

Status of Road Construction  
 Existing Section km 23+800 to km 30+200 (6400m)  
 Construction Status : EW in Excavation Observed  
 Usable Length as per Proposed Revised DPR  
 Proposed CL as per Revised DPR  
 Existing Carriageway  
 Existing Roadway Towards Hill Side  
 Existing Roadway Towards Valley Side  
 Excavation by Contractor  
 Proposed Corridor

|                         |  |         |                   |         |                     |                      |                  |                    |                    |         |         |                     |                   |                      |                    |                      |         |         |                    |         |         |         |                   |         |         |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------|--|---------|-------------------|---------|---------------------|----------------------|------------------|--------------------|--------------------|---------|---------|---------------------|-------------------|----------------------|--------------------|----------------------|---------|---------|--------------------|---------|---------|---------|-------------------|---------|---------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)    | 551.547  | 550.620 | 549.293           | 547.700 | 546.100             | 544.500              | 543.001          | 541.680            | 540.477            | 539.277 | 538.076 | 536.776             | 535.297           | 533.700              | 532.244            | 531.362              | 529.476 | 530.513 | 529.039            | 527.697 | 526.477 | 525.277 | 524.077           | 522.877 | 521.677 | 520.477 | 519.277            | 518.077 | 516.877 | 515.677 | 514.477 | 513.277 | 512.079 | 510.956 | 509.946 | 509.020 | 508.100 | 507.180 | 506.260 | 505.340 | 504.420 | 503.474 | 502.298 | 500.849 | 499.250 | 497.650 | 496.065 | 494.704 | 493.637 | 492.897 | 491.757 | 490.817 | 489.877 |
| EXISTING LEVEL (NGL)    | 551.597  | 550.477 | 548.042           | 543.958 | 544.377             | 543.166              | 541.912          | 539.644            | 537.701            | 536.516 | 535.438 | 534.428             | 533.182           | 532.244              | 531.362            | 529.476              | 528.108 | 525.864 | 524.372            | 523.673 | 522.877 | 521.677 | 519.639           | 518.366 | 516.706 | 515.642 | 514.555            | 513.323 | 512.370 | 511.332 | 510.377 | 509.596 | 509.083 | 507.584 | 506.557 | 505.707 | 498.997 | 505.649 | 516.881 | 502.153 | 497.046 | 497.948 | 496.865 | 497.999 | 490.260 | 490.423 | 493.213 | 496.588 | 499.702 | 488.772 |         |         |         |
| LEVEL DIFF. (FRL - NGL) | -0.051   | 0.142   | 1.252             | 3.742   | 1.723               | 1.332                | 1.090            | 2.035              | 2.775              | 2.760   | 2.638   | 2.347               | 2.115             | 1.456                | 0.737              | 1.037                | 0.830   | 1.834   | 2.105              | 1.603   | 1.510   | 1.996   | 1.613             | 0.838   | 0.908   | 1.370   | 1.235              | 1.121   | 1.154   | 0.907   | 0.746   | 0.580   | 0.349   | -0.062  | 0.517   | 0.623   | 0.553   | 6.344   | -1.229  | -13.207 | 0.145   | 3.803   | 1.301   | 0.784   | -1.935  | 4.445   | 3.214   | -0.517  | -4.831  | -8.885  | 1.104   |         |         |
| HORIZONTAL              | R=33.0m<br>L=71.5m   |         | L=104.3m          |         | R=110.0m<br>L=34.2m | R=175.0m<br>L=140.9m |                  | R=38.0m<br>L=59.4m | R=43.0m<br>L=92.3m |         | L=41.0m | R=59.5m<br>L=161.9m |                   | R=130.0m<br>L=141.4m |                    | R=100.0m<br>L=107.9m |         | R       | L                  |         |         |         |                   |         |         |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION          | 7.00%  |         | 2.50%             |         | 3.64%               |                      | 2.50%            |                    | 7.00%              |         | 7.00%   |                     | 2.50%             |                      | 6.72%              |                      | 3.08%   |         | 4.00%              |         | -7.00%  |         | -2.50%            |         | -6.72%  |         | -3.08%             |         | -4.00%  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING          | 6.5  |         | 5.8               |         | 5.8                 |                      | 6.2              |                    | 6.2                |         | 5.8     |                     | 5.9               |                      |                    |                      |         |         |                    |         |         |         |                   |         |         |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC      | L=45.0m  |         | G=-8.0<br>L=55.0m |         | L=45.0m             |                      | G=6.0<br>L=55.0m |                    | L=45.0m            |         | L=47.5m |                     | G=-8.0<br>L=60.0m |                      | G=-6.0<br>L=245.0m |                      | L=50.0m |         | G=-4.6<br>L=125.0m |         | L=50.0m |         | G=-8.0<br>L=52.5m |         | L=45.0m |         | G=-4.7<br>L=122.5m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMP PROPOSAL   | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm , DBM = 50mm , WMM = 250mm , GSB = 150mm , SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |                   |         |                     |                      |                  |                    |                    |         |         |                     |                   |                      |                    |                      |         |         |                    |         |         |         |                   |         |         |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                | 24+000   | 24+020  | 24+040            | 24+060  | 24+080              | 24+100               | 24+120           | 24+140             | 24+160             | 24+180  | 24+200  | 24+220              | 24+240            | 24+260               | 24+280             | 24+300               | 24+320  | 24+340  | 24+360             | 24+380  | 24+400  | 24+420  | 24+440            | 24+460  | 24+480  | 24+500  | 24+520             | 24+540  | 24+560  | 24+580  | 24+600  | 24+620  | 24+640  | 24+660  | 24+680  | 24+700  | 24+720  | 24+740  | 24+760  | 24+780  | 24+800  | 24+820  | 24+840  | 24+860  | 24+880  | 24+900  | 24+920  | 24+940  | 24+960  | 24+980  | 25+000  |         |         |

