ROADS

KEY DRAWINGS

K-01 ..... LIST OF DRAWINGS
K-02 ..... PROJECT LOCATION MAP
K-03 ..... GENERAL NOTES, ABBREVIATIONS & LEGEND

SURVEY

SV-01 ..... SURVEY LAYOUT (1 OF 3)
SV-02 ..... SURVEY LAYOUT (2 OF 3)
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GEOMETRY

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G-03 ..... PLAN PROFILE (STA. -0+240 TO STA. 0+320)
G-04 ..... PLAN PROFILE (STA. 0+320 TO STA. 0+955.124)
G-05 ..... UNDERPASS PLAN PROFILE (STA. 0+000 TO STA. 0+660)
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G-07 ..... CROSS SECTIONS (1 OF 22)
G-08 ..... CROSS SECTIONS (2 OF 22)
G-09 ..... CROSS SECTIONS (3 OF 22)
G-10 ..... CROSS SECTIONS (4 OF 22)
G-11 ..... CROSS SECTIONS (5 OF 22)
G-12 ..... CROSS SECTIONS (6 OF 22)
G-13 ..... CROSS SECTIONS (7 OF 22)
G-14 ..... CROSS SECTIONS (8 OF 22)
G-15 ..... CROSS SECTIONS (9 OF 22)
G-16 ..... CROSS SECTIONS (10 OF 22)
G-17 ..... CROSS SECTIONS (11 OF 22)
G-18 ..... CROSS SECTIONS (12 OF 22)
G-19 ..... CROSS SECTIONS (13 OF 22)
G-20 ..... CROSS SECTIONS (14 OF 22)
G-21 ..... CROSS SECTIONS (15 OF 22)
G-22 ..... CROSS SECTIONS (16 OF 22)
G-23 ..... CROSS SECTIONS (17 OF 22)
G-24 ..... CROSS SECTIONS (18 OF 22)
G-25 ..... CROSS SECTIONS (19 OF 22)
G-26 ..... CROSS SECTIONS (20 OF 22)
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G-28 ..... CROSS SECTIONS (22 OF 22)
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G-44 ..... PAVEMENT MARKING DETAILS (1 OF 3)
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ST-03 ..... UNDERPASS ELEVATION (1 OF 9)
ST-04 ..... UNDERPASS ELEVATION (2 OF 9)
ST-05 ..... UNDERPASS ELEVATION (3 OF 9)
ST-06 ..... UNDERPASS ELEVATION (4 OF 9)
ST-07 ..... UNDERPASS ELEVATION (5 OF 9)
ST-08 ..... UNDERPASS ELEVATION (6 OF 9)
ST-09 ..... UNDERPASS ELEVATION (7 OF 9)
ST-10 ..... UNDERPASS ELEVATION (8 OF 9)
ST-11 ..... UNDERPASS ELEVATION (9 OF 9)
ST-12 ..... U-SHAPE TYPICAL CROSS SECTION
ST-13 ..... UNDERPASS TYPICAL CROSS SECTION
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ST-16 ..... U-SECTION REINFORCEMENT
ST-17 ..... MISCELLANEOUS GENERAL DETAILS 1
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ST-19 ..... RETAINING WALL T- SHAPE GENERAL DETAILS
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ST-21 ..... UNDERPASS EMERGENCEY EXIT OPENING DETAILS
ST-22 ..... UNDERPASS EMERGENCEY EXIT OPENING REINFORCEMENT DETAILS
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ST-24 ..... UNDERPASS TYPICAL CROSS SECTIONS REINFORCEMENT DETAILS
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E-05 ..... UNDERPASS LIGHTING (PART-1)
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E-09 ..... EMERGENCY EXITS LIGHTING
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T-006 ..... STORM WATER NETWORK - UNDERPASS CATCHMENT AREA FROM STA.U0+000 TO STA.U0+440
T-007 ..... STORM WATER NETWORK - UNDERPASS CATCHMENT AREA FROM STA.U0+440 TO STA.U1+070.374
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T-012 ..... STORM WATER NETWORK PROFILES (1 OF 8)
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T-016 ..... STORM WATER NETWORK PROFILES (5 OF 8)
T-017 ..... STORM WATER NETWORK PROFILES (6 OF 8)
T-018 ..... STORM WATER NETWORK PROFILES (7 OF 8)
T-019 ..... STORM WATER NETWORK PROFILES (8 OF 8)
T-020 ..... STORM WATER NETWORK DETAILS (1 OF 3)
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ARCHITECTURAL

