NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

GENERAL LAYOUT

Consultant:

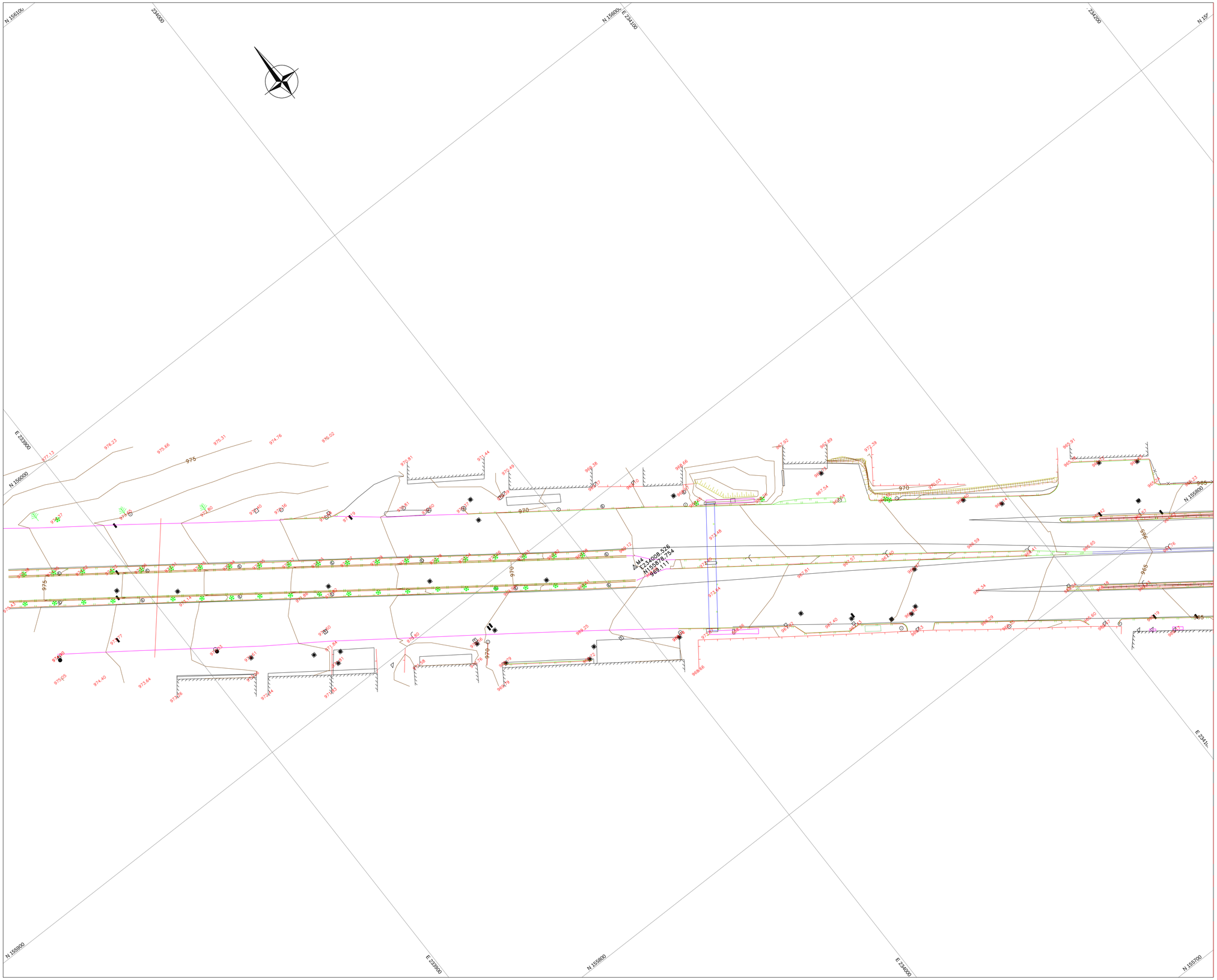
steer davies gleave

engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: N.T.S.	Date: DEC. 2016	Approved: W.Z.

METERS

Drawing Number:	Rev.:
R-050	0



MATCH LINE SEE DWG. No. R-052

NOTES:

SYMBOL TYPE

- ELECTRIC POLE
- LIGHT POST
- 2 SIDED LIGHT POST
- 4 SIDED LIGHT POST
- PYLON
- ELEC. MANHOLE
- ELEC. TRANSFORMER
- WATER VALVE
- WATER MANHOLE
- STORM WATER
- GULLY
- SEWAGE MANHOLE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- PUBLIC POST
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- ENTRANCE
- WELL
- TREE
- MONUMENT
- PUMP
- ANGLE IRON
- SEPTIC TANK
- TRAVERSE POINT
- RIGHT OF WAY

LINE TYPE

- FENCE
- CURBED ROAD
- ASPHALTED ROAD
- WALL
- BUILDING
- TIN ROOF BUILDING
- CEMETERY
- BOTTOM OF BANK
- TOP OF BANK
- TRACK
- BOUNDRY LINE
- WATER COURSE
- L. STONE WALL
- COAXIL-CABLE
- GUARD RAIL
- CONC. CHANNEL
- NEW JERSEY BRIAR

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

EXISTING SURVEY LAYOUT

SHEET 1 OF 3

Consultant:

steer davies gleave

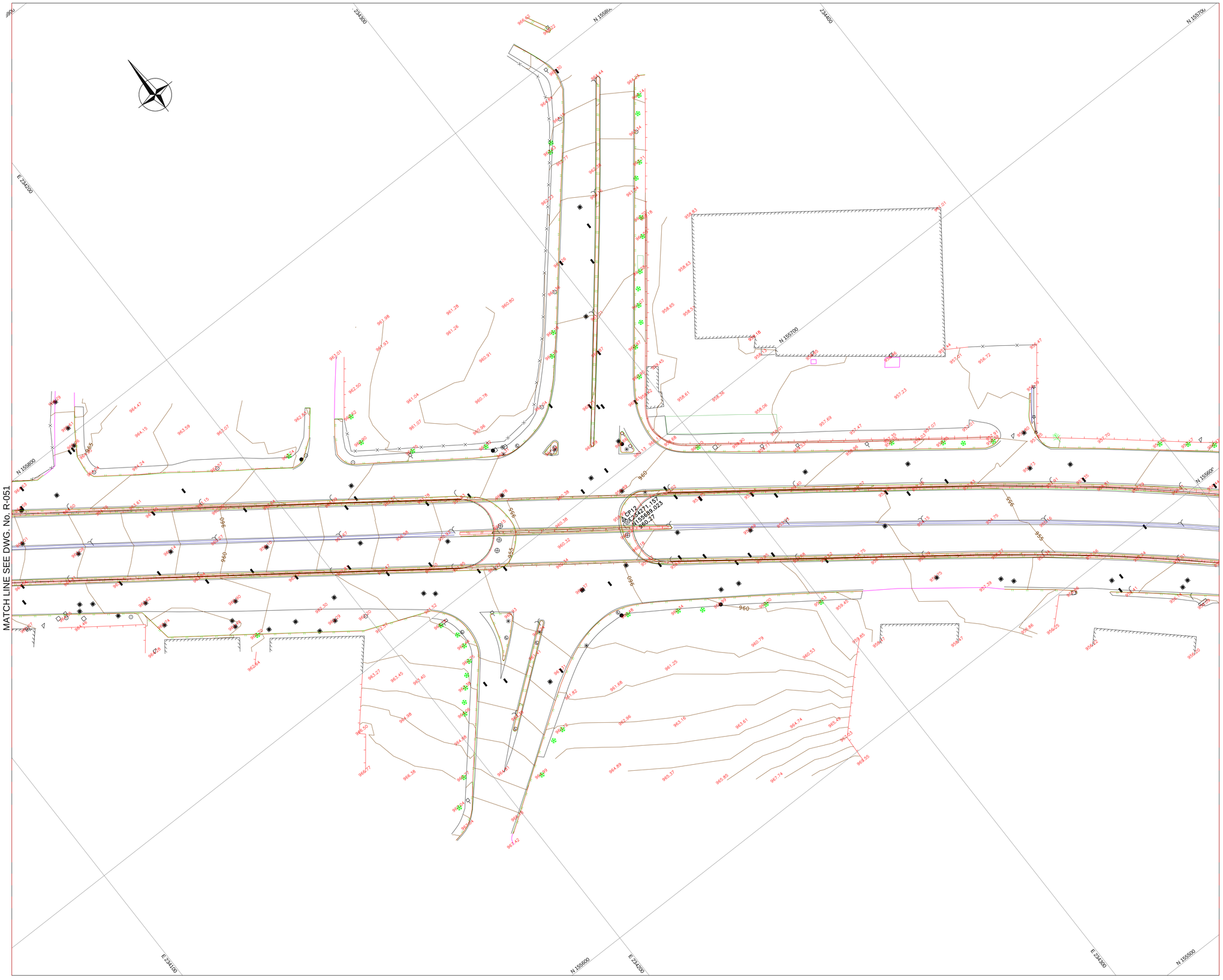
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-051	0



NOTES:

SYMBOL TYPE

- ELECTRIC POLE
- LIGHT POST
- 2 SIDED LIGHT POST
- 4 SIDED LIGHT POST
- PYLON
- ELEC. MANHOLE
- ELEC. TRANSFORMER
- WATER VALVE
- WATER MANHOLE
- STORM WATER
- GULLY
- SEWAGE MANHOLE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- PUBLIC POST
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- ENTRANCE
- WELL
- TREE
- MONUMENT
- PUMP
- ANGLE IRON
- SEPTIC TANK
- TRAVERSE POINT
- RIGHT OF WAY

LINE TYPE

- FENCE
- CURBED ROAD
- ASPHALTED ROAD
- WALL
- BUILDING
- TIN ROOF BUILDING
- CEMETERY
- BOTTOM OF BANK
- TOP OF BANK
- TRACK
- BOUNDRY LINE
- WATER COURSE
- L. STONE WALL
- COAXIL-CABLE
- GUARD RAIL
- CONC. CHANNEL
- NEW JERSEY BRIAR

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

EXISTING SURVEY LAYOUT

SHEET 2 OF 3

Consultant:

steer davies gleave

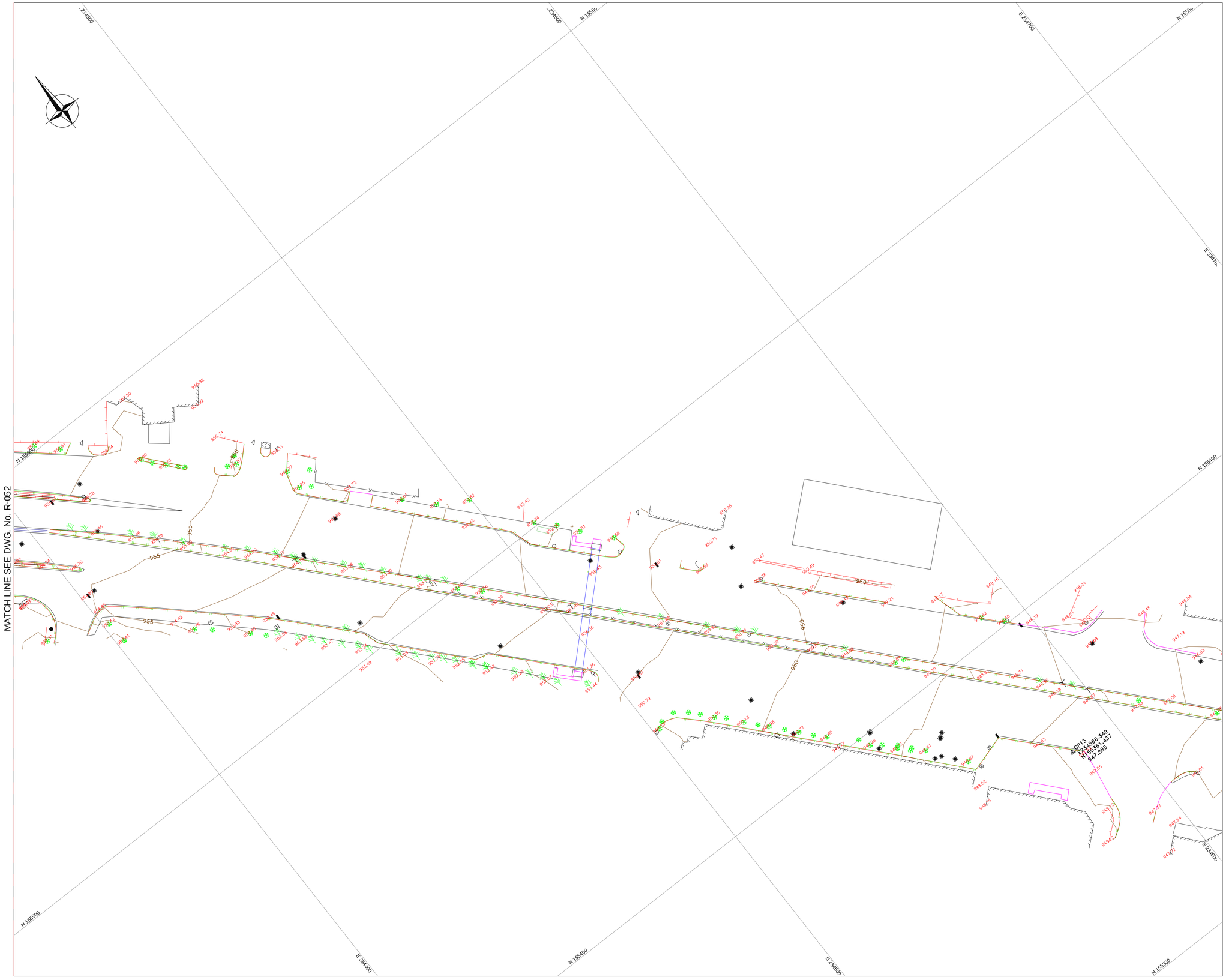
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-052	0



NOTES:

SYMBOL TYPE

- ELECTRIC POLE
- LIGHT POST
- 2 SIDED LIGHT POST
- 4 SIDED LIGHT POST
- PYLON
- ELEC. MANHOLE
- ELEC. TRANSFORMER
- WATER VALVE
- WATER MANHOLE
- STORM WATER
- GULLY
- SEWAGE MANHOLE
- TELEPHONE POLE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- PUBLIC POST
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- ENTRANCE
- WELL
- TREE
- MONUMENT
- PUMP
- ANGLE IRON
- SEPTIC TANK
- TRAVERSE POINT
- RIGHT OF WAY

LINE TYPE

- FENCE
- CURBED ROAD
- ASPHALTED ROAD
- WALL
- BUILDING
- TIN ROOF BUILDING
- CEMETERY
- BOTTOM OF BANK
- TOP OF BANK
- TRACK
- BOUNDRY LINE
- WATER COURSE
- L. STONE WALL
- COAXIL-CABLE
- GUARD RAIL
- CONC. CHANNEL
- NEW JERSEY BRIAR