Notes :  
 1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed CW :           | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  |                                   |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)  
 Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal 1:50, 1:75, 1:100  
 Vertical 1:5, 1:7.5, 1:10

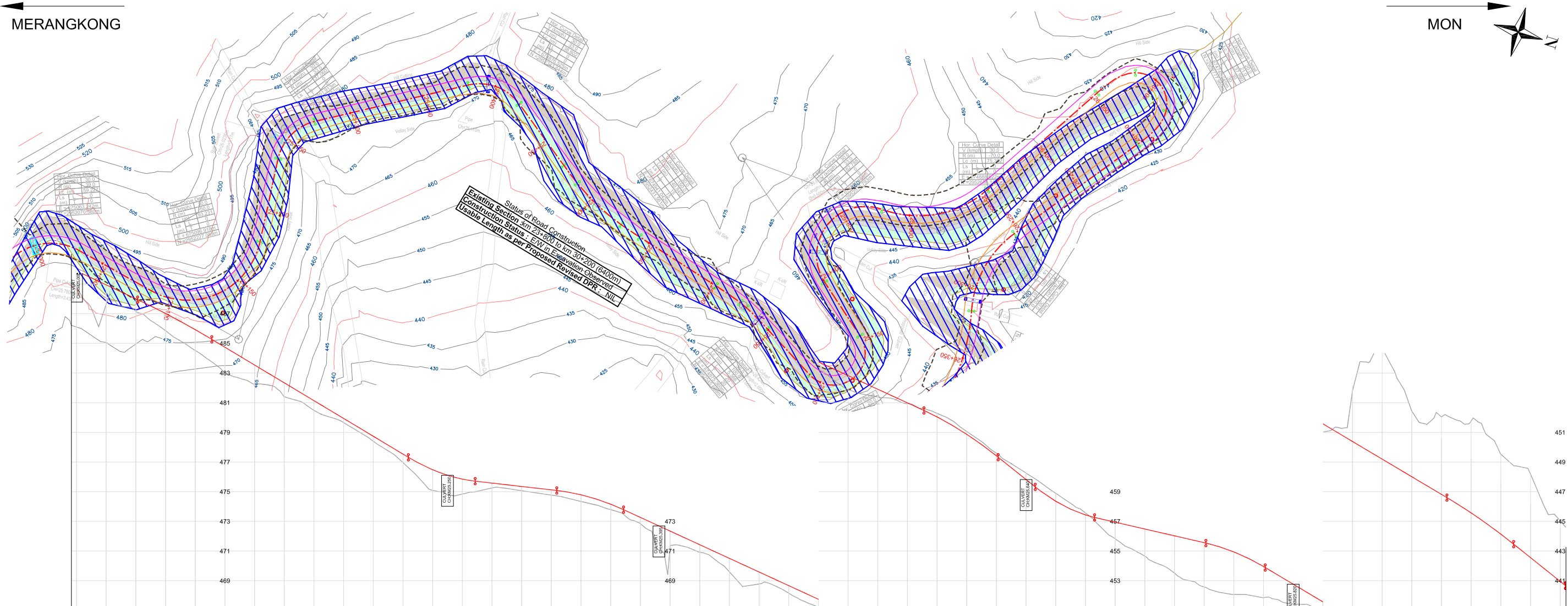
Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