A-551.0 ..... ARCHITECTURAL DETAILS D01.0
A-552.0 ..... ARCHITECTURAL DETAILS D02.0
A-552.1 ..... ARCHITECTURAL DETAILS D02.1
A-553.0 ..... ARCHITECTURAL DETAILS D03.0
A-553.1 ..... ARCHITECTURAL DETAILS D03.1
A-553.2 ..... ARCHITECTURAL DETAILS D03.2
A-554.0 ..... ARCHITECTURAL DETAILS D04.0
A-554.0.1..... ARCHITECTURAL DETAILS D04.1
A-555.0 ..... ARCHITECTURAL DETAILS D05.0
A-556.0 ..... ARCHITECTURAL DETAILS D06.0
A-556.1 ..... ARCHITECTURAL DETAILS D06.1
A-556.2 ..... ARCHITECTURAL DETAILS D06.2
A-557.0 ..... ARCHITECTURAL DETAILS D07.0
A-558.0 ..... ARCHITECTURAL DETAILS D08.0
A-558.1 ..... ARCHITECTURAL DETAILS D08.1
A-558.2 ..... ARCHITECTURAL DETAILS D08.2
A-559.0 ..... ARCHITECTURAL DETAILS D09.0
A-560.0 ..... ARCHITECTURAL DETAILS D10.0
A-561.0 ..... ARCHITECTURAL DETAILS D11.0
A-562.0 ..... ARCHITECTURAL DETAILS D12.0
A-563.0 ..... ARCHITECTURAL DETAILS D13.0
A-564.0 ..... ARCHITECTURAL DETAILS D14.0
A-564.1 ..... ARCHITECTURAL DETAILS D14.1
A-565.0.0 ..... ARCHITECTURAL DETAILS D15.0
A-565.0.1 ..... ARCHITECTURAL DETAILS D15.0
A-565.0.2 ..... ARCHITECTURAL DETAILS D15.0
A-565.1.0 ..... ARCHITECTURAL DETAILS D15.1
A-565.1.1 ..... ARCHITECTURAL DETAILS D15.1
A-565.2.0 ..... ARCHITECTURAL DETAILS D15.2
A-565.2.1 ..... ARCHITECTURAL DETAILS D15.2
A-565.2.2 ..... ARCHITECTURAL DETAILS D15.2
A-566.0.0 ..... ARCHITECTURAL DETAILS D16.0
A-566.0.1 ..... ARCHITECTURAL DETAILS D16.0
A-566.0.2 ..... ARCHITECTURAL DETAILS D16.0
A-566.1.0 ..... ARCHITECTURAL DETAILS D16.1
A-566.1.1 ..... ARCHITECTURAL DETAILS D16.1
A-567.0 ..... ARCHITECTURAL DETAILS D17.0
A-567.1 ..... ARCHITECTURAL DETAILS D17.1

NOTES :