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

EXISTING SURVEY LAYOUT

SHEET 2 OF 3

Consultant:

steer davies gleave

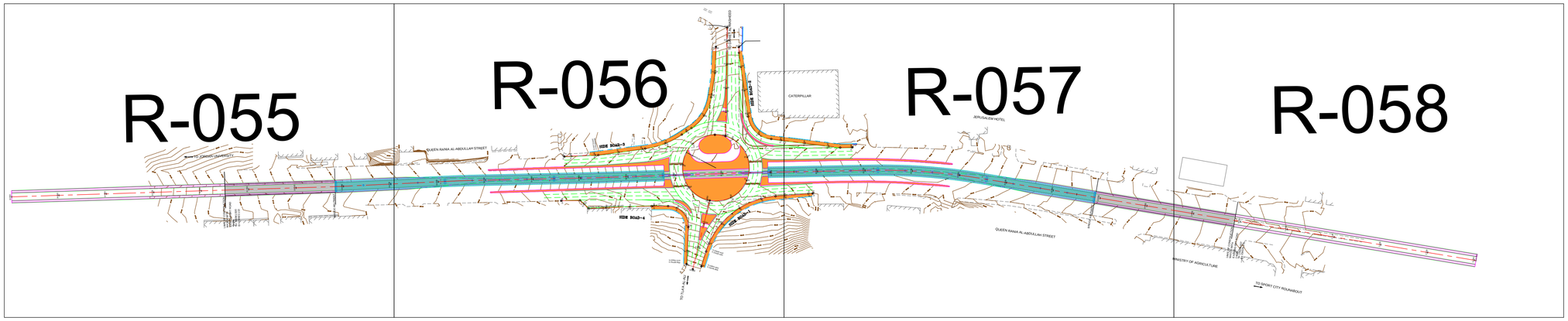
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-053	0



NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

GENERAL LAYOUT PLAN

Consultant:

steer davies gleave

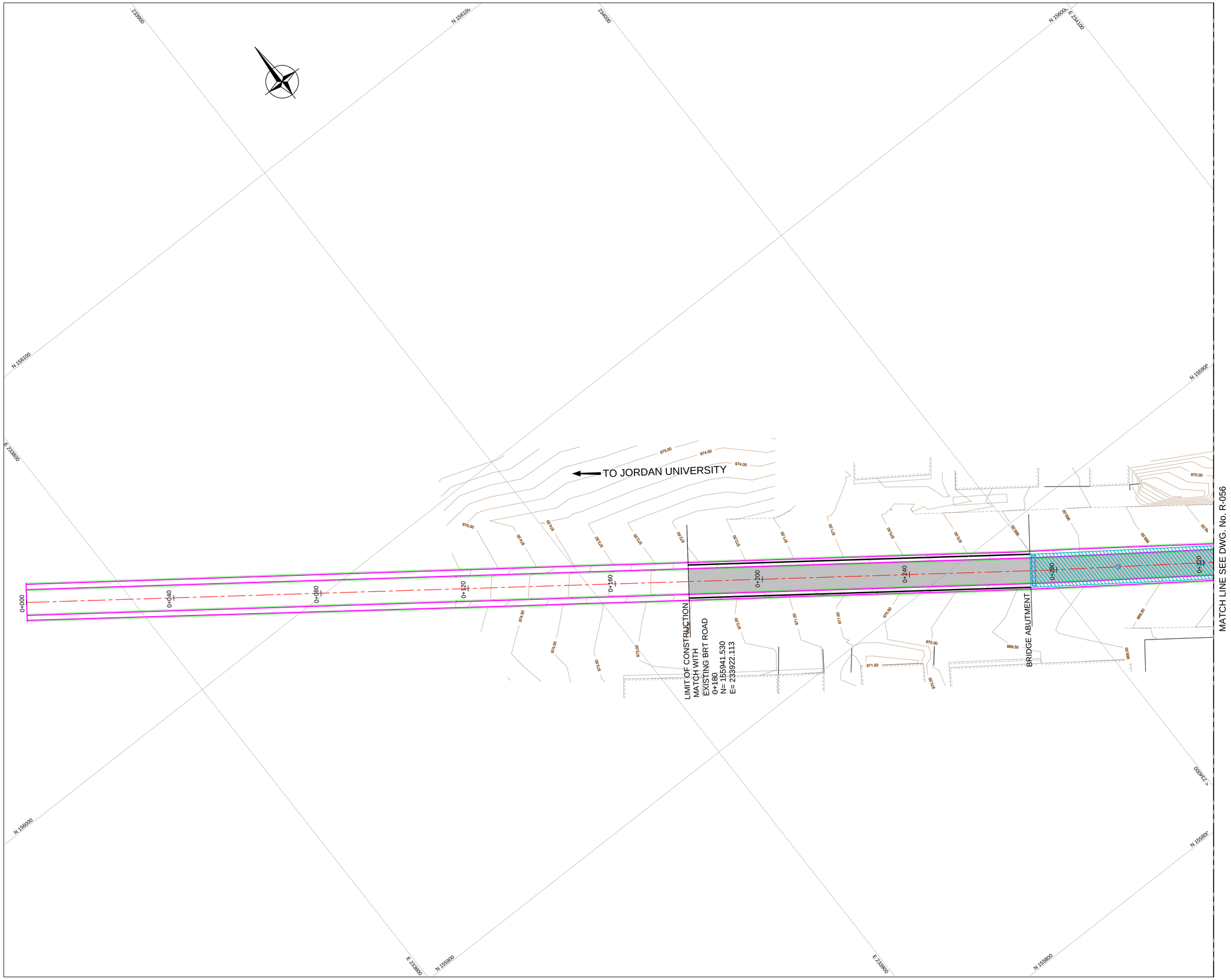
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:200	Date: DEC. 2016	Approved: W.Z.

0 20 40 60 80 100 120 140 160 180 200

METERS

Drawing Number:	Rev.:
R-054	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.
2- FOR SECTION 1-1 & SECTION 2-2 REFER TO DWG No. R-200.
3- FOR SETTING OUT DATA REFER TO DWG's No's R-070 & R-071.
4- FOR ROAD PROFILES REFER TO DWG'S No'S R-060, R-061 & R-062.
5- FOR SPOT ELEVATIONS LAYOUT & TABLE REFER TO DWG's. No. R-072 & R-205
6- FOR SIGNING & MARKING LAYOUT & DETAIL REFER TO DWG'S No. R-073, R0-74 & R-204.
7- FOR ROAD DETAILS REFER DWG. No. R-201
8- FOR RETAINING WALLS REFER TO DWG's No. R-202 & R-203
9- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- Bridge
- BRT Path
- Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

LAYOUT PLAN

SHEET 1 OF 4

Consultant:

steer davies gleave

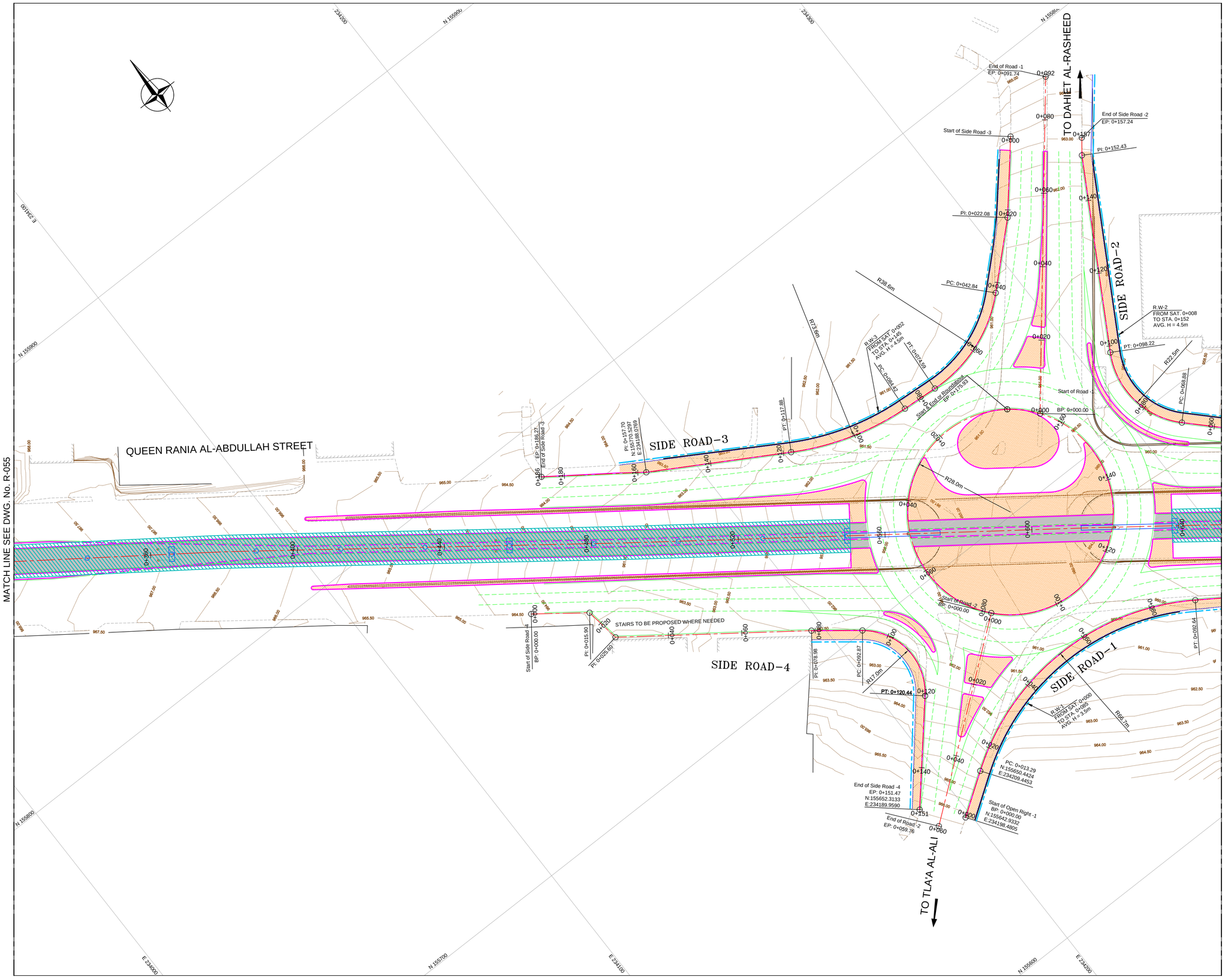
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-055	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.
2- FOR SECTION 1-1 & SECTION 2-2 REFER TO DWG No. R-200.
3- FOR SETTING OUT DATA REFER TO DWG's No's R-070 & R-071.
4- FOR ROAD PROFILES REFER TO DWG'S No'S R-060, R-061 & R-062.
5- FOR SPOT ELEVATIONS LAYOUT & TABLE REFER TO DWG's. No. R-072 & R-205
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8- FOR RETAINING WALLS REFER TO DWG's No. R-202 & R-203
9- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- Bridge
- BRT Path
- Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

LAYOUT PLAN

SHEET 2 OF 4

Consultant:

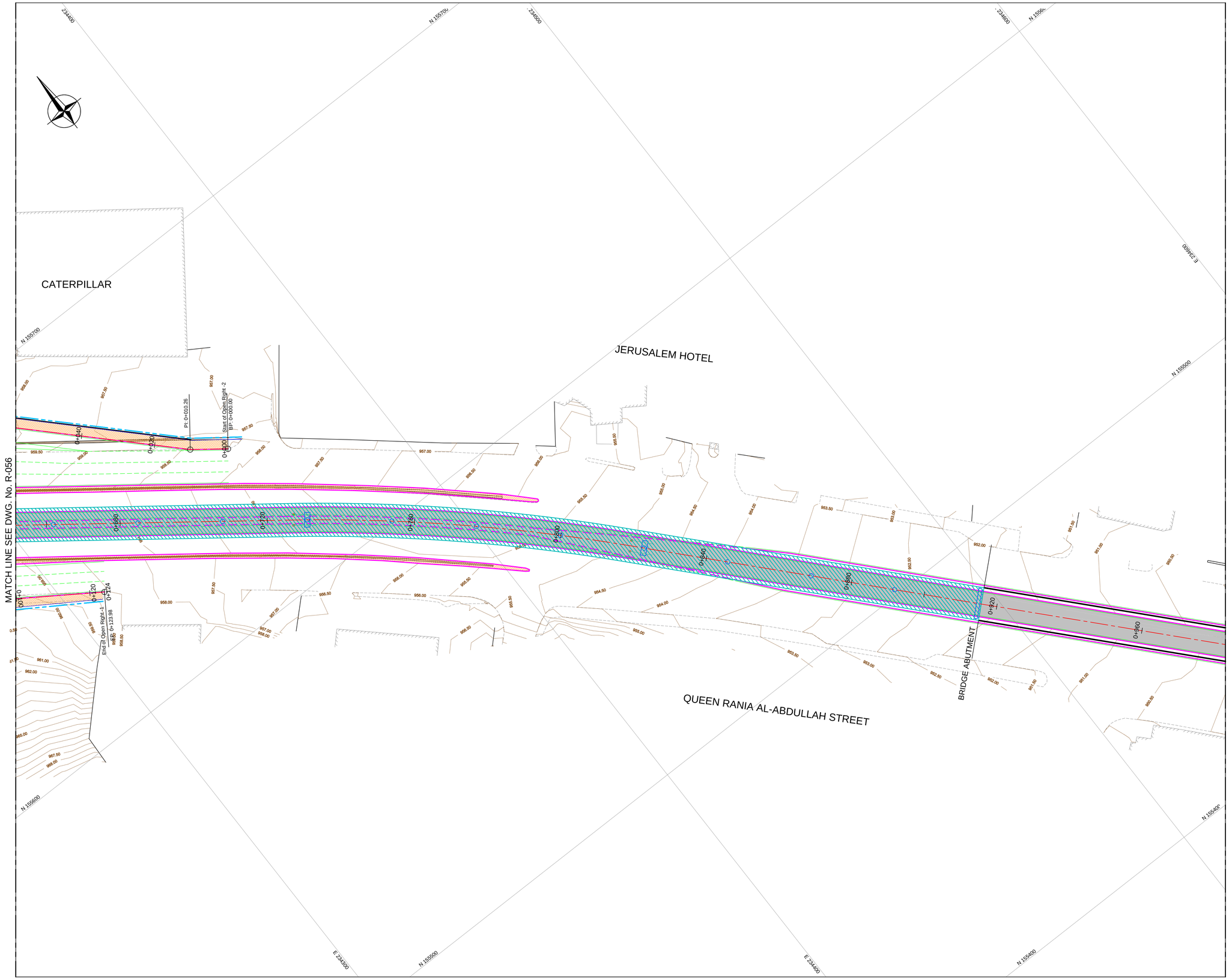
steer davies gleave

engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50
METERS

Drawing Number:	Rev.:
R-056	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.
2- FOR SECTION 1-1 & SECTION 2-2 REFER TO DWG No. R-200.
3- FOR SETTING OUT DATA REFER TO DWG's No's R-070 & R-071.
4- FOR ROAD PROFILES REFER TO DWG'S No'S R-060, R-061 & R-062.
5- FOR SPOT ELEVATIONS LAYOUT & TABLE REFER TO DWG's. No. R-072 & R-205
6- FOR SIGNING & MARKING LAYOUT & DETAIL REFER TO DWG'S No. R-073, R0-74 & R-204.
7- FOR ROAD DETAILS REFER DWG. No. R-201
8- FOR RETAINING WALLS REFER TO DWG's No. R-202 & R-203
9- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- Bridge
- BRT Path
- Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