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MERANGKONG

MON



|                         |  |         |         |         |          |         |          |         |         |         |         |         |          |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |          |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |        |  |  |  |  |  |
|-------------------------|--|---------|---------|---------|----------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--|--|--|--|--|
| PROPOSED LEVEL (FRL)    | 488.877  | 488.937 | 487.997 | 487.010 | 485.920  | 484.737 | 483.537  | 482.337 | 481.137 | 479.937 | 478.737 | 477.537 | 476.481  | 475.849 | 475.560 | 475.351 | 475.122  | 474.791 | 474.158 | 473.267 | 472.347 | 471.427 | 470.507 | 469.587 | 468.667 | 467.747 | 466.827 | 465.907 | 464.987   | 464.040 | 462.864 | 461.416 | 459.816  | 458.353 | 457.432 | 456.945 | 456.025 | 455.485 | 454.943 | 453.957 | 452.767  | 451.577 | 450.387 | 449.197 | 448.007 | 446.817 | 445.567 | 444.137 | 442.554 | 440.957 |        |  |  |  |  |  |
| EXISTING LEVEL (NGL)    | 488.772  | 487.639 | 487.162 | 485.854 | 484.517  | 483.015 | 482.244  | 481.395 | 480.478 | 479.658 | 478.400 | 477.961 | 475.089  | 474.845 | 475.249 | 475.065 | 474.767  | 474.342 | 473.787 | 472.848 | 471.306 | 470.917 | 471.427 | 469.596 | 468.781 | 468.157 | 467.226 | 465.985 | 465.380   | 464.930 | 464.278 | 464.040 | 463.059  | 461.589 | 460.252 | 458.886 | 457.568 | 456.837 | 454.654 | 453.514 | 452.579  | 452.075 | 451.855 | 451.435 | 451.015 | 450.784 | 450.675 | 449.524 | 448.187 | 445.035 |        |  |  |  |  |  |
| LEVEL DIFF. (FRL - NGL) | 1.104  | 1.297   | 0.835   | 1.156   | 1.404    | 1.721   | 1.293    | 0.941   | 0.659   | 0.279   | 0.336   | 0.575   | 1.392    | 1.004   | 0.330   | 0.286   | 0.355    | 0.450   | 0.370   | 0.419   | 1.040   | 0.510   | 0.911   | 0.806   | 0.510   | 0.521   | 0.942   | 0.526   | 0.057   | -0.238  | -0.196  | -0.174  | -0.435   | -0.534  | -0.136  | 1.107   | 1.830   | 2.510   | 2.985   | 2.868   | 2.102    | 1.332   | 0.562   | -3.396  | -7.477  | -4.416  | -5.227  | -6.197  | -5.388  | -5.633  | -4.081 |  |  |  |  |  |
| HORIZONTAL              | R=39.0m  |         | L=59.2m |         | L=55.9m  |         | R=-50.0m |         | L=93.2m |         | L=57.4m |         | R=33.0m  |         | L=37.1m |         | L=106.4m |         | R=33.0m |         | L=38.8m |         | L=51.4m |         | L=15.0m |         | L=40.8m |         | L=15.0m   |         | L=61.0m |         | L=20.0m  |         | L=20.0m |         | L=42.3m |         | L=64.0m |         | R=-21.5m |         | L=43.1m |         | L=82.8m |         | R=70.0m |         | L=75.4m |         |        |  |  |  |  |  |