Rev.	Date	Description	Checked
1			

Client

Greater Amman Municipality

Project Name

BUS RAPID TRANSIT (BRT) SYSTEM
IN AMMAN - PACKAGE 10-B
NASER BIN JAMEEL STREET

Consultants

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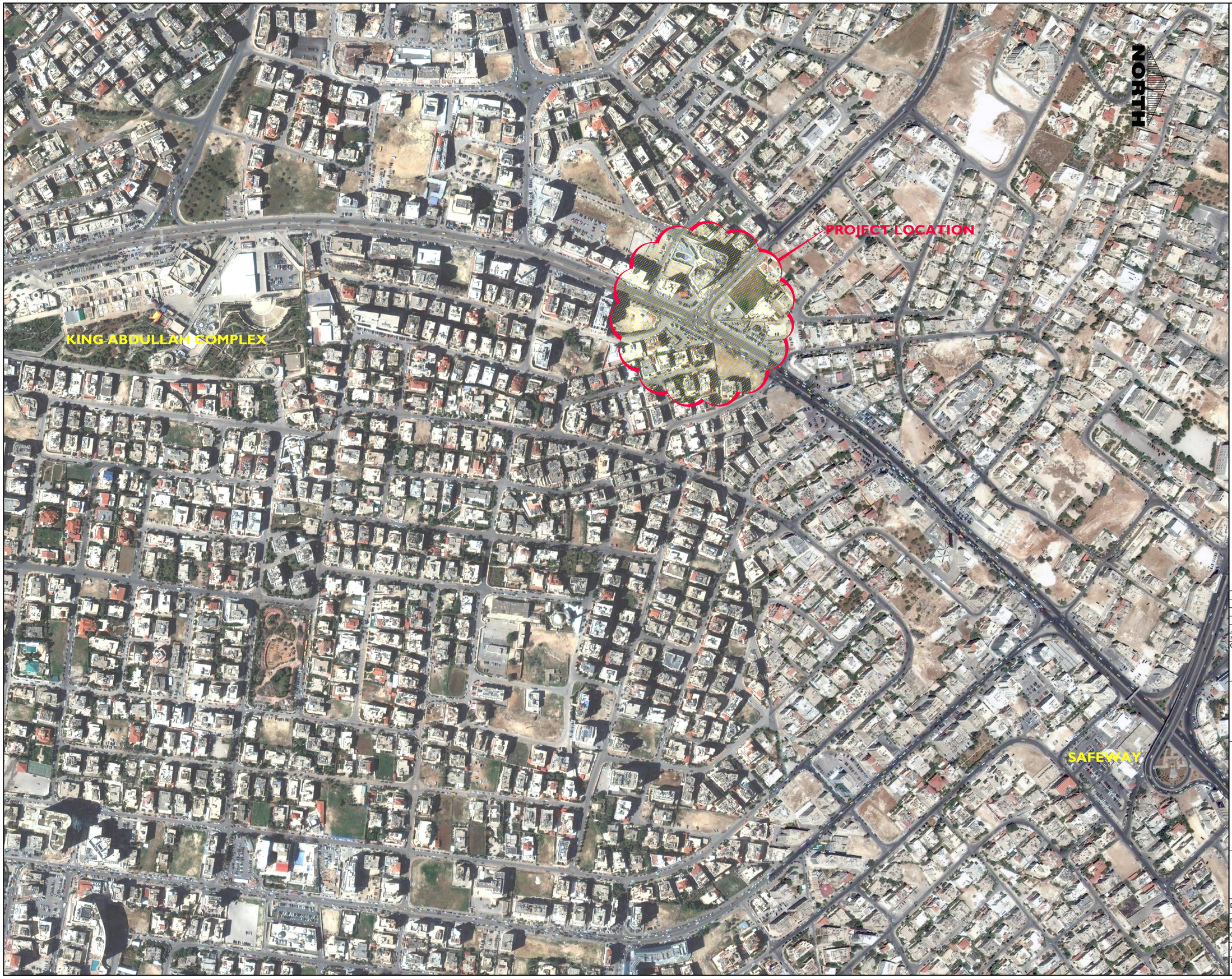
Drawing Title

LIST OF DRAWINGS

Designed By	R. Arnaout	Date	OCT.2018
Drawn By	A. Abu Hamdeh	Stage	IV
Checked By	H. Salhi	Sheet Size	A1
Approved By	H. Salhi	Scale	N.T.S
Drawing No. :	K-01	Rev.	0



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Drawing Title

PROJECT LOCATION

Designed By	R. Arnaout	Date	OCT.2018
Drawn By	A. Abu Hamdeh	Stage	IV
Checked By	H. Salhi	Sheet Size	A1
Approved By	H. Salhi	Scale	1:2500
Drawing No. :	K-02		Rev. 0

GENERAL NOTES :-

1- ALL STATIONS, DIMENSIONS & ELEVATIONS ARE IN METERS UNLESS OTHERWISE INDICATED.