LAYOUT PLAN

SHEET 3 OF 4

Consultant:

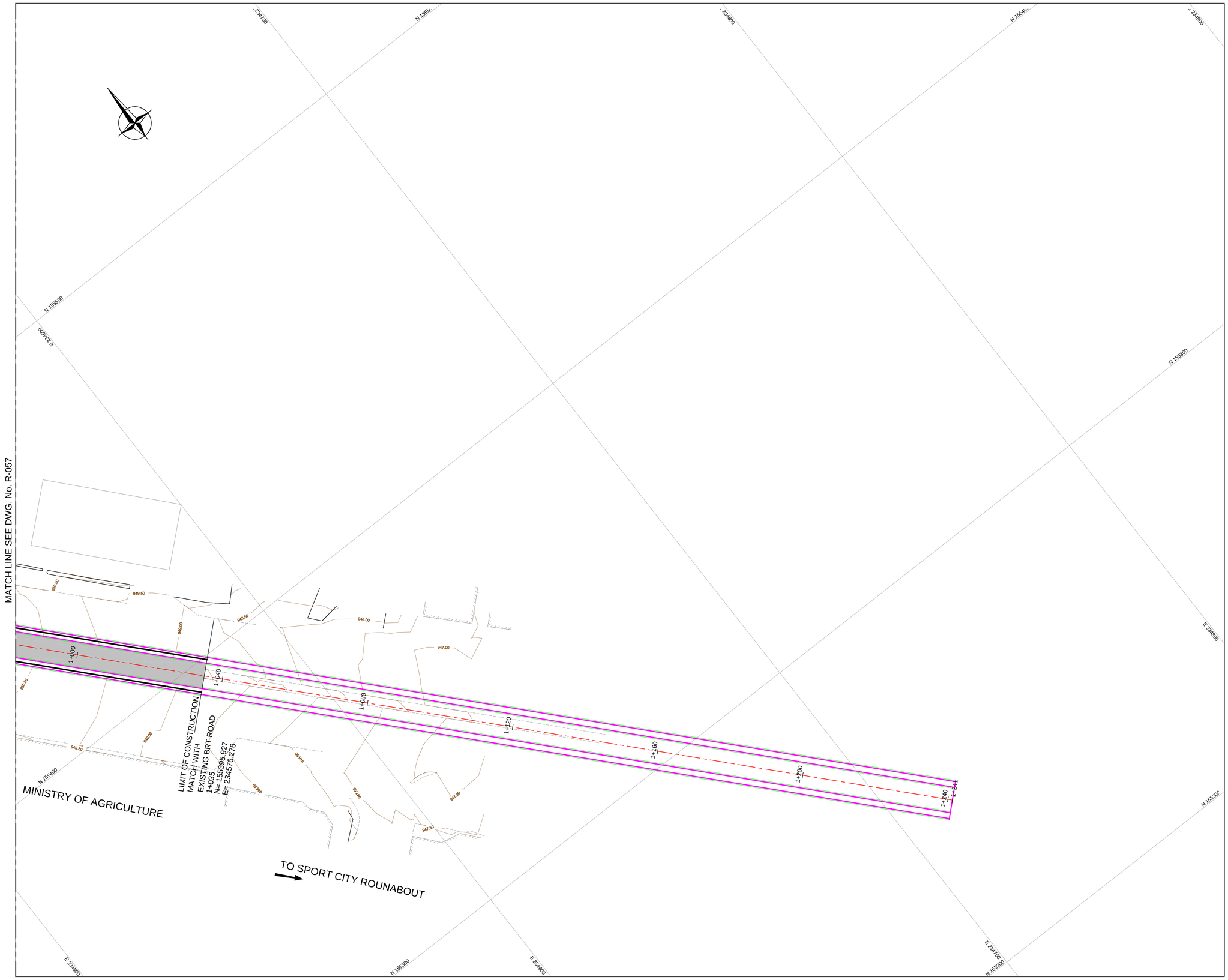
steer davies gleave

engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50
METERS

Drawing Number:	Rev.:
R-057	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.
2- FOR SECTION 1-1 & SECTION 2-2 REFER TO DWG No. R-200.
3- FOR SETTING OUT DATA REFER TO DWG's No's R-070 & R-071.
4- FOR ROAD PROFILES REFER TO DWG'S No'S R-060, R-061 & R-062.
5- FOR SPOT ELEVATIONS LAYOUT & TABLE REFER TO DWG's. No. R-072 & R-205
6- FOR SIGNING & MARKING LAYOUT & DETAIL REFER TO DWG'S No. R-073, R0-74 & R-204.
7- FOR ROAD DETAILS REFER DWG. No. R-201
8- FOR RETAINING WALLS REFER TO DWG's No. R-202 & R-203
9- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- Bridge
- BRT Path
- Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

LAYOUT PLAN

SHEET 4 OF 4

Consultant:

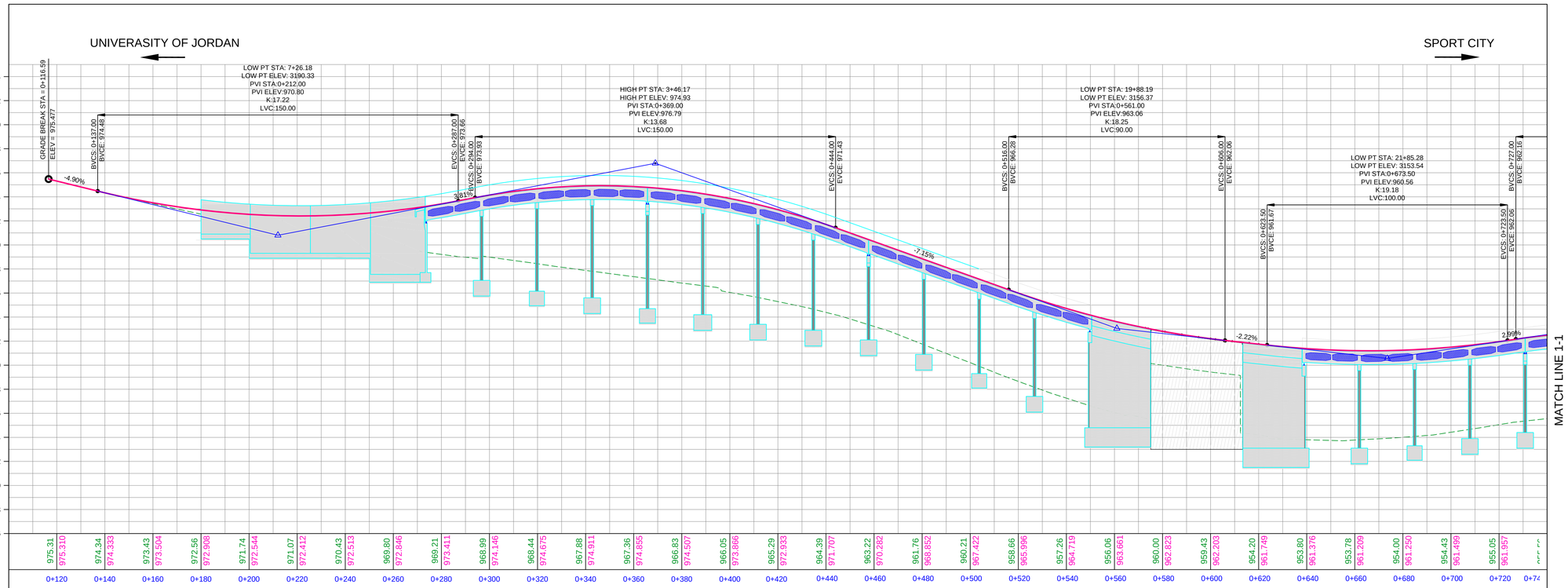
steer davies gleave

engicon

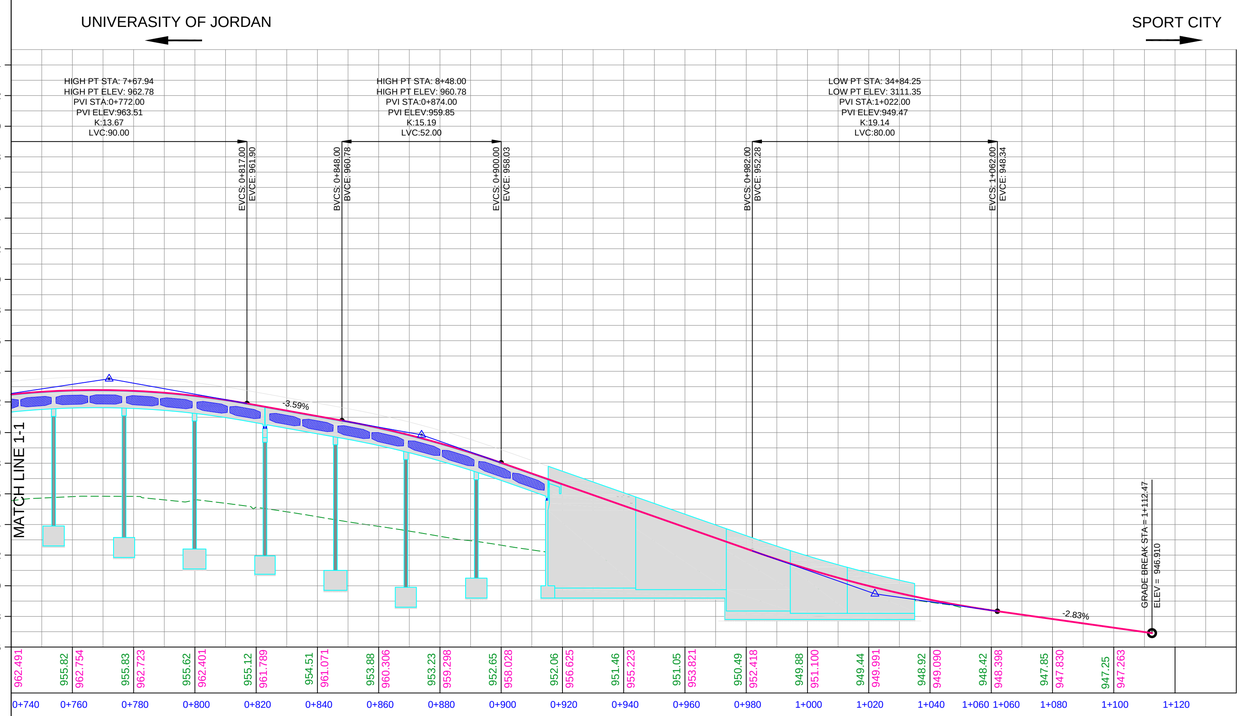
Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50
METERS

Drawing Number:	Rev.:
R-058	0



MAIN ROAD PROFILE



MAIN ROAD PROFILE

NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR ROAD LAYOUT PLANS REFER TO DWG'S No'S R-055, R-56, R-057 & R-058

3- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

CENTERLINE NATURAL GROUND

PGE

N.G.	PGE	N.G.	PGE	N.G.	PGE	N.G.	PGE				
STA.	STA.	STA.	STA.								

PGE PROFILE GRADE ELEVATION

N.G. NATURAL GROUND

STA. STATION

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

MAIN ROAD PROFILE

Consultant:

steer davies gleave

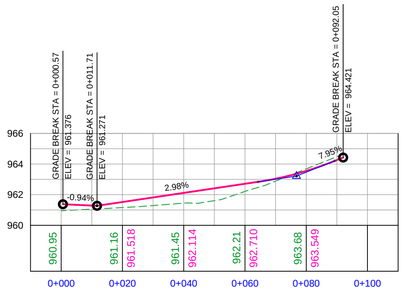
engicon

Design: M.H.H	Drawn by: CAD	Checked: T.A.
Scale: V 1:200 H 1:1000	Date: NOV. 2016	Approved: W.Z.

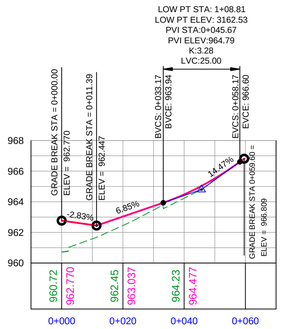
0 10 20 30 40 50 60 70 80 90 100

METERS

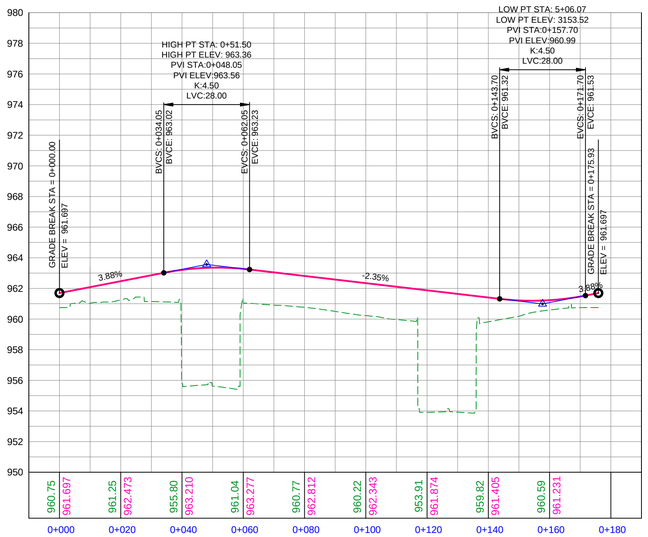
Drawing Number:	Rev.:
R-060	0



ROAD-1 PROFILE



ROAD-2 PROFILE



ROUND ABOUT PROFILE

NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR ROAD LAYOUT PLANS REFER TO DWG'S No'S R-055, R-56, R-057 & R-058

3- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

CENTERLINE NATURAL GROUND

PGE

PGE PROFILE GRADE ELEVATION

N.G. NATURAL GROUND

STA. STATION

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

ROAD PROFILES

Consultant:

steer davies gleave

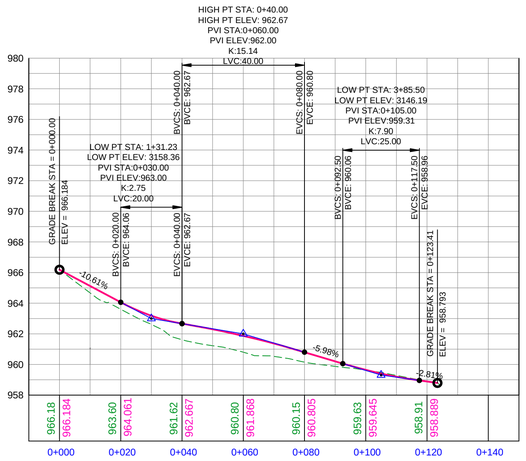
engicon

Design: M.H.H	Drawn by: CAD	Checked:
Scale: V 1:200 H 1:1000	Date: NOV. 2016	Approved: W.Z.

