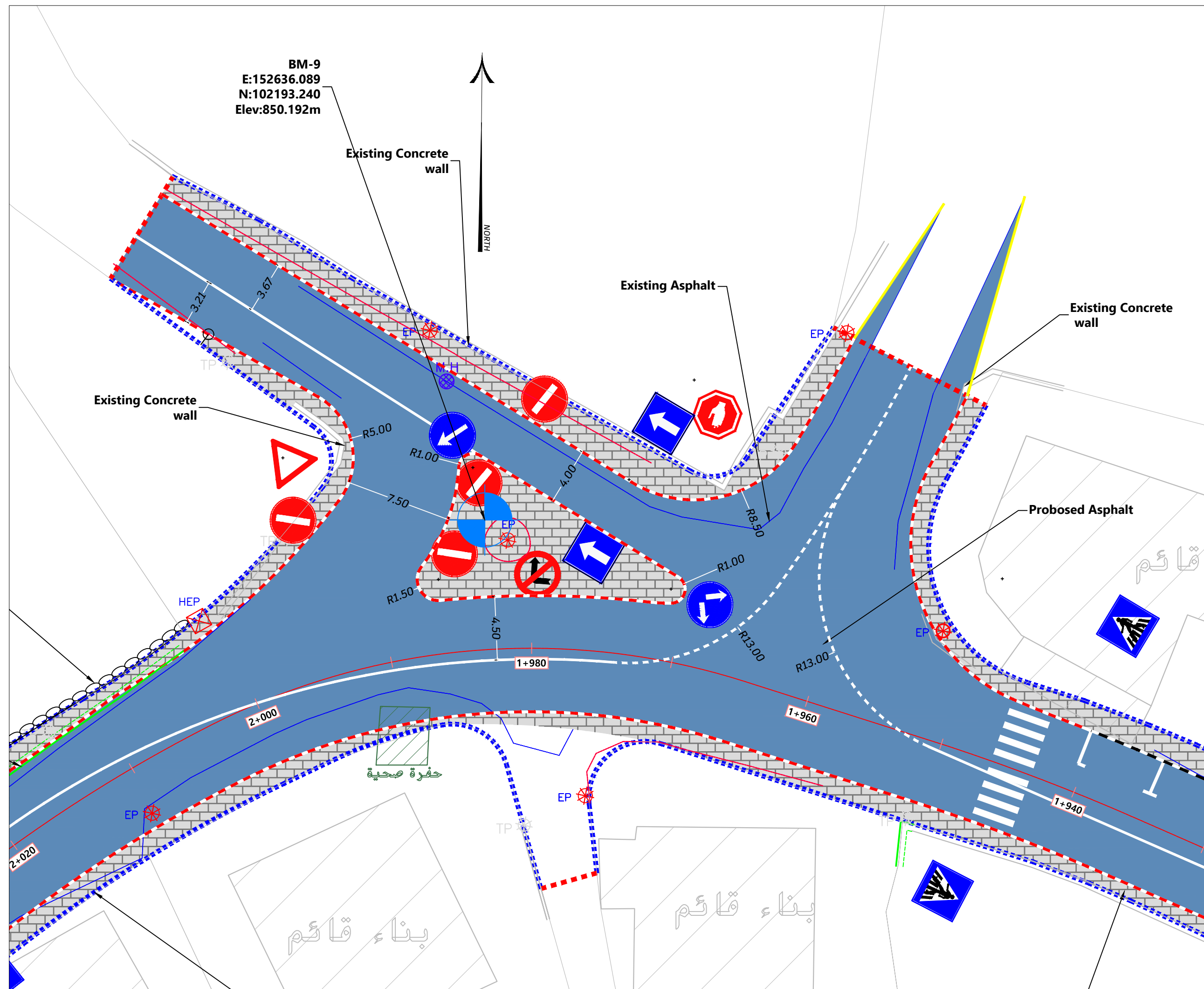
Date :

12.2024

Sheet No : **IS_2**

BM-8
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Elev:861.380m





- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

EXIST. GROUND —

PROPOSED PGL —

LEGEND AND ABBREVIATIONS :

CENTER LINE —

EXISTING PAVMENT ROAD —

EXISTING BUILDING

EXISTING CONCRETE WALL —

EXISTING STONE WALL —

PROPOSED STONE BLOCKS

PROPOSED CONCRETE WALL

PROPOSED STONE WALL

INTERLOCK

PROPOSED CURVE STONE

PROPOSED HAND RAILS

PROPOSED CONCRETE GRAVITY WALL

ELECTRIC POLE EP

TELEPHONE POLE TP

HIGH VOLTAGE POLE HEP

WATER MANHOLE

Palestine Polytechnic University

Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr .Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

Drawing Title :

Intersection

Date :

12.2024

Sheet No : **IS_3**

- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND FOR PROFILE :

LEGEND AND ABBREVIATIONS :

EXIST. GROUND	
PROPOSED PGL	
CENTER LINE	
EXISTING PAVMENT ROAD	
EXISTING BUILDING	
EXISTING CONCRETE WALL	
EXISTING STONE WALL	
PROPOSED STONE BLOCKS	
PROPOSED CONCRETE WALL	
PROPOSED STONE WALL	
INTERLOCK	
PROPOSED CURVE STONE	
PROPOSED HAND RAILS	
PROPOSED CONCRETE GRAVITY WALL	
ELECTRIC POLE	EP
TELEPHONE POLE	TP
HIGH VOLTAGE POLE	HEP
WATER MANHOLE	M.H



Designed By:

Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:

Dr. Mutaz Qafisha

Project Name :

شارع كتار - راه الحمام / محطة صلح دورا

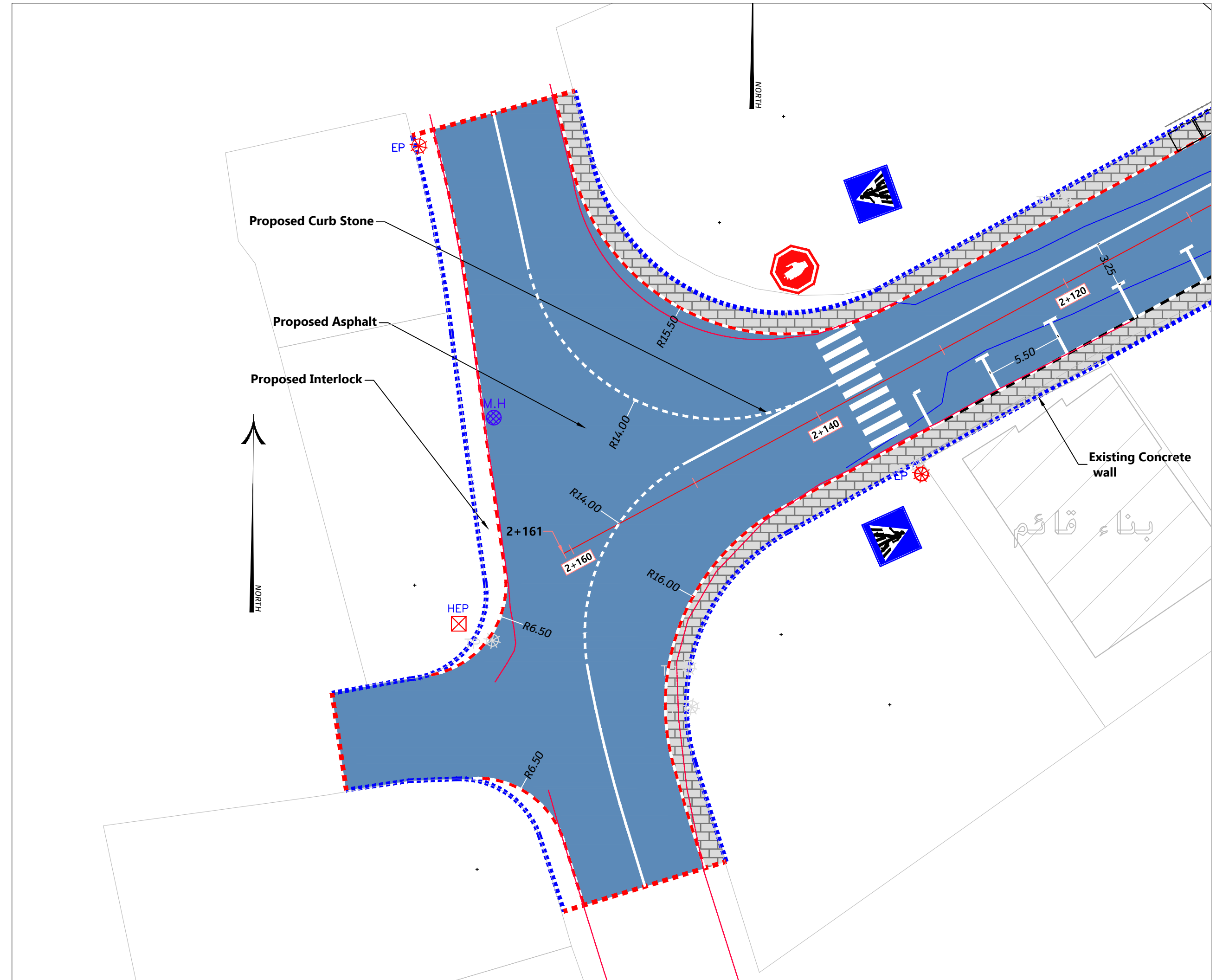
Drawing Title :

Intersection

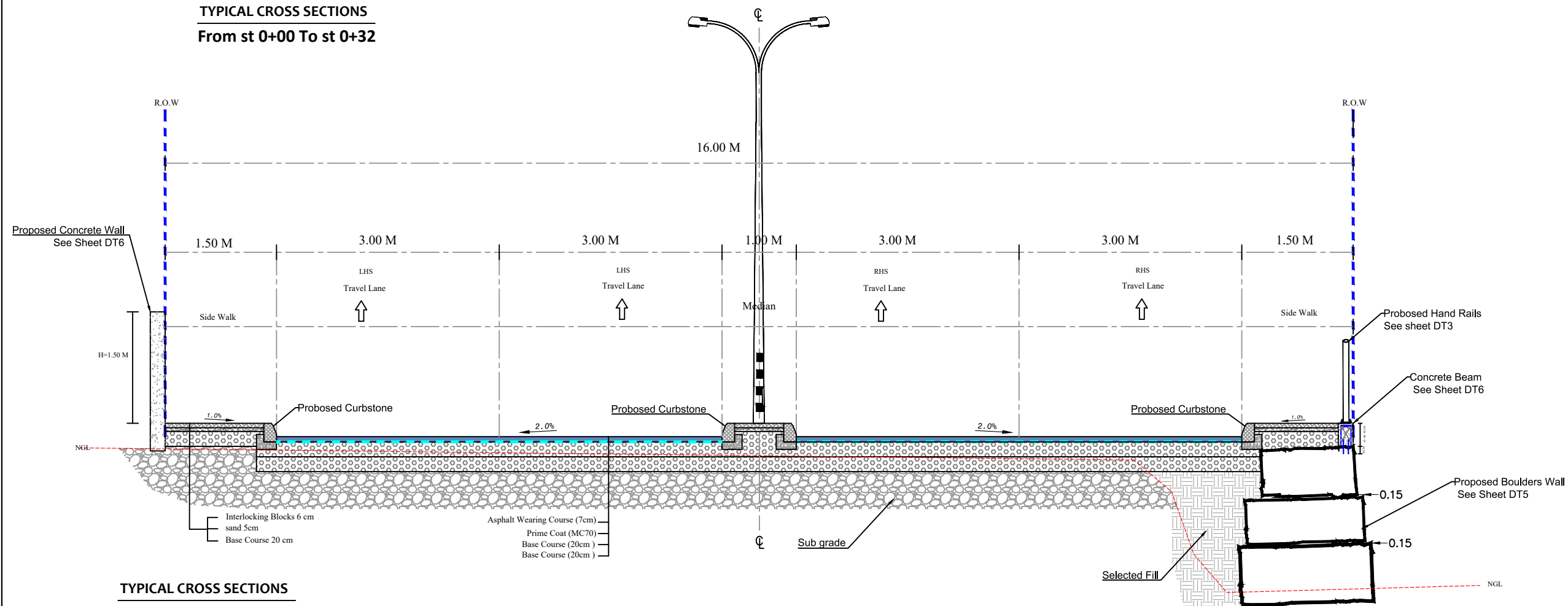
Date :