2- CONTRACTOR ON AWARD OF CONTRACT MUST IMMEDIATELY:-

a- LOCATE ALL SURVEY REFERENCE POINTS, BENCH MARK, P.Is... ETC. AND SET OUT CENTERLINE AND STATIONS AS SHOWN ON DRAWINGS

b- TAKE LEVELS OF NATURAL GROUND (JOINTLY WITH THE EMPLOYER AND THE ENGINEER'S REPRESENTATIVE) AND SUBMIT TO THE ENGINEER BRINGING TO HIS ATTENTION ANY DISCREPANCY FROM THOSE SHOWN ON THE PROFILES.

c- CONCRETE ALL REFERENCE POINTS SHOWN ON DRAWINGS OR ANY NEW ONES NEEDED.

3- THE ENGINEER WILL STUDY THE LEVELS AND SITE CONDITIONS AND ADVISE THE CONTRACTOR OF ANY CHANGES IN THE HORIZONTAL ALIGNMENT AND/OR PROFILE DESIGN LINE IF ANY IS REQUIRED.

4- THE CONTRACTOR SHALL ALLOW FOR ALL THE ABOVE IN HIS RATES AND SHALL PLAN HIS WORKS ACCORDINGLY AND ALLOW SUFFICIENT TIME FOR THE ENGINEER TO STUDY AND INTRODUCE ANY CHANGES NEEDED TO MEET SITE CONDITIONS. NO EXTRA PAYMENT OR EXTENSION OF TIME WILL BE CONSIDERED TO DO ALL THE ABOVE.

5- THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS FOR ALL THE SITE BASED ON THE DESIGN DRAWINGS. THOSE DRAWINGS SHOULD SHOW ALL DETAILS INCLUDING LEVELS , FEATURES , DRAINAGE CHANNELS , INLETS , MANHOLES ... etc. THOSE DRAWINGS SHOULD BE COMPLETED AND APPROVED BY THE ENGINEER PRIOR TO STARTING ANY WORK.

6- THE DETERMINATION OF THE EXACT LOCATIONS, LENGTHS, KIND OF SLOPE PROTECTION AND SKEW ANGLES OF ALL CULVERTS, IS THE RESPONSIBILITY OF THE CONTRACTOR IN COORDINATION WITH THE ENGINEER.

7- QUANTITIES SHOWN IN THE B.O.Q. ARE APPROXIMATE, PAYMENT FOR COMPLETED AND ACCEPTED WORK SHALL BE BASED ON THE APPROVED FIELD MEASURED QUANTITIES AS STATED IN THE SPECIFICATIONS.

8- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS.

9- THE CONTRACTOR MUST SUBMIT WELL IN ADVANCE OF ANY WORK DETAILED PLANS SHOWING PROPOSED DETOURS AND DIVERSIONS. TRAFFIC IN BOTH DIRECTIONS MUST BE ALLOWED TO FLOW AT ALL TIMES. CONTRACTOR MUST OBTAIN ENGINEER'S AND POLICE PERMISSION PRIOR TO STARTING CONSTRUCTING ANY DIVERSION OR DETOUR.

10- THE ENGINEER HAS THE RIGHT TO CHANGE THE HORIZONTAL AND VERTICAL ALIGNMENT, UPON THE EMPLOYER'S REQUEST AND APPROVAL, CHANGE THE SECTION, ADD / CANCEL OR MODIFY ANY DRAINAGE STRUCTURE TO BEST SUIT SITE CONDITIONS UPON THE EMPLOYER'S REQUEST AND APPROVAL.

11- SIDE SLOPES BOTH IN CUT AND FILL SHOWN IN THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR TO THE APPROVAL OF THE ENGINEER. SLOPES SHALL BE PROPERLY COMPACTED. ANY EROSION SHALL BE REPAIRED TO THE APPROVAL OF THE ENGINEER PRIOR TO PLACING OF ANY ASPHALT LAYER.