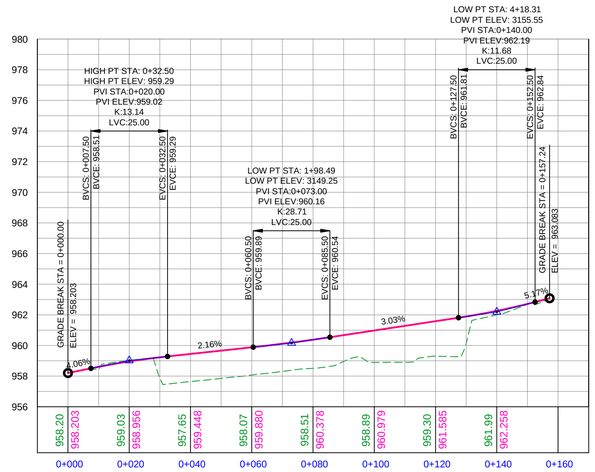
0 10 20 30 40 50 60 70 80 90 100

METERS

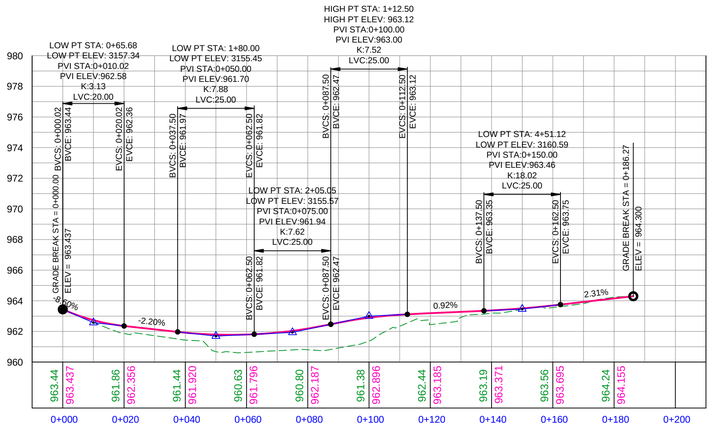
Drawing Number:	Rev.:
R-061	0



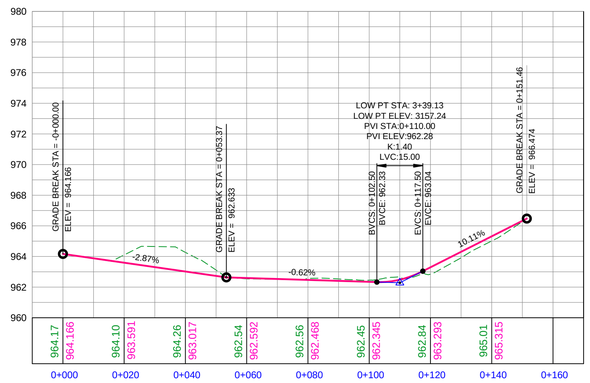
SIDE ROAD -1 PROFILE



SIDE ROAD -2 PROFILE



SIDE ROAD -3 PROFILE



SIDE ROAD -4 PROFILE

NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR ROAD LAYOUT PLANS REFER TO DWG'S No'S R-055, R-56, R-057 & R-058

3- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

CENTERLINE NATURAL GROUND

PGE

N.G.	PGE	N.G.	PGE	PGE	N.G.	PGE			
STA.	STA.	STA.	STA.						

PGE PROFILE GRADE ELEVATION

N.G. NATURAL GROUND

STA. STATION

Purpose Of Issue	Rev.	Date	Approved

Client: GREATER AMMAN MUNICIPALITY

Project: STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package: PRESS TUNNEL

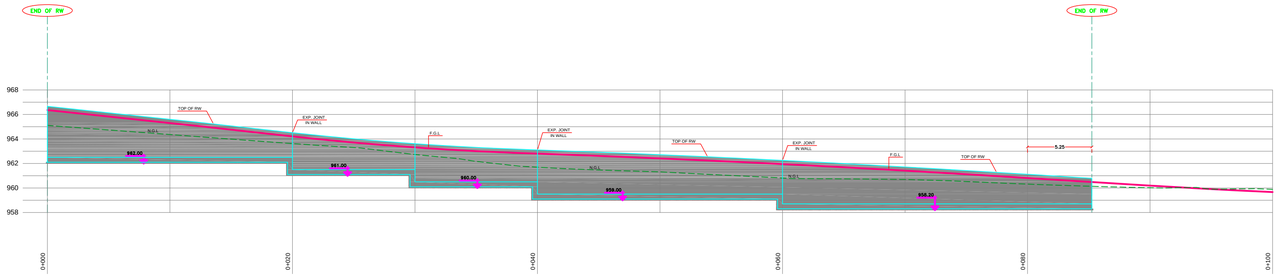
Title: ROAD PROFILES

Consultant: steer davies gleave / engicon

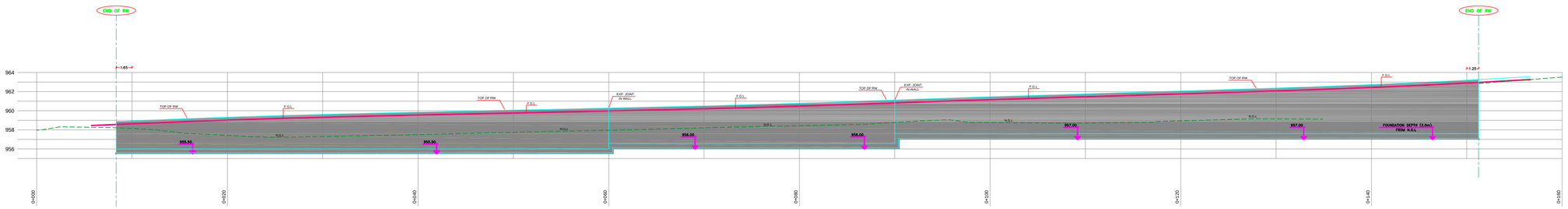
Design: M.H.H	Drawn by: CAD	Checked:
Scale: V 1:200 H 1:1000	Date: NOV. 2016	Approved: W.Z.

0 10 20 30 40 50 60 70 80 90 100 METERS

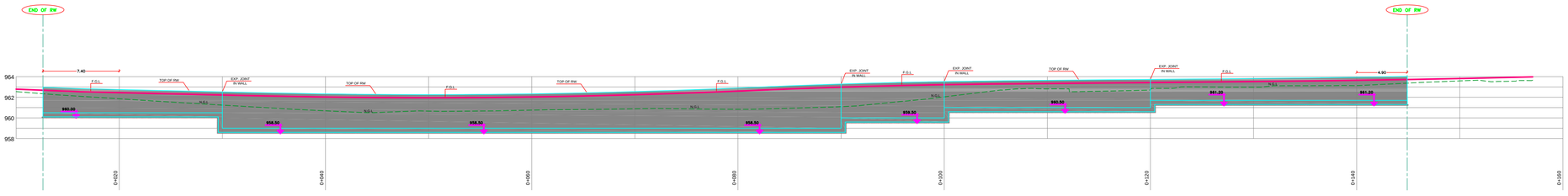
Drawing Number: R-062	Rev.: 0



Side Road-1 PROFILE



Side Road-2 PROFILE



Side Road-3 PROFILE

NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR ROAD LAYOUT PLANS REFER TO DWG'S No'S R-055, R-56, R-057 & R-058

3- FOR STRUCTURAL DETAILS REFER TO CORRESPONDING DRAWINGS.

LEGEND

- CENTERLINE NATURAL GROUND
- PGE

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

RETAINING WALLS PROFILES

Consultant:

steer davies gleave

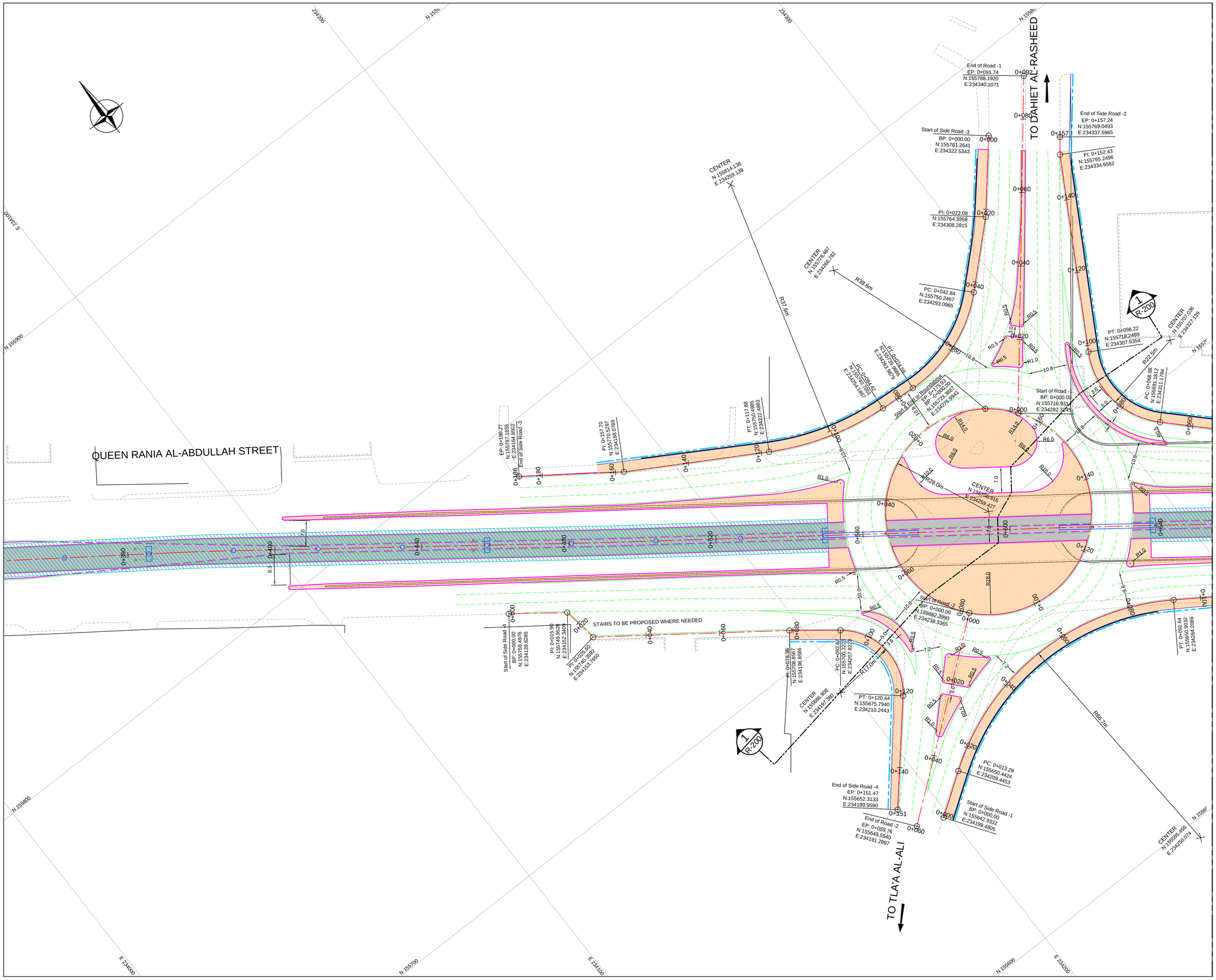
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:250	Date: NOV. 2016	Approved: W.Z.

0 5 10 15 20 25

METERS

Drawing Number:	Rev.:
R-063	0



MATCH LINE SEE DWG. No. R-071

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- ▨ Bridge
- ▨ BRT Path
- ▨ Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SETTING OUT PLAN

SHEET 1 OF 2

Consultant:

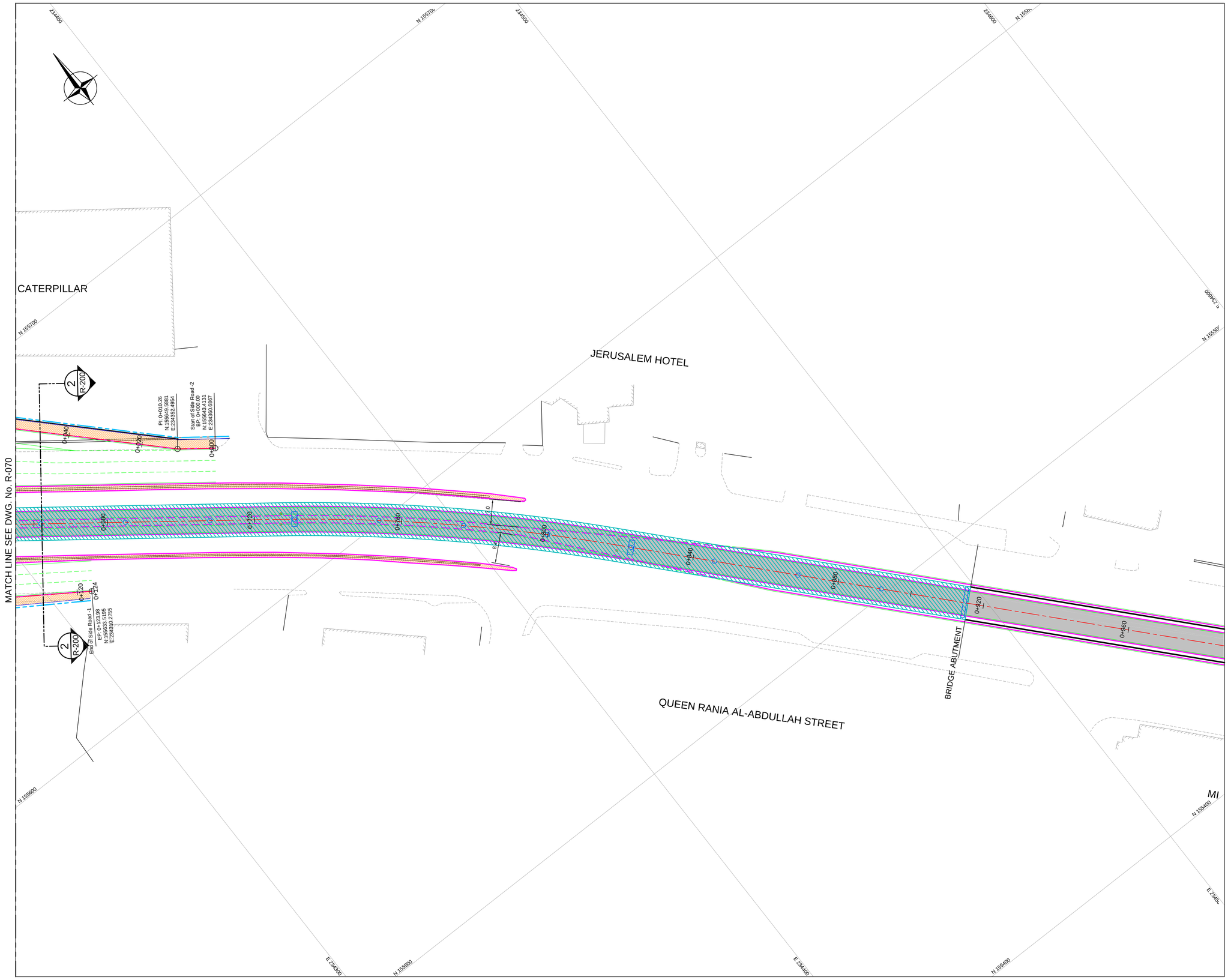
steer davies gleave
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.