| SUPERELEVATION          | 7.00%  |         | 2.50%   |         | 7.00%    |         | 2.50%    |         | 7.00%   |         | 2.50%   |         | 7.00%    |         | 2.50%   |         | 2.67%    |         | 2.50%   |         | 4.00%   |         | 2.50%   |         | 7.00%   |         | 2.50%   |         | 7.00%   |         | 2.50%   |         | -4.00%   |         | -2.50%  |         | 7.00%   |         | 2.50%   |         | 7.00%    |         | -7.00%  |         | -5.71%  |         | 5.71%   |         |         |         |        |  |  |  |  |  |
| CURVE WIDENING          | 6.5  |         | 6.5     |         | 6.2      |         | 6.5      |         | 6.5     |         | 6.5     |         | 6.5      |         | 6.5     |         | 6.5      |         | 6.5     |         | 6.5     |         | 6.5     |         | 6.5     |         | 6.5     |         | 6.5   |         | 6.5     |         | 6.5      |         | 6.5     |         | 6.5     |         | 6.5     |         | 6.5      |         | 6.5     |         | 6.5     |         |         |         |         |         |        |  |  |  |  |  |
| VERTICAL SCHEMATIC      | L=50.0m  |         | G=-6.0  |         | L=132.5m |         | L=45.0m  |         | G=-1.1  |         | L=45.0m |         | L=202.5m |         | G=-4.6  |         | L=50.0m  |         | L=25.0m |         | G=-8.0  |         | L=40.0m |         | G=-2.3  |         | L=75.0m |         | L=40.0m   |         | G=-6.0  |         | L=122.5m |         | L=45.0m |         | G=-8.0  |         | L=35.0m |         |          |         |         |         |         |         |         |         |         |         |        |  |  |  |  |  |
| WIDENING/IMP PROPOSAL   | Widening on Right Side (Valley) with Geometric Improvement |         |         |         |          |         |          |         |         |         |         |         |          |         |         |         |          |         |         |         |         |         |         |         |         |         |         |         | Widening on Left Side (Hill) with Geometric Improvement |         |         |         |          |         |         |         |         |         |         |         |          |         |         |         |         |         |         |         |         |         |        |  |  |  |  |  |
| CHAINAGE                | 25+000   | 25+020  | 25+040  | 25+060  | 25+080   | 25+100  | 25+120   | 25+140  | 25+160  | 25+180  | 25+200  | 25+220  | 25+240   | 25+260  | 25+280  | 25+300  | 25+320   | 25+340  | 25+360  | 25+380  | 25+400  | 25+420  | 25+440  | 25+460  | 25+480  | 25+500  | 25+520  | 25+540  | 25+560  | 25+580  | 25+600  | 25+620  | 25+640   | 25+660  | 25+680  | 25+700  | 25+720  | 25+740  | 25+760  | 25+780  | 25+800   | 25+820  | 25+840  | 25+860  | 25+880  | 25+900  | 25+920  | 25+940  | 25+960  | 25+980  | 26+000 |  |  |  |  |  |