12.2024

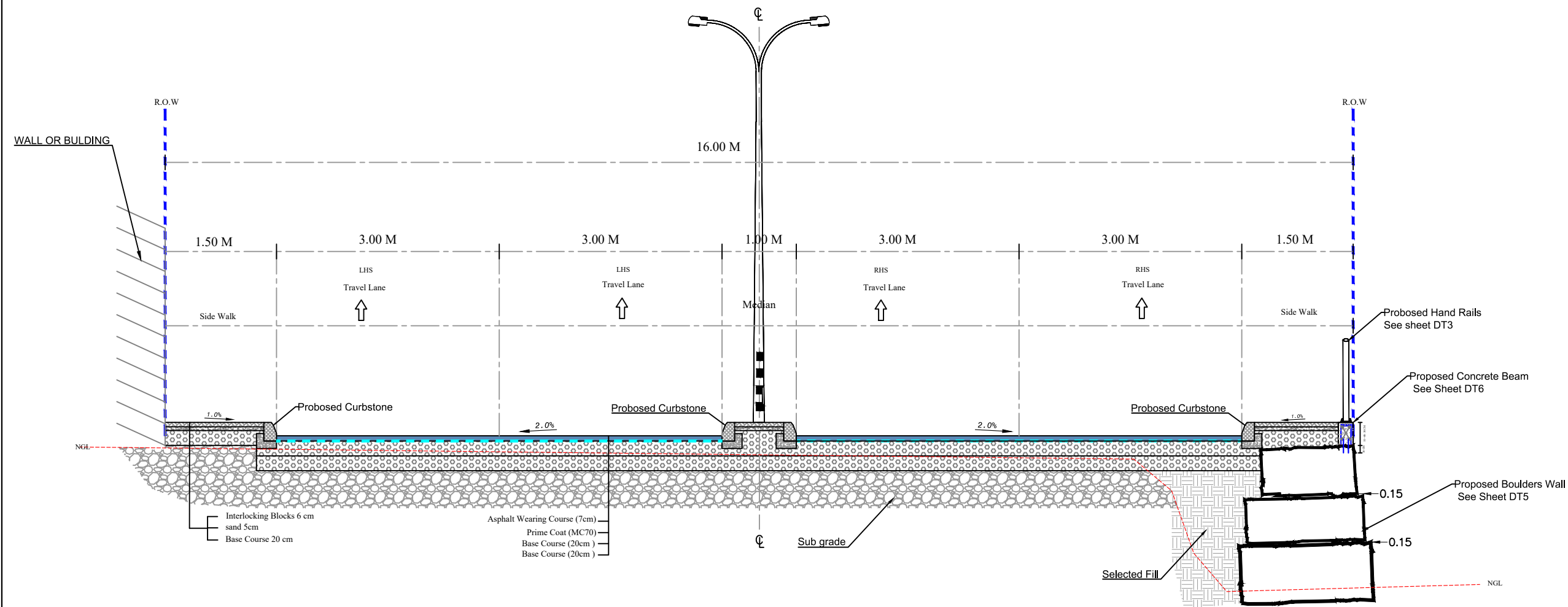
Sheet No : **IS_4**



TYPICAL CROSS SECTIONS
From st 0+00 To st 0+32



TYPICAL CROSS SECTIONS
From st 0+32 To st 0+53



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr. Mutaz Qafisha**

Project Name : **طابق كثار - ياد الحمام / محكمة صلح دورا**

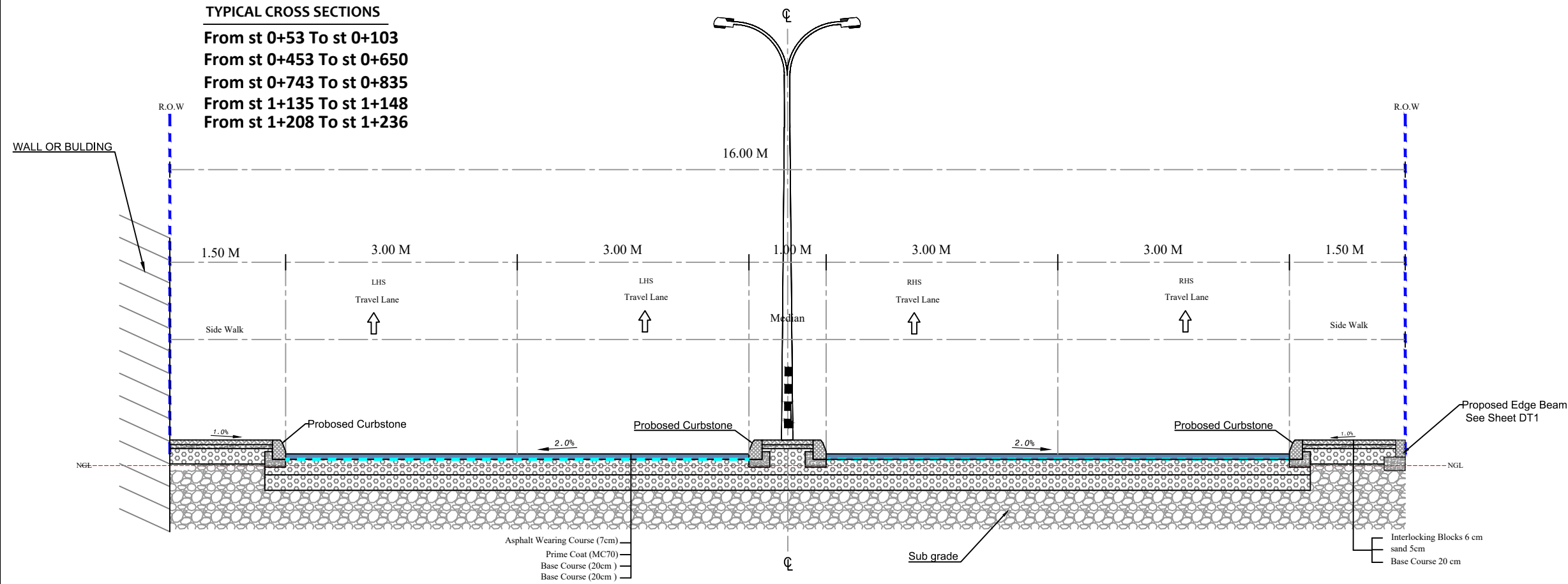
Drawing Title : **Typical Cross Section**

Date : **12.2024**

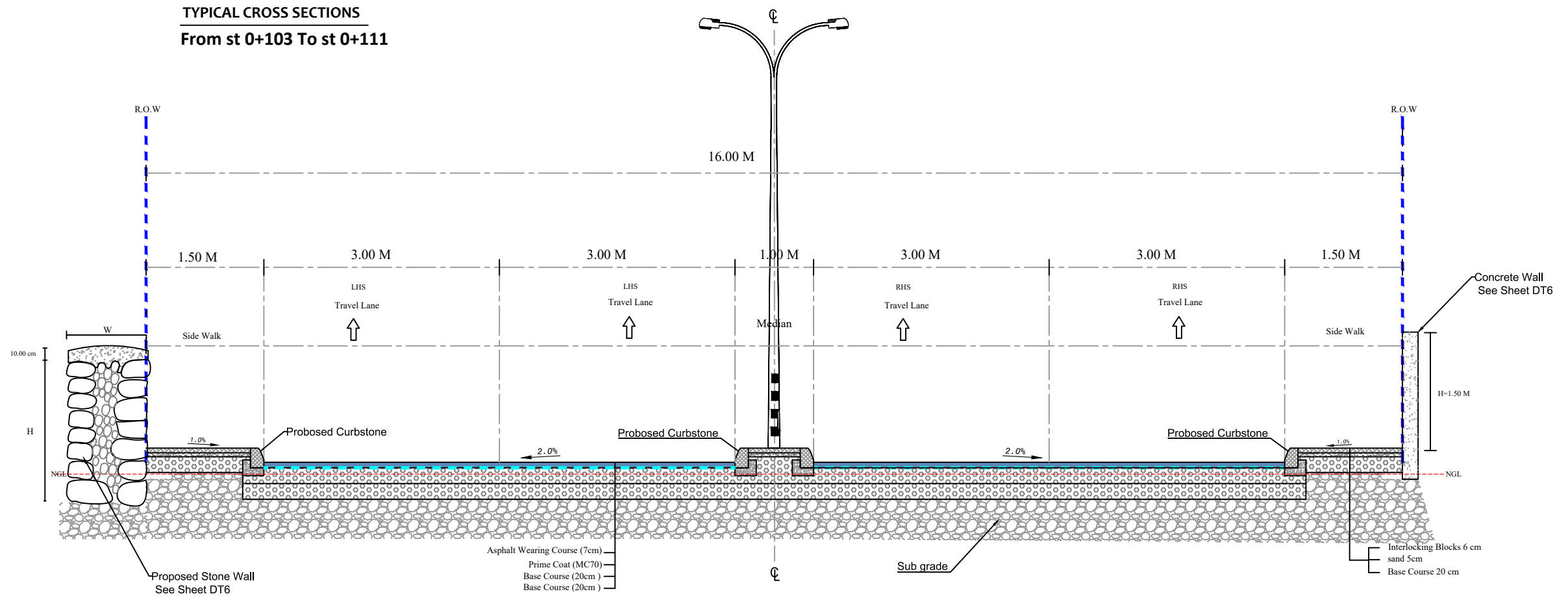
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Sheet No : **T.C.S - 01**

TYPICAL CROSS SECTIONS
From st 0+53 To st 0+103
From st 0+453 To st 0+650
From st 0+743 To st 0+835
From st 1+135 To st 1+148
From st 1+208 To st 1+236



TYPICAL CROSS SECTIONS
From st 0+103 To st 0+111



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arifat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr .Mutaz Qafisha**

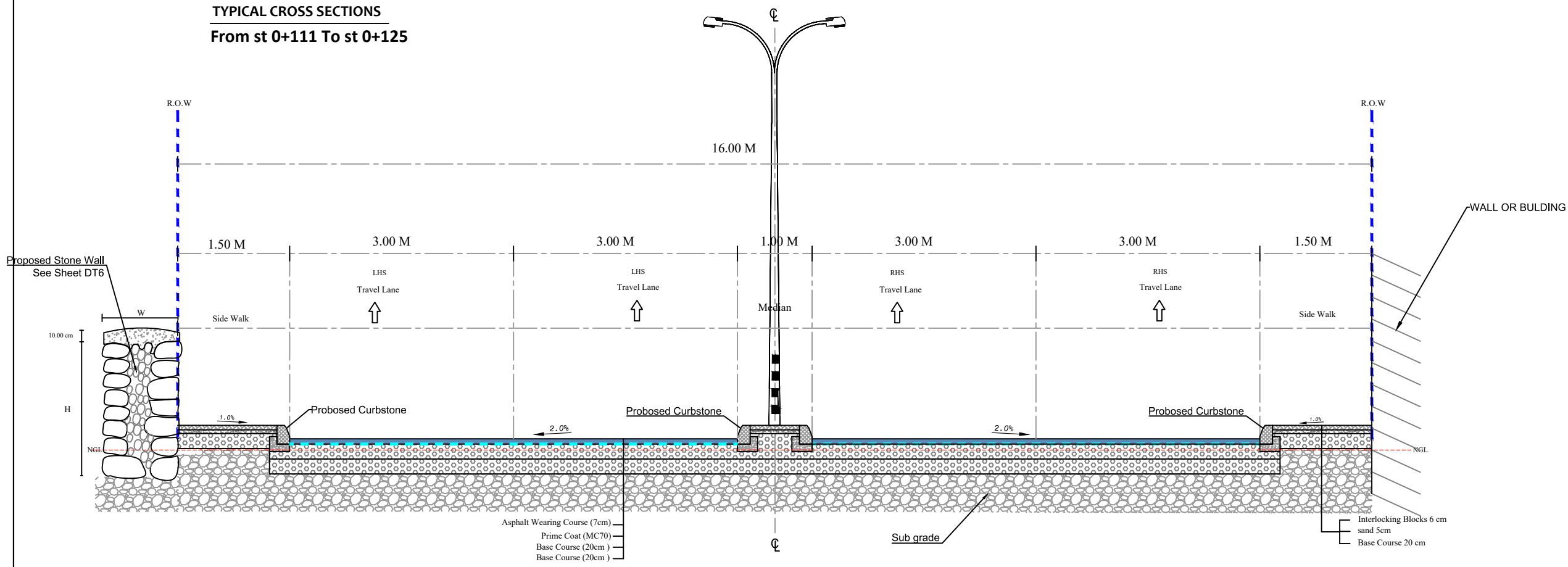
Project Name : **طابع كتار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Typical Cross Section**

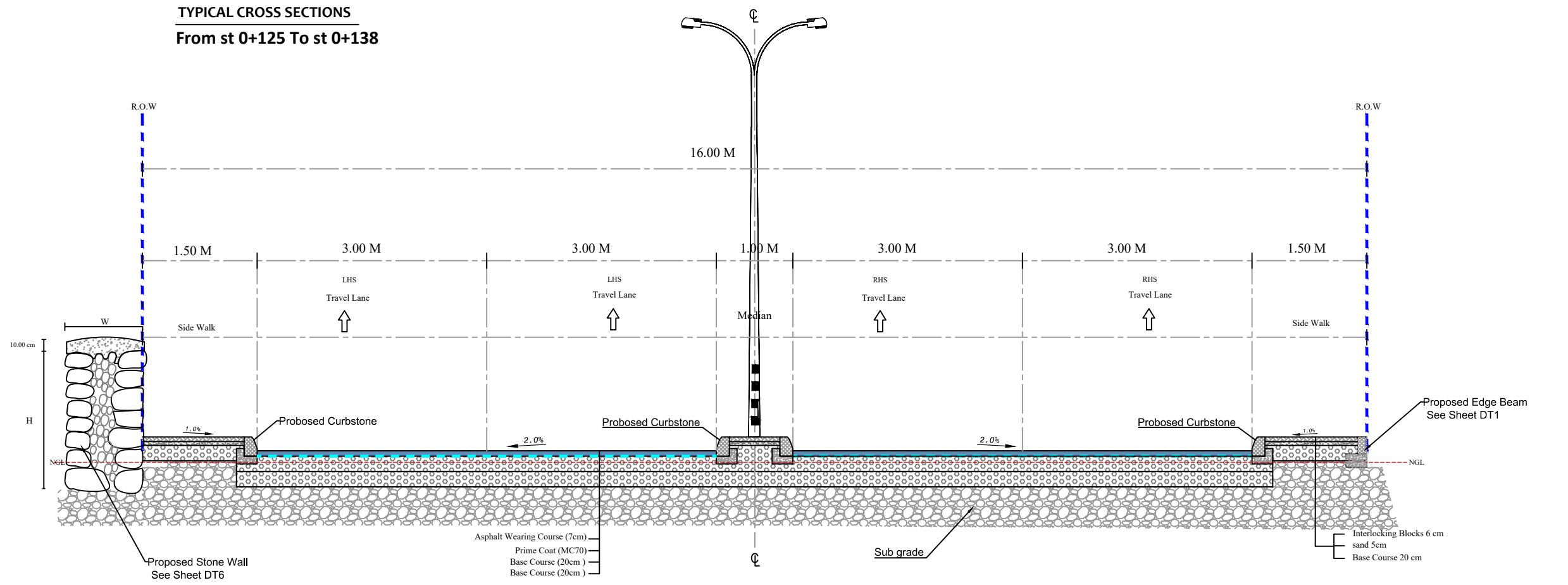
Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **T.C.S - 02**