Scale:	Date:	Approved:
1:500	DEC. 2016	W.Z.

0 5 10 15 20 25 30 35 40 45 50
METERS

Drawing Number:	Rev.:
R-070	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

LEGEND

- CENTER LINE
- R.O.W
- CURBE STONE
- Existing Contours
- Existing Walls
- Existing Curb
- Existing Buildings
- RETAINING WALL
- Marking
- Bridge
- BRT Path
- Sidewalk and Landscape areas

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SETTING OUT PLAN

SHEET 2 OF 2

Consultant:

steer davies gleave

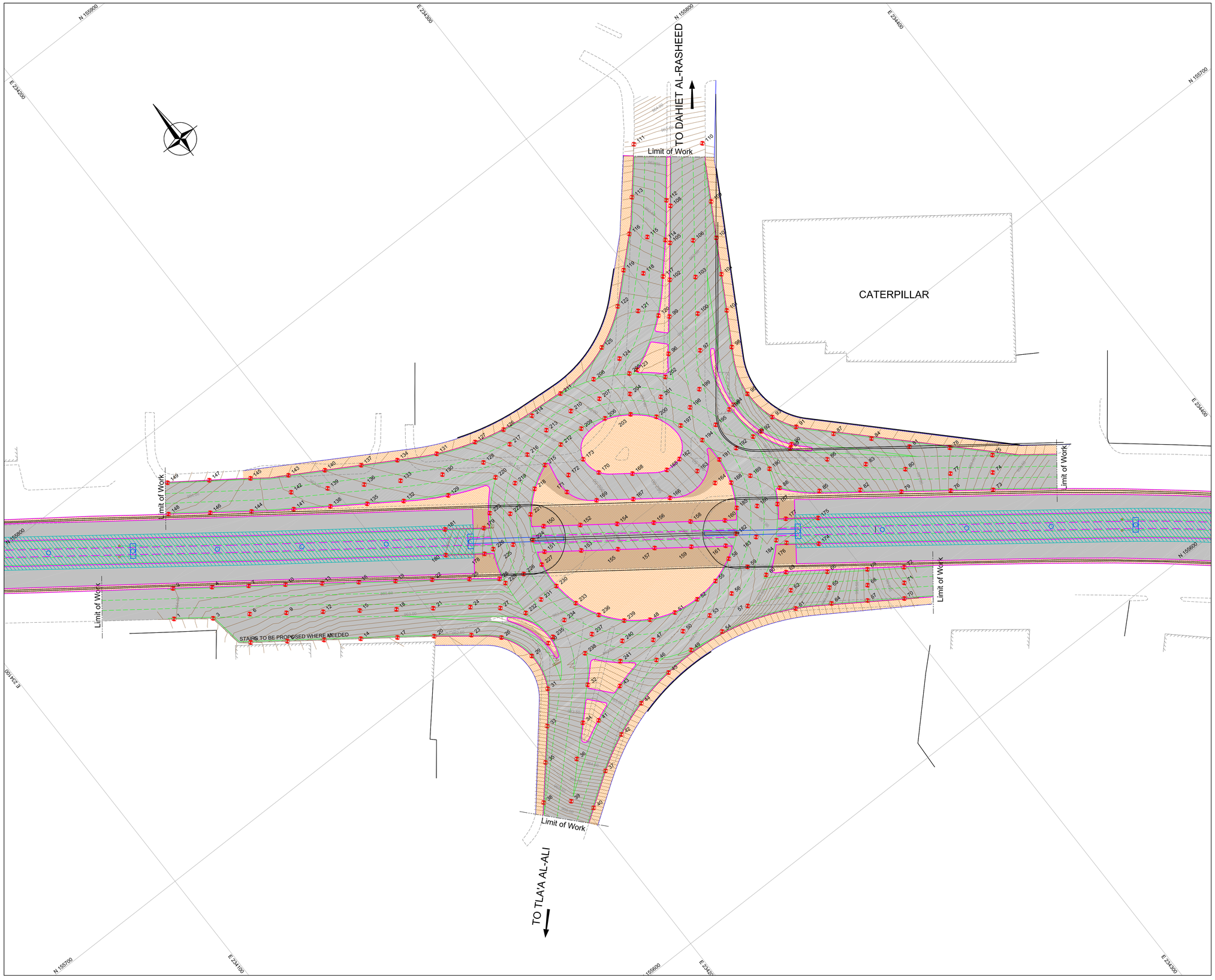
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: NOV. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-071	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR SPOT ELEVATIONS TABLE REFER TO DWG. No. R-205

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SPOTE ELEVATION LAYOUT

Consultant:

steer dav

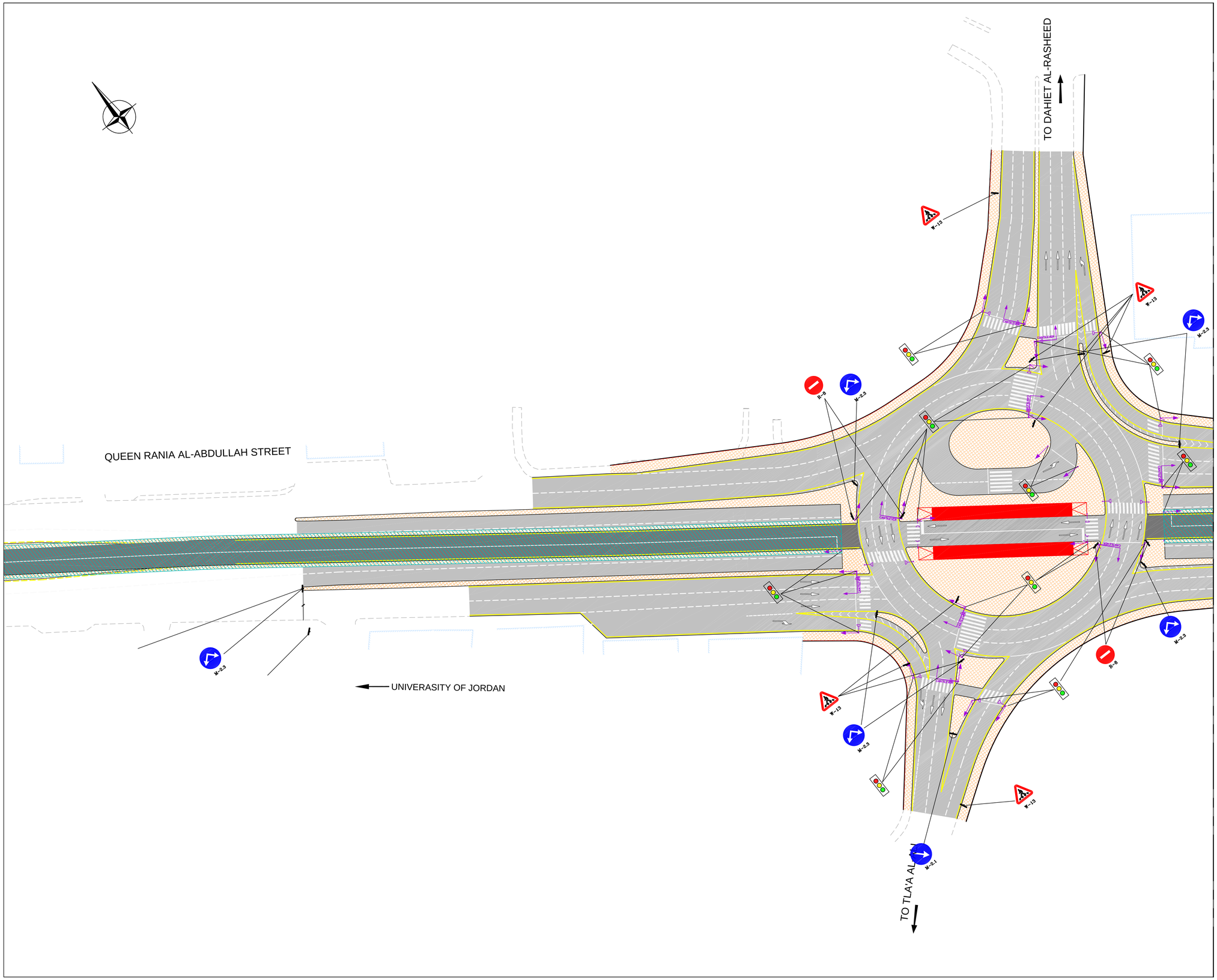
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale:	Date:	Approved:
1:500	DEC. 2016	W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-072	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR PAVEMENT MARKING DETAILS REFER TO DWG No. R-204.

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SIGNING & MARKING LAYOUT

SHEET 1 OF 2

Consultant:

steer davies gleave

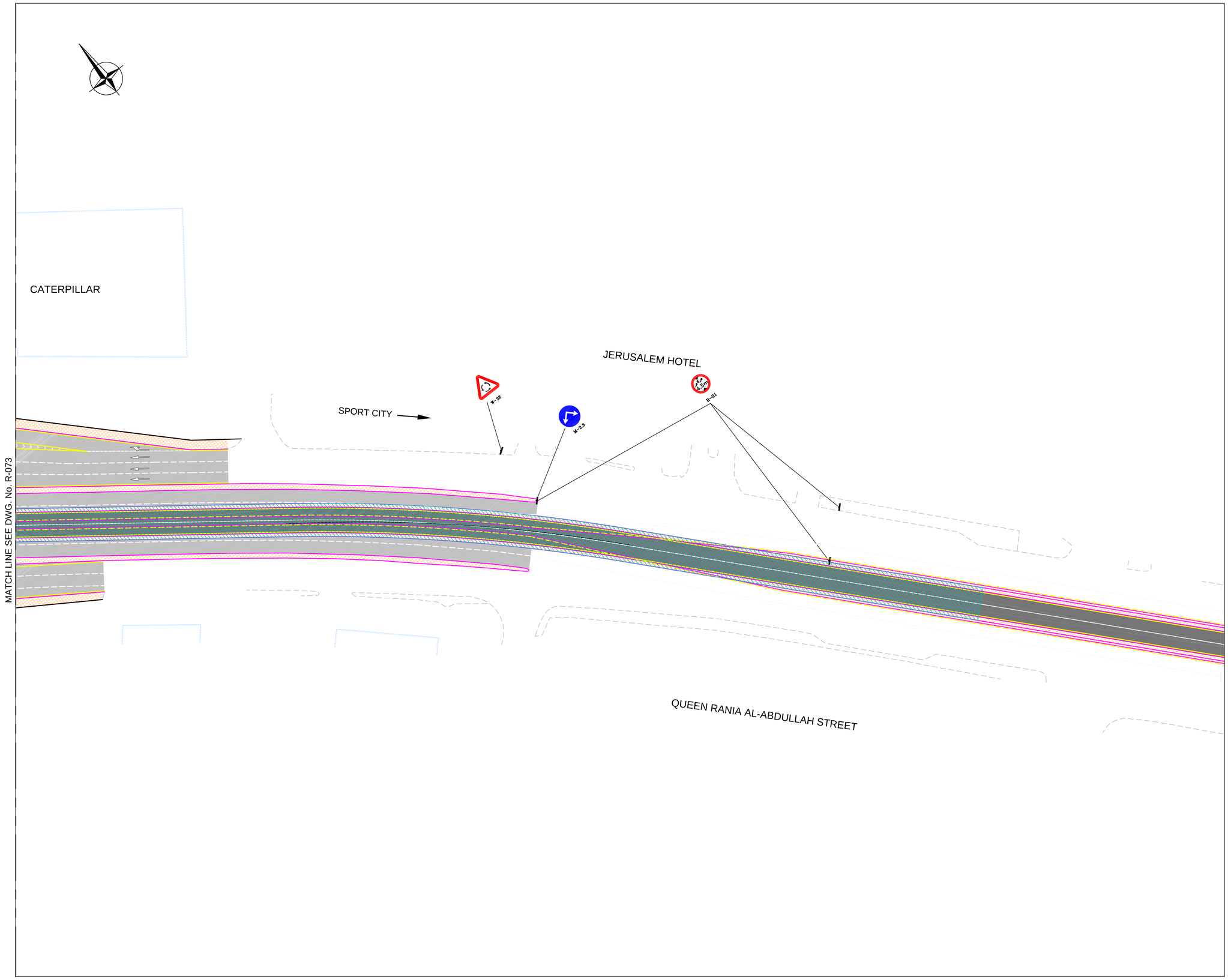
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale: 1:500	Date: DEC. 2016	Approved: W.Z.

0 5 10 15 20 25 30 35 40 45 50

METERS

Drawing Number:	Rev.:
R-073	0



NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

2- FOR PAVEMENT MARKING DETAILS REFER TO DWG No. R-204.

