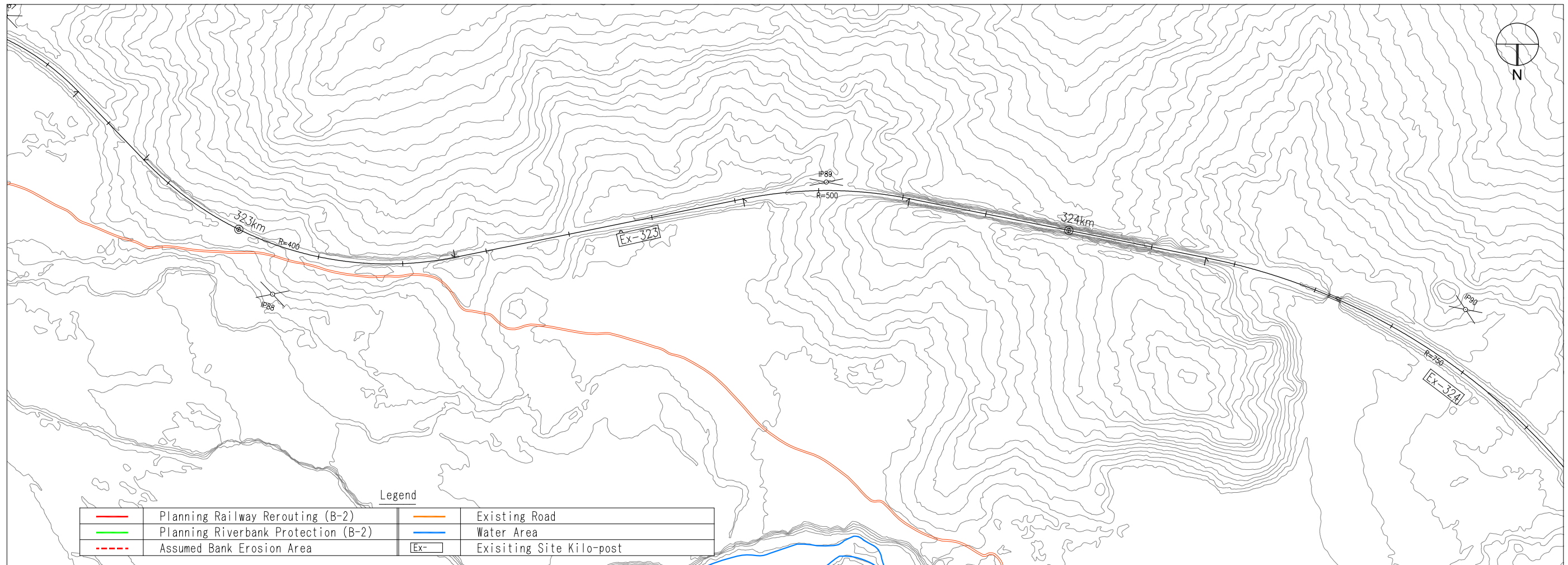
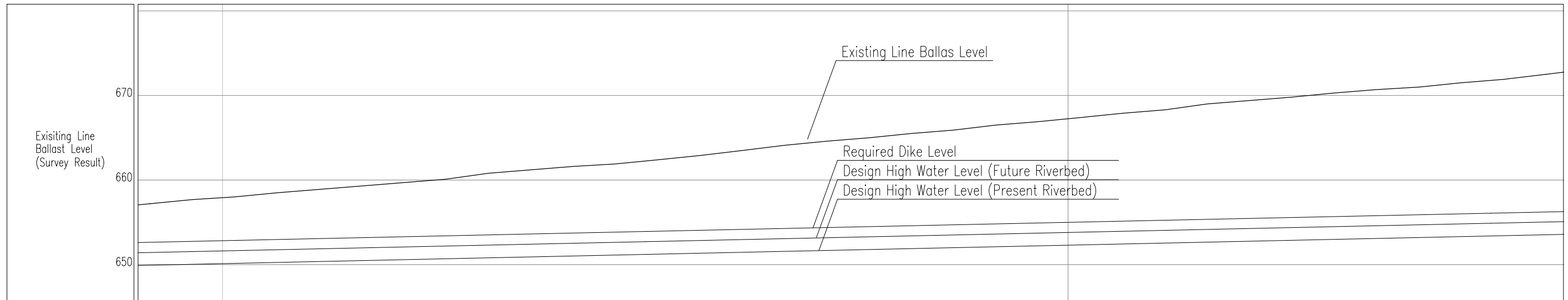


Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| Legend | | | |
|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------|
| — | Planning Railway Rerouting (B-2) | — | Existing Road |
| — | Planning Riverbank Protection (B-2) | — | Water Area |
| - - - | Assumed Bank Erosion Area | Ex-□ | Existing Site Kilo-post |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Existing Line Ballast Level (Survey Result) | 657.25 | 657.45 | 657.65 | 657.79 | 657.91 | 658.05 | 658.25 | 658.45 | 658.62 | 658.78 | 658.94 | 659.10 | 659.26 | 659.42 | 659.58 | 659.74 | 659.90 | 660.06 | 660.31 | 660.59 | 660.84 | 661.00 | 661.16 | 661.32 | 661.48 | 661.63 | 661.75 | 661.87 | 662.05 | 662.25 | 662.45 | 662.65 | 662.85 | 663.08 | 663.32 | 663.56 | 663.80 | 664.04 | 664.25 | 664.45 | 664.64 | 664.80 | 664.96 | 665.15 | 665.35 | 665.54 | 665.70 | 665.86 | 666.08 | 666.32 | 666.54 | 666.70 | 666.86 | 667.05 | 667.25 | 667.45 | 667.65 | 667.85 | 668.02 | 668.18 | 668.37 | 668.65 | 668.93 | 669.12 | 669.28 | 669.44 | 669.60 | 669.76 | 669.95 | 670.15 | 670.34 | 670.50 | 670.66 | 670.79 | 670.91 | 671.05 | 671.25 | 671.45 | 671.62 | 671.78 | 671.96 | 672.20 | 672.44 | 672.68 |
| Existing Line Curvature | IP88 R=400m | | | | | | | | | | R=500m IP89 | | | | | | | | | | R=750m IP90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Re-Setting) | 323 | | | | | | | | | | 324 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Site Kilo Post) | Km323 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Km324 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GOVERNMENT AGENCIES:



Japan International Cooperation Agency

Reli Assets Holding Company (RAHCO), Tanzania

JICA STUDY TEAM:

PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on Flood Protection Measures for Central Railway Line in the United Republic of Tanzania

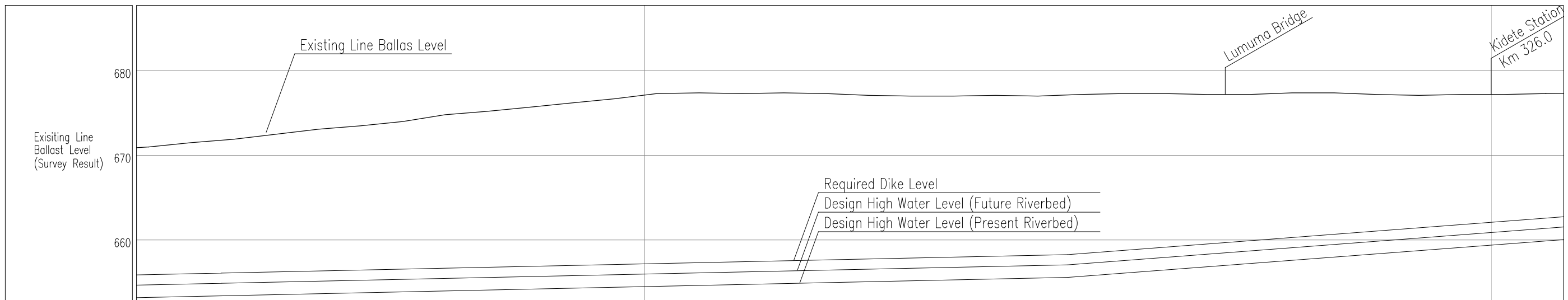
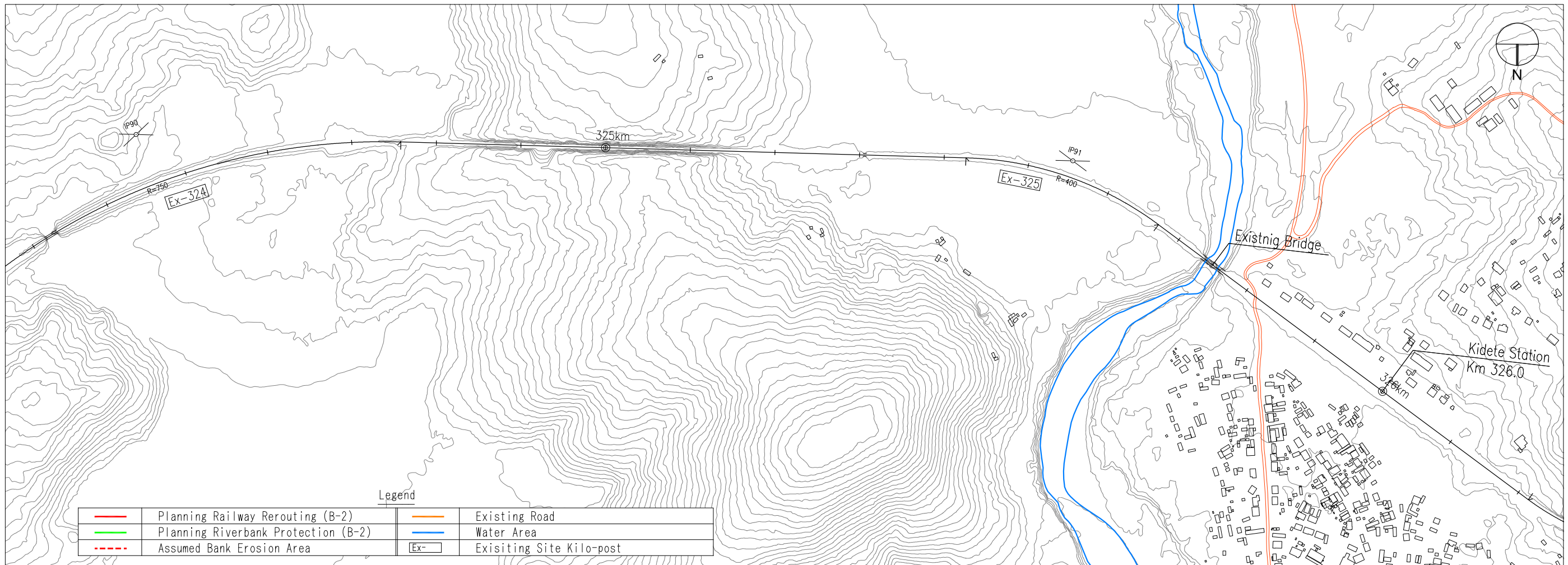
SHEET CONTENTS:

DWG NUM

| | |
|----|----|
| 28 | 60 |
|----|----|

Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|
| Existing Line Ballast Level (Survey Result) | 671.05 | 671.25 | 671.45 | 671.62 | 671.78 | 671.96 | 672.20 | 672.44 | 672.68 | 672.92 | 673.14 | 673.30 | 673.46 | 673.65 | 673.85 | 674.08 | 674.40 | 674.72 | 675.08 | 675.25 | 675.45 | 675.65 | 675.85 | 676.05 | 676.25 | 676.45 | 676.65 | 676.88 | 677.12 | 677.31 | 677.35 | 677.39 | 677.39 | 677.37 | 677.33 | 677.31 | 677.35 | 677.39 | 677.37 | 677.33 | 677.28 | 677.20 | 677.12 | 677.07 | 677.03 | 677.00 | 677.00 | 677.03 | 677.07 | 677.09 | 677.05 | 677.01 | 677.06 | 677.14 | 677.21 | 677.25 | 677.21 | 677.20 | 677.20 | 677.22 | 677.30 | 677.38 | 677.40 | 677.40 | 677.38 | 677.38 | 677.30 | 677.22 | 677.17 | 677.13 | 677.11 | 677.15 | 677.19 | 677.20 | 677.20 | 677.21 | 677.25 | 677.29 | 677.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Existing Line Curvature | R=750m IP90 | | | | | | | | | | R=400m IP91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Re-Setting) | 5 | | | | | | | | | | 6 | | | | | | | | | | 7 | | | | | | | | | | 8 | | | | | | | | | | 9 | | | | | | | | | | 325 | | | | | | | | | | 1 | | | | | | | | | | 2 | | | | | | | | | | 3 | | | | | | | | | | 4 | | | | | | | | | | 5 | | | | | | | | | | 6 | | | | | | | | | | 7 | | | | | | | | | | 8 | | | | | | | | | | 9 | | | | | | | | | | 326 | | | | | | | | | |
| Kilometrage (Site Kilo Post) | Km324 | | | | | | | | | | Km325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GOVERNMENT AGENCIES:



Reli Assets Holding Company (RAHCO), Tanzania

JICA STUDY TEAM:

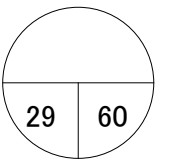
PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on
Flood Protection
Measures for Central
Railway Line in the United
Republic of Tanzania