TYPICAL CROSS SECTIONS
From st 0+111 To st 0+125



TYPICAL CROSS SECTIONS
From st 0+125 To st 0+138



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr. Mutaz Qafisha**

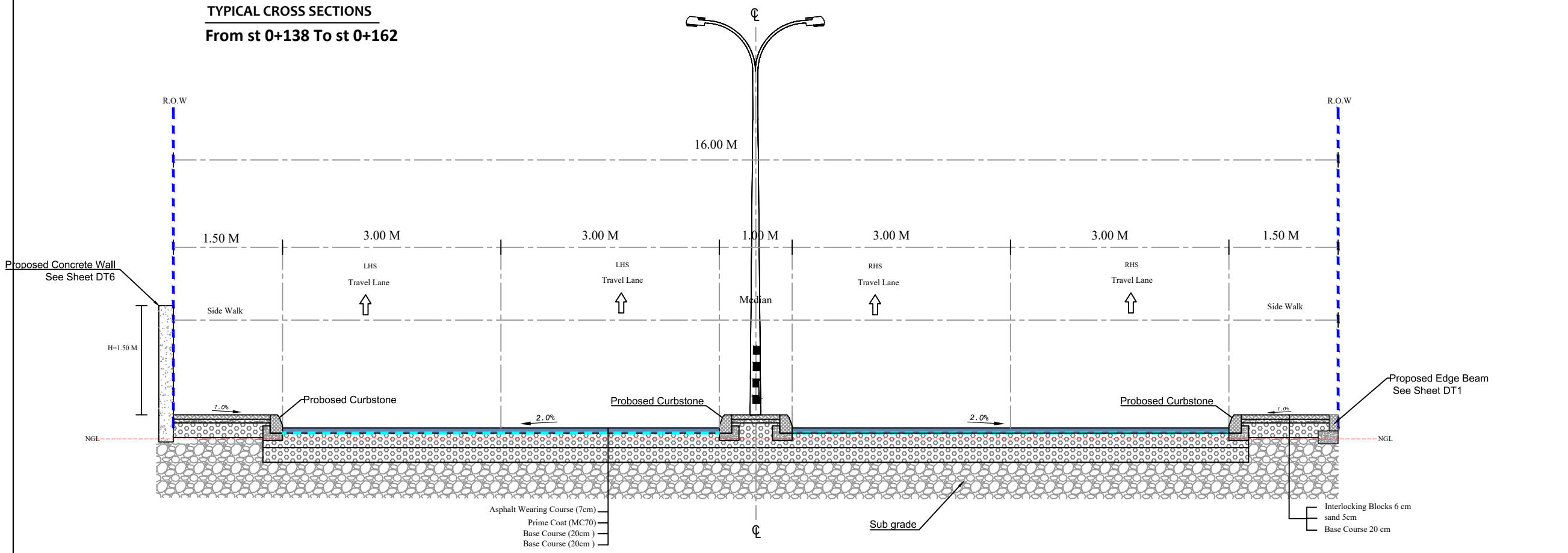
Project Name : **طريق كنفار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Typical Cross Section**

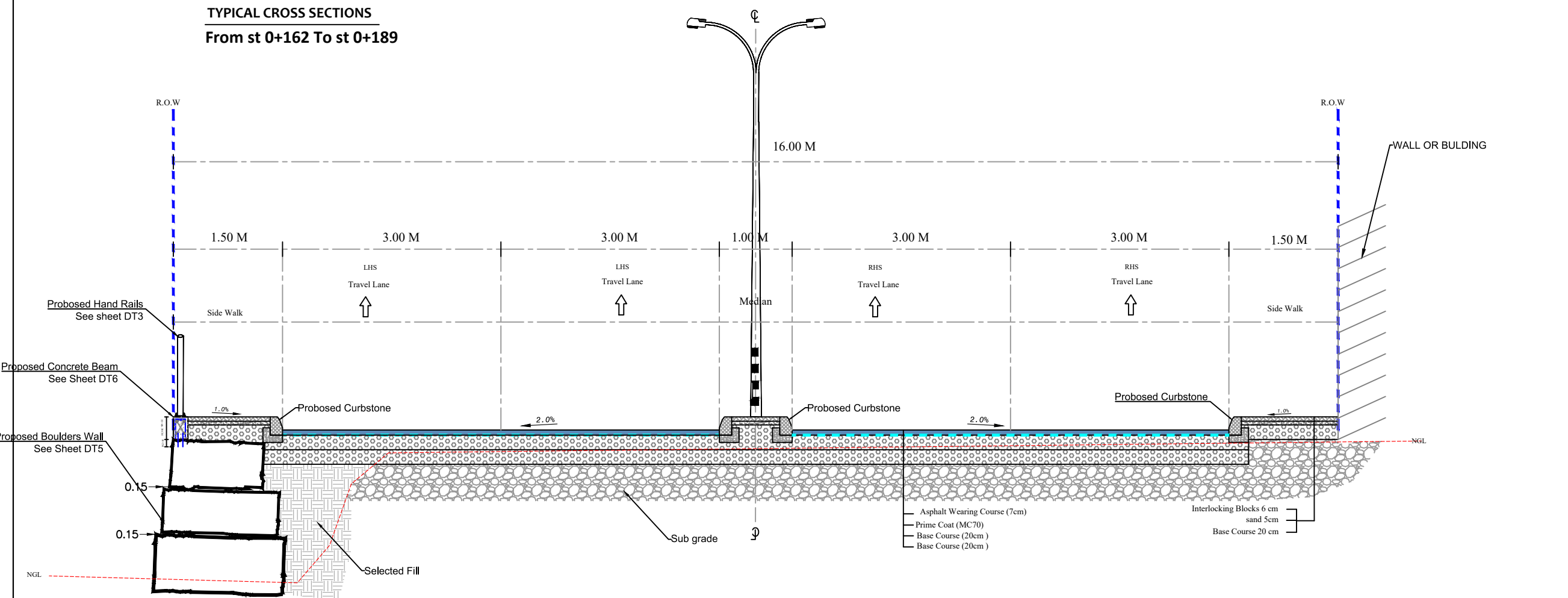
Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **T.C.S - 03**

TYPICAL CROSS SECTIONS
From st 0+138 To st 0+162



TYPICAL CROSS SECTIONS
From st 0+162 To st 0+189



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr. Mutaz Qafisha**

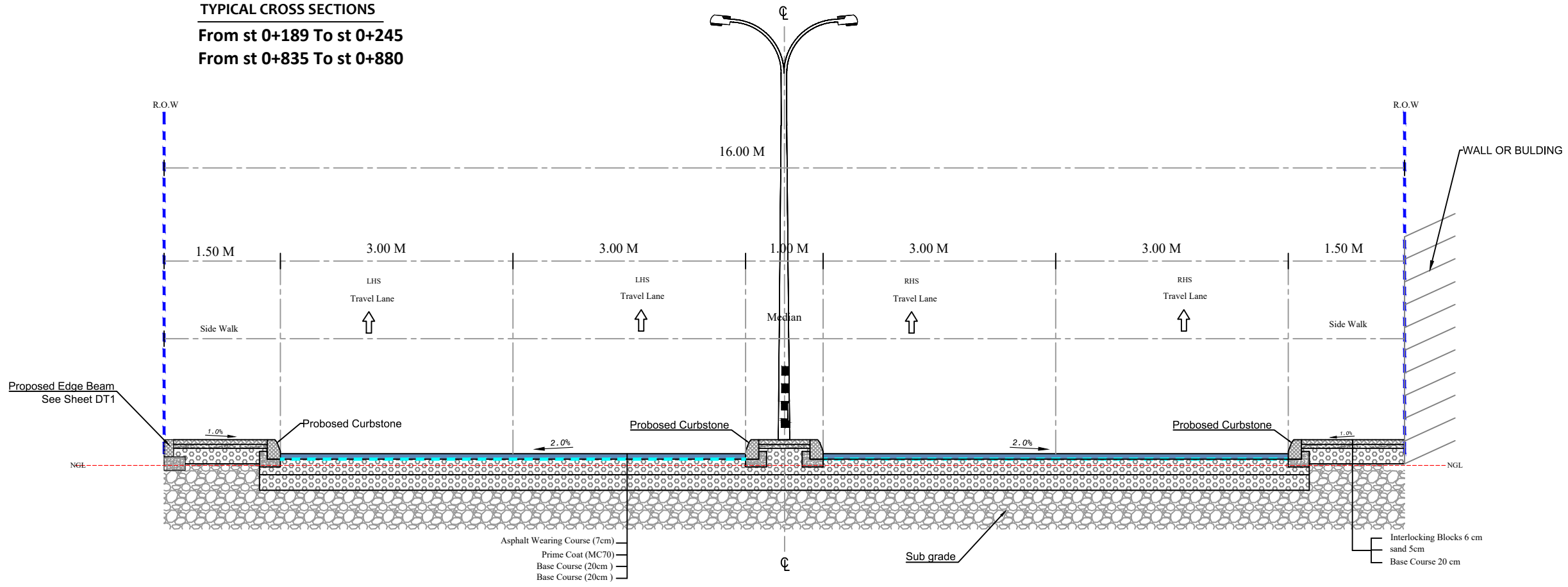
Project Name : **شارع كتار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Typical Cross Section**

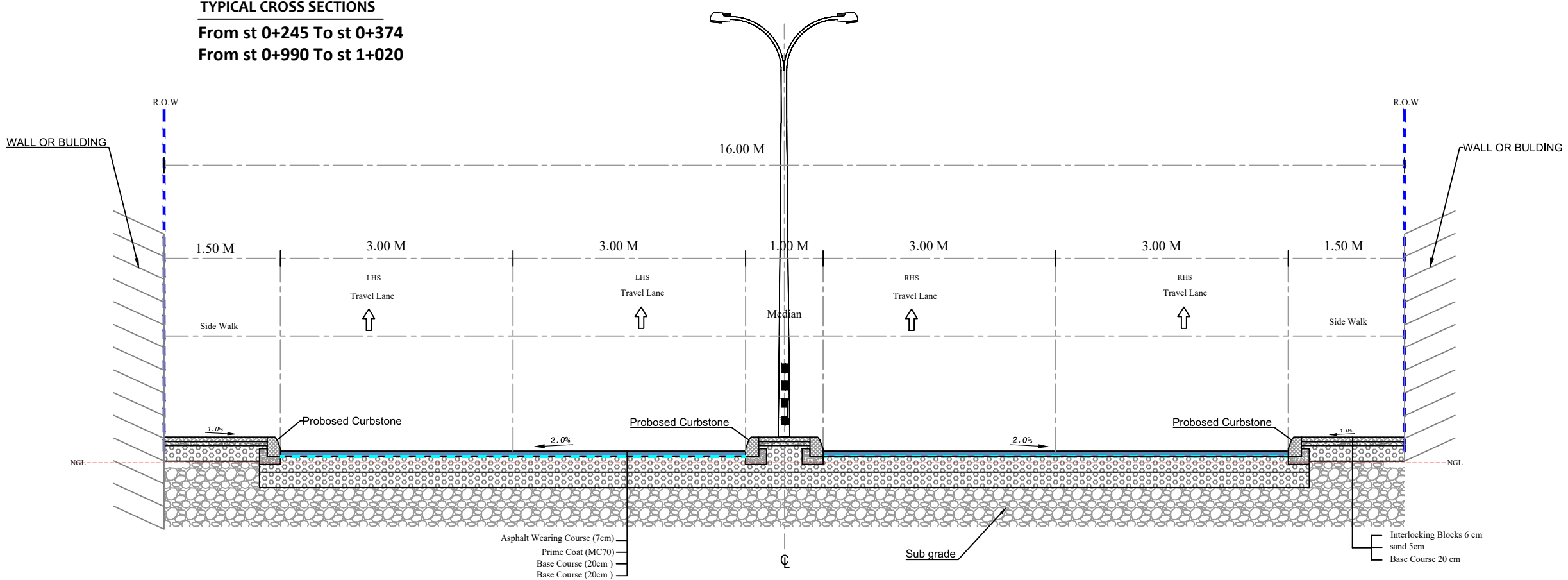
Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **T.C.S - 04**