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SIGNING & MARKING LAYOUT

SHEET 2 OF 2

Consultant:

steer davies gleave

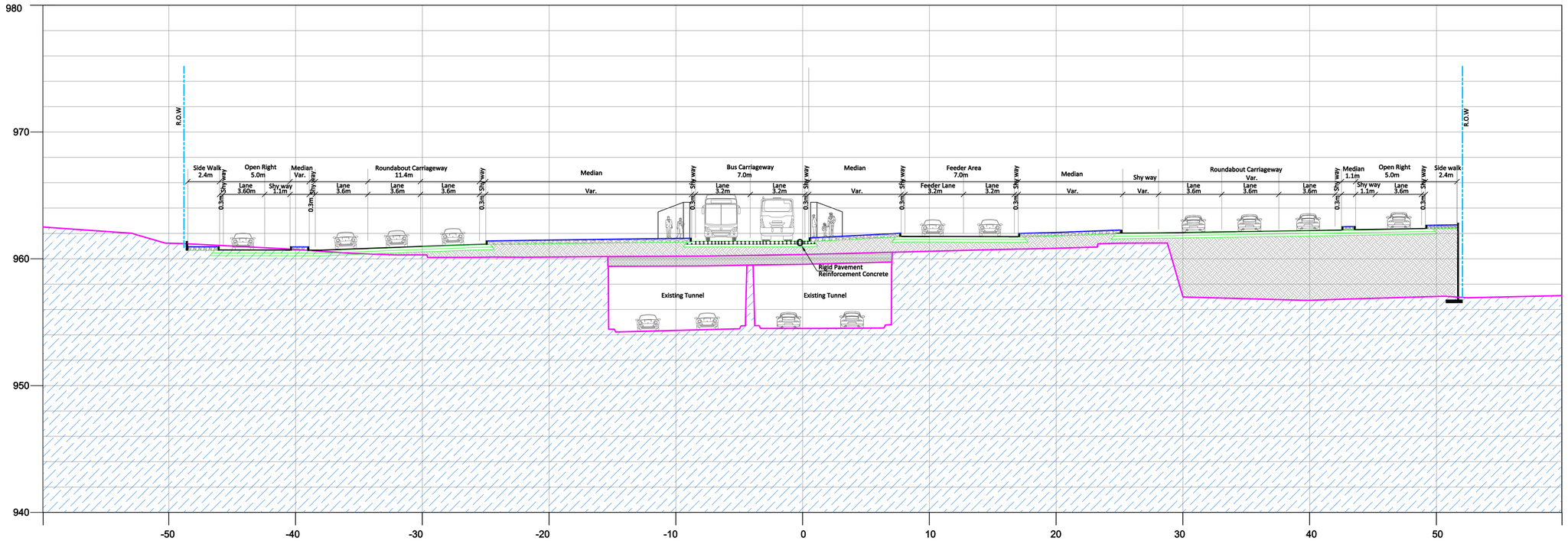
engicon

Design:	Drawn by:	Checked:
M.H.H	CAD	T.A.
Scale:	Date:	Approved:
1:500	DEC. 2016	W.Z.

0 5 10 15 20 25 30 35 40 45 50

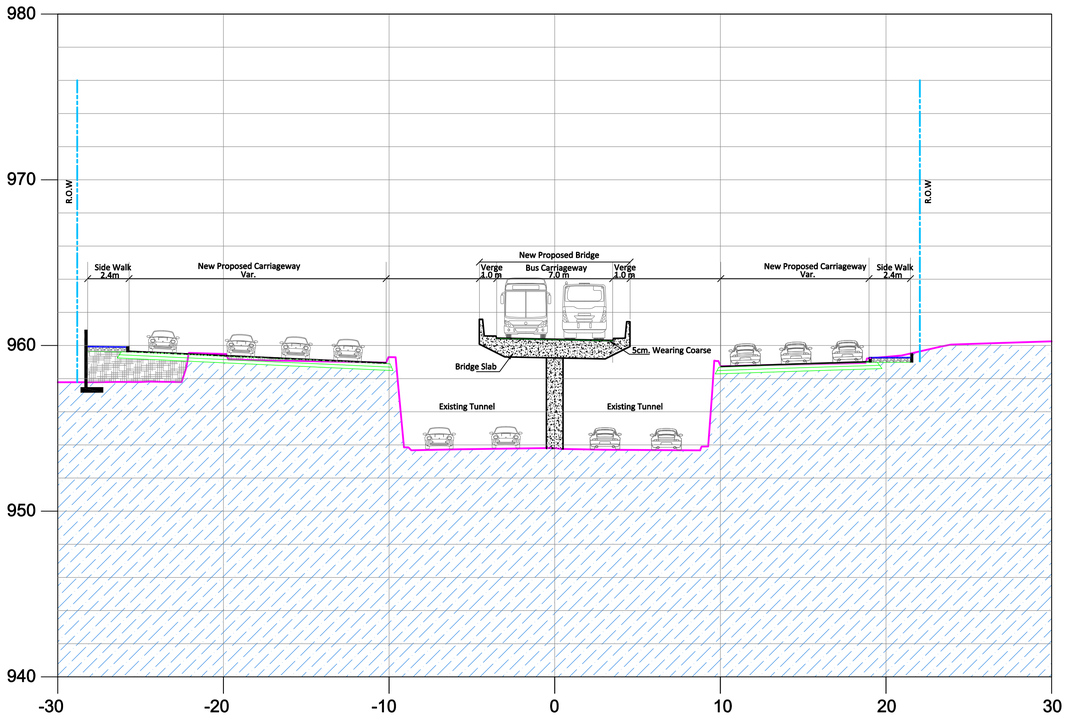
METERS

Drawing Number:	Rev.:
R-074	0



SECTION 1-1

SEE DWG. No. R-070



SECTION 2-2

SEE DWG. No. R-071

NOTES:-

1- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDECATED.

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

ROAD SECTIONS 1-1 & 2-2

Consultant:

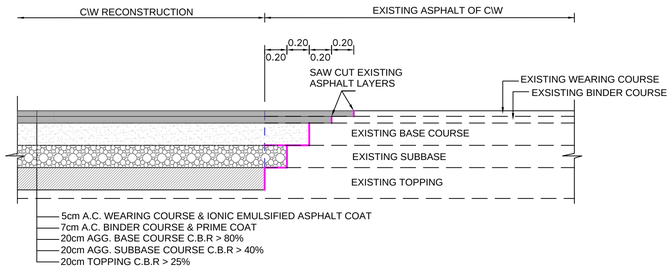
steer davies gleave

engicon

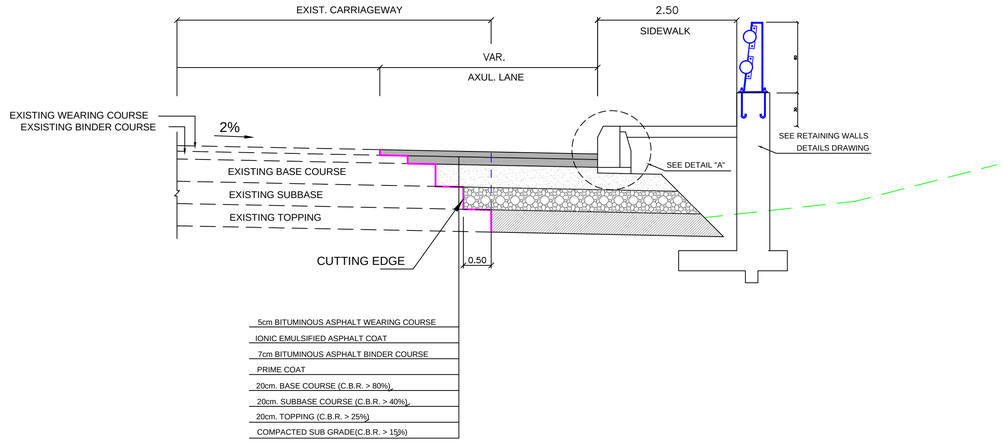
Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

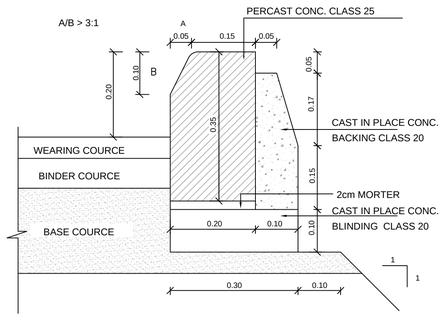
Drawing Number:	Rev.:
R-200	0



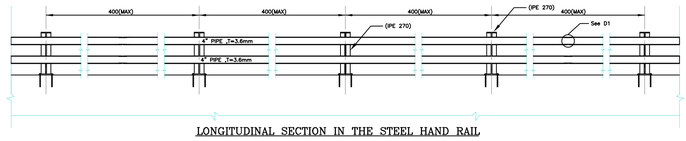
TRANSVERSE JOINT DETAIL
AT START/END OF RECONSTRUCTION.
SCALE : 1 / 25



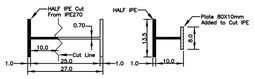
TYPICAL CROSS SECTION IN
ROAD WIDENING
H=1:50
V=1:25



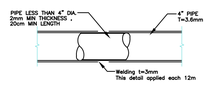
TYPICAL CURBSTONE DETAIL (A)



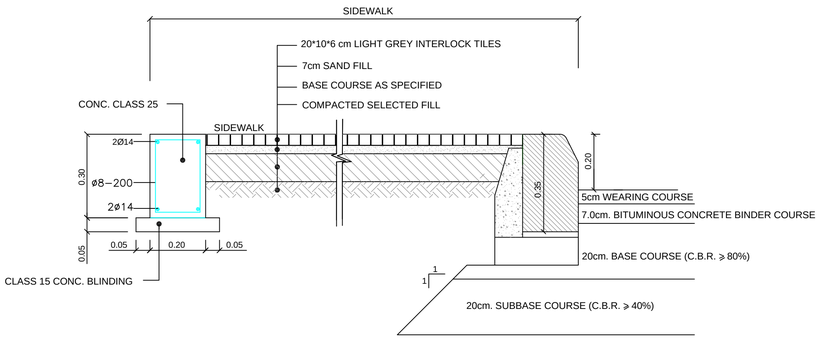
LONGITUDINAL SECTION IN THE STEEL HAND RAIL



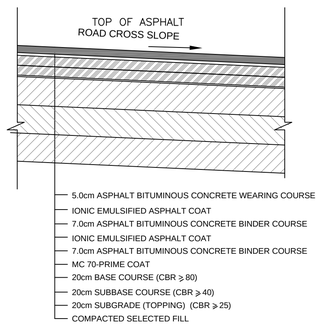
CROSS SECTION IN IPE270



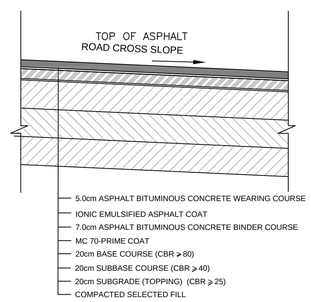
DETAIL (D1)



SIDEWALK, CURBSTONE DETAIL &
EDGE BEAM DETAIL



(DETAIL A) ROADS TYPICAL LAYERS ASPHALT
PAVEMENT AT BRT



(DETAIL B) ROADS TYPICAL LAYERS ASPHALT PAVEMENT AT ROAD
EXTENSION AREAS

NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:
GREATER AMMAN MUNICIPALITY

Project:
STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:
PRESS TUNNEL

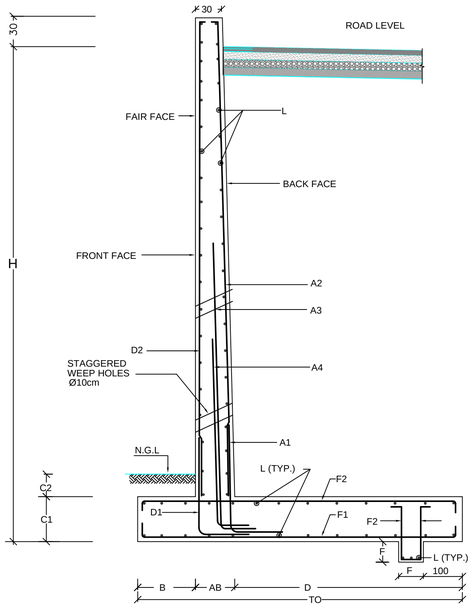
Title:
ROAD DETAILS -1

Consultant:
steer davies gleave
engicon

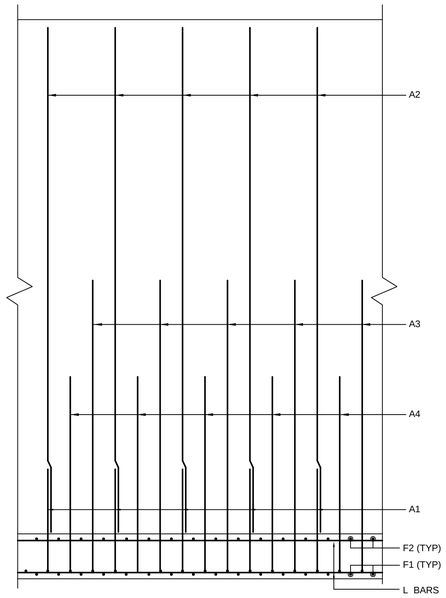
Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

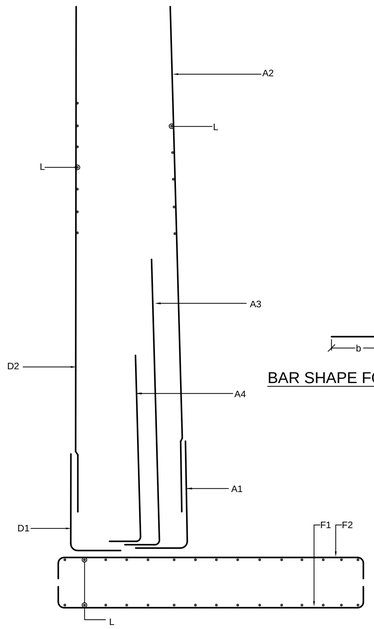
Drawing Number:	Rev.:
R-201	0

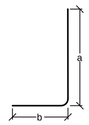


TYP. SECTION

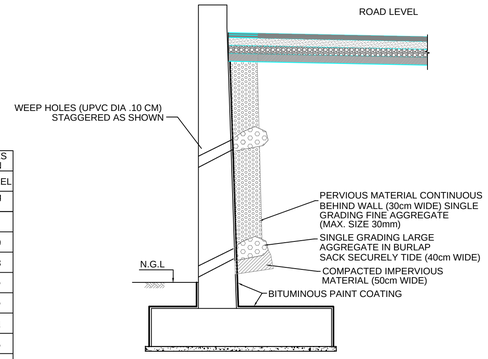


BACK FACE REINFORCEMENT

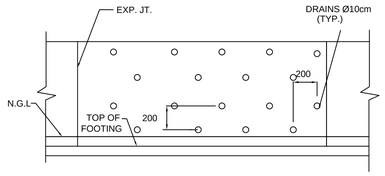




BAR SHAPE FOR (A1,A3,A4,D1)