12- BOX CULVERT DIMENSIONS SHOWN ON DRAWINGS ARE AS FOLLOWS : 4-(3.0 X 2.0)

NO. OF CELLS

SPAN OF EACH CELL

HEIGHT OF CULVERT

13- THE CONTRACTOR MUST, AND AT HIS OWN EXPENSE, PREPARE AS BUILT DRAWINGS AND SUBMIT TO THE ENGINEER. HE MUST POINT OUT ANY ALTERATIONS FOR CORRECTIONS REQUIRED IF SO INSTRUCTED. NO SEPARATE PAYMENT WILL BE MADE. COST DEEMED TO BE INCLUDED IN HIS UNIT BID PRICES.

14- CONTRACTOR MUST IMMEDIATELY CONTACT ALL AUTHORITIES CONCERNED - THE ELECTRICITY AUTHORITIES, THE TELEPHONE AUTHORITIES, THE WATER AUTHORITIES. AND MAKE SURE OF THE LOCATION AND DEPTH OF ALL UTILITY DUCTS, CABLES, PIPES...etc. CONTRACTOR SHALL EITHER RELOCATE ANY THAT WOULD INTERFERE WITH HIS WORK, ESPECIALLY THE RELOCATION OF THE OVERHEAD AND UNDERGROUND ELECTRIC CABLES AND POSTS OR ARRANGE FOR RELOCATION TO BE DONE BY THE RESPECTIVE AUTHORITIES, ALL TO THE APPROVAL OF THE ENGINEER AND THE AUTHORITIES CONCERNED.

15- THE CONTRACTOR MUST CARRY OUT DETAILED GEOTECHNICAL INVESTIGATION COVERING ALL THE ALIGNMENT TO VERIFY CAPACITY AND CBR VALUES FOR THE ROAD INCLUDING THE LOCATIONS OF RETAINING WALLS AND ALL OTHER STRUCTURES. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE REQUIRED STABLE CUT & FILL SLOPES. THIS ALL HAS TO BE CARRIED OUT TO THE APPROVAL OF THE ENGINEER .

ARCHEOLOGICAL SITES

- THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER AND CONTACT THE DEPARTMENT OF ANTIQUITIES IF ANY ARCHEOLOGICAL LOCATION WAS DISCOVERED DURING EXCAVATION AND CONSTRUCTION OF THE ROAD.

ABBREVIATIONS

ALTERNATE	ALT.	MAXIMUM	MAX.
AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	AASHTO	MEDIAN	MED.
		METER	m.
AMERICAN SOCIETY FOR TESTING OF MATERIALS	ASTM	MILLIMETER	mm.
ASPHALT BINDER COURSE	ASPHALT B.C	MINIMUM	Min.
ASPHALT WEARING COURSE	ASPHALT W.C	NATURAL GROUND LEVEL	N.G.L.
AT	@	NORMAL CROWN	N.C.
BENCH MARK	B.M.	NORTHING	N
BOX CULVERT	B.C.	NOT TO SCALE	N.T.S.
CALIFORNIA BEARING RATIO	CBR	NOT IN CONTRACT	N.I.C.
CARRIAGEWAY	C/W	NUMBER	No.,#
CENTER LINE	℄	PERCENTAGE	%
CENTER POINT OF CIRCULAR CURVE	C.P.	PIPE CULVERT	P.C.
CENTIMETER	CMS.	POINT OF HORIZONTAL INTERSECTION	P.I.
CONCRETE	CONC.	POINT OF VERTICAL INTERSECTION	P.V.I.
CUBIC METER	CU.M	PROPOSED DESIGN LEVEL	P.D.L.
CONSTRUCTION JOINT	C.JT.	RADIUS	R
DIAMETER	DIA.,Ø	RAILROAD	R.R.
DRAWING	DWG.	REINFORCED CONCRETE	R.C.
DROP INLET	D.I.	RETAINING WALL	R.W.
EASTING	E	REINFORCEMENT	REINF.
EMBANKMENT	Emb	RIGHT	RT.
ELECTRICITY POLE	E.P.	RIGHT HAND SIDE	R.H.S.
ELEVATION	ELEV.	RIGHT-OF-WAY	R.O.W
EXCAVATION	EXC.	ROUNDING	RND.
EXPANSION JOINT	EXP.JT.	SETTLEMENT BASIN	S.B.
GRADIENT	g	SHOULDER	SHL'D
GUARDRAIL	G.R	SIDE WALK	S.W.
HIGH TENSION ELECTRICITY LINE	H.T.	SPACING	SP.
HIGHWAY	HWY.	SPILLWAY	S.
HORIZONTAL	HOR.	SQUARE METER	Sq.m.
INSPECTION MANHOLE	I.M	STATION	STA.
INVERT	INV.	STRAIGHT	STR.
INVERT ELEVATION	I.E.	SYMMETRICAL	SYM.
KILOMETER	Km.	TYPICAL	TYP.
LEFT	LT.	VERTICAL	VER.
LEFT HAND SIDE	L.H.S.	WIDTH	W.
LENGTH	L.	WINGWALL	W.W.
LINEAR METER	L.m.	MORTARED RIPRAP = GROUTED STONE RIPRAP	