TYPICAL CROSS SECTIONS
From st 0+189 To st 0+245
From st 0+835 To st 0+880



TYPICAL CROSS SECTIONS
From st 0+245 To st 0+374
From st 0+990 To st 1+020



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr .Mutaz Qafisha

Project Name :
طابق كنفار - ياد الحمام / محكمة صلح دورا

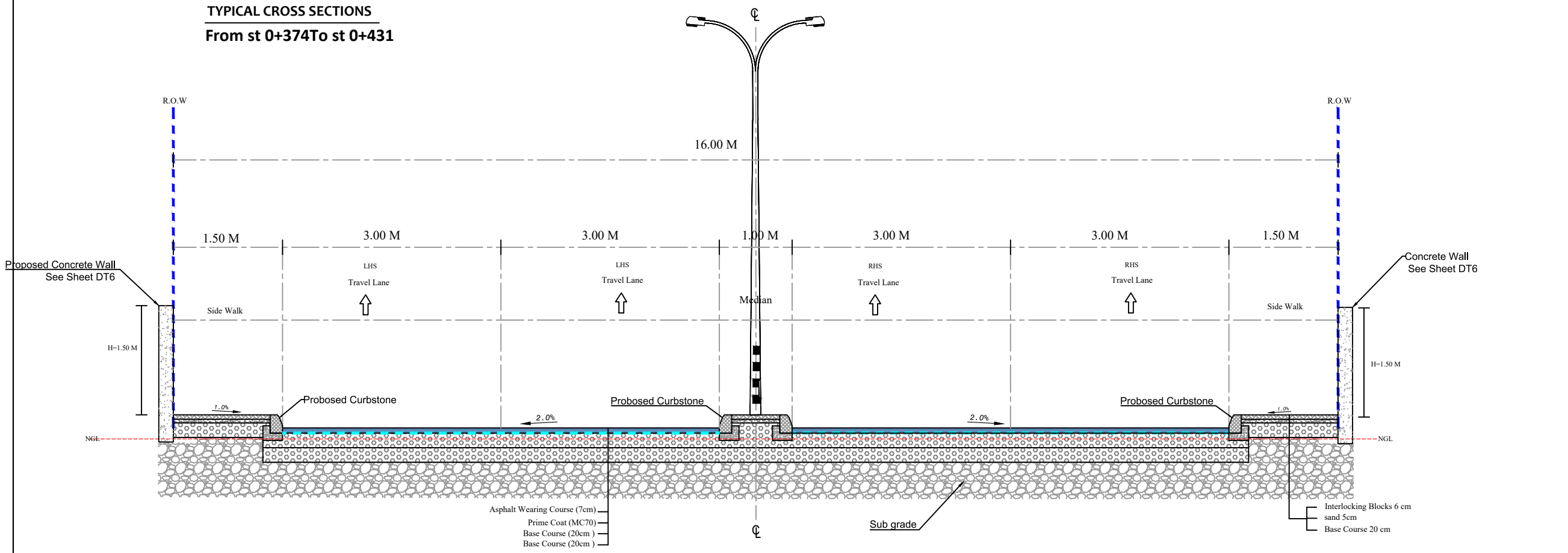
Drawing Title :
Typical Cross Section

Date :
12.2024

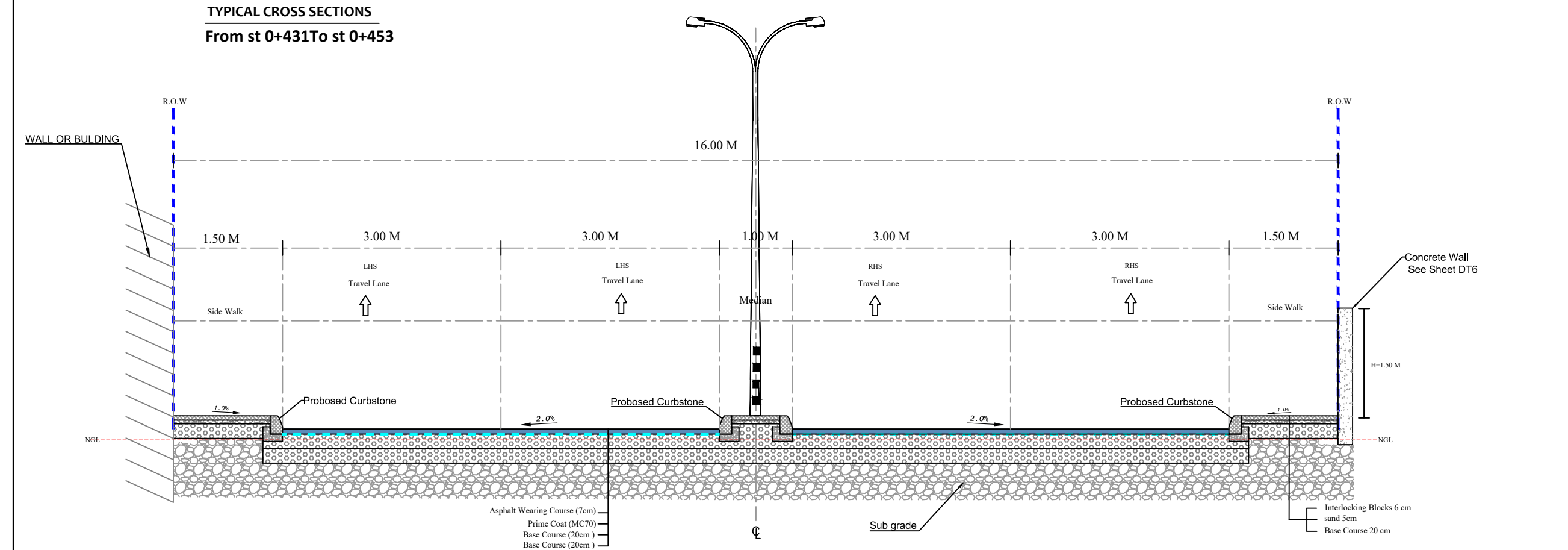
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Sheet No :
T.C.S - 05

TYPICAL CROSS SECTIONS
From st 0+374 To st 0+431



TYPICAL CROSS SECTIONS
From st 0+431 To st 0+453



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr .Mutaz Qafisha**

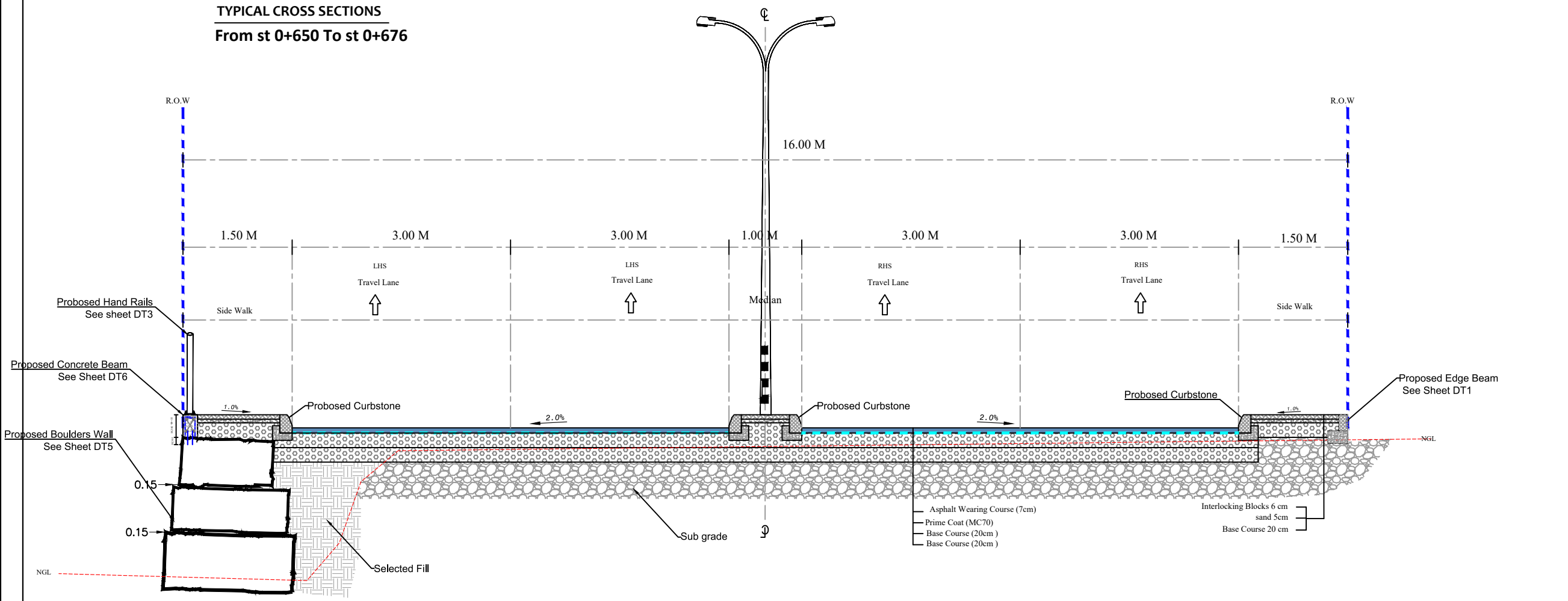
Project Name : **طابع كتار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Typical Cross Section**

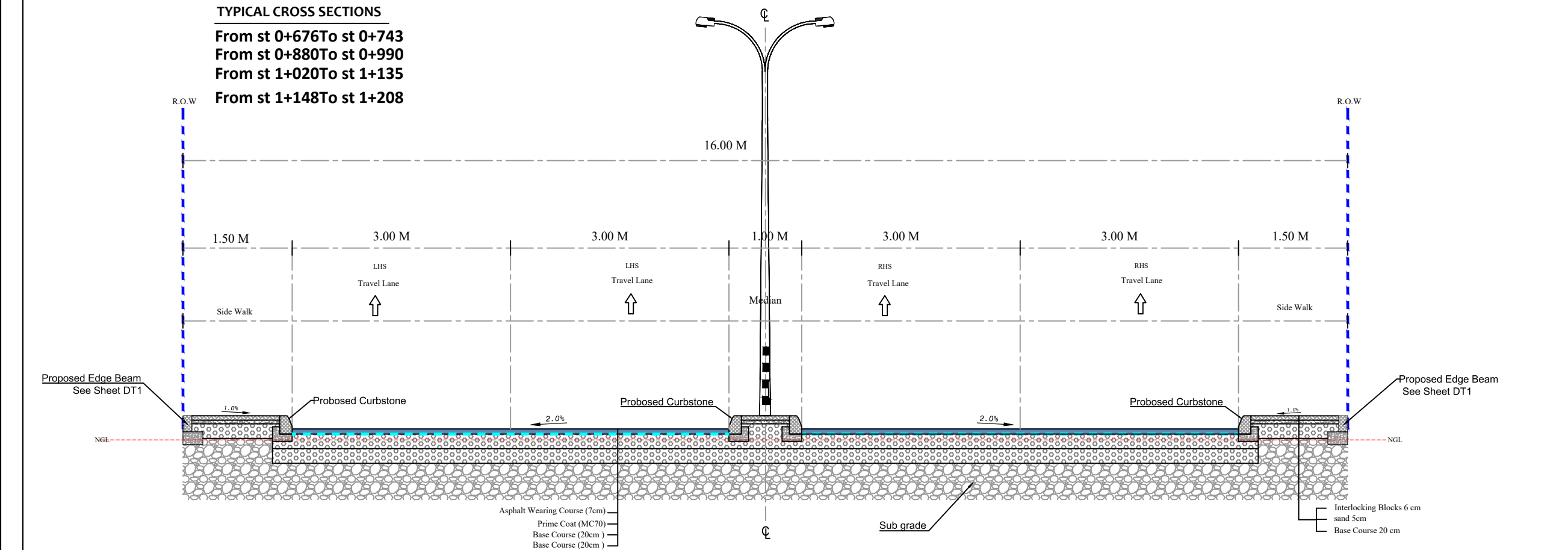
Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **T.C.S - 06**

TYPICAL CROSS SECTIONS
From st 0+650 To st 0+676



TYPICAL CROSS SECTIONS
From st 0+676 To st 0+743
From st 0+880 To st 0+990
From st 1+020 To st 1+135
From st 1+148 To st 1+208



- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr .Mutaz Qafisha**

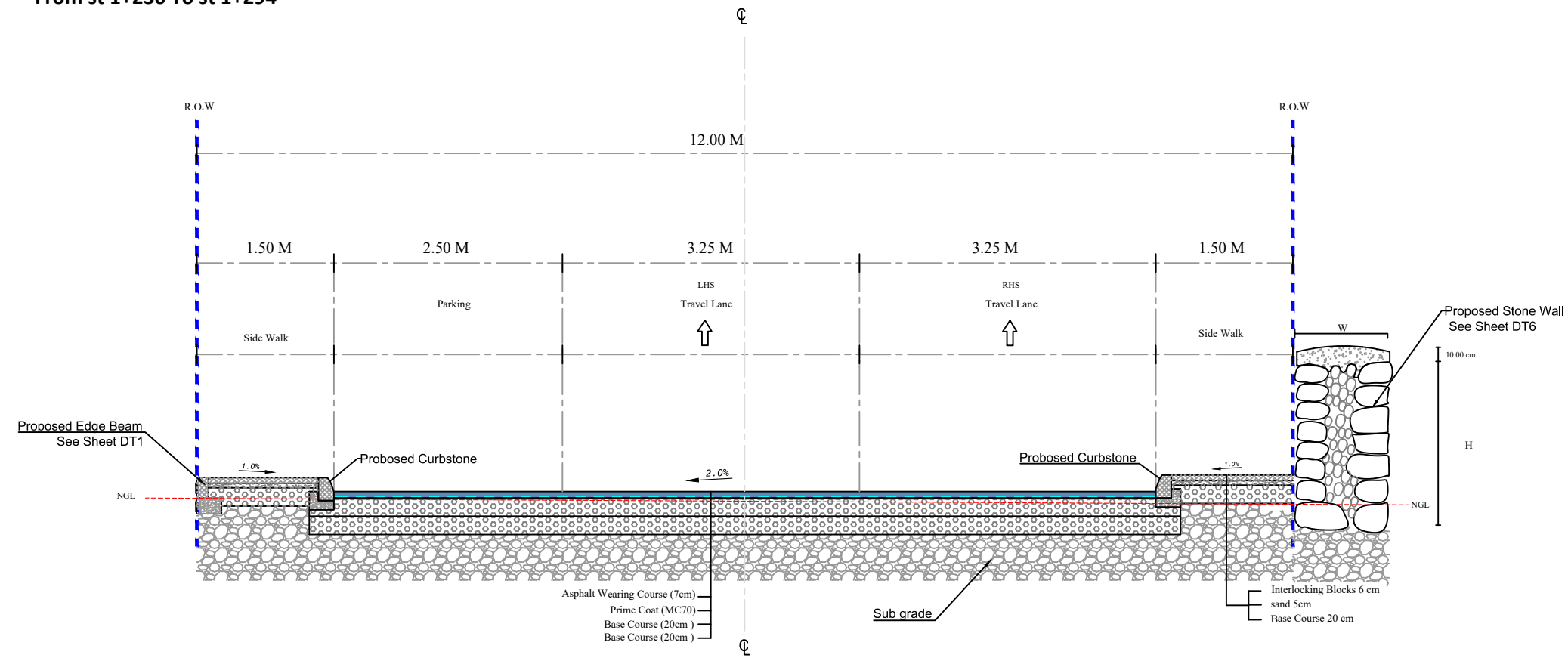
Project Name : **طريق كنفار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Typical Cross Section**

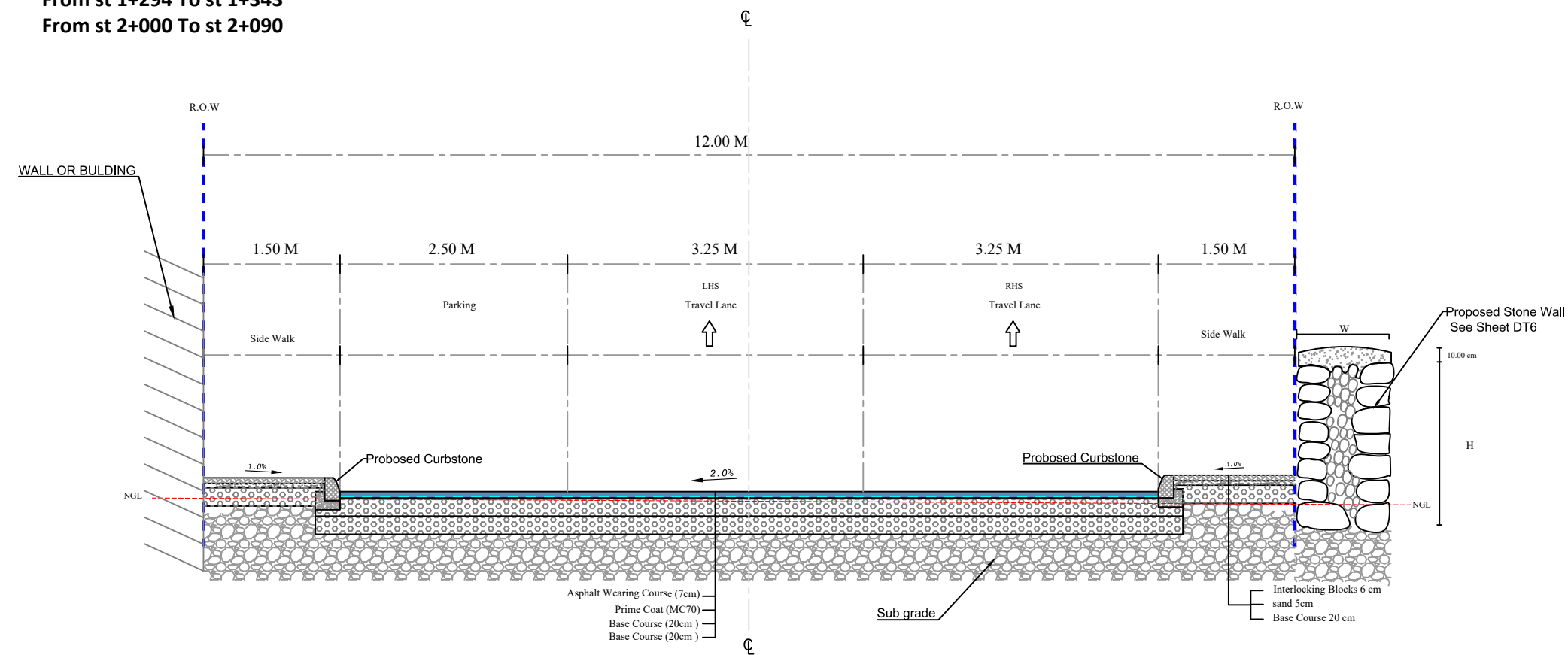
Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **T.C.S - 07**