TYPICAL SECTION



ELEVATION SHOWING WEEP HOLES

DIMENSIONS								REINFORCEMENT(B.C=2.0)																																				QUANTITIES PER m RUN	
H	C1	AB	D	B	TO	C2	F	BAR A1					BAR A2			BAR A3					BAR A4					BAR D1					BAR D2			BAR F1			BAR F2			BAR L		CON.	STEEL
cm	cm	cm	cm	cm	cm	cm	cm	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	CU.m	Kg
150	30	30	100	-	130	50	-	-	-	-	-	-	-	-	-	14	15	145	35	180	-	-	-	-	-	12	15	145	35	180	-	-	-	14	15	180	12	15	180	12	15	.85	85
200	30	30	120	-	150	50	-	-	-	-	-	-	-	-	-	14	15	195	35	230	-	-	-	-	-	12	15	195	35	230	-	-	-	14	15	200	12	15	200	12	15	1.1	109
250	30	30	140	-	170	50	-	-	-	-	-	-	-	-	-	14	30	245	35	280	14	30	90	40	130	12	15	245	35	280	-	-	-	14	15	220	12	15	220	12	15	1.3	133
300	30	30	160	-	190	50	-	-	-	-	-	-	-	-	-	14	30	295	35	330	14	30	110	40	150	12	15	295	35	330	-	-	-	14	15	240	12	15	240	12	15	1.5	155
350	35	35	180	-	215	50	-	-	-	-	-	-	-	-	-	14	30	345	35	380	14	30	130	40	170	12	15	345	35	380	-	-	-	14	15	270	12	15	270	12	15	1.9	175
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DIMENSIONS								REINFORCEMENT(B.C=2.5)																																				QUANTITIES PER m RUN	
H	C1	AB	D	B	TO	C2	F	BAR A1					BAR A2			BAR A3					BAR A4					BAR D1					BAR D2			BAR F1			BAR F2			BAR L		CON.	STEEL
cm	cm	cm	cm	cm	cm	cm	cm	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	CU.m	Kg
150	30	30	100	-	130	50	-	-	-	-	-	-	-	-	-	14	15	145	35	180	-	-	-	-	-	12	15	145	35	180	-	-	-	14	15	180	12	15	180	12	15	.85	85
200	30	30	120	-	150	50	-	-	-	-	-	-	-	-	-	14	15	195	35	230	-	-	-	-	-	12	15	195	35	230	-	-	-	14	15	200	12	15	200	12	15	1.1	109
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900	130	130	230	180	540	100	70	20	45	250	50	300	20	45	810	20	45	630	50	690	20	45	310	50	380	18	15	245	45	290	18	15	810	18	15	590	20	15	590	18	20	13.9	835

NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

RETAINING WALLS DETAILS - 1

Consultant:

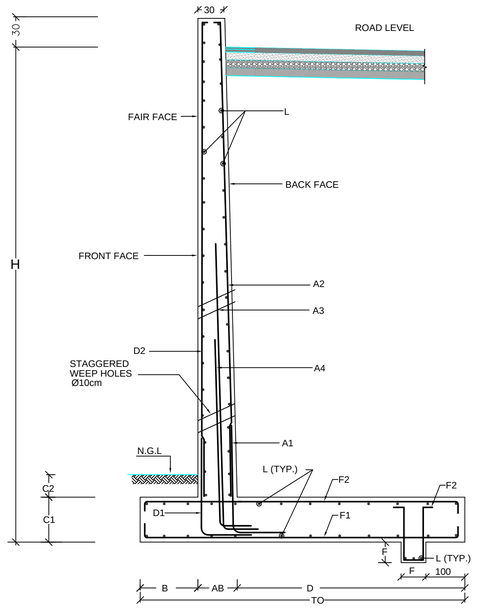
steer davies gleave

engicon

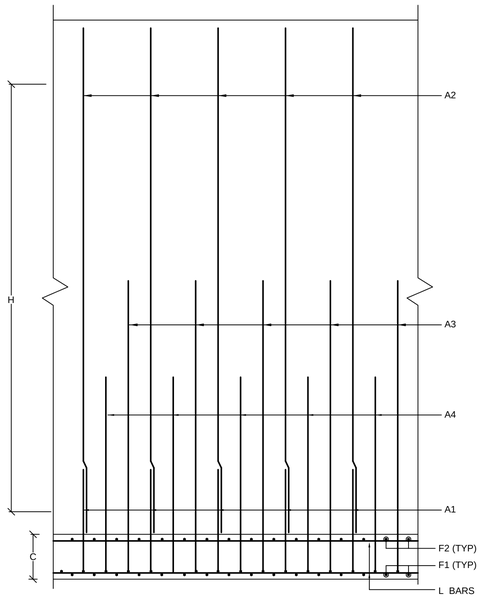
Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

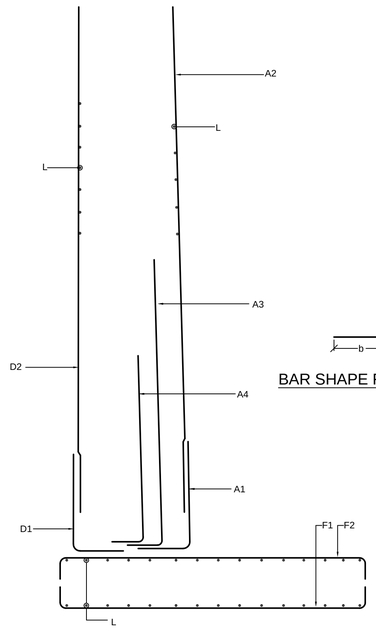
Drawing Number:	Rev.:
R-202	0

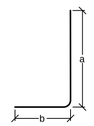


TYP. SECTION

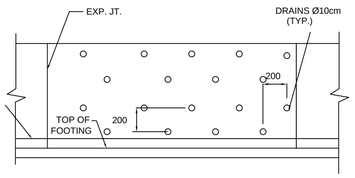


BACK FACE REINFORCEMENT

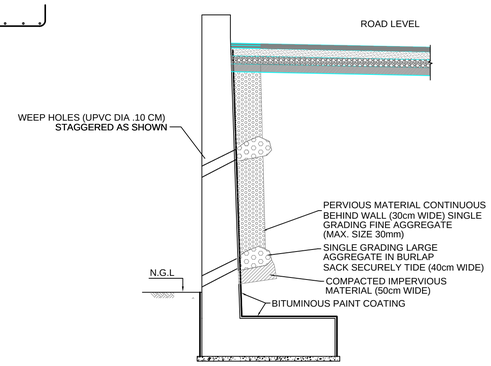




BAR SHAPE FOR (A1,A3,A4,D1)



ELEVATION SHOWING WEEP HOLES



TYPICAL SECTION

DIMENSIONS								REINFORCEMENT(B.C=3.0)																																		QUANTITIES PER m RUN	
H	C1	AB	D	B	TO	C2	F	BAR A1					BAR A2			BAR A3					BAR A4					BAR D1					BAR D2			BAR F1			BAR F2			BAR L		CON.	STEEL
cm	cm	cm	cm	cm	cm	cm	cm	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	a cm	b cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	LENG.	SIZE Ø mm	SP cm	CU.m	Kg
150	30	30	100	-	130	50	-	-	-	-	-	-	-	-	-	14	15	145	35	180	-	-	-	-	-	12	15	145	35	180	-	-	-	14	15	180	12	15	180	12	15	.85	85
200	30	30	120	-	150	50	-	-	-	-	-	-	-	-	-	14	15	195	35	230	-	-	-	-	-	12	15	195	35	230	-	-	-	14	15	200	12	15	200	12	15	1.1	109
250	30	30	140	-	170	50	-	-	-	-	-	-	-	-	-	14	30	245	35	280	14	30	90	40	130	12	15	245	35	280	-	-	-	14	15	220	12	15	220	12	15	1.3	133
300	40	30	160	-	190	50	-	-	-	-	-	-	-	-	-	14	30	295	35	330	14	30	110	40	150	12	15	295	35	330	-	-	-	14	15	240	12	15	240	12	15	1.5	155
350	35	35	180	-	215	50	-	-	-	-	-	-	-	-	-	14	30	345	35	380	14	30	130	40	170	12	15	345	35	380	-	-	-	14	15	270	12	15	270	12	15	1.9	175
400	40	40	200	-	240	50	40	14	45	130	40	170	14	45	400	14	45	280	40	320	14	45	140	40	180	12	15	125	35	160	12	15	400	12	15	290	14	15	290	14	20	2.6	191
450	45	45	200	-	245	50	45	14	45	130	40	170	14	45	445	14	45	320	40	360	14	45	160	40	200	12	15	125	35	160	12	15	445	12	15	295	14	15	295	14	20	2.9	227
500	50	50	1.5	50	250	100	50	14	45	150	40	190	16	45	490	16	45	360	40	400	16	45	180	40	230	14	15	145	40	185	14	15	490	14	15	300	16	15	300	14	20	3.5	282
550	55	55	180	50	295	100	50	14	45	155	40	195	16	45	535	16	45	390	40	430	16	45	190	40	240	14	15	150	40	190	14	15	535	14	15	350	16	15	350	14	20	4.2	325
600	60	60	180	80	320	100	55	16	45	160	40	200	16	45	580	16	45	430	40	480	16	45	210	40	260	14	15	155	40	195	14	15	580	14	15	370	16	15	370	14	20	4.8	388
650	65	65	200	80	345	100	55	16	45	175	50	225	18	45	625	18	45	460	50	510	18	45	230	50	280	16	15	170	40	210	16	15	625	16	15	395	18	15	395	16	20	5.5	460
700	70	70	200	100	370	100	60	16	45	180	50	230	18	45	670	18	45	490	50	540	18	45	250	50	300	16	15	175	40	215	16	15	670	16	15	420	18	15	420	16	20	6.4	496
750	80	80	200	120	400	100	60	18	45	190	50	240	18	45	710	18	45	530	50	580	18	45	260	50	310	16	15	185	40	225	16	15	710	16	15	450	18	15	450	16	20	7.4	539
800	100	100	200	120	420	100	60	18	45	210	50	260	18	45	740	18	45	560	50	610	18	45	280	50	330	16	15	205	40	245	16	15	740	16	15	420	18	15	420	16	20	9.3	560
850	110	110	200	140	450	100	70	20	45	220	50	270	20	45	780	20	45	590	50	550	20	45	290	50	350	18	15	215	45	260	18	15	780	18	15	450	20	15	450	18	20	10.8	743
900	130	130	220	160	510	100	70	20	45	250	50	300	20	45	810	20	45	630	50	690	20	45	310	50	380	18	15	245	45	290	18	15	810	18	15	560	20	15	560	18	20	13.5	817

NOTES:-

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

RETAINING WALLS DETAILS - 2

Consultant:

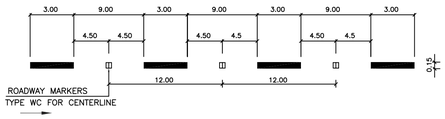
steer davies gleave

engicon

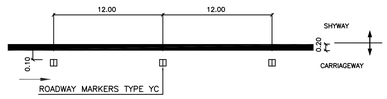
Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

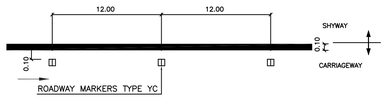
Drawing Number:	Rev.:
R-203	0



0.15m WIDE BROKEN WHITE CENTER OR LANE LINE (TYPE 1)
N.T.S

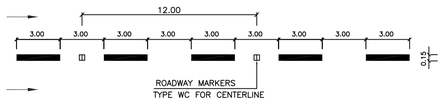


0.20m WIDE SOLID YELLOW CARRIAGEWAY EDGE LINE (TYPE 2)
N.T.S



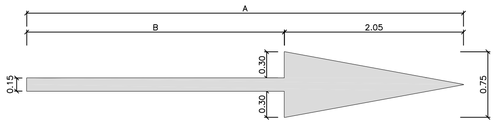
0.10m WIDE SOLID YELLOW CARRIAGEWAY EDGE LINE (TYPE 4)
N.T.S

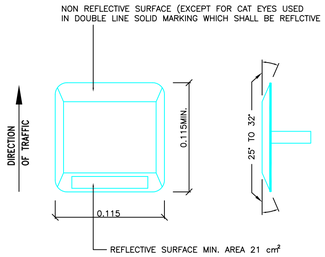
0.50m WIDE SOLID WHITE STOP LINE (TYPE 6)
N.T.S



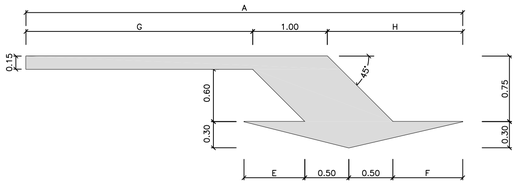
0.25m WIDE BROKEN WHITE ACC./DEC. LANE (TYPE 3)
N.T.S

0.50m WHITE YIELD LINE (TYPE 7)
N.T.S



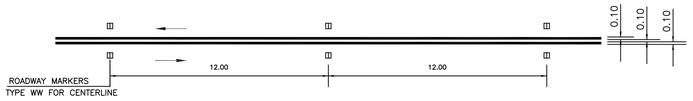


TYPICAL ROADWAY MARKER
N.T.S

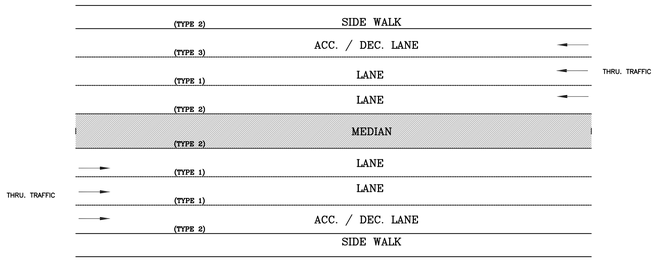


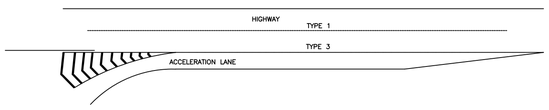
ARROW MARKINGS
SCALE 1:25

TYPE OF HIGHWAY	DIMENSIONS OF ARROW (cm)								
	A	B	C	D	E	F	G	H
SECONDARY	500	295	35	160	70	80	245	155

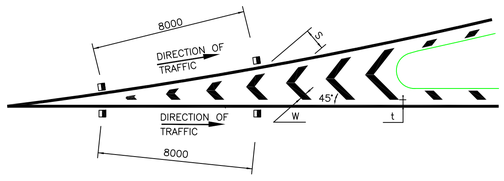


0.10m WIDE BROKEN WHITE CENTER NO PASSING ZONE (TYPE 5)
N.T.S



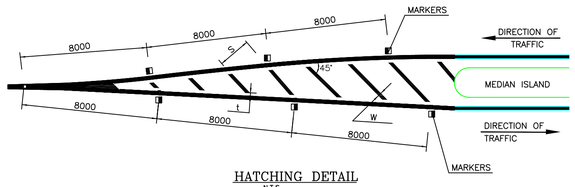


ARRANGEMENT OF DEFLECTED ARROW MARKINGS
ALONG ACCELERATION LANES
N.T.C



SPEED km/h	S m	W mm	t mm
40–<60	1	0.20	150
60–<80	1.5	0.30	150
80–<100	2.5	0.50	200

CHEVRON MARKING DETAIL



HATCHING DETAIL
N.T.S

PEDESTRIAN CROSSING
W13

YIELD
R-1

ROUNDABOUT
W32

HEIGHT LIMIT
R21

NO ENTRY
R8

PASS TO THE RIGHT SIDE
M2.1

PASS EITHER SIDE
M2.3

NOTES:-

1–FOR ABBREVIATIONS SYMBOLS AND GENERAL NOTES REFER TO DWG. No. GE–101

2–ALL DIMENSIONS ARE IN METERS.

