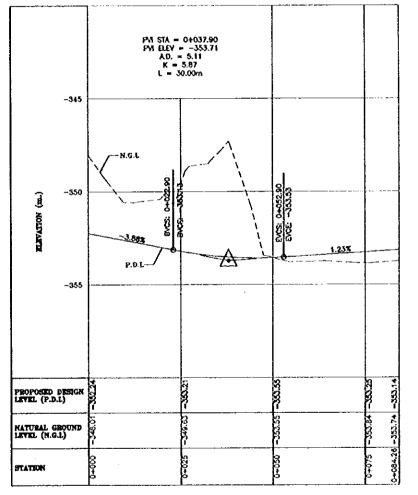


PROFILE FOR RAMP-1



PROFILE FOR RAMP-2

NOTE\_:-1) ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

Executing Agency: The Winistry of Tourism and Antiquities The Ministry of Planning

SUB-PROJECT:

Dead Sea Parkway

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Designed by:

Japan International Cooperation Agency (JICA)

JICA Study Team:

Joint Venture of Pacific Consultants International and Yamasita Sekkel Inc.

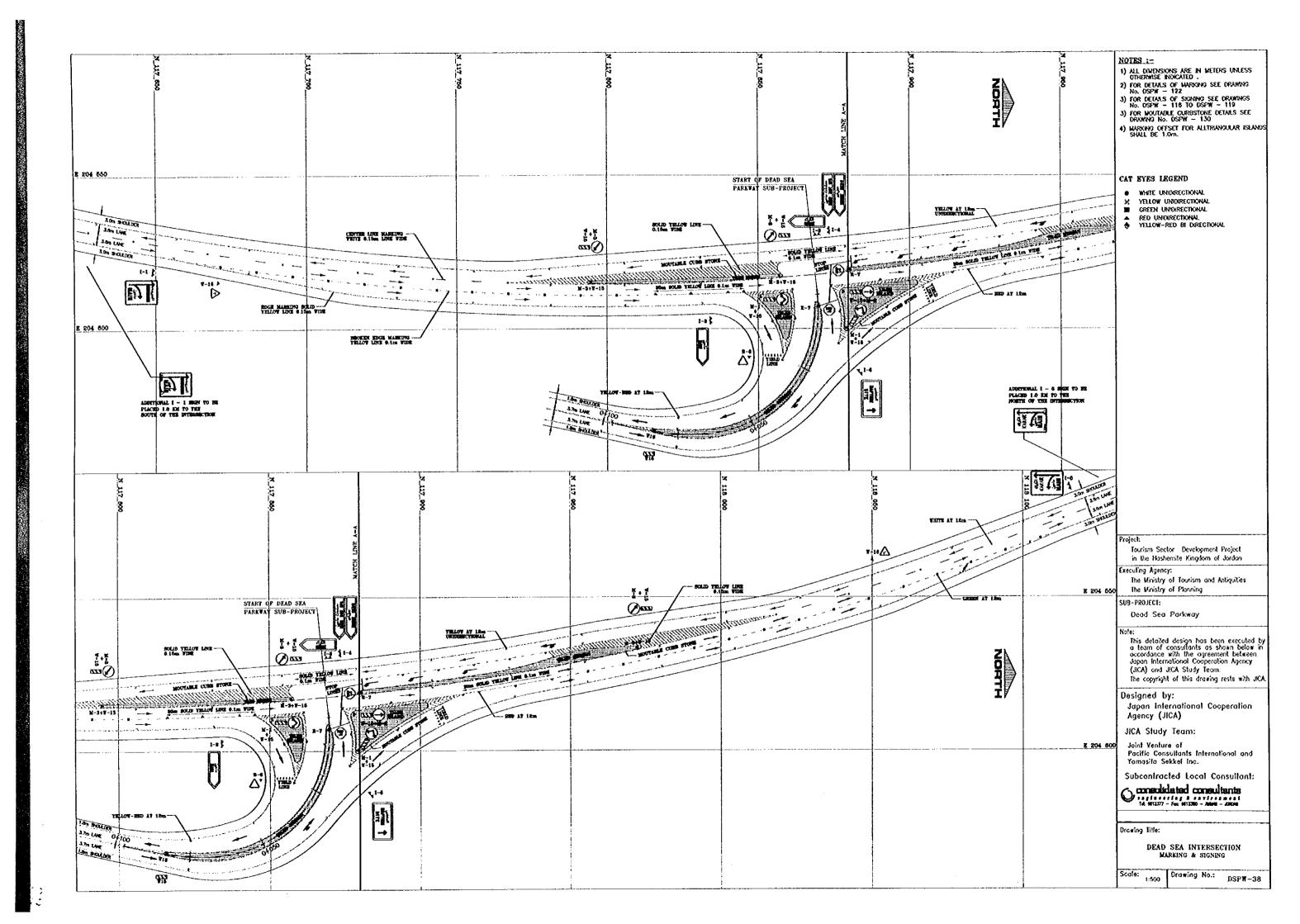
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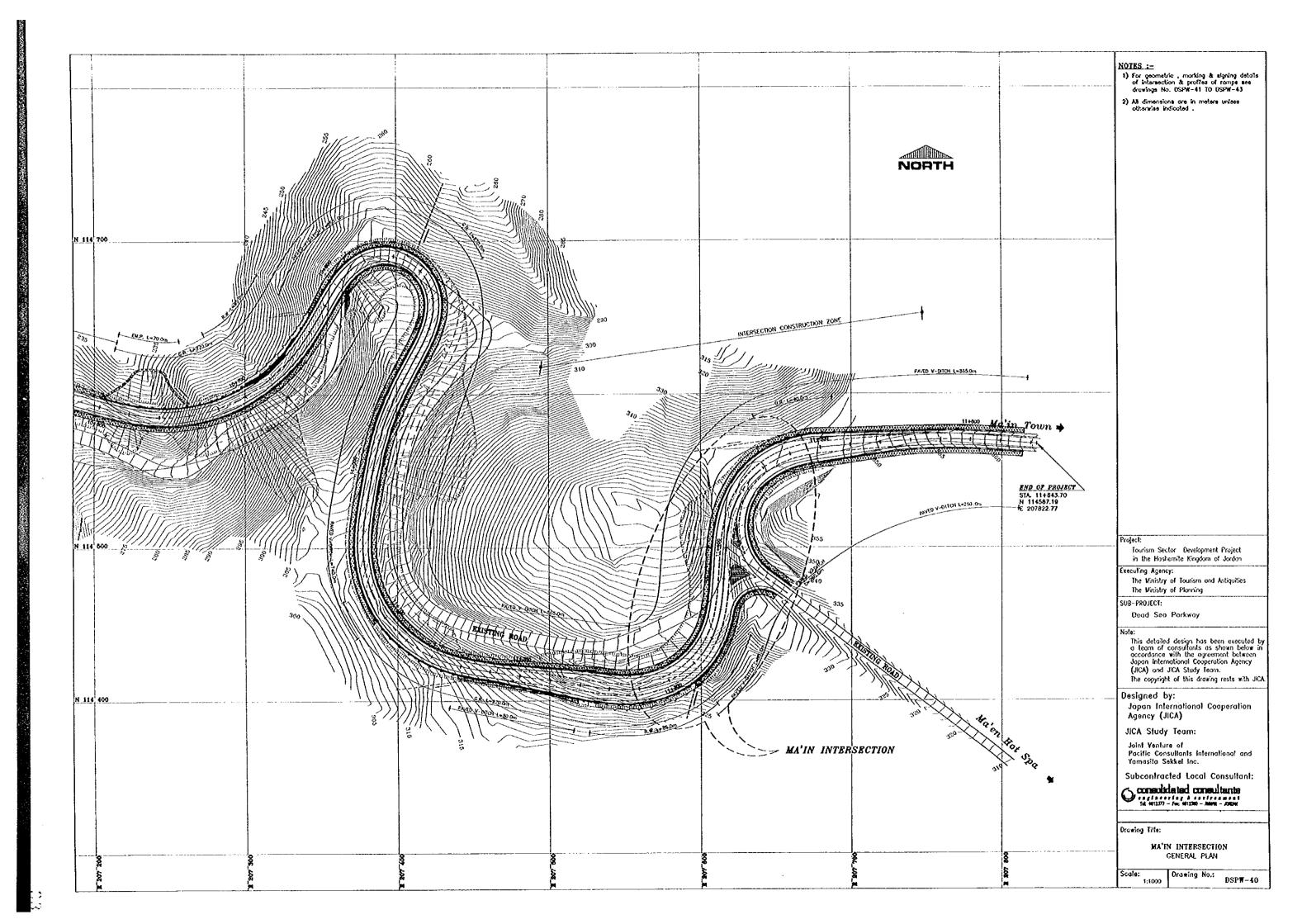
Consultdated consultants