TYPICAL CROSS SECTIONS
From st 1+236 To st 1+294



TYPICAL CROSS SECTIONS
From st 1+294 To st 1+343
From st 2+000 To st 2+090



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr .Mutaz Qafisha

Project Name :
شارع كتار - ياد الحمام / محكمة صلح دورا

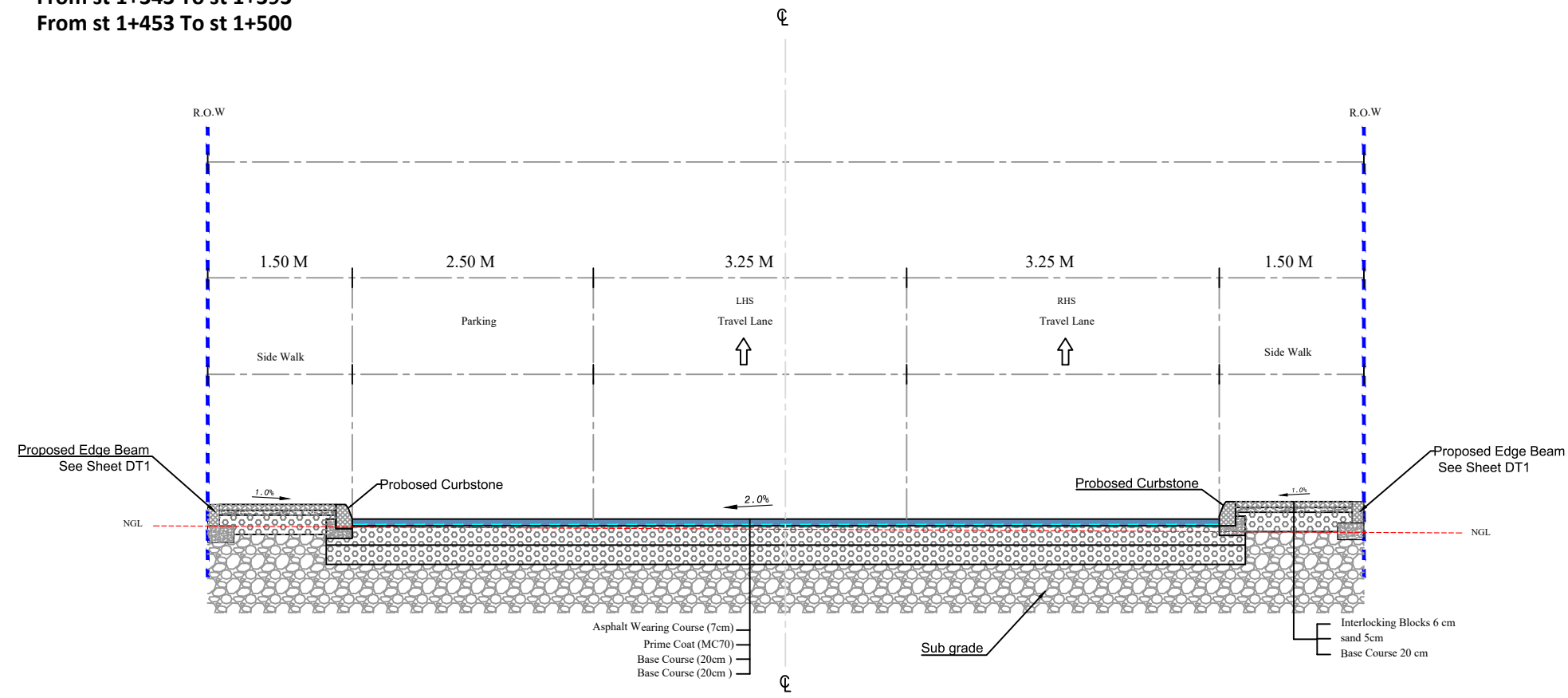
Drawing Title :
Typical Cross Section

Date :
12.2024

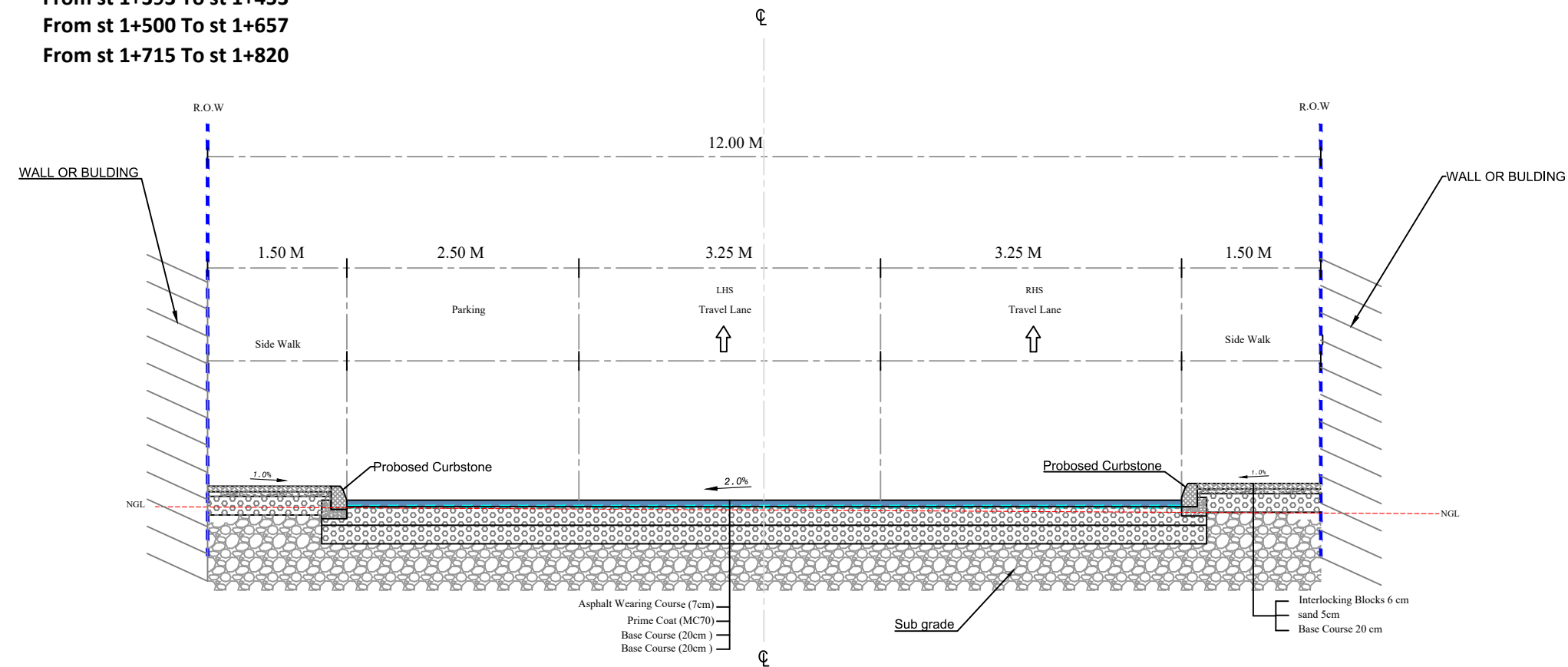
Scale :
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Sheet No :
T.C.S - 08

TYPICAL CROSS SECTIONS
From st 1+343 To st 1+393
From st 1+453 To st 1+500



TYPICAL CROSS SECTIONS
From st 1+393 To st 1+453
From st 1+500 To st 1+657
From st 1+715 To st 1+820



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr .Mutaz Qafisha

Project Name :
شارع كتار - ياد الحمام / محكمة صلح دورا

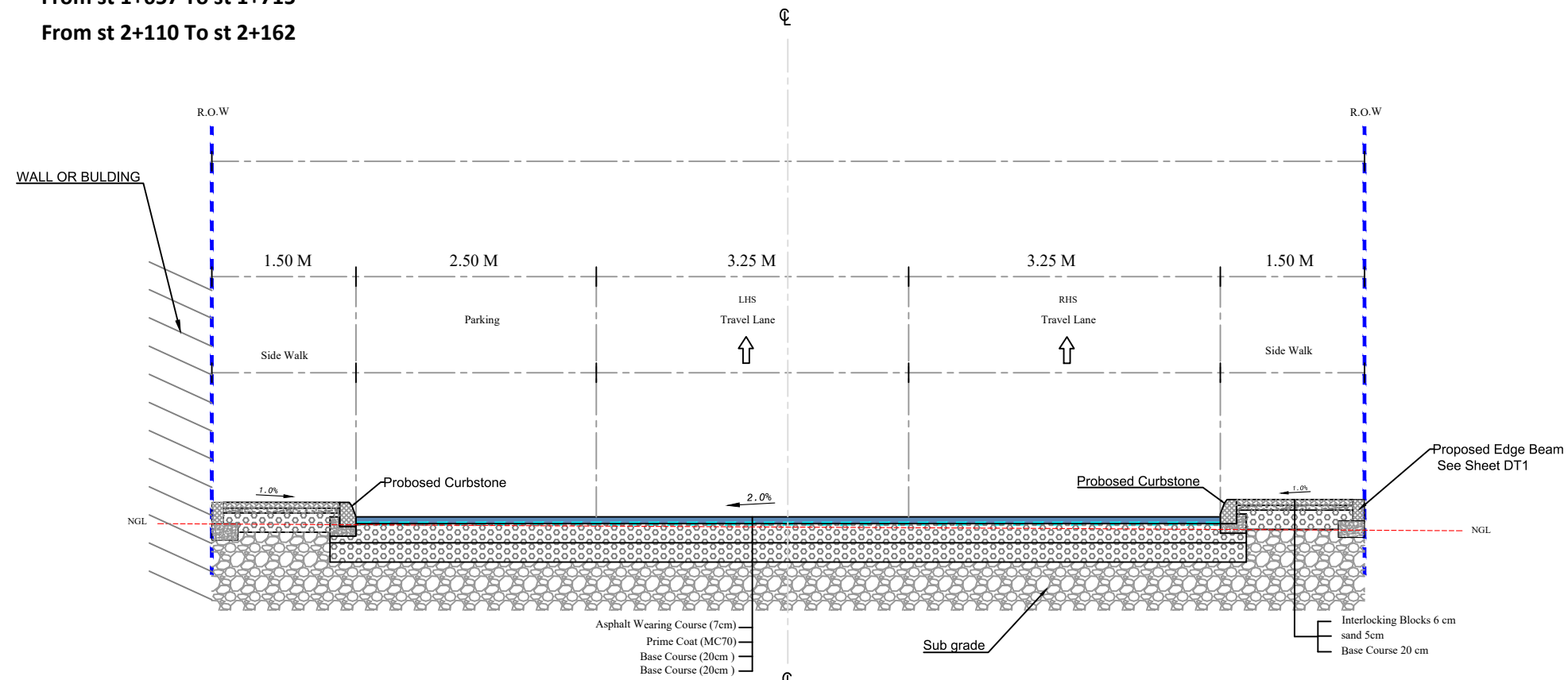
Drawing Title :
Typical Cross Section

Date :
12.2024

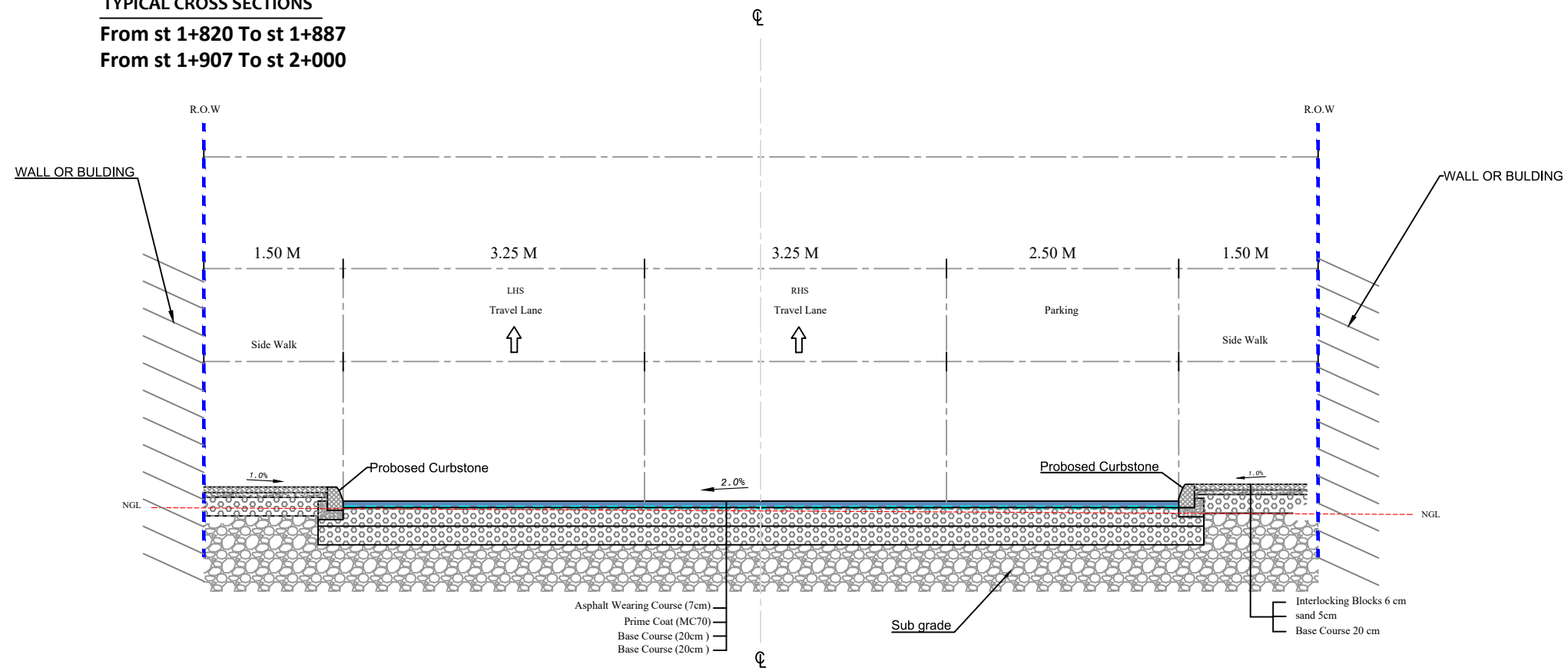
Scale :
NOT SCALE

Sheet No :
T.C.S - 09

TYPICAL CROSS SECTIONS
From st 1+657 To st 1+715
From st 2+110 To st 2+162



TYPICAL CROSS SECTIONS
From st 1+820 To st 1+887
From st 1+907 To st 2+000



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



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Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr .Mutaz Qafisha

Project Name :
شارع كتار - ياد الحمام / محكمة صلح دورا

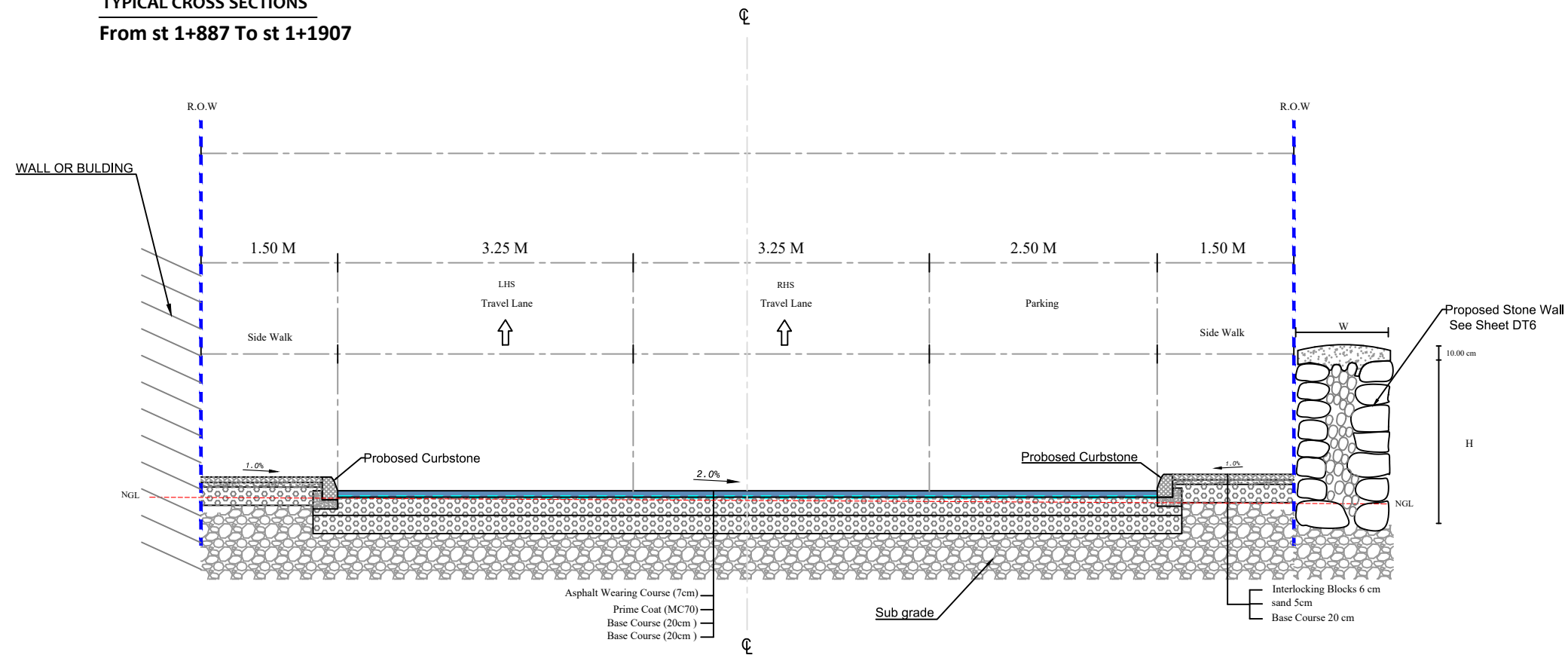
Drawing Title :
Typical Cross Section

Date :
12.2024

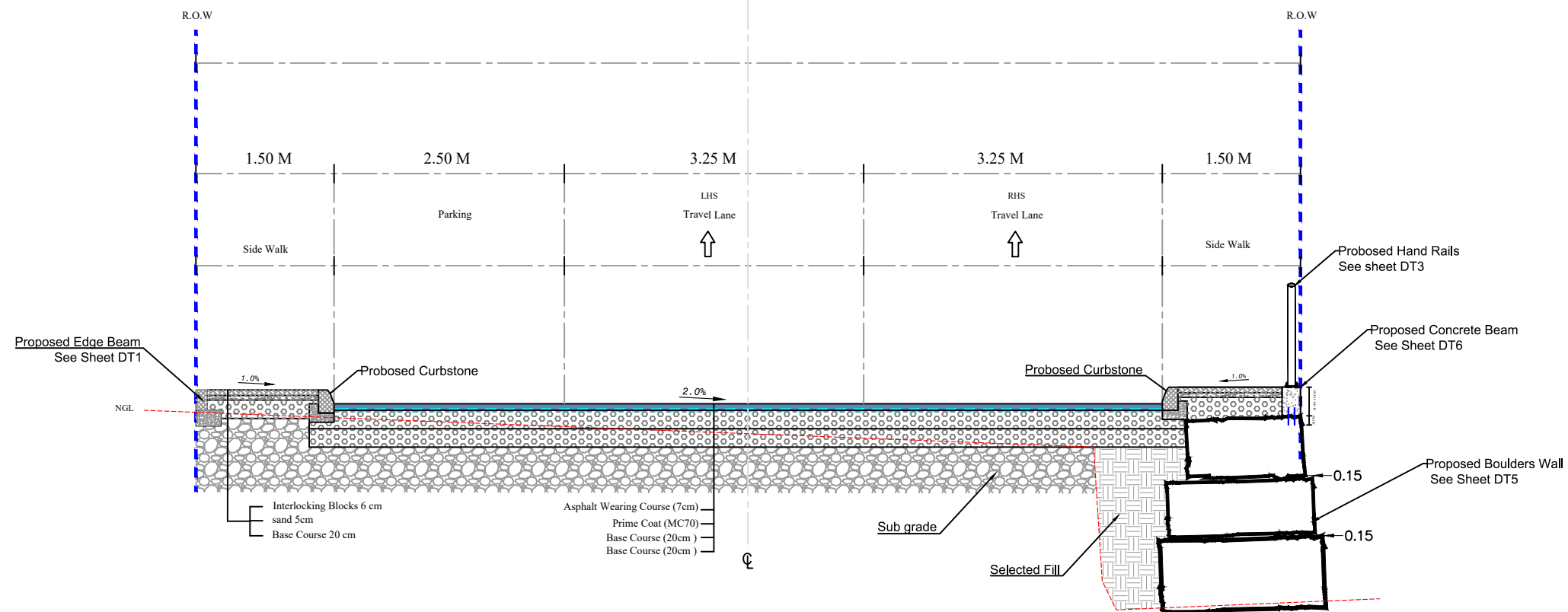
Scale :
NOT SCALE

Sheet No :
T.C.S - 10

TYPICAL CROSS SECTIONS
From st 1+887 To st 1+1907



TYPICAL CROSS SECTIONS
From st 2+090 To st 2+110



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



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Hamdan Alsada

Supervisor:
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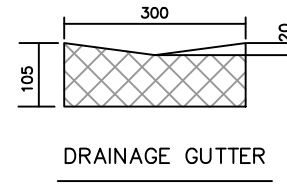
Project Name :
طابق كمنار - ياد الحمام / محكمة صلح دورا

Drawing Title :
Typical Cross Section

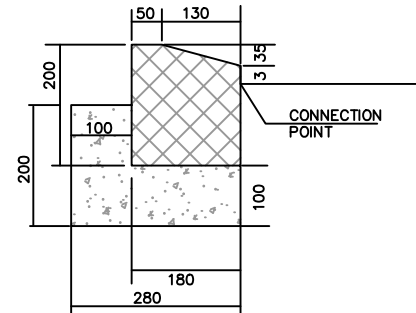
Date :
12.2024

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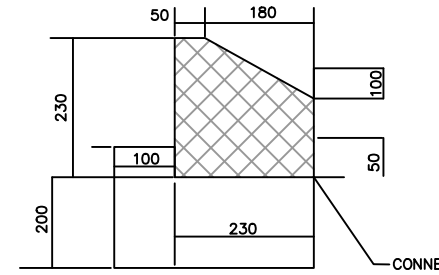
Sheet No :
T.C.S - 11



DRAINAGE GUTTER

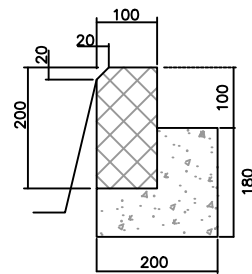


DRAINAGE CURB



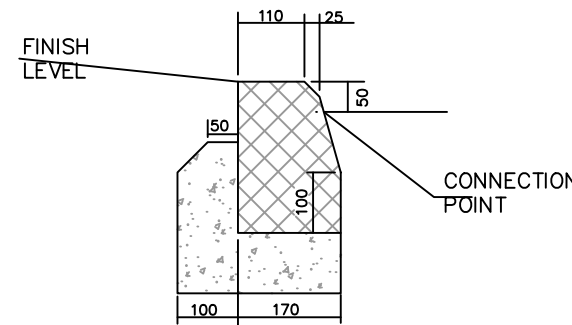
MOUNTABLE CURB
(TO BE USED IN MEDIAN)

CONNECTION POINT



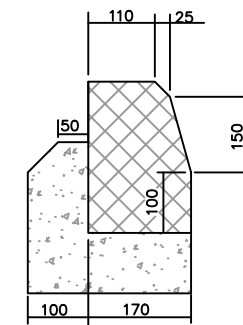
CONNECTION POINT

EDGE BEAM



DROP CURB

(TO BE USED IN SIDEWALK)



RAISED CURB

(TO BE USED IN SIDEWALK)

CONNECTION POINT

Curb Stone Details

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



Designed By:
Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
Dr .Mutaz Qafisha

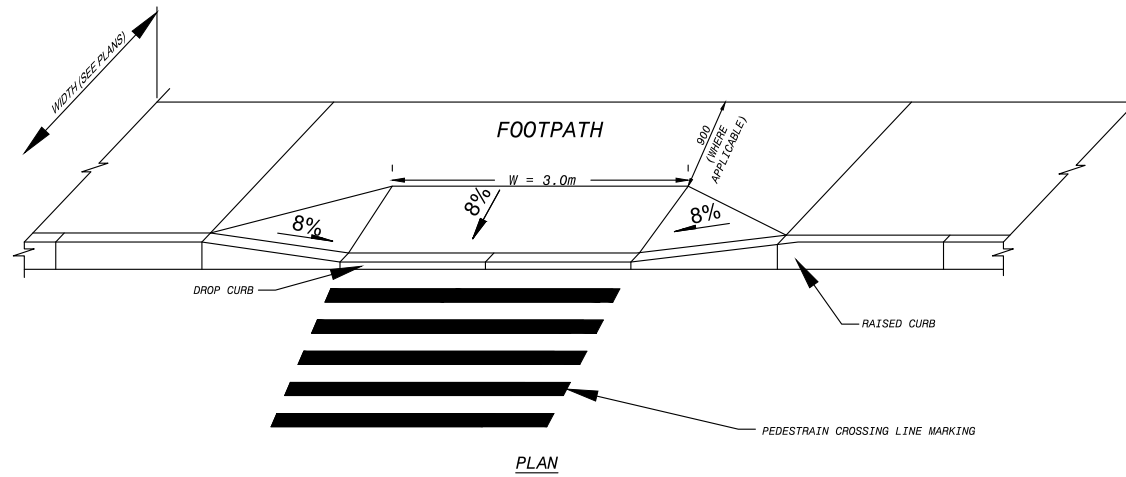
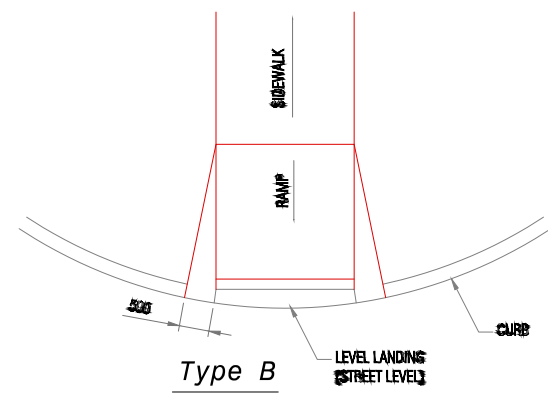
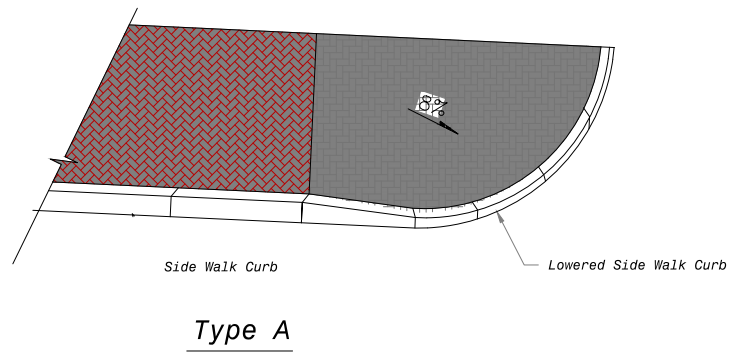
Project Name :
طابع كتار - ياد الحمام / محكمة صلح دورا