LEGEND

PLAN	
BENCH MARK	
CENTER LINE	
ELECTRIC HIGH TENSION TOWER	
EXISTING CONSTRUCTION	
EXISTING FENCE	
HEADWALL	
POINT OF INTERSECTION	
RIGHT -OF- WAY LINE	
R.C. BOX CULVERT	
R.C. PIPE CULVERT	
R.C. RETAINING WALL	
TRAFFIC SIGN	
CULVERT WINGWALL	
GUARD RAIL	
PROFILE	
BVCS & EVCS	
BOX CULVERT	
PIPE CULVERT	
N.G.L	
P.V.I	

HORIZONTAL CURVE DATA

DEFLECTION ANGLE OF CIRCULAR CURVE	△
LENGTH OF HORIZONTAL CIRCULAR CURVE	L,Lc
POINT OF CURVATURE	P.C.
POINT OF CIRCULAR CURVE TO SPIRAL CURVE	C.S.
POINT OF TANGENCY	P.T.
POINT OF REVERSE CURVE	P.R.C.
RADIUS	R.
SUPERELEVATION RATE	S.E.,e
TANGENT	T,Tc.

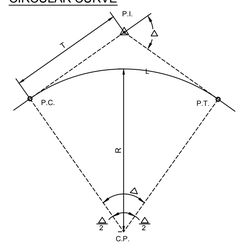
VERTICAL CURVE DATA

ARITHMETIC DIFFERENCE IN GRADES	A.D.
BEGINNING OF VERTICAL CURVE ELEVATION	BVCE
BEGINNING OF VERTICAL CURVE STATION	BVCS
END OF VERTICAL CURVE ELEVATION	EVCE
END OF VERTICAL CURVE STATION	EVCS
POINT OF VERTICAL INTERSECTION	P.V.I
LENGTH OF VERTICAL CURVE	L

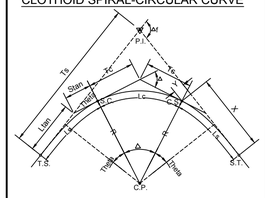
NOTES :

1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE INDICATED.

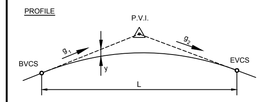
CIRCULAR CURVE



CLOTHOID SPIRAL-CIRCULAR CURVE



PROFILE



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Drawing Title

GENERAL NOTES, ABBREVIATIONS & LEGEND

Designed By	R. Arnaout	Date	OCT.2018
Drawn By	A. Abu Hamdeh	Stage	IV
Checked By	H. Salhi	Sheet Size	A1
Approved By	H. Salhi	Scale	N.T.S
Drawing No. :	K-03		Rev. 0