Notes :  
1) All Levels are in m unless otherwise indicated.

Legend :

- Proposed CL : [Red line]
- Proposed CW : [Blue line]
- Contours 20m Interval : [Red line]
- Contours 5m Interval : [Blue line]
- Proposed Major Bridge : [Green rectangle]
- Proposed Minor Bridge : [Blue rectangle]
- Proposed Pipe Culvert : [Blue rectangle]
- Proposed Slab Culvert : [Blue rectangle]
- Proposed Box Culvert : [Blue rectangle]
- Existing Road : [Grey line]
- Existing Hill : [Green area]
- Existing Valley : [Blue area]
- Existing Hill Cutting Line : [Red line]
- Existing Hill Toe Line : [Red line]
- Existing Valley Line : [Red line]
- Important Buildings : [Orange rectangle]
- Other Buildings/Huts/Tile house : [Blue rectangle]

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunheboto Road & Putsero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

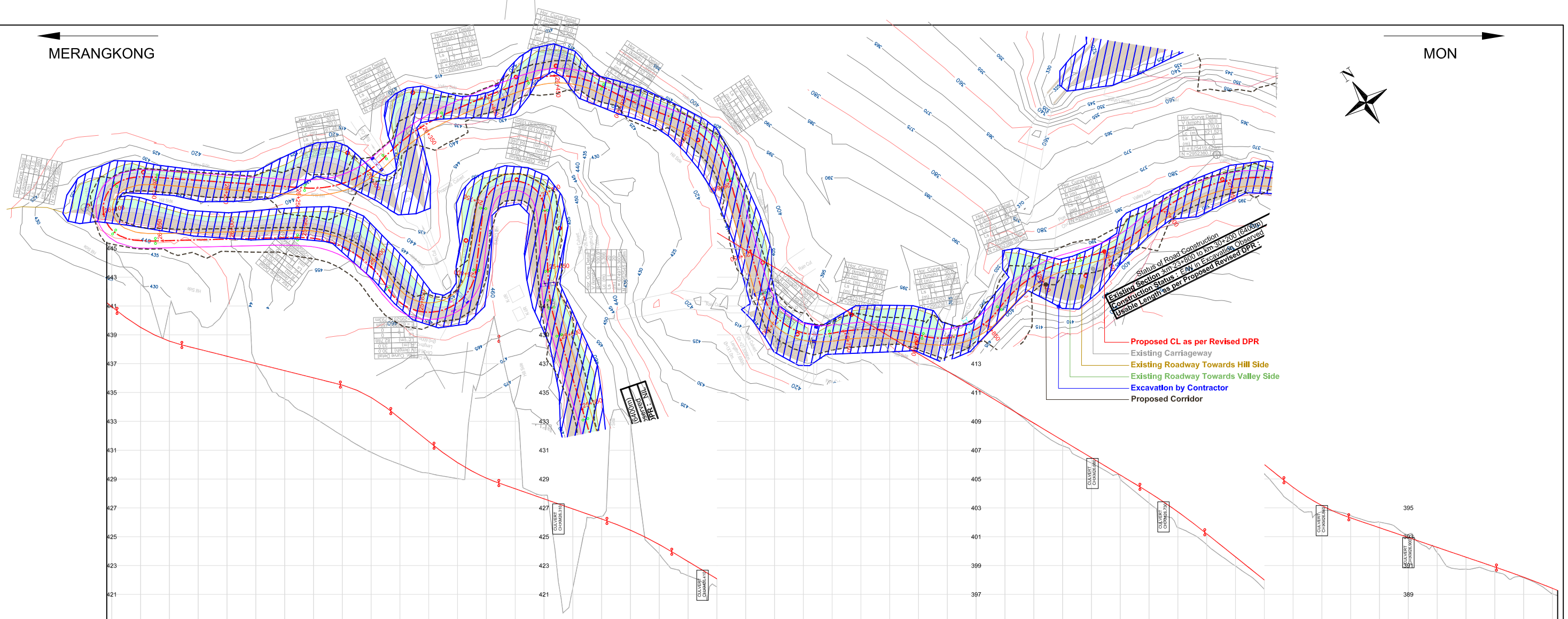
Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

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MERANGKONG

MON



Status of Road Construction  
 Existing Section 3km 23+300 to Km 30+200 (6400m)  
 Construction Status - EMI in Excavation Observed  
 Usable Lengths per Proposed Revised DPR:

- Proposed CL as per Revised DPR
- Existing Carriageway
- Existing Roadway Towards Hill Side
- Existing Roadway Towards Valley Side
- Excavation by Contractor
- Proposed Corridor