Drawing Title :
Curb Stone Details

Date :
12.2024

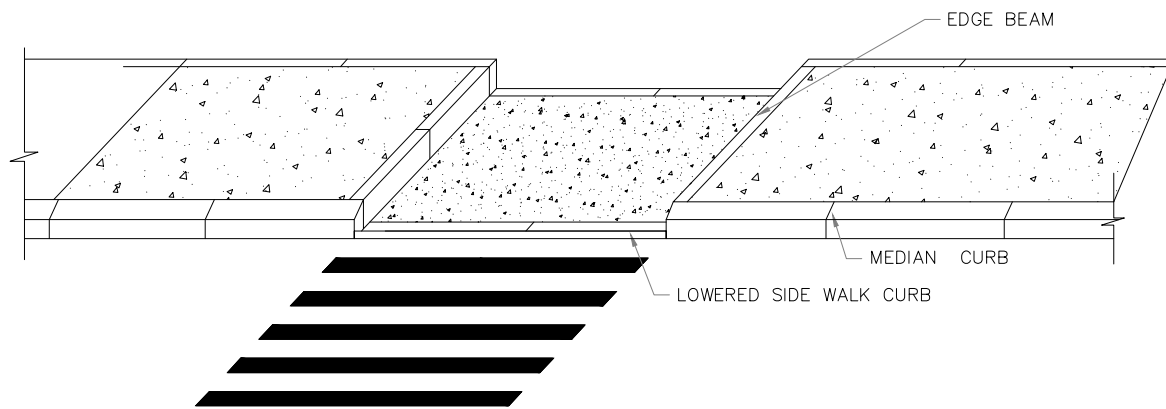
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Sheet No :
D.T - 01

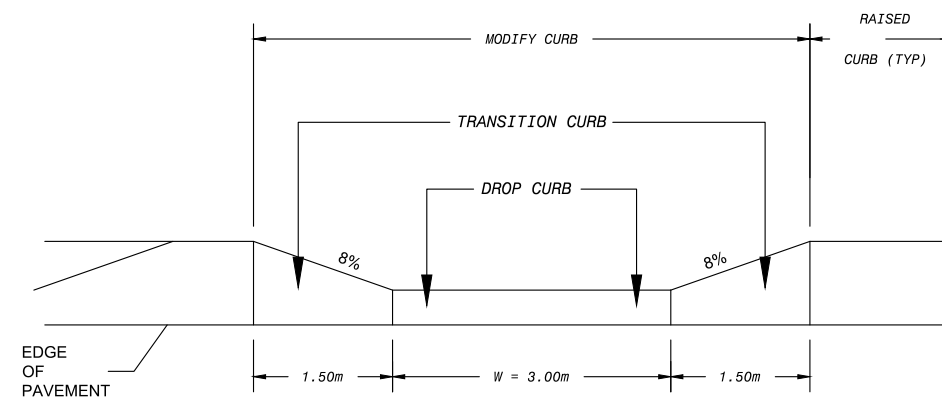


HANDICAP DETAIL IN SIDEWALKS & MEDIAN
NO SCALE

Ramp Details At Beginning Of Sidewalk



Walk Through Median Detail



W = MIN 3000 AT PEDESTRIAN CROSSING
ELEVATION OF SIDEWALK RAMP

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

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Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor:
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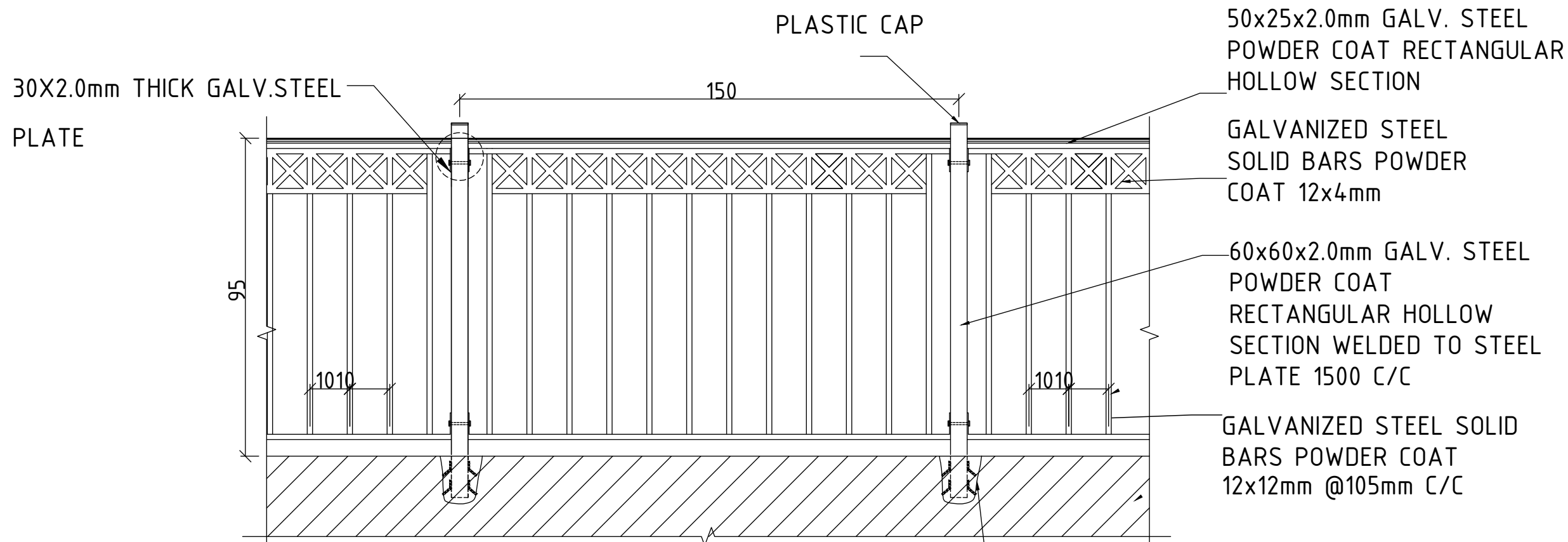
Project Name :
طابق كنفاز - راحة الحمام / محكمة صلح دورا

Drawing Title :
Median and sidewalk Details

Date :
12.2024

Scale :
NOT SCALE

Sheet No :
D.T - 02



STEEL RAILING TYPE -(01)-
ELEVATION

Ø400X400mm POCKET
FILLED WITH CONCRETE

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
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Fadi Younis
Hamdan Alsada

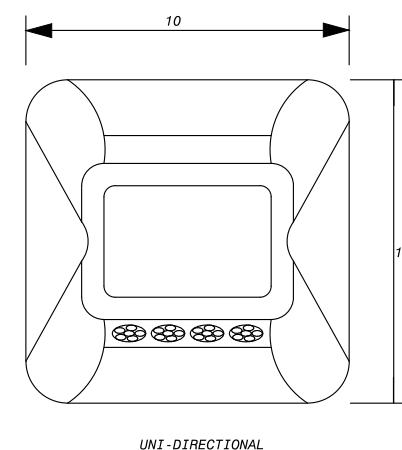
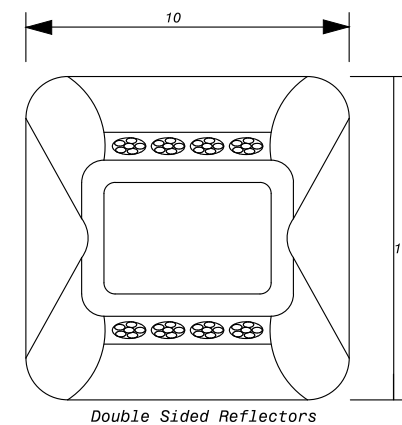
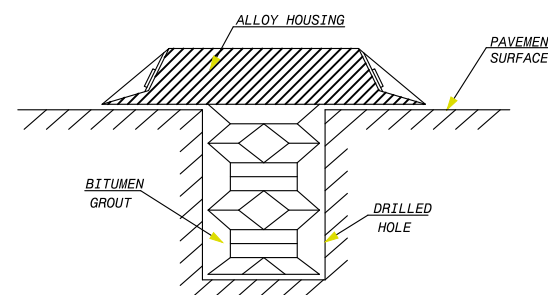
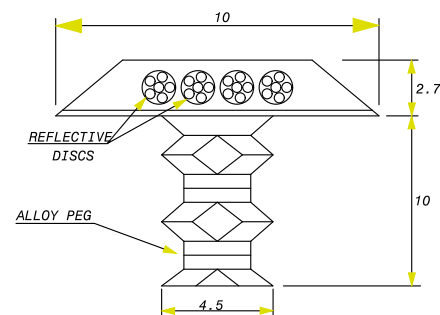
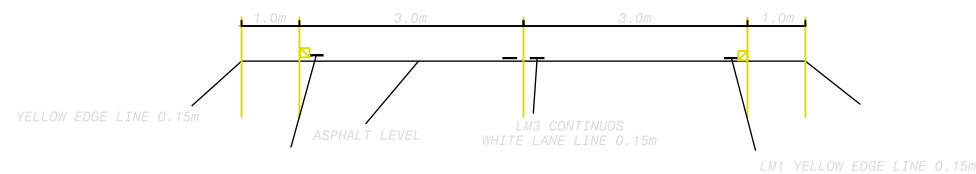
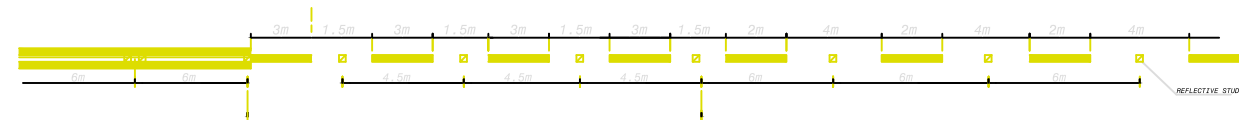
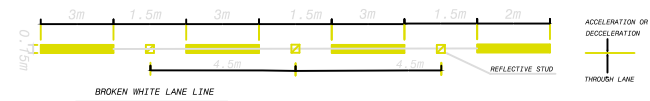
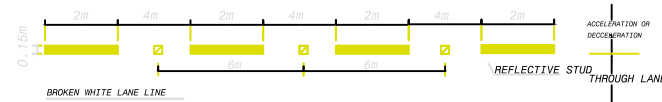
Supervisor: **Dr .Mutaz Qafisha**

Project Name : **طابق كثار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **HandRails details**

Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **D.T - 03**



DETAIL OF TYPICAL REFLECTIVE STUDS

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr. Mutaz Qafisha**

Project Name : **طابع كتار - ياد الحمام / محكمة صلح دورا**

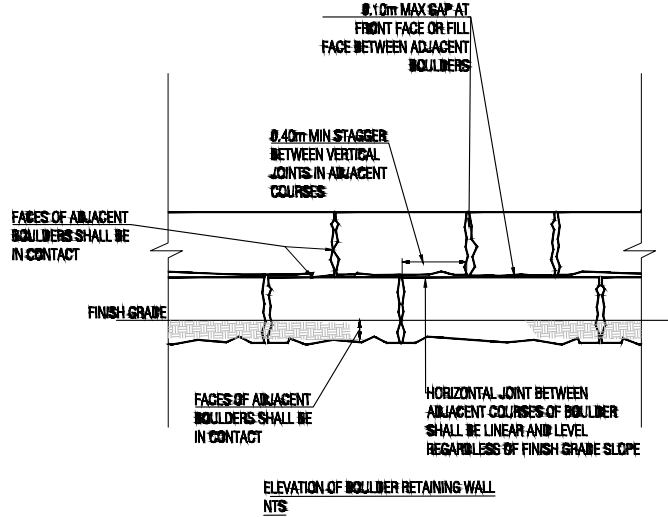
Drawing Title : **Detail of typical reflective studs**

Date : **12.2024**

Scale : **NOT SCALE**

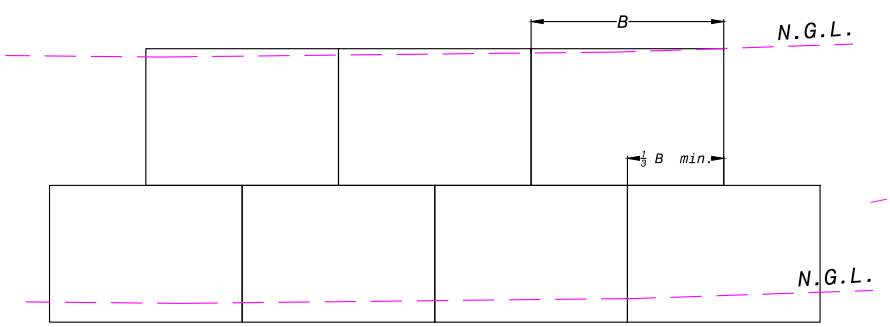
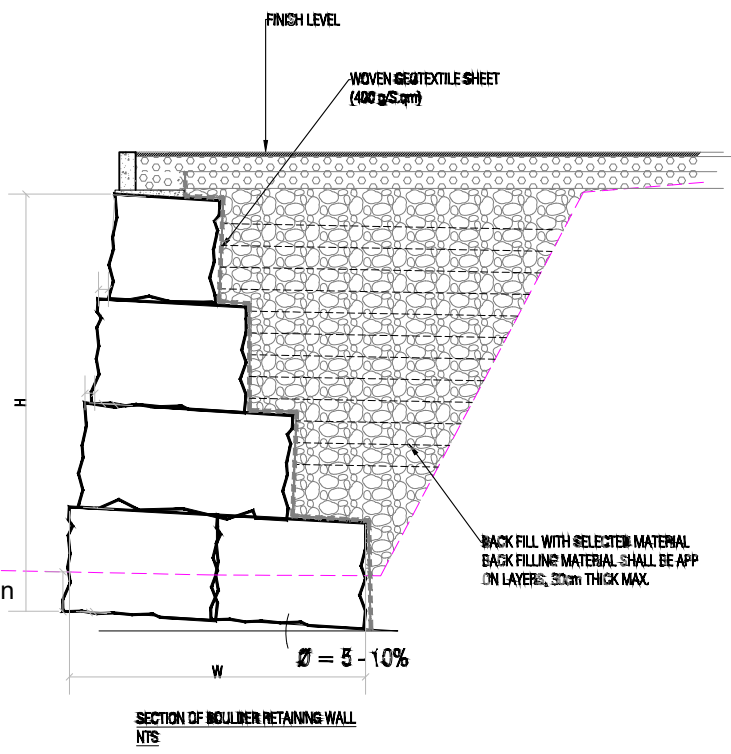
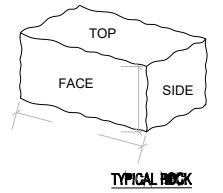
Sheet No : **D.T - 04**

BOULDER WALL DIMENSION	
H(M)	W(M)
1	1.30
2	1.50
3	1.85
4	2.80
5	3.20
6	3.90
7	4.40



NOTES:

- 1- THE BOULDERS SHALL BE MORE OR THE LESS OF THE SAME SIZE AND COLOR IN ORDER TO PROVIDE A UNIFORM APPEARANCE.
- 2- THE BOULDERS WALL CONSTRUCTION WILL INCLUDE EXCAVATIONS, LAYING THE BOULDERS AND BACKFILLING ALL PER THE CONTRACT SPECIFICATIONS AND THE ENGINEER'S INSTRUCTION.
- 3- THE CONTRACTOR SHALL COORDINATE WITH THE MUNICIPALITY AND/OR AUTHORITY THE EXACT LOCATION OF THE EDGE OF P.Q.W PRIOR TO START THE CONSTRUCTION OF THE WALL.
- 4- THE BOULDERS WALL CONSTRUCTION SHALL BE MEASURED IN SQUARE METER FROM THE OUTER SIDE, THE UNIT PRICE SHALL INCLUDE BUT NOT LIMITED TO EXCAVATION, BOULDERS DELIVERY, INSTALLATION AND BACKFILLING.
- 5- BACKFILLING BEHIND THE STONES (MARBEE) SHALL BE DONE PER THE CONTRACT SPECIFICATIONS.
- 6- WHERE THE ENGINEER OF RECORD DETERMINES THAT THE SOIL BELOW THE BASE OF ROCKERY IS NOT SUITABLE, THE CONTRACTOR SHALL REMOVE SOIL AS DIRECTED BY THE ENGINEER AND REPLACE IT WITH SELECTED FILL MATERIAL.



boulders wall detail

- Notes:
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

- Asphalt Wearing Course
- Prime Coat (MC70)
- Base Course
- Existing Ground Level
- Subgrade
- ROW
- Selected Fill
- SIDE WALK Interlock
- STONE BOULDER
- Concret Wall
- Concrete Shoulders

Palestine Polytechnic University



Designed By: **Ahmad Nammura
Arafat Hanani
Fadi Younis
Hamdan Alsada**

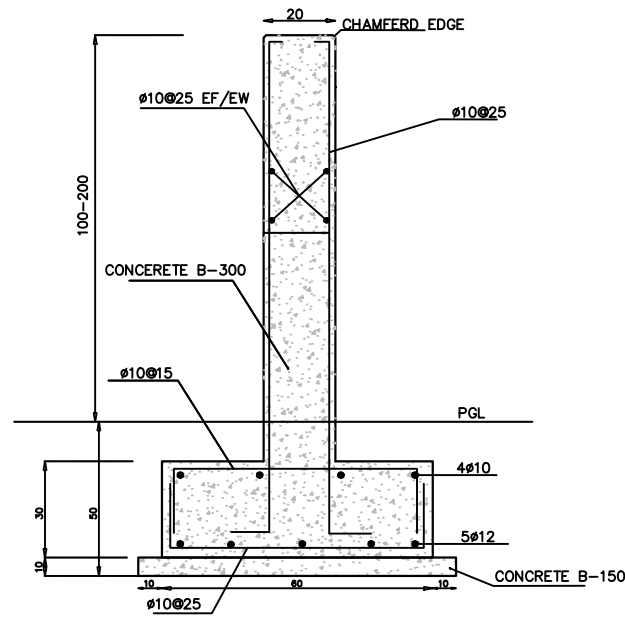
Supervisor: **Dr .Mutaz Qafisha**

Project Name : **طابع كتار - ياد الحمام / محكمة صلح دورا**

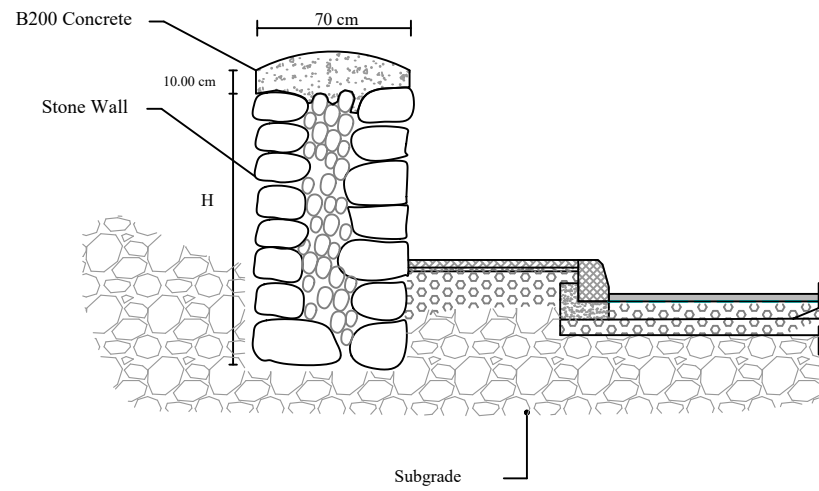
Drawing Title : **Boulders Wall Detail**

Date : **12.2024**

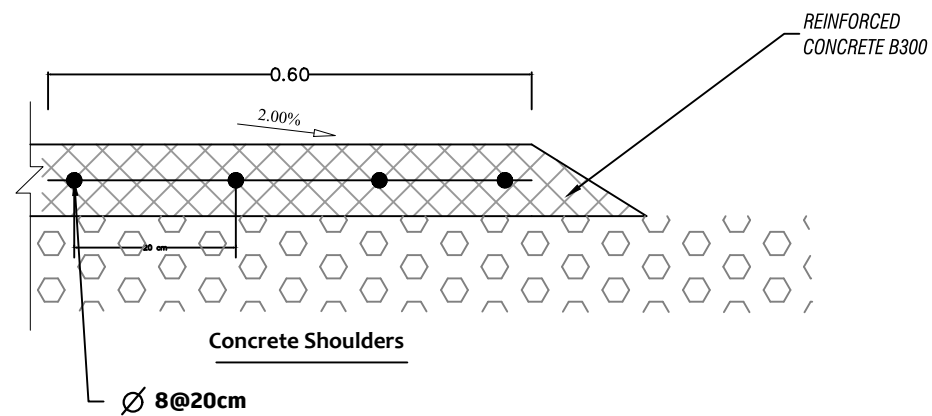
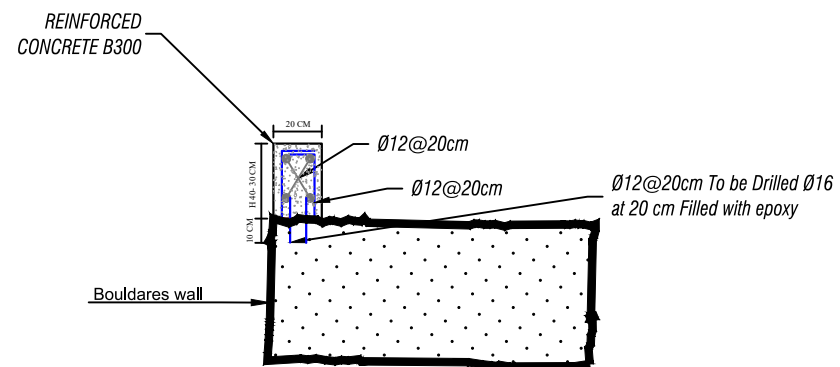
Scale : **NOT SCALE** Sheet No : **D.T - 05**



BOUNDARY WALL DETAIL



Stone Wall SECTION



Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
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4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr .Mutaz Qafisha**

Project Name : **طابع كتار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Concrete wall ,stone wall Beam**

Date : **12.2024**

Scale : **NOT SCALE**

Sheet No : **D.T - 06**

Notes:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
2. ALL OTHER DIMENSIONS ARE IN CM UNLESS OTHERWISE NOTED
3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
Subgrade	
ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University



Designed By:
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Fadi Younis
Hamdan Alsada

Supervisor:
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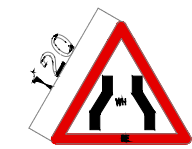
Project Name :
شارع كتار - ياد الحمام / محكمة صلح دورا

Drawing Title :
Road Signs Details

Date :
12.2024

Scale :
NOT SCALE

Sheet No :
D.T - 07

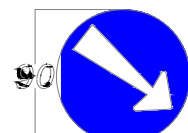


PROVIDE AT 500m, 250m AND 100m LEFT AND RIGHT

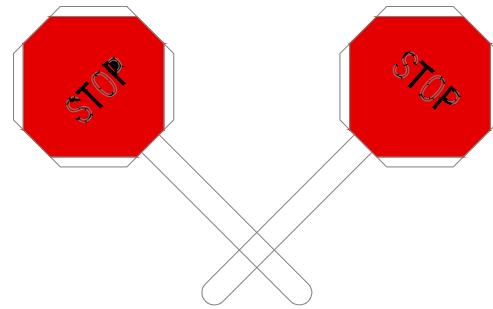


PROVIDE AT 500m, 250m AND 100m LEFT AND RIGHT

WARNING SIGNS



DIRECTION SIGNS



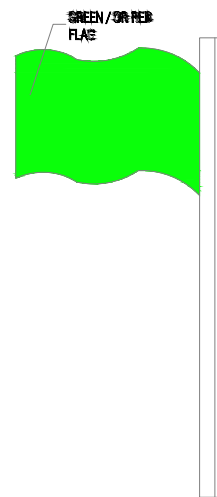
STANDARD SIGN PADDLE FOR USE BY FLAGMAN



DIVERSION SIGN PROVIDED AT 500m AND 100m LEFT AND RIGHT

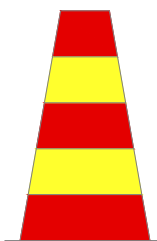


WORK AHEAD SIGN PROVIDED AT 500m AND 100m LEFT AND RIGHT



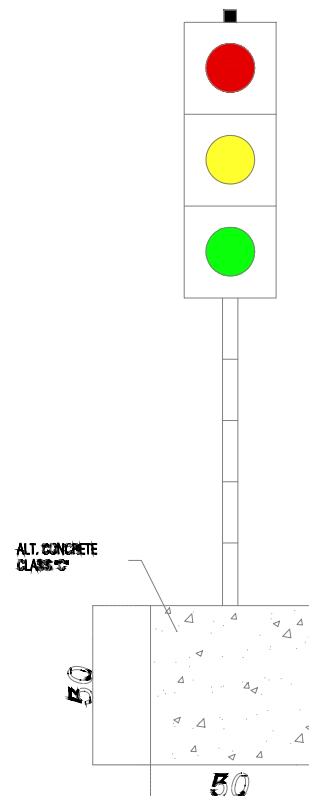
FLAG

ALSO A FLAGMAN AT EACH SIDE OF DIVERSION OR WHERE EVER NEEDED



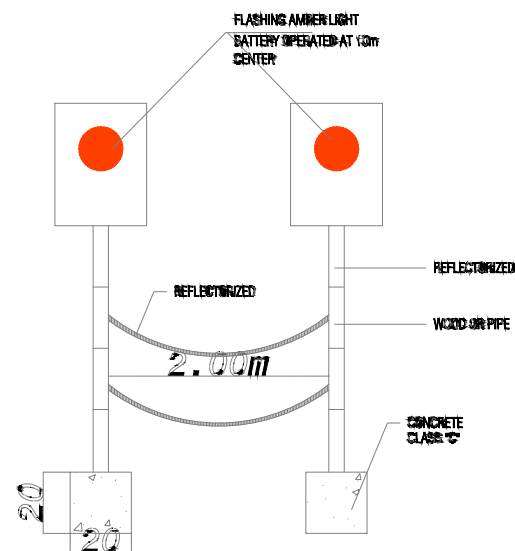
TRAFFIC CONE

TO BE PROVIDED WHEREVER NECESSARY



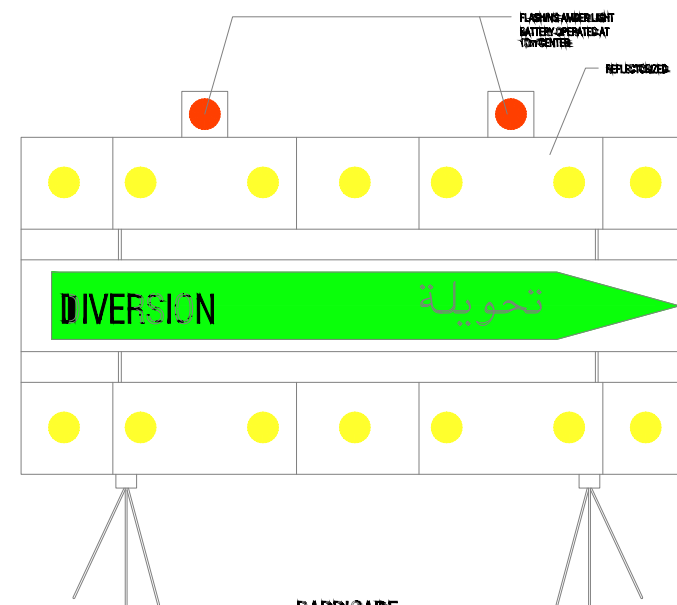
TEMPORARY TRAFFIC LIGHTS

AT START AND EVERY DIVERSION OR TEMPORARY WORK BATTERY OPERATED OR BY GENERATOR



TEMPORARY TRAFFIC LIGHTS

TO BE PLACED ALL THE LENGTH OF ANY DIVERSION OR WHERE EVER WORK ADJACENT TO EXISTING ROAD OCCUR



BARRICADE

AT DIVERSION AT EACH SIDE

				 (MOUNTING HEIGHT TO BE < 1.50m.) RS-118 CHEVRON BOARD DETAIL USE DOUBLE POST 3" FOR INSTALLATION		 (MOUNTING HEIGHT TO BE < 1.50m.) RS-108 CHEVRON BOARD DETAIL USE DOUBLE POST 3" FOR INSTALLATION		 RS-112 HAZARD SIGN		

- Notes:
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 4. DESIGN SPEED IS 50 Km/h

LEGEND AND ABBREVIATIONS :

Asphalt Wearing Course	
Prime Coat (MC70)	
Base Course	
Existing Ground Level	
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ROW	
Selected Fill	
SIDE WALK Interlock	
STONE BOULDER	
Concret Wall	
Concrete Shoulders	

Palestine Polytechnic University

Designed By: **Ahmad Nammura**
Arafat Hanani
Fadi Younis
Hamdan Alsada

Supervisor: **Dr .Mutaz Qafisha**

Project Name : **طريق كنفار - ياد الحمام / محكمة صلح دورا**

Drawing Title : **Road Signs Details**

Date : **12.2024**

Scale : **NOT SCALE** Sheet No : **D.T - 08**