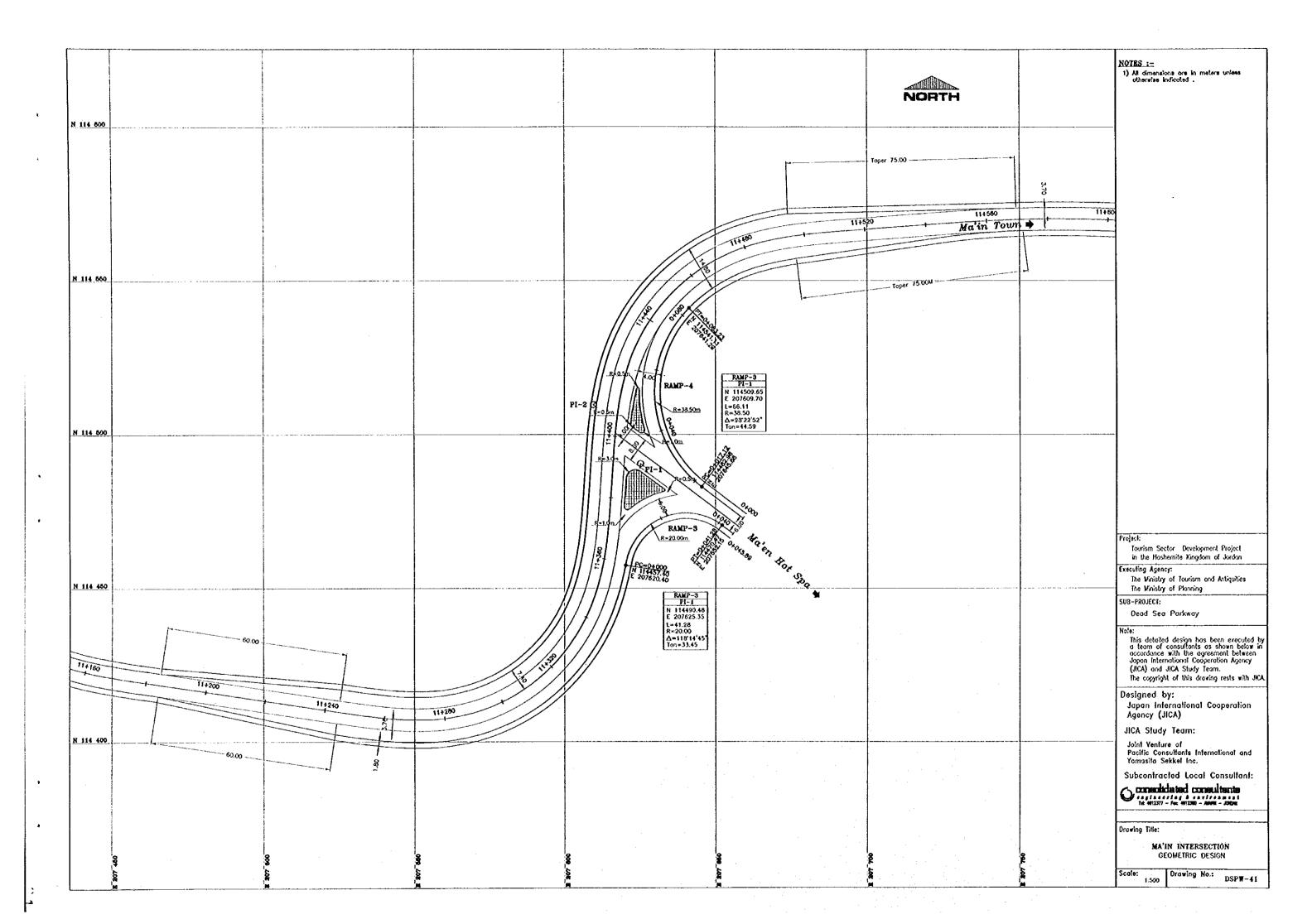
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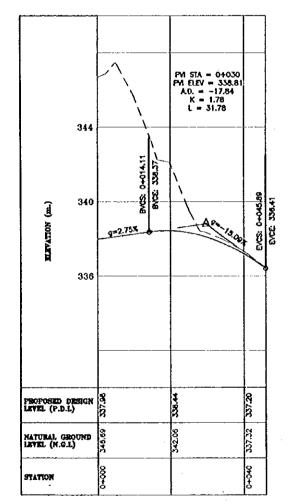
DEAD SEA INTERSECTION (PROFILES FOR RAMP-1 & RAMP-2)

Scale: H 1:500 Drawing No.: DSPW-37

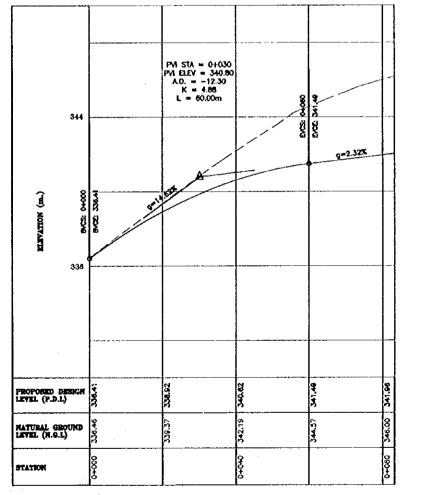








PROFILE FOR RAMP-3



PROFILE FOR RAMP-4

NOTE :-1) ALL DIWENSKINS ARE IN METERS UNLESS OTHERWISE INDICATED .

Project:

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

Executing Agency: The Ministry of Yourism and Antiquities The Ministry of Planning

SUB-PROJECT:

Dead Sea Parkway

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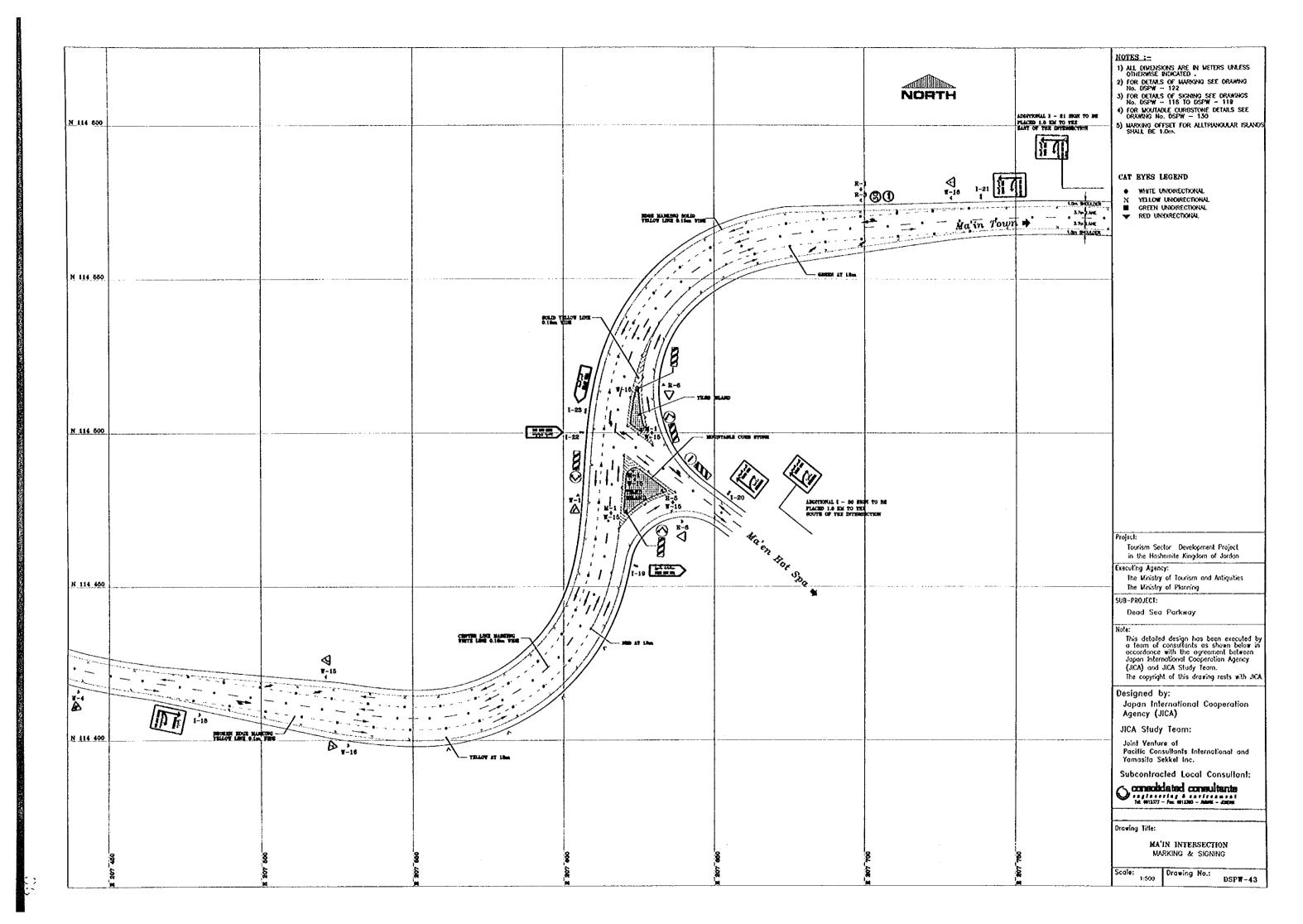
Subcontracted Local Consultant:

Consultanted consultante

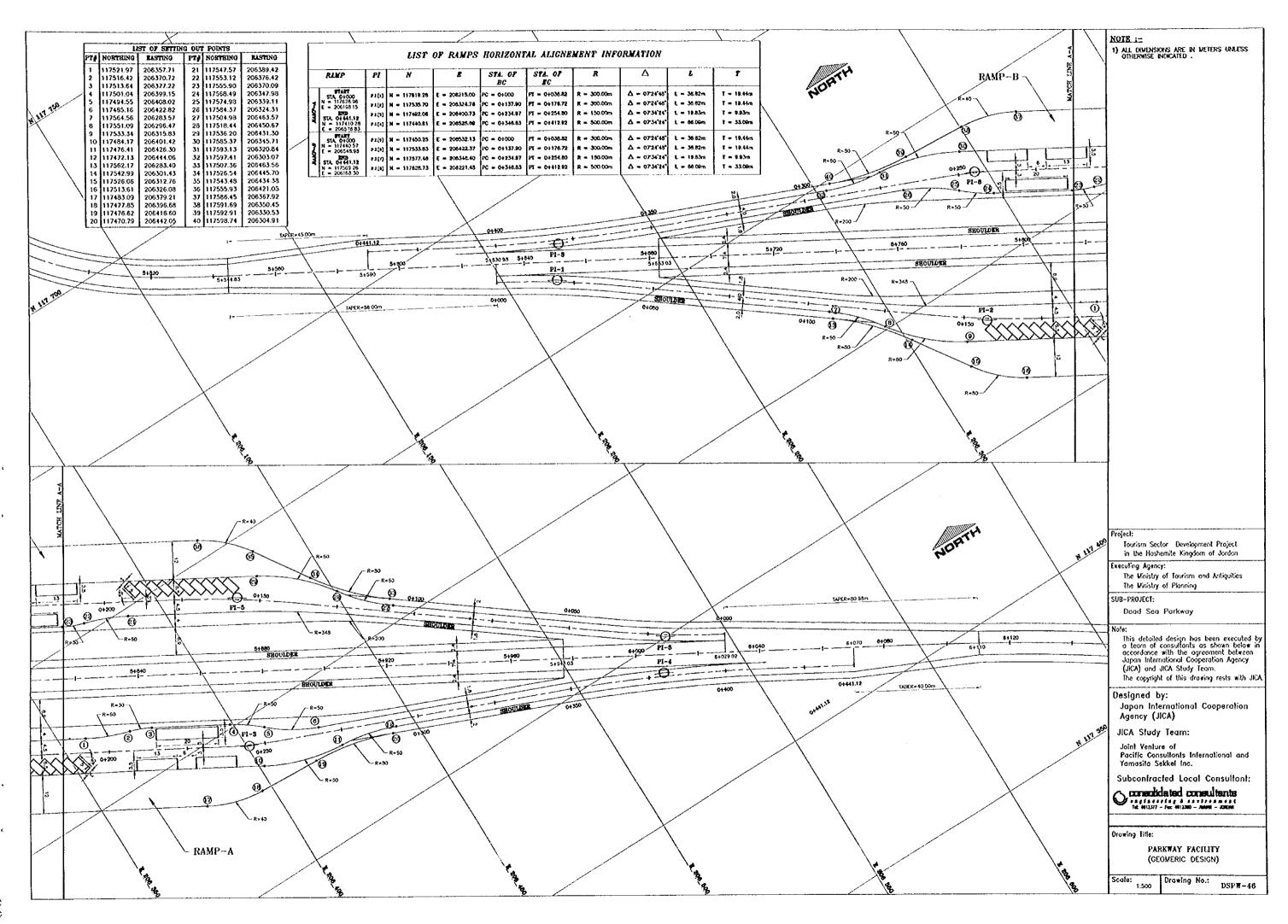
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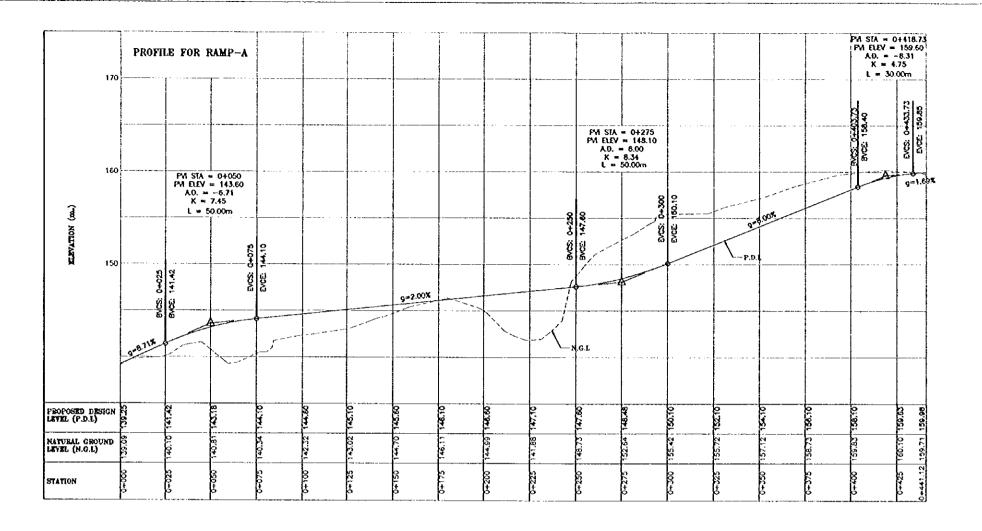
MA'IN INTERSECTION (PROFILES FOR RAMP-3 & RAMP-4)

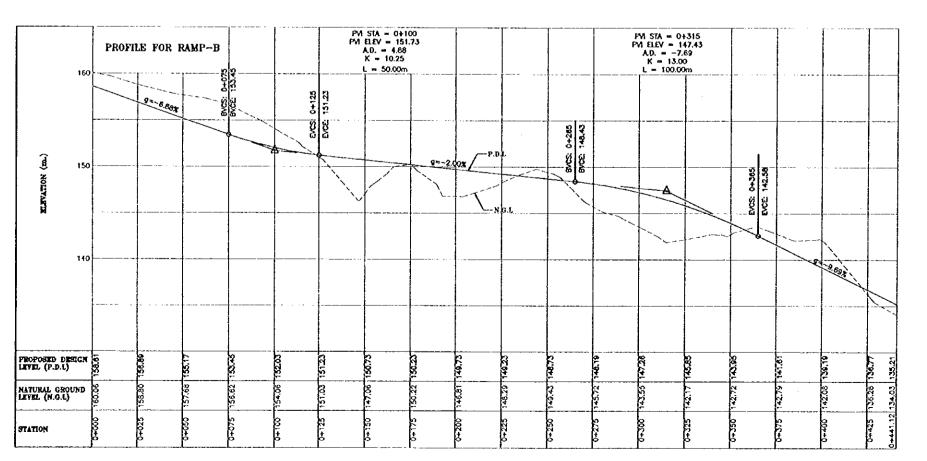
Scale: H 1:500 Drawing No.: DSPW-42











NOTE :-

1) ALL DIVENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED .

Project:

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

xecuting Agency:

The Ministry of Tourism and Antiquities The Ministry of Planning

SUB-PROJECT:

Dead Sea Parkway

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Designed by:

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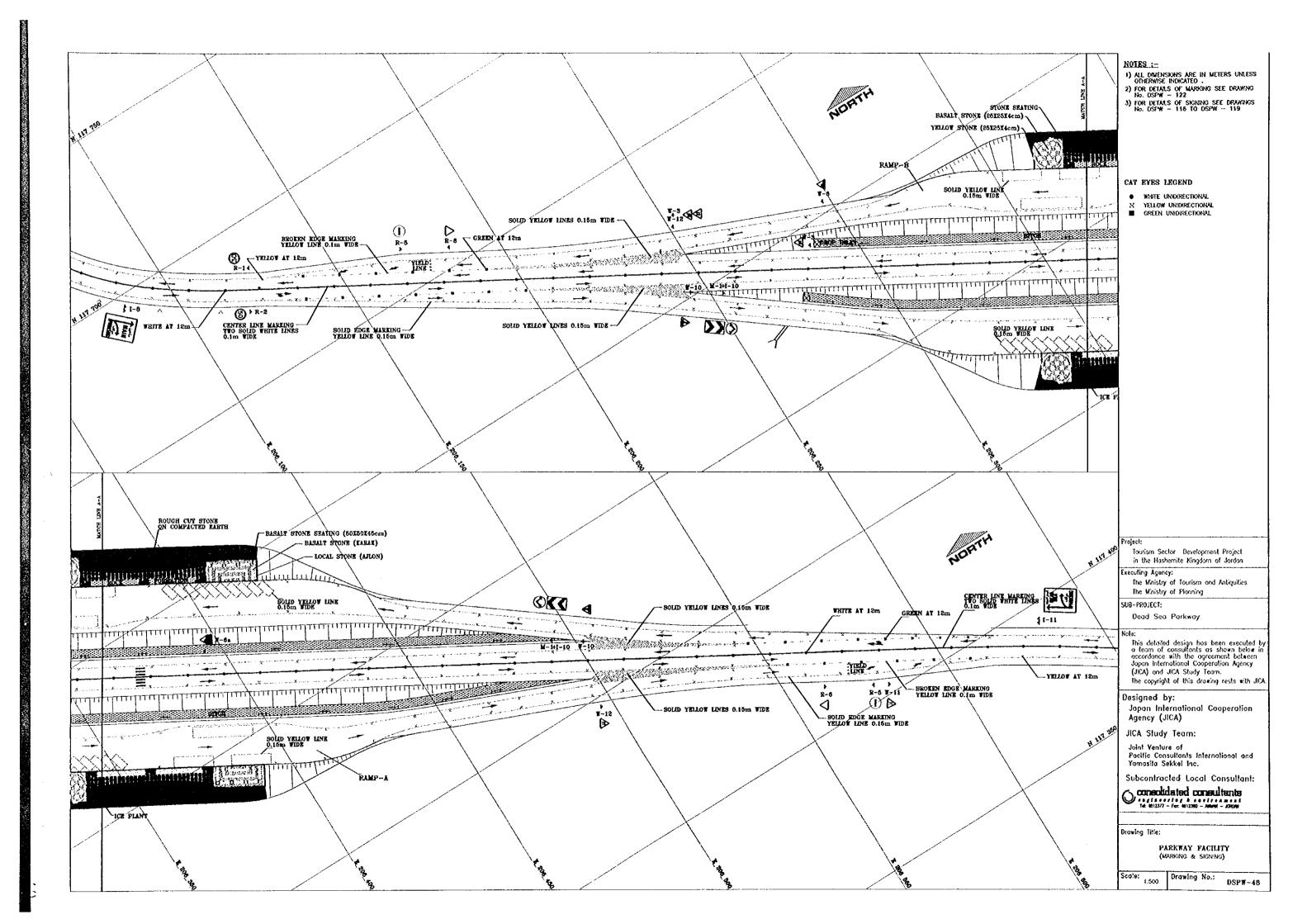
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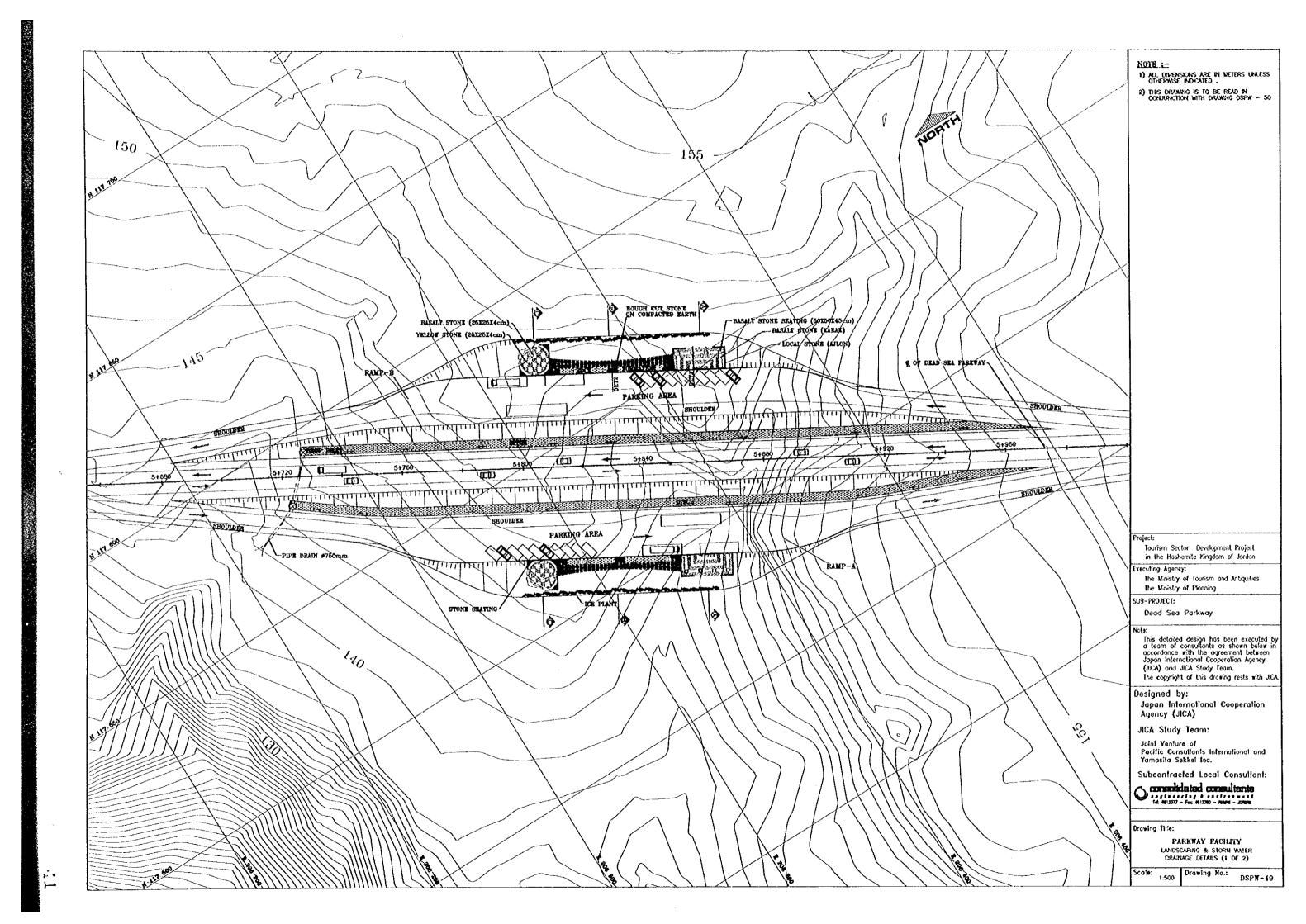
Consolidated consultants

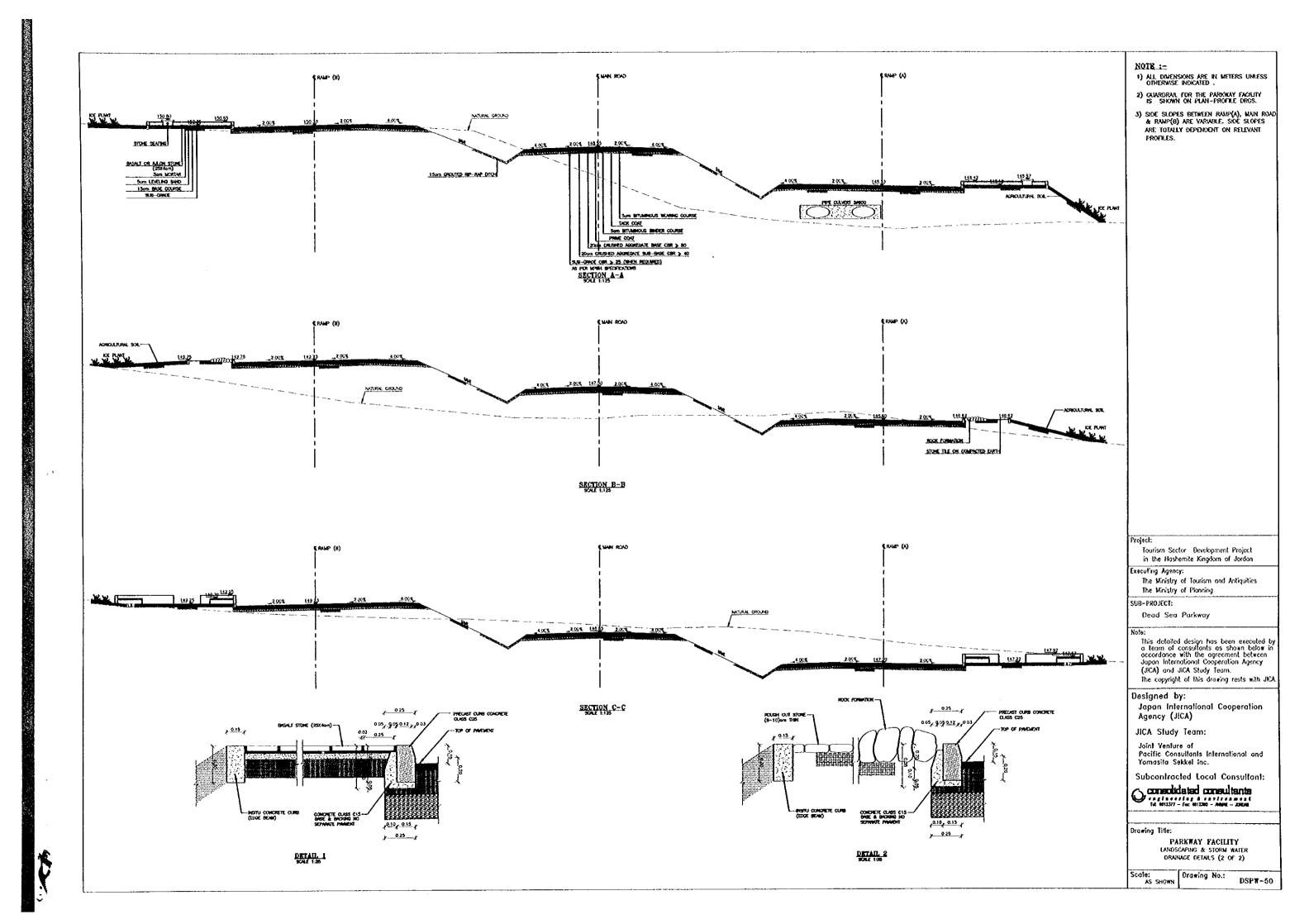
Orawing Title:

PARKWAY FACILITY (PROPLES FOR RAWP-A & RAMP-B)

Scole: H 1:1000 Orawing No.: DSP#-47







# GENERAL NOTES:

- 1) DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, LATEST EDITION , TOGETHER WITH ANY TENTATIVE OR SUPPLEMENTAL SPECIFICATIONS APPROVED BY THE AASHTO COMMITTEE ON BRIDGES AND STRUCTURES.
- 2) LOADING:-

-DEAD LOAD INCLUDES 5.0cm OF FUTURE WEARING SURFACE. -LIVE LOAD HS 20-44 (WITH 50% INCREASE IN WHEEL LOADIND TO ENCOUTER THE UNEXPECTED TRUCK LOADINGS) AS PER MPWH RECOMENDATIONS

3) CONCRETE:-

-PLAIN & BLINDING CONCRETE TO BE CLASS C15-CHARACTERISTIC COMPRESSIVE CYLINDER STRENGTH OF 11.55 MPa AT 28 DAYS. -REINFORCED CONCRETE TO BE CLASS C25 & C30 AS SPECIFIED ON THE DRAWINGS FOR THE RELEVANT REINFORCED STRUCTURES - CHARACTERISTIC COMPRESSIVE CYLINDER STRENGTH OF 21.75 MPa & 26.1 MPa RESPECTIVELY AT 28 DAYS

-PRESTRESSED CONCRETE TO BE CLASS C40 - CHARACTERISTIC COMPRESSIVE CYLINDER STRENGTH OF 34.8 MPa AT 28 DAYS.

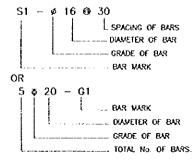
-REINFORCING STEEL BARS SHALL BE DEFORMED BARS OF HIGH TENSILE STRENGTH, GRADE 60, CONFORMING TO JSS/441/1986 OR AASHTO M31M(ASTM , A615M) , AND DESIGNATED AS o. -PLAIN MILD STEEL BARS SHALL BE USED AS SHOWN ON DWGS. AND AS DIRECTED BY THE ENGINEER.IT SHALL CONFORM TO JSS/442/1986 AND DESIGNATED AS Ø.

-PRESTRESSING STEEL FOR PRECAST CONCRETE GIRDERS SHALL BE AS DEFINED ON THE SPECIFICATIONS & THE RELEVANT DRAWINGS.

- 5) NO BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE FIELD BENT EXCEPT AS SHOWN ON THE DRAWINGS OR PERMITTED BY THE ENGINEER ...
- 6) MINIMUM CLEAR COVER TO REINFORCEMENT, UNLESS OTHERWISE SHALL RE AS FOLLOWS

ECHIED , STALL DE AS FOLLOIRS	
- DECK SLAB	50mm
<ul> <li>GIRDER DIAPHRAGM</li> </ul>	50mm
- PARAPET	50mm
- ABUTMENT WALLS, WINGWALLS AND PIER	S 70mm
- ABUTMENT, WINGWALL AND PIER BASES	75mm

- 7) ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 2cm UNLESS OTHERWISE NOTED
- 8) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN ON DRAWINGS AND SHALL NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORK. THE FAILURE OF THE CONTRACTOR TO REPORT ANY DISCREPANCY WILL BE TAKEN TO IMPLY HIS ACCEPTANCE TO TAKE FULL AND TOTAL RESPONSIBILITY FOR THE CORRECTNESS OF THE DESIGN AND ITS EXECUTION AS SHOWN ON THE DRAWINGS TO THE SATISFACTION OF THE ENGINEER .
- 9) ALL EXPOSED CONCRETE SURFACES ABOVE GROUND LEVEL TO BE SMOOTH AND FAIR FACED TO THE SATISFACTION OF THE ENGINEER AND CONFORM WITH CLASS (F1) FINISH - AND BURIED SURFACES SHALL BE COATED WITH BITUMINOUS DAMP PROOFING AS DEFINED BY THE SPECIFICATIONS.
- 10) IN THE EVENT THAT THE SOIL ALLOWABLE BEARING CAPACITY FOR FOOTINGS AND BASES BE FOUND TO BE LESS THAN THE DESIGN FOUNDATION PRESSURE SPECIFIED IN THE DESIGN DRAWINGS, THE DEPTH OR DIMENSIONS OF FOOTING OR BASE SHALL BE CHANGED BY THE ENGINEER
- 11) REINFORCEMENT ARE PRESENTED AS SHOWN BELOW:-



12) LOCATION OF REINFORCEMENT LAP SPLICES & CONSTRUCTION JOINTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

010	DEVELOP	MENT L	ENGTH	LAP SPLICE LENGTH			
BAR	COMP.	TENSION	BARS	COMP. TENSION BARS			
mm	NOT ENCLOSED	TOP BARS	OTHER BARS	NOT ENCLOSED	TOP BARS	OTHER BARS	
12	270	340	300	360	440	390	
16	360	460	330	480	600	430	
20	460	660	470	600	860	610	
25	570	1030	740	740	1340	960	
32	730	1690	1210	950	2200	1570	
36	820	2140	1530	1070	2780	1990	
40	910	2420	1730	1190	3150	2250	

# REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS

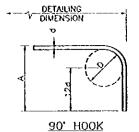
## NOTES FOR TABLE:-

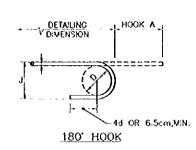
- I) LENGTHS IN TABLE ARE BASED ON A CONCRETE COMPRESSIVE CYLIDER STRENGTH OF 210 Kg/cm AND DEFORMED REINFORCING STEEL COMFORMING TO THE STRENGTH REQUIREMENTS OF ASTM-A615 GRADE 60. (FY = 410 MPo)
- II) ALL TABLE VALUES ARE IN MILLIMETERS.
- III) VALUES GIVEN IN TABLE ARE FOR BARS SPACED AT LEAST 15 cm
- IV) FOR OTHER CONDITIONS THE FOLLOWING MULTIPLIES SHALL BE USED:
  - A. TENSION BARS SPACED LESS THAN 15cm CENTERS
    - = 1.25 x TABLE VALUE
  - B. 3-BAR BUNDLES IN TENSION OR COMPRESSION
  - = 1.20 x TABLE VALUE
  - C. 4-BAR BUNDLES IN TENSION OR COMPRESSION = 1.33 x TABLE VALUE

  - D. LAPS FOR EACH BAR IN A BUNDLE SHALL BE STAGGERED.
  - E. IF Fy IS LESS THAN 410 MPg MULTIPLY TABLE VALUES BY Fy / 410.
  - F. IF Fc' IS GREATAR THAN 210 Kg/cm2 MULTIPLY TABLE VALUES BY √210 /√Fc', EXCEPT MINIMUM LENGTH SHALL BE 30cm
- V) TOP BARS ARE HORIZONTAL BARS, SUCH AS IN WALLS, BEAMS AND SLABS, SO PLACED THAT MORE THAN 30 cm OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
- VI) NO SPLICING OF STEEL BARS IS PERMITTED UNLESS OFHERWISE SHOWN ON THE DRAWINGS.
- VII) LAP SPLICES SHALL NOT BE USED IN LOCATIONS OF MAXIMUM MOMENTS.
- VIII) THE VALUES OF TENSION LAP SPLICES SHOWN IN TABLE ARE FOR CLASS "B" SPLICES. FOR OTHER SPLICE CONDITIONS THE FOLLOWING MULTIPLIERS SHALL BE USED:
  - A. CLASS "A" SPLICE =  $0.77 \times TABL VALUE$ .
  - B. CLASS "C" SPLICE = 1.31 x TABLE VALUE.
  - C. CLASS "D" SPLICE = 1.54 x TABLE VALUE.
- AND FOR SPLICE CLASS DESCRIPTION SEE AASHTO.

# **LEGEND**

- B: BOTTOM
- T: TOP
- EF: EACH FACE
- OF: OUTSIDE FACE
- IF: INSIDE FACE





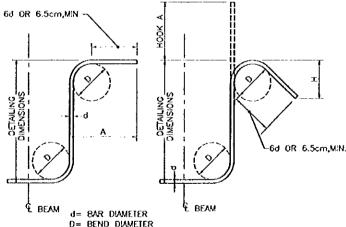
BAR SIZE	0=8d F	FOR 8 TO FOR 30 T RD 180°	0 32	D=6d FOR 8 TO 25 D=8d FOR 30 TO 32 STANDARD 90 HOOK		
mm	HOOK A	J	D	٨	D	
8	130	130 64		128	48	
10	140 80		60	160	60	
12	150	96	72	192	74	
14	165	112	84	224	84	
16	180	128	96	256	96	
20	230	160	120	320	120	
25	280	250	150	400	150	
30	410	300	240	510	240	
32	440	320	256	544	256	

fy= 410 MPo

d= BAR DIAMETER

D= BEND DIAMETER

# REINFORCEMENT STANDARD HOOK DETAILS



NOTE: TIE BENDS ARE SIMILAR TO STIRRUP HOOK SHOWN 90' HOOK 135' HOOK

,	90°.	135	юск
ט	A	HOOK A	H
40	100	110	70
50	110	120	75
60	120	130	80
65	135	145	90
70	150	160	100
80	180	210	130
	50 60 65 70	HOOK A 40 100 50 110 60 120 65 135 70 150	HOOK 1.35 F A HOOK A 40 100 110 50 110 120 60 120 130 65 135 145 70 150 160

REINFORCEMENT STIRRUP AND TIE HOOK DIMENSIONS

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

resuling Agency: The Ministry of Tourism and Antiquities The Vinistry of Planning

SUB-PROJECT:

Dead Sea Parkway

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JICA Study Team: Joint Venture of

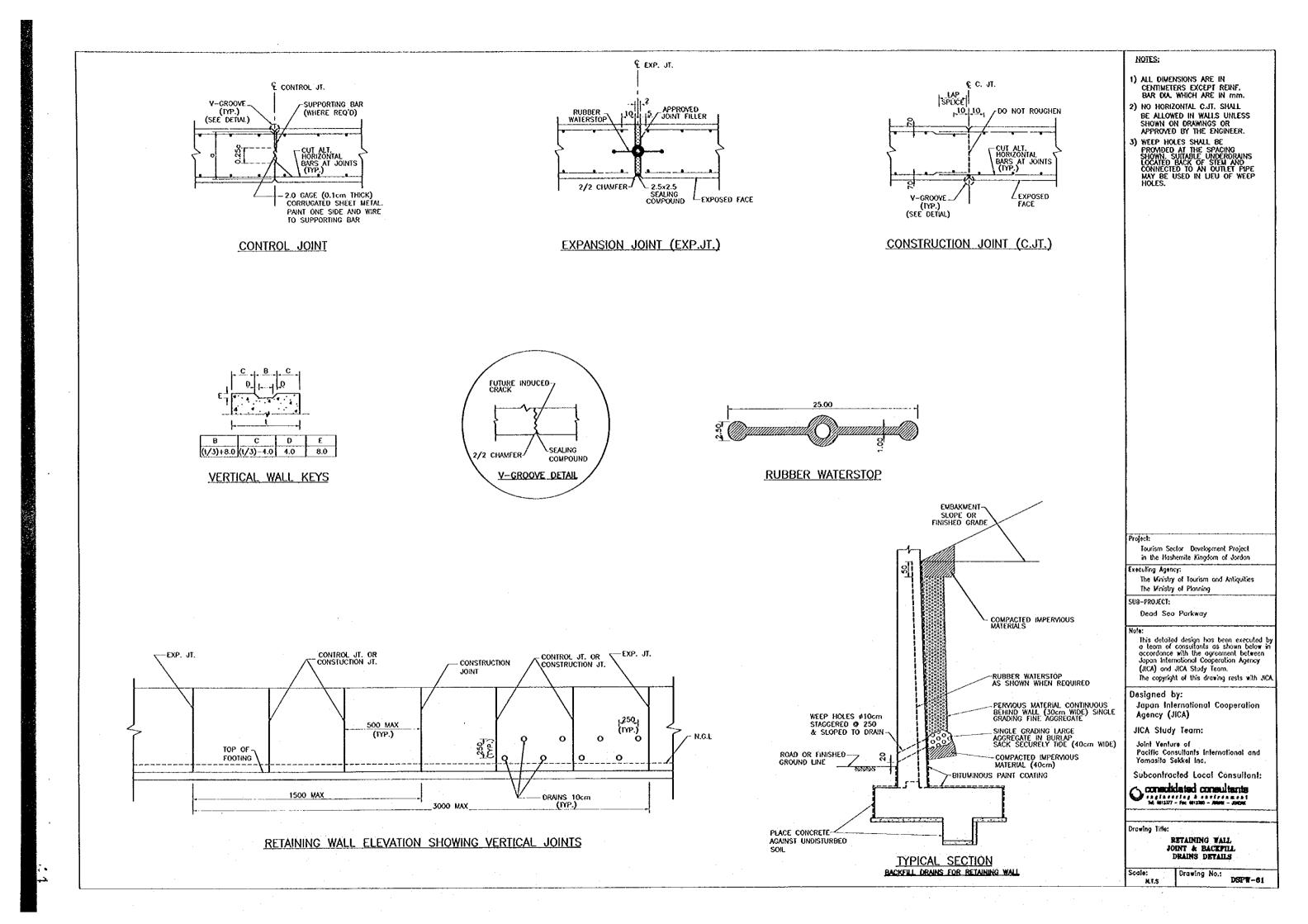
Pacific Consultants International and Yamasita Sekkel Inc. Subcontracted Local Consultant:

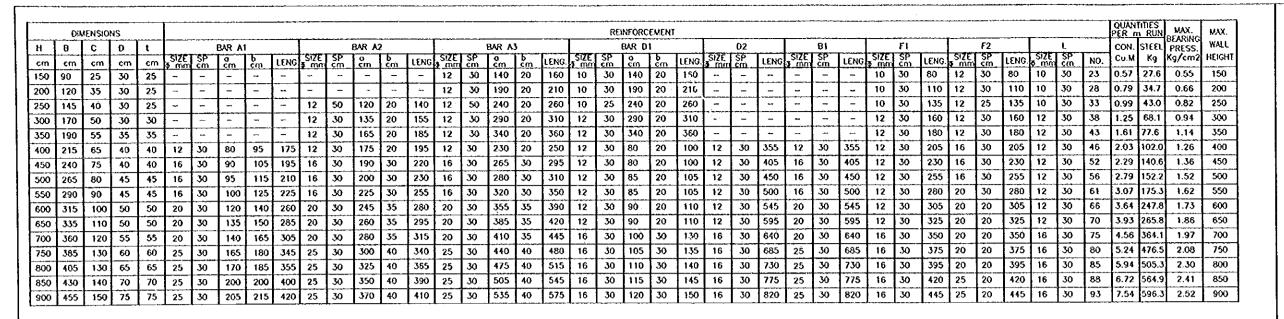
Commodidated commutants

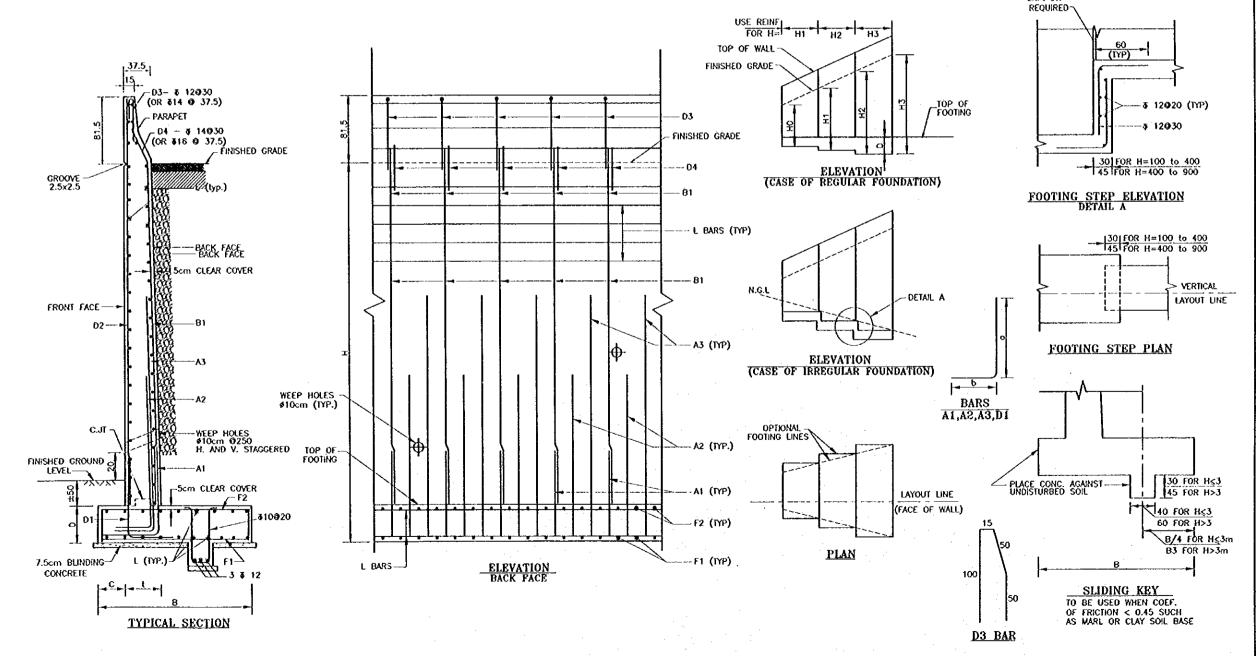
Crawing litte:

GENERAL STRUCTURAL NOTES AND DETAILS

Drawing No.: DSPW-60







#### NOTES:

- 1) ALL DIVENSIONS ARE IN CENTENETERS EXCEPT REINF. DIA. WHICH ARE IN min
- 2) DESIGN DATA:
- a- ANGLE OF INTERNAL FRICTION (\*)=33'41'
- 6- WEGHT OF SOIL = 2.0 1/m c- LNE LOAD (HS.20-44)+50%
- 3) FOR JOINTS DETAILS, SPACINGS, & BACKFILL DRAINS SEE DRG. No. (DSPW - 61)
- 4) EXPOSED SURFACES SHALL BE FAIR FACED AND BURIED SURFACES SHALL BE COATED WITH BITUININOUS DAMP PROOFING.
- 5) READ NOTES ON DRAWING No. (DSPW - 60)
- 6) FOOTING DIMENSIONS ARE VARIED TO OBTAIN A WORE DESIRABLE SOIL PRESSURE, IF REQUIRED AS DIRECTED BY THE ENGINEER. ACORRESPONDING CHANGE MUST BE MADE IN THE FOOTING DESIGN TO ADJUST REINFORCING.
- 7) THE REINFORCING SCHEDULES SHOWN ARE ONLY FOR THE CORRESPONDING WALL DIMENSIONS LISTED, LENGTH OF REINFORCING BARS SHOULD BE ADJUSTED TO MATCH THE RETAINING WALL HEIGHT.
- 8) FOR REINFORCEWENT HOOK DETAILS SEE ORG. NO. 700
- 9) QUANTITIES SHOWN IN THE TAPLE INCLUDE THE SHOING KEYAND ARE USED ONLY FOR ESTIMATION PURPOSES.
- 10) COMBINATION PARAPET COULD BE USED INSTEAD OF CONCRETE PARAPET AT TOP OF RETAINING WALL
- 11) REINFORCED CONCRETE SHALL BE CLASS C30.
- 12) BLINDING CONCRETE SHALL BE CLASS C15.
- 13) STEEL REINFORCEMENT SHALL CONFORM TO THE REQUIR. OF ASTM AS15 GRADE 60.

EXP. JT.

Tourism Sector Development Project in the Hushemite Kingdom of Jordon

# Executing Agency:

The Ministry of Tourism and Antiquities The Ministry of Planning

#### SUB-PROJECT:

Dead Sea Parkway

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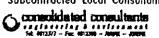
### Designed by:

Japan International Cooperation Agency (JICA)

## JICA Study Team:

Joint Yenlure of Pacific Consultants International and Yamasita Sekkel Inc.

Subcontracted Local Consultant:

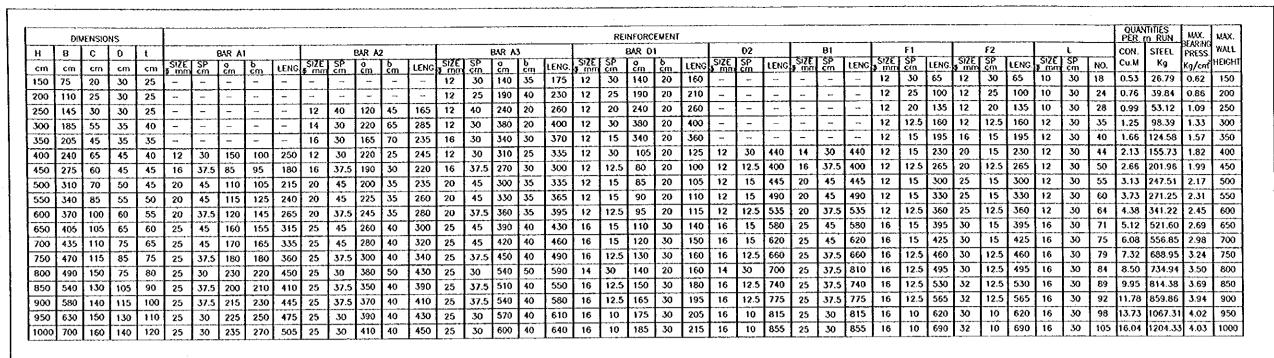


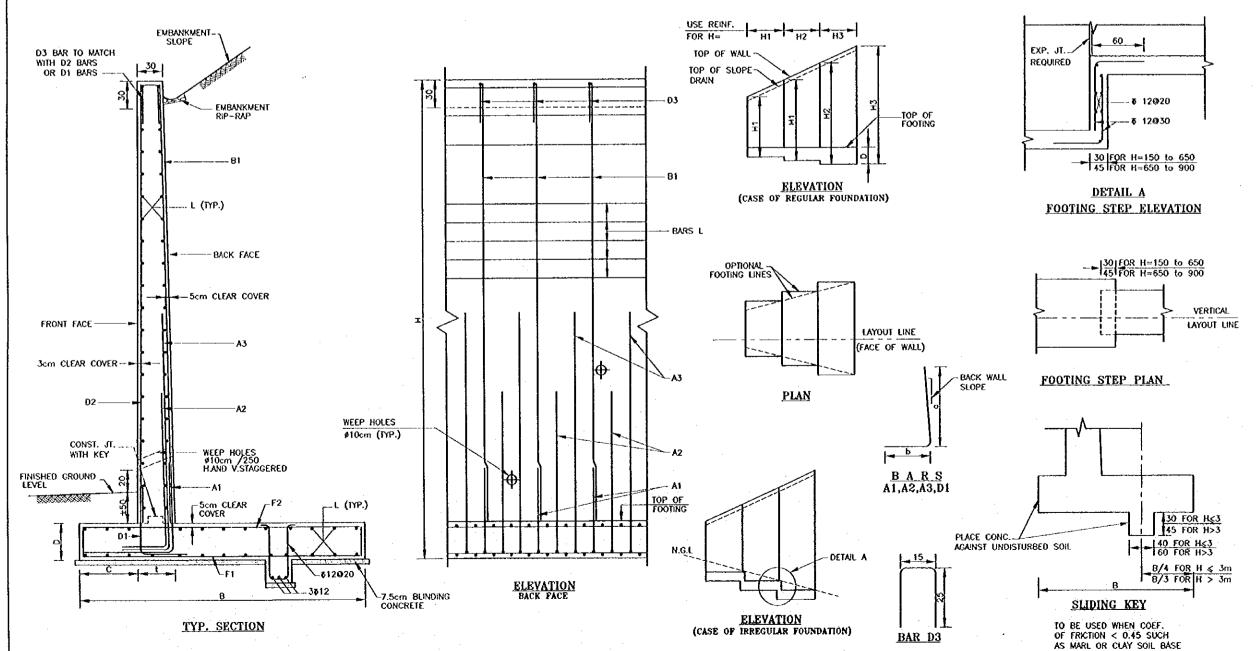
Drawing Title:

T-SHAPE RETAINING WALL ADJACENT TO ROAD CARRIAGE

Scale: AS SHOWN

DSPT-62





#### NOTES:

- 1) ALL DIMENSIONS ARE IN cm. EXCEPT REINF. DIA WHICH ARE IN mm
- 2) DESIGN DATA:

  a-angle of internal friction

  (4)=33;

  b-weight of soil = 1.8 t/m²
- 3) FOR DETAILS OF JOINTS , SPACINGS , AND BACKFILL DRAINS SEE DRG.NO. (DSPW - 61)
- 4) EXPOSED SURFACES SHALL BE FAIR FACED, AND BURIED SURFACES SHALL BE COATED WITH BITUVINOUS DAMP PROOFING.
- 5) FOOTING DIMENSIONS ARE VARIED TO OBTAIN A MORE DESIRABLE SOIL PRESSURE AS DIRECTED BY THE ENGINEER, A CORRESPONDING CHANGE MUST BE MADE IN THE FOOTING DESIGN TO ADJUST REINFORCING.
- 6) THE REINFORCING SCHEDULES SHOWN ARE ONLY FOR THE CORRESPONDING WALL DIMENSIONS USTEDLENGTH OF REINFORCING BARS SHOULD BE ADJUSTED TO MATCH THE RETAINING WALL HEIGHT.
- 7) FOR REINFORCEMENT HOOK DETAILS SEE DRG. NO. (DSPW - 60)
- QUANTITIES SHOWN IN THE TABLE INCLUDE THE SLIDING KEYAND ARE USED ONLY FOR ESTIMATION PURPOSES.
- 9) REINFORCED CONCRETE SHALL BE CLASS C30.
- 10) BUNDING CONCRETE SHALL BE CLASS C15.
- 11) STEEL REINFORCEMENT SHALL CONFORM TO THE REQUIR OF ASTM A615 GRADE 60.

#### Project:

Tourism Sector Development Project in the Hashemite Kingdom of Jordan

#### Executing Agency: The Ministry of

The Ministry of Tourism and Antiquities
The Ministry of Planning

## SUB-PROJECT:

Dead Sea Parkway

#### Note

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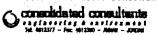
# Designed by:

Japan International Cooperation
Agency (JICA)

#### JICA Study Team:

Joint Venture of Pacific Consultants International and Yomasita Sekket Inc.

Subcontracted Local Consultant:

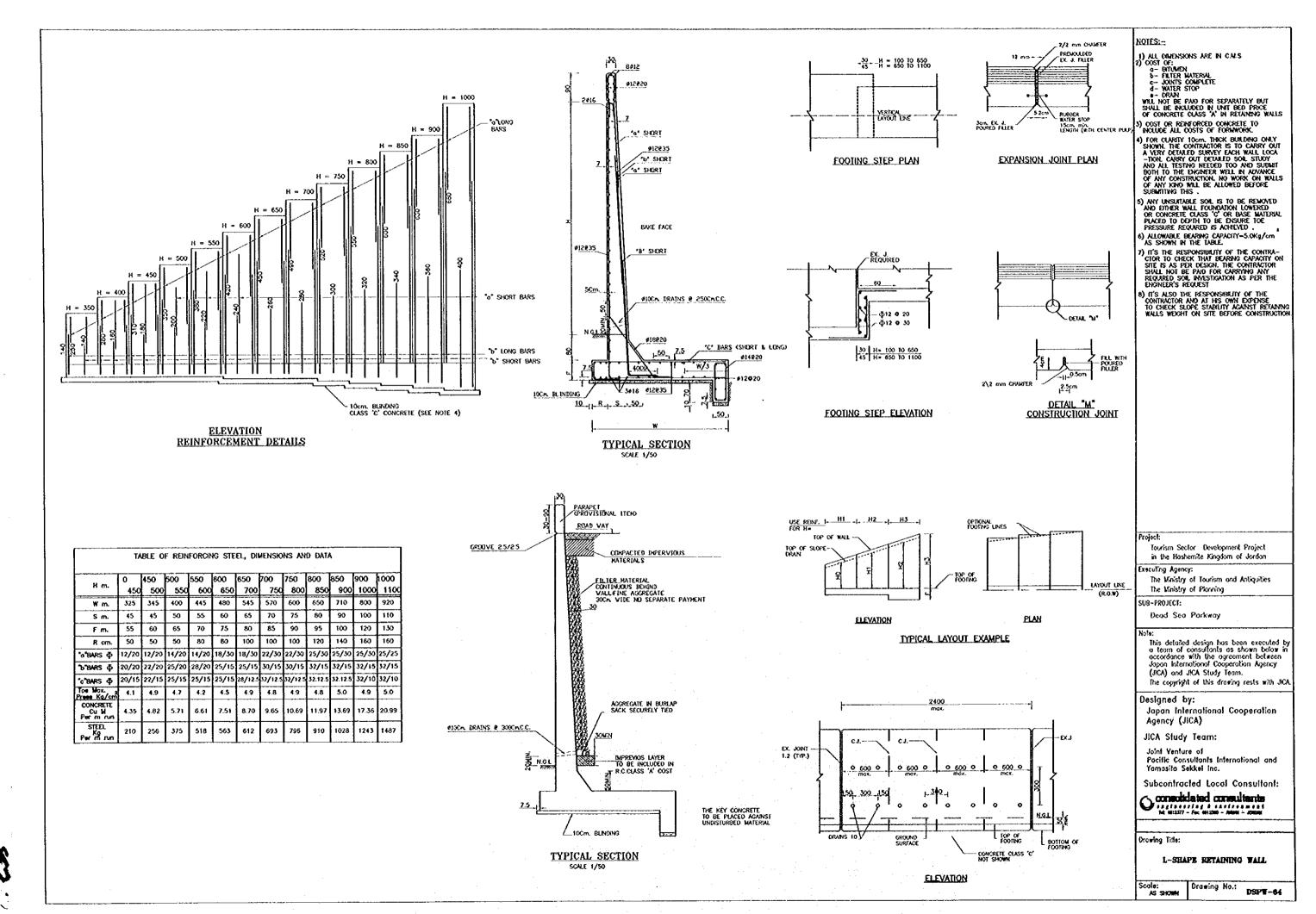


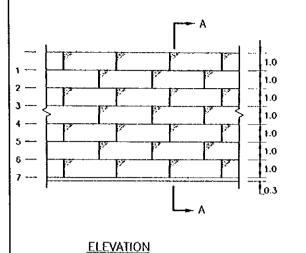
Drawing Title:

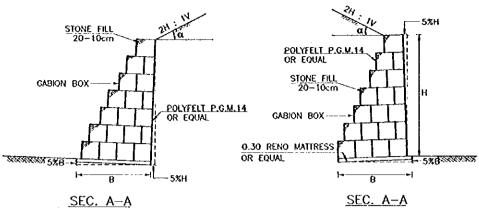
T-SHAPE RETAINING WALL WITH SLOPED EMBANKMENT

Scale: Drawing No.:

ing No.: DSPW-63



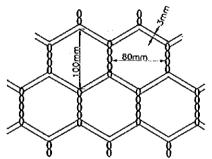




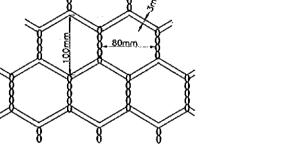
WALL (H)	WIDTE OF LAYER No.							BASE	No.	
	2	3	4	5	6	7	8	WIDTH(m)	OF LAYERS	
3	1.0	2.0	3.0						3.25	3
4	1.0	1.5	2.5	3.5					<b>3</b> .75	4
5	1.0	1.5	2.0	3.0	4.0				4.25	5
6	1.5	1.5	2.0	2.0	3.5	5.0			5.25	6
7	1.5	1.5	2.5	2.5	3.5	5.5	5.5		5.75	7

# GABION WALLS

GALVANIZED MESH

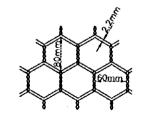


STEEL WIRE MESH FOR GABION BOX

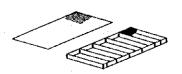




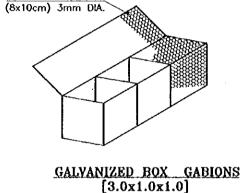
NORMAL CASE



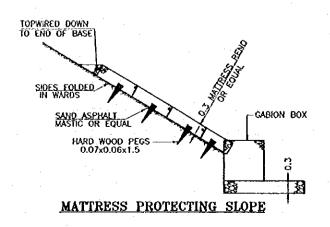
STEEL WIRE MESH FOR MATTRESS

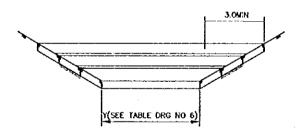


GALVANIZED MATTRESS POCKET

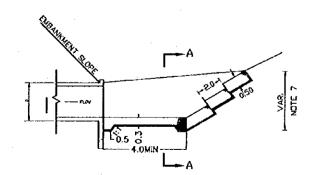


CASE FOR LIMITED SPACE





SEC A-A



CULVERT INLET DETAILS **TYPE (2)** 

## NOTES:--

#### 1)DESIGN DATA :-

- A- ANGLE OF REPOSE OF SOIL \$=30' 41'

  B- ANGLE OF SURCHARGE 0X =33' 41'

  C- LL H520-44 MS 18

  D- DENSITY OF SOIL 118 1/m<sup>4</sup>

2)STONE-FILLING SIZE :-

- A-FOR CABION BOX, >1.5 OF WESH OPENING (15cm IDEAL) .
- B-FOR MATTRESSES, >1.25 OF WESH OPENING AND <2/3 OF THE MATTRESS THICKNESS (10cm IDEAL)
- 3)FOR SEVERE CONDITIONS OF CORROSION USE HEAVY ZINC COATED WIRES (GALV.) WITH PVC SLEEVES.
- 4)ALL DIM. ARE IN METERS UNLESS OTHERWISE SHOWN
- 5)FOR M > 3m BATTER VERTICAL EXT. WALL FACE 5% TO THE SOIL SIDE .
- 6)PROMDE ANCHOR POSTS OR PEGS AS PER DWG, OR AS DIRECTED BY THE ENGINEER. IF THE GABION OR MATTRESS IS LAID ON A SLOPE STEEPER THAN 1:2.
- 7)THE HT. OF THE STEPPED CABION WE'R SHOULD BE 3 METERS MIN. UNLESS OTHER WISED ORDERED BY THE ENG.
- 8)THE GABION IS DESIGNED FOR EFFECTIVE PEAK ACCELERATION (EPA) 0.15g AND VERTICAL ACCELERATION 0.05g
- 9)THE GABION IS DESIGNED FOR ALLOWABLE BEARING CAPACITY OF 5 kg/cm²
- 10) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REACH A LAYER THAT WILL ACHEVE THIS BEARING CAPACITY AND MADE SOIL TESTS AFTER EXCAVATION .

# Project:

Tourism Sector Development Project in the Hoshemite Kingdom of Jordan

# xeculing Agency:

The Ministry of Tourism and Antiquities The Ministry of Planning

#### SUB-PROJECT:

Dead Sea Parkway

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#### Designed by:

Japan International Cooperation Agency (JICA)

#### JICA Study Team:

Joint Venture of Pacific Consultants International and Yamasita Sekkel Inc.

Subcontracted Local Consultant:

# Consolidated consultants 14 412377 - Fac 411230 - MANN - 20000

**Drawing Title:** 

GABION DETAILS

Drawing No.: DSPW-65