|                         |   |         |         |         |                    |         |         |         |          |         |  |         |                    |         |                     |         |                     |         |                    |         |                     |         |                    |         |         |         |                    |         |                     |         |                    |         |                    |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------|---|---------|---------|---------|--------------------|---------|---------|---------|----------|---------|--|---------|--------------------|---------|---------------------|---------|---------------------|---------|--------------------|---------|---------------------|---------|--------------------|---------|---------|---------|--------------------|---------|---------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)    | 440.954   | 440.954 | 439.517 | 438.561 | 438.015            | 437.515 | 437.015 | 436.515 | 436.015  | 435.513 | 434.657  | 433.204 | 431.804            | 430.137 | 429.064             | 428.326 | 427.626             | 426.926 | 426.226            | 425.452 | 424.460             | 423.280 | 422.080            | 420.880 | 419.680 | 418.480 | 417.280            | 416.080 | 414.880             | 413.680 | 412.480            | 411.280 | 410.080            | 408.880 | 407.680            | 406.480 | 405.280 | 404.071 | 402.726 | 401.204 | 399.604 | 398.004 | 396.424 | 395.158 | 394.300 | 393.620 | 392.940 | 392.260 | 391.580 | 390.900 | 390.192 | 389.419 |
| EXISTING LEVEL (NGL)    | 443.035   | 442.531 | 440.793 | 440.113 | 440.942            | 436.997 | 434.563 | 433.263 | 432.012  | 430.855 | 430.019  | 429.407 | 429.031            | 438.159 | 434.035             | 427.881 | 426.420             | 433.031 | 423.796            | 422.295 | 421.513             | 424.897 | 418.837            | 416.970 | 415.942 | 415.337 | 413.854            | 413.017 | 412.471             | 411.400 | 410.182            | 408.588 | 407.308            | 406.107 | 405.003            | 403.330 | 401.643 | 400.454 | 399.968 | 397.358 | 395.300 | 394.732 | 394.464 | 394.013 | 393.169 | 391.888 | 390.754 | 390.574 | 390.153 | 389.036 |         |         |
| LEVEL DIFF. (FRL - NGL) | -4.081  | -3.015  | -2.233  | -2.099  | -3.428             | 0.018   | 1.951   | 2.751   | 3.501    | 3.801   | 3.185  | 2.197   | 1.106              | -9.096  | -5.709              | -0.254  | 5.490               | -0.194  | -7.579             | 0.663   | 0.985               | 0.568   | -4.017             | 0.843   | 1.510   | 1.339   | 0.743              | 1.026   | 0.664               | 0.009   | -0.119             | -0.102  | 0.292              | 0.373   | 0.373              | 0.278   | 0.741   | 1.084   | 0.750   | 0.636   | 0.645   | 1.125   | 0.426   | -0.164  | -0.392  | -0.228  | 0.372   | 0.827   | 0.327   | 0.038   | 0.383   |         |
| HORIZONTAL              | L=98.7m   |         | L=30.0m |         | R=21.0m<br>L=38.0m |         | L=30.0m |         | L=102.9m |         |  |         | R=70.0m<br>L=61.5m |         | R=135.0m<br>L=49.9m |         | R=610.0m<br>L=63.7m |         | R=65.0m<br>L=53.5m |         | R=350.0m<br>L=52.2m |         | R=65.0m<br>L=61.7m |         | L=82.1m |         | R=40.0m<br>L=59.9m |         | R=140.0m<br>L=65.0m |         | R=50.0m<br>L=60.2m |         | R=87.1m<br>L=67.7m |         | R=87.1m<br>L=53.2m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION          | 2.50%   |         | 7.00%   |         | -2.50%             |         | -7.00%  |         | 2.50%    |         |  |         | 5.71%              |         | 2.96%               |         | 2.50%               |         | 6.15%              |         | 2.50%               |         | 6.15%              |         | 2.50%   |         | 7.00%              |         | 2.86%               |         | 7.00%              |         | 4.59%              |         | 4.59%              |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING          | 5.0   |         | 6.5     |         | 5.0                |         | 5.0     |         | 5.0      |         |  |         | 5.6                |         | 5.9                 |         | 5.9                 |         | 5.9                |         | 5.9                 |         | 5.9                |         | 5.9     |         | 5.9                |         | 5.9                 |         | 5.9                |         | 5.9                |         | 5.9                |         | 5.9     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC      | L=45.0m   |         | G=2.5   |         | L=110.0m           |         | L=35.0m |         | G=8.0    |         | L=45.0m  |         | G=3.5              |         | L=75.0m             |         | L=45.0m             |         | G=6.0              |         | L=325.0m            |         | L=45.0m            |         | G=8.0   |         | L=45.0m            |         | G=3.4               |         | L=102.5m           |         | L=50.0m            |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMP PROPOSAL   | Widening on Left Side (Hill) with Geometric Improvement |         |         |         |                    |         |         |         |          |         | Widening on Right Side (Hill) with