3–THE ARRANGEMENT OF PAVEMENT MARKINGS AT EACH INTERSECTION IS SHOWN IN THE CORRESPONDING TRAFFIC CONTROL DEVICES PLANS.

4. ALL PAINT MARKINGS SHALL BE SPRAYED THERMOPLASTIC REFLECTORISED PAINT (TROPICAL GRADE)

5. THE CONTRACTOR SHALL SUBMIT MARKING & SIGNING DRAWINGS FOR ALL TRAFFIC DETOURS BASED ON PROJECT DETAILS AND ON MPWH MANUAL ON TRAFFIC CONTROL DEVICES FOR APPROVAL.

6. ARROW MARKING SHAPES ADOPTED ON OTHER MAJOR HIGHWAYS IN JORDAN CAN BE ADOPTED IF APPROVED BY THE ENGINEER.

7. 0.10m WIDE SOLID YELLOW CARRIAGEWAY EDGE LINE (TYPES 4&5) SHALL BE USE IN BRT CARRIAGEWAY .

LEGEND:–

MARKERS TYPE CC=CLEAR (WHITE) BOTH WAYS
MARKERS TYPE RC=RED–CLEAR (WHITE)
MARKERS TYPE YY=YELLOW BOTH WAY
MARKERS TYPE YC=YELLOW–CLEAR (WHITE)

Purpose Of Issue	Rev.	Date	Approved

Client:
GREATER AMMAN MUNICIPALITY

Project:
STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:
PRESS TUNNEL

Title:
PAVEMENT MARKING DETAILS

Consultant:
steer davies gleave
engicon

Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

Drawing Number: R-204
Rev.: 0

No.	Northing (m)	Easting (m)	Elevation (m)
1	155756.3990	234143.8760	964.0150
2	155763.1070	234148.7710	964.0520
3	155749.9530	234152.3410	963.7090
4	155756.8420	234157.3690	964.0040
5	155738.4740	234156.3440	963.3390
6	155744.7350	234160.9130	963.6580
7	155750.9370	234165.4390	963.9600
8	155732.5730	234164.4170	963.0520
9	155738.8120	234168.9700	963.4930
10	155745.0310	234173.5090	963.9040
11	155726.6710	234172.4900	962.7640
12	155732.8890	234177.0270	963.3240
13	155739.1260	234181.5790	963.8560
14	155720.7700	234180.5630	962.5990
15	155726.9660	234185.0840	963.2010
16	155733.2200	234189.6490	963.8070
17	155714.8680	234188.6360	962.5370
18	155721.0430	234193.1420	963.1450
19	155727.3150	234197.7190	963.7590
20	155708.9660	234196.7080	962.4760
21	155715.1200	234201.1990	963.0870
22	155721.4090	234205.7890	963.7130
23	155702.9660	234204.8600	962.4350
24	155709.1240	234209.3540	963.0480
25	155715.3170	234213.8730	963.6630
26	155697.3880	234210.8940	962.3720
27	155703.8650	234215.6200	963.0070
28	155710.3010	234220.3170	963.6240
29	155688.3210	234214.3210	962.3720
30	155688.3220	234220.0150	962.7220
31	155678.6390	234212.2340	962.9880
32	155672.7560	234221.4670	962.9310
33	155670.7120	234205.8540	964.0170
34	155665.4220	234214.0320	963.6990
35	155663.2040	234199.3680	965.0200
36	155658.7040	234206.6350	964.4720
37	155651.3390	234210.7800	964.6030
38	155654.9350	234192.2200	966.1330
39	155650.5950	234198.3380	965.6680
40	155645.4060	234202.0390	965.7240
41	155663.3050	234217.8140	963.5200
42	155656.4580	234220.3090	963.5280
43	155667.0970	234228.1610	962.7540
44	155659.8140	234229.8180	962.8750
45	155661.8140	234240.8190	962.4270
46	155666.5290	234240.3560	962.1380
47	155671.3710	234243.0360	962.3380
48	155676.2200	234245.7360	962.5380
49	155662.8510	234249.4660	961.9180
50	155668.2190	234250.8740	962.1450
51	155673.5880	234252.2830	962.3720
52	155672.6660	234259.2790	962.2070
53	155667.1170	234259.2490	961.9940
54	155661.5670	234259.2200	961.7710
55	155673.5140	234266.2840	962.0430
56	155668.1310	234267.6360	961.8640
57	155662.7480	234268.9880	961.6980
58	155676.0770	234272.8580	961.8790
59	155671.1990	234275.5060	961.7490
60	155666.3220	234278.1540	961.6260
61	155654.1590	234278.8340	960.4260
62	155658.8720	234280.8530	960.7960
63	155663.5850	234282.8710	961.1750
64	155649.2100	234287.3670	959.8570
65	155652.9690	234289.5710	960.0210
66	155656.7270	234291.7740	960.2110
67	155643.7650	234295.5970	959.3600

No.	Northing (m)	Easting (m)	Elevation (m)
68	155647.0810	234298.1500	959.3230
69	155650.4940	234300.7770	959.3170
70	155638.0350	234303.8060	958.9950
71	155641.4150	234306.4070	958.8130
72	155644.7950	234309.0090	958.6530
73	155646.3700	234341.0860	958.6630
74	155650.1740	234343.9270	958.7570
75	155653.9780	234346.7680	958.8560
76	155653.3240	234331.8680	959.1710
77	155657.0580	234334.6690	959.1800
78	155662.6980	234338.8990	0.0000
79	155661.4100	234321.1070	959.7640
80	155665.5660	234325.7530	959.6100
81	155669.7230	234330.3990	959.4780
82	155668.7370	234312.5730	960.2370
83	155673.2870	234318.1160	959.9590
84	155677.8170	234323.6340	959.6950
85	155675.3530	234303.6540	960.7260
86	155680.8190	234310.6670	960.2680
87	155685.2260	234316.3170	959.9270
88	155682.7030	234295.6740	961.2200
89	155689.3620	234304.5910	960.5460
90	155690.0660	234305.5310	960.4750
91	155692.9990	234309.4590	960.1790
92	155697.9050	234301.2240	960.8530
93	155699.1110	234305.9810	960.4190
94	155708.2860	234299.6950	960.9930
95	155708.2860	234304.5250	960.7900
96	155730.1220	234294.3700	961.4300
97	155725.5260	234301.7230	961.2200
98	155720.9310	234309.0750	961.0200
99	155737.9320	234300.8130	961.7200
100	155733.8160	234307.4150	961.5200
101	155729.6120	234314.1580	961.3200
102	155745.7340	234307.0980	962.0200
103	155742.0220	234313.0510	961.8300
104	155738.2630	234319.0810	961.6200
105	155753.6220	234313.3300	962.3200
106	155750.2660	234318.7130	962.1300
107	155746.9100	234324.0950	961.9300
108	155761.4640	234319.6650	962.6200
109	155755.5850	234329.0930	962.3100
110	155769.5080	234337.0030	963.1000
111	155780.8070	234322.1650	963.3900
112	155763.3400	234319.7240	962.7000
113	155769.7840	234312.8600	962.5600
114	155755.0100	234312.8220	962.3800
115	155758.6910	234309.4670	962.3300
116	155762.3720	234306.1120	962.2500
117	155747.5810	234306.2050	962.0700
118	155751.5670	234302.5040	962.0500
119	155755.5540	234298.8030	962.0300
120	155739.9770	234298.6560	961.7600
121	155744.3900	234295.0560	961.8000
122	155748.8030	234291.4570	961.8400
123	155731.9580	234284.9550	961.4430
124	155737.3120	234283.0600	961.6180
125	155742.6670	234281.1650	961.7940
126	155741.5760	234246.3120	962.6630
127	155743.6940	234238.0930	962.9170
128	155737.9230	234236.4690	963.1060
129	155736.7780	234223.3810	963.3750
130	155742.2070	234225.6470	963.2410
131	155747.6370	234227.9130	963.1080
132	155743.0480	234212.9040	963.4560
133	155747.9300	234215.6310	963.3330
134	155752.8810	234218.3970	963.2090
135	155748.5880	234204.6130	963.5230

No.	Northing (m)	Easting (m)	Elevation (m)
136	155753.2210	234207.2010	963.4110
137	155757.8820	234209.8050	963.3010
138	155754.2120	234196.3170	963.5880
139	155758.5360	234198.7320	963.4920
140	155762.9060	234201.1730	963.4010
141	155759.7810	234187.9730	963.6540
142	155763.8590	234190.2510	963.5990
143	155767.9380	234192.5290	963.5490
144	155766.3760	234178.5450	963.7300
145	155773.6520	234183.8750	963.9110
146	155773.0290	234169.4710	963.8040
147	155780.1820	234174.7110	964.1710
148	155779.7510	234160.3070	964.0690
149	155786.6620	234165.3690	964.2790
150	155714.1260	234238.6670	963.1700
151	155708.5290	234234.5580	963.2980
152	155708.2100	234246.7300	962.7630
153	155702.6250	234242.6290	962.9020
154	155702.2940	234254.7920	962.4280
155	155696.7210	234250.7000	962.5670
156	155696.3790	234262.8550	962.1410
157	155690.8180	234258.7720	962.2800
158	155690.4630	234270.9170	961.9080
159	155684.9140	234266.8430	962.0460
160	155684.9180	234278.4750	961.7010
161	155679.3560	234274.3910	961.8380
162	155705.7170	234279.0240	961.6310
163	155700.1520	234280.8410	961.5750
164	155694.5870	234282.6590	961.5150
165	155705.4940	234274.5340	961.8190
166	155698.9720	234270.4770	962.0170
167	155704.8880	234262.4140	962.2680
168	155710.4910	234266.5260	962.1290
169	155710.8030	234254.3520	962.6210
170	155716.3730	234259.4960	962.4000
171	155717.5400	234249.4000	962.8000
172	155720.9480	234252.5690	962.6750
173	155721.8560	234258.3680	962.4380
174	155664.1610	234294.6680	961.2810
175	155669.7790	234298.8440	961.4000
176	155669.7790	234287.9100	961.3810
177	155675.0270	234291.8120	961.5000
178	155718.1460	234221.3550	963.9170
179	155723.7850	234225.5030	964.0580
180	155724.4030	234212.8280	964.4860
181	155730.0420	234216.9750	964.6270
182	155680.1940	234278.5890	961.7100
183	155676.1280	234282.3660	961.6240
184	155672.0630	234286.1440	961.5750
185	155685.6070	234283.1150	961.5490
186	155682.6090	234287.7850	961.4470
187	155679.6100	234292.4560	961.3470
188	155691.9760	234286.1530	961.3850
189	155690.2330	234291.4220	961.2960
190	155688.4900	234296.6920	961.2140
191	155698.9000	234287.5120	961.2390
192	155698.5230	234293.0490	961.1590
193	155698.1450	234298.5860	961.0800
194	155705.9450	234287.1060	961.1920
195	155706.9560	234292.5630	961.1190
196	155707.9670	234298.0200	961.0480
197	155712.6670	234284.9610	961.2570
198	155715.0040	234289.9950	961.2080
199	155717.3400	234295.0290	961.1580
200	155718.6450	234281.2110	961.4300
201	155722.1600	234285.5060	961.3510
202	155725.6750	234289.8010	961.2700
203	155723.5020	234276.0930	961.6940

No.	Northing (m)	Easting (m)	Elevation (m)
204	155727.9750	234279.3790	961.5900
205	155732.4480	234282.6650	961.4870
206	155726.9340	234269.9280	961.9670
207	155732.0840	234271.9980	961.8630
208	155737.2330	234274.0680	961.7470
209	155728.7250	234263.1020	962.2400
210	155734.2280	234263.8270	962.1250
211	155739.7300	234264.5520	962.0090
212	155728.7620	234256.0460	962.5140
213	155734.2720	234255.3800	962.4430
214	155739.7820	234254.7130	962.3760
215	155727.0440	234249.2020	962.7900
216	155732.2140	234247.1870	962.7970
217	155737.3850	234245.1710	962.8040
218	155723.6770	234243.0010	963.0630
219	155728.1840	234239.7630	963.1480
220	155732.6910	234236.5240	963.2320
221	155718.8740	234237.8320	963.2670
222	155722.4340	234233.5740	963.4650
223	155725.9940	234229.3170	963.6590
224	155712.9360	234234.0200	963.3590
225	155715.3250	234229.0100	963.6340
226	155717.7150	234224.0010	963.9070
227	155706.2370	234231.8040	963.3340
228	155707.3050	234226.3580	963.4440
229	155708.3740	234220.9120	963.5610
230	155699.1970	234231.3240	963.2030
231	155698.8770	234225.7830	963.1670
232	155698.5580	234220.2420	963.1480
233	155692.2580	234232.6090	963.0360
234	155690.5710	234227.3220	962.9370
235	155688.8840	234222.0350	962.8390
236	155685.8580	234235.5800	962.8690
237	155682.9090	234230.8780	962.7260
238	155679.9600	234226.1770	962.5860
239	155680.3970	234240.0490	962.7030
240	155676.3720	234236.2290	962.5300
241	155672.3460	234232.4080	962.3560

NOTES:-

1- FOR SPOT ELEVATIONS LAYOUT REFER TO DWG. No. R-072

Purpose Of Issue	Rev.	Date	Approved

Client:

GREATER AMMAN MUNICIPALITY

Project:

STRUCTURAL DESIGN SERVICES FOR AMMAN BRT

Package:

PRESS TUNNEL

Title:

SPOT ELEVATION TABLE

Consultant:

steer davies gleave

engicon

Design: M.H.H.	Drawn by: CAD	Checked: T.A.
Scale: N.T.S	Date: DEC. 2016	Approved: W.Z.

METERS

Drawing Number:	Rev.:
R-205	0