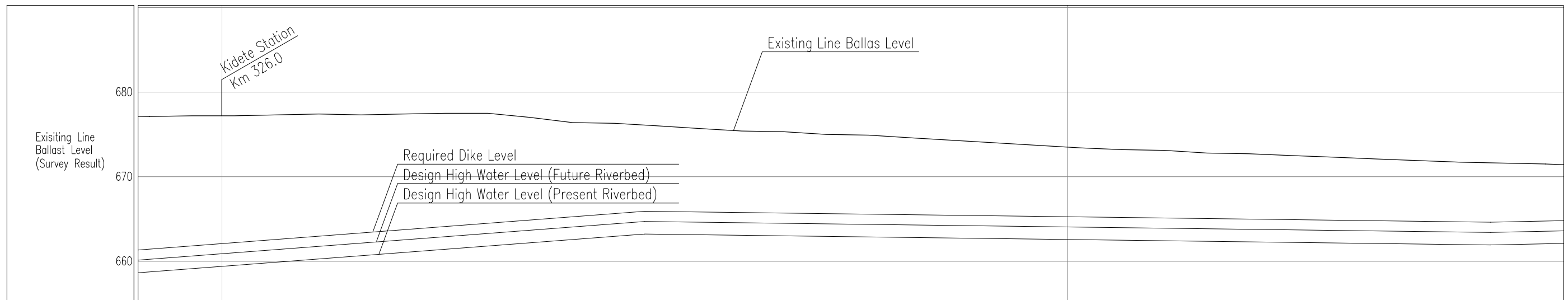
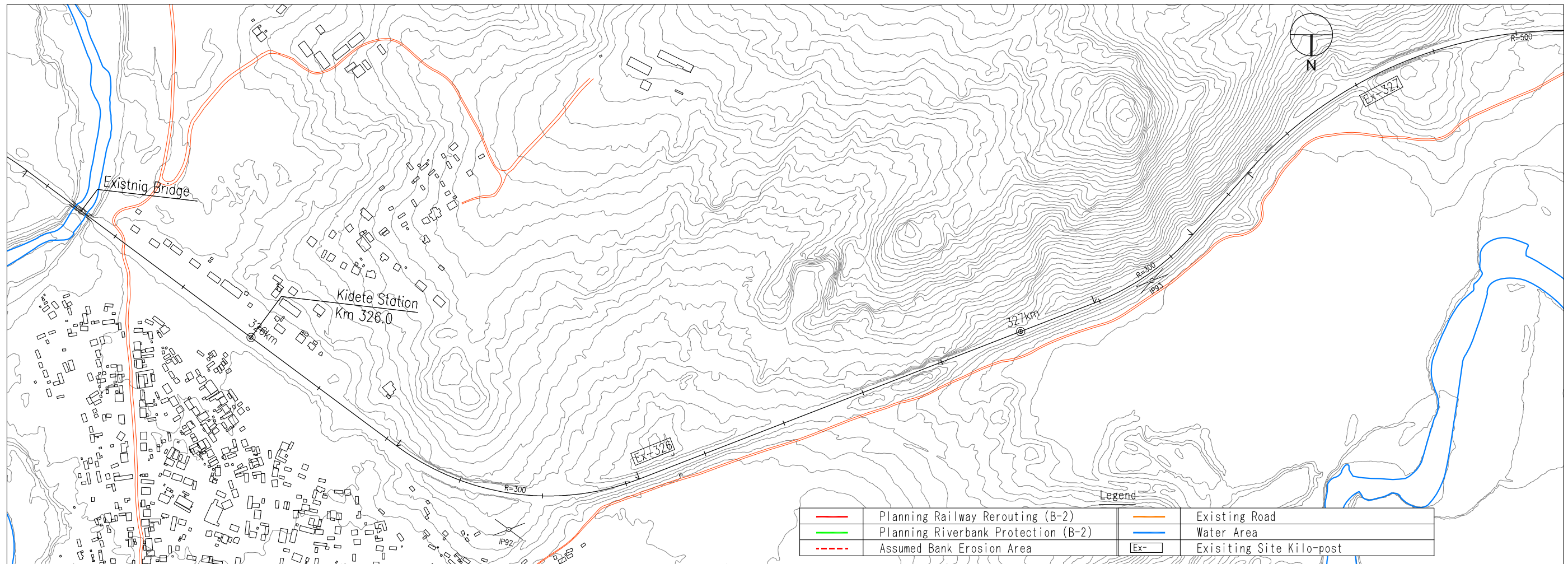
SHEET CONTENTS:

DWG NUM



Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Existing Line Ballast Level (Survey Result) | 677.11 | 677.15 | 677.19 | 677.20 | 677.21 | 677.25 | 677.29 | 677.33 | 677.37 | 677.39 | 677.35 | 677.31 | 677.33 | 677.37 | 677.41 | 677.45 | 677.49 | 677.50 | 677.50 | 677.45 | 677.25 | 677.05 | 676.82 | 676.58 | 676.39 | 676.35 | 676.31 | 676.21 | 676.09 | 675.97 | 675.85 | 675.73 | 675.61 | 675.49 | 675.39 | 675.35 | 675.31 | 675.21 | 675.09 | 674.99 | 674.95 | 674.91 | 674.81 | 674.69 | 674.57 | 674.45 | 674.33 | 674.21 | 674.09 | 673.97 | 673.85 | 673.73 | 673.61 | 673.49 | 673.38 | 673.30 | 673.22 | 673.17 | 673.13 | 673.07 | 672.95 | 672.83 | 672.77 | 672.73 | 672.68 | 672.60 | 672.52 | 672.44 | 672.36 | 672.28 | 672.20 | 672.12 | 672.04 | 671.96 | 671.88 | 671.80 | 671.72 | 671.67 | 671.63 | 671.59 | 671.55 | 671.51 | 671.44 |
| Existing Line Curvature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | IP92 | | | | | | | | | | | IP93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Re-Setting) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | R=300m | | | | | | | | | | | R=300m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Site Kilo Post) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 326 | | | | | | | | | | | 327 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GOVERNMENT AGENCIES:



Japan International Cooperation Agency



Reli Assets Holding Company (RAHCO), Tanzania

JICA STUDY TEAM:

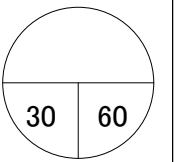
PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on Flood Protection Measures for Central Railway Line in the United Republic of Tanzania

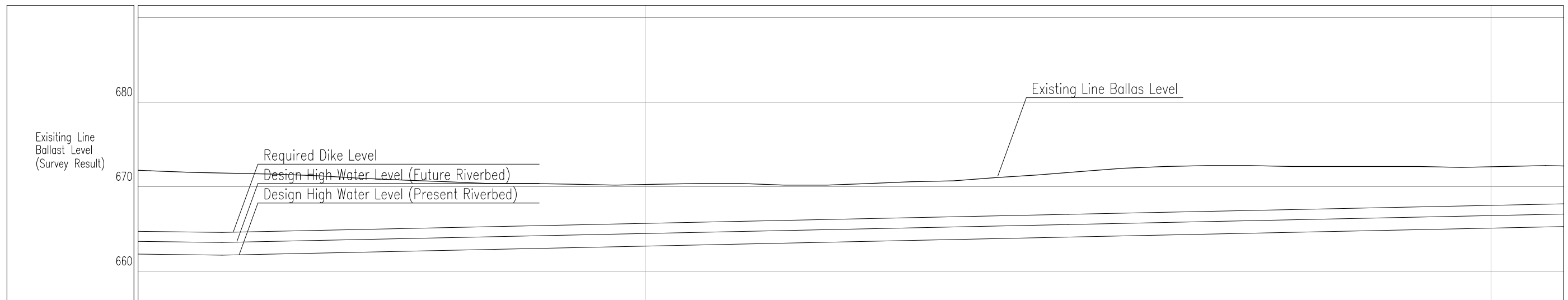
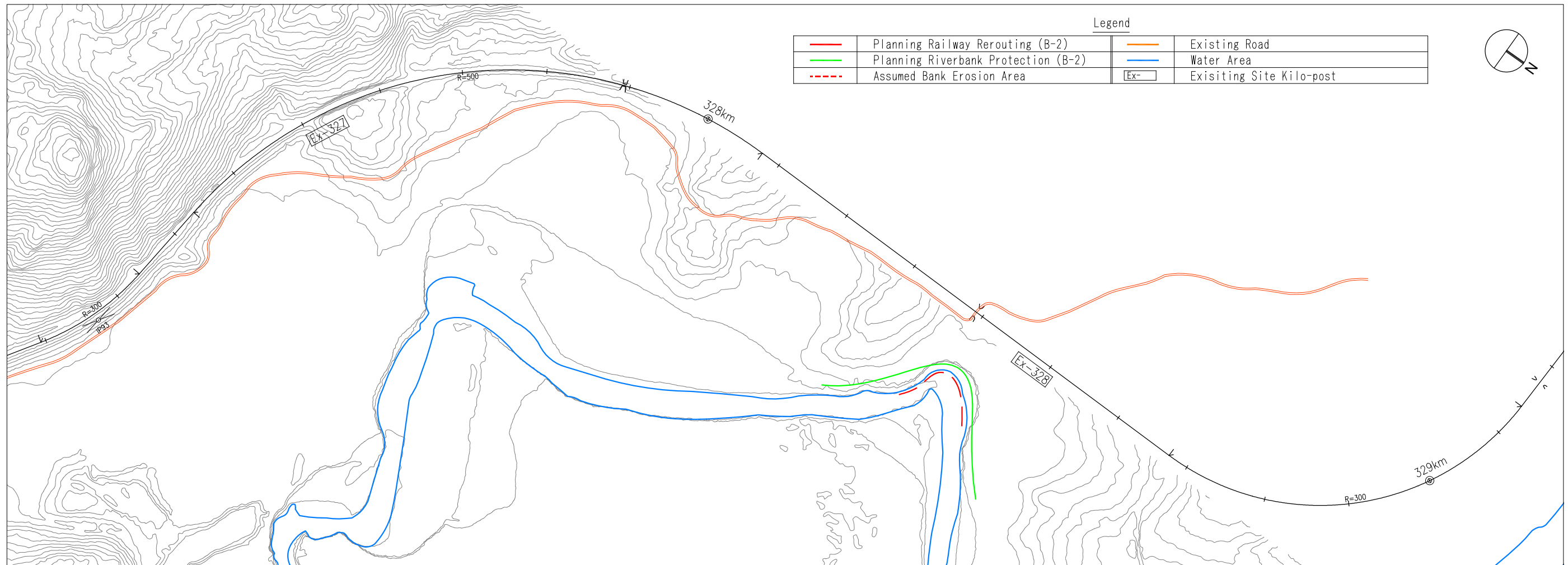
SHEET CONTENTS:

DWG NUM



Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Existing Line Ballast Level (Survey Result) | 671.88 | 671.80 | 671.72 | 671.67 | 671.63 | 671.59 | 671.55 | 671.51 | 671.44 | 671.36 | 671.27 | 671.15 | 671.03 | 670.94 | 670.86 | 670.78 | 670.70 | 670.62 | 670.54 | 670.46 | 670.40 | 670.40 | 670.40 | 670.37 | 670.33 | 670.29 | 670.25 | 670.21 | 670.23 | 670.27 | 670.31 | 670.35 | 670.39 | 670.40 | 670.40 | 670.38 | 670.30 | 670.22 | 670.20 | 670.22 | 670.30 | 670.38 | 670.46 | 670.54 | 670.61 | 670.65 | 670.69 | 670.82 | 670.98 | 671.13 | 671.25 | 671.37 | 671.52 | 671.68 | 671.84 | 672.00 | 672.16 | 672.26 | 672.34 | 672.41 | 672.45 | 672.49 | 672.50 | 672.50 | 672.49 | 672.45 | 672.41 | 672.40 | 672.40 | 672.40 | 672.40 | 672.40 | 672.39 | 672.35 | 672.31 | 672.33 | 672.37 | 672.41 | 672.45 | 672.49 | 672.47 |
| Existing Line Curvature | R=500m IP94 | | | | | | | | | | | | | | R=300m IP95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Re-Setting) | 5 6 7 8 9 | | | | | | | | | | | | | | 328 1 2 3 4 5 6 7 8 9 329 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kilometrage (Site Kilo Post) | Km327 | | | | | | | | | | | | | | Km328 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GOVERNMENT AGENCIES:



Japan International Cooperation Agency



Reli Assets Holding Company (RAHCO), Tanzania

JICA STUDY TEAM:

PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on Flood Protection Measures for Central Railway Line in the United Republic of Tanzania

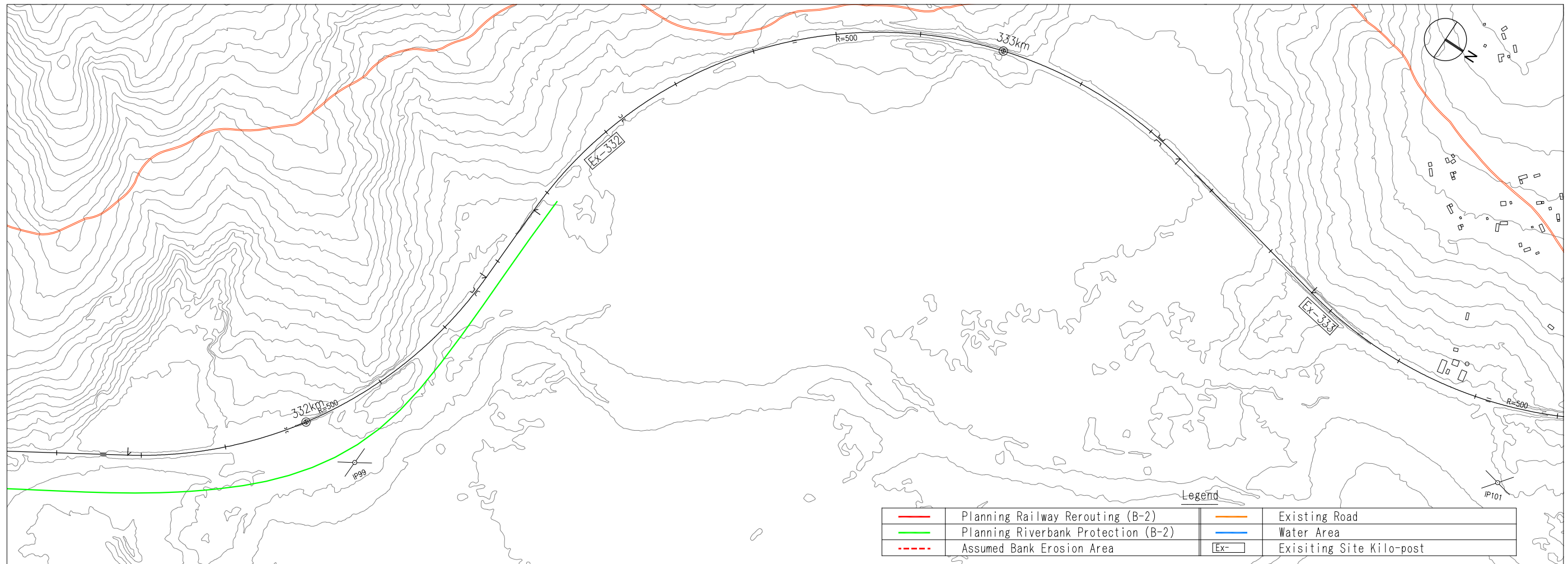
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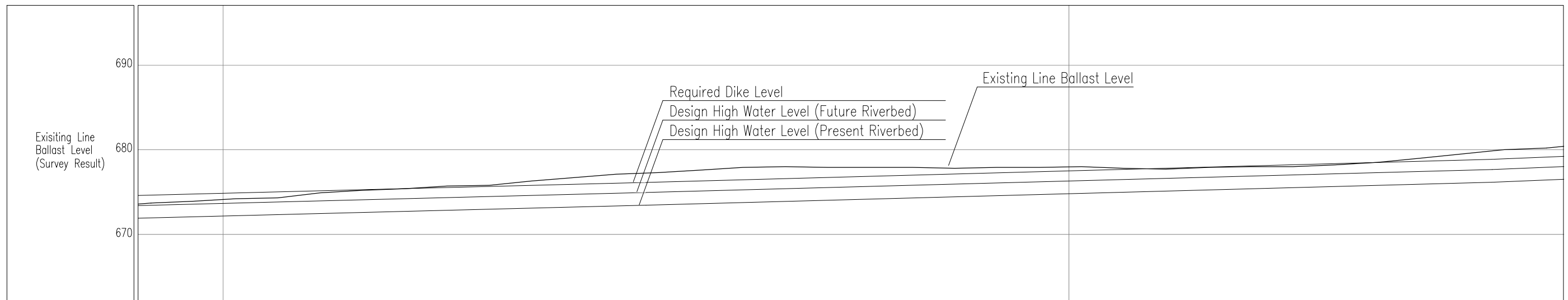
| | |
|----|----|
| 31 | 60 |
|----|----|

Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| Legend | |
|--|-------------------------------------|
| — | Planning Railway Rerouting (B-2) |
| — | Planning Riverbank Protection (B-2) |
| - - - | Assumed Bank Erosion Area |
| — | Existing Road |
| — | Water Area |
| Ex- | Existing Site Kilo-post |



| | |
|---|--|
| Existing Line Ballast Level (Survey Result) | 673.72 673.80 673.88 673.99 674.11 674.21 674.25 674.29 674.48 674.72 674.93 675.05 675.17 675.26 675.34 675.43 675.55 675.67 675.73 675.77 675.85 676.05 676.25 676.42 676.58 676.74 676.90 677.06 677.16 677.24 677.33 677.45 677.57 677.69 677.81 677.91 677.95 677.99 677.97 677.93 677.90 677.90 677.90 677.89 677.85 677.81 677.83 677.87 677.90 677.90 677.90 677.97 677.98 677.90 677.82 677.77 677.73 677.72 677.72 677.80 677.88 677.93 677.97 677.97 678.00 678.00 678.00 678.06 678.14 678.23 678.35 678.47 678.65 678.85 679.05 679.25 679.45 679.65 679.85 680.02 680.10 680.18 680.35 |
| Existing Line Curvature | IP99 R=500m IP100 R=500m |
| Kilometrage (Re-Setting) | 332 1 2 3 4 5 6 7 8 9 333 1 2 3 4 5 |
| Kilometrage (Site Kilo Post) | Km332 Km333 |

GOVERNMENT AGENCIES:



JICA STUDY TEAM:

PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants
for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on
Flood Protection
Measures for Central
Railway Line in the United
Republic of Tanzania

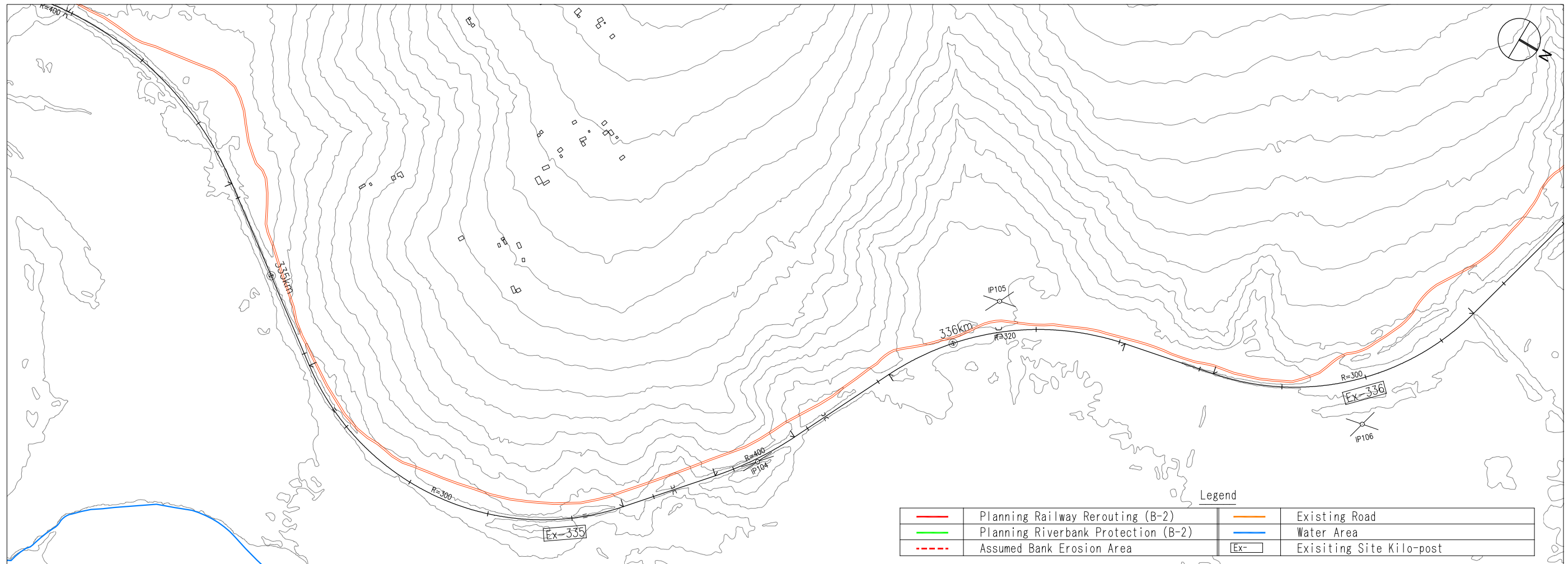
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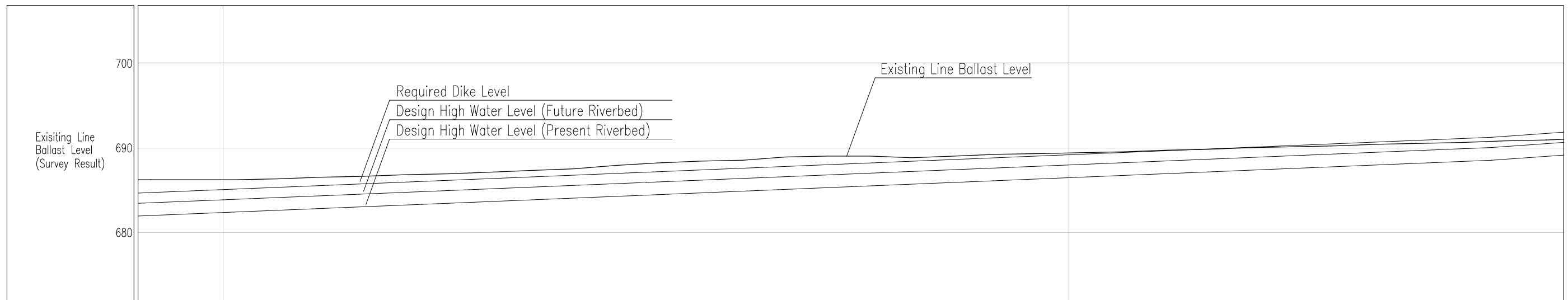
| | |
|----|----|
| 34 | 60 |
|----|----|

Existing Railway Line

A1[H=1:2,500 V=1:250] A3[H=1:5,000 V=1:500]



| Legend | |
|---|-------------------------------------|
| — | Planning Railway Rerouting (B-2) |
| — | Planning Riverbank Protection (B-2) |
| — | Water Area |
| --- | Assumed Bank Erosion Area |
| Ex- | Existing Site Kilo-post |



| | |
|---|--|
| Existing Line Ballast Level (Survey Result) | 686.20 686.20 686.20 686.20 686.21 686.25 686.29 686.36 686.44 686.51 686.55 686.59 686.66 686.74 686.81 686.85 686.89 686.96 687.04 687.12 687.20 687.28 687.36 687.44 687.54 687.70 687.86 687.99 688.11 688.22 688.30 688.38 688.43 688.47 688.54 688.70 688.86 688.93 688.97 689.00 689.00 689.00 688.94 688.86 688.82 688.90 688.98 688.98 689.06 689.14 689.21 689.25 689.29 689.33 689.37 689.41 689.45 689.49 689.56 689.64 689.71 689.75 689.79 689.86 689.94 689.94 690.01 690.05 690.09 690.13 690.17 690.22 690.30 690.38 690.43 690.47 690.51 690.55 690.59 690.66 690.74 690.81 690.85 690.89 690.96 |
| Existing Line Curvature | IP103 R=300m IP104 R=400m IP105 R=320m IP106 R=300m |
| Kilometrage (Re-Setting) | 335 1 2 3 4 5 6 7 8 9 336 1 2 3 4 5 |
| Kilometrage (Site Kilo Post) | Km335 Km336 Km336 |

GOVERNMENT AGENCIES:



Japan International Cooperation Agency

Reli Assets Holding Company (RAHCO), Tanzania

JICA STUDY TEAM:

PADECO Co., Ltd.,
Nippon Koei Co., Ltd.,
Japan International Consultants for Transportation Co., Ltd., and
Fukken Engineering Co., Ltd.

PROJECT & LOCATION:

Preparatory Survey on Flood Protection Measures for Central Railway Line in the United Republic of Tanzania

SHEET CONTENTS:

DWG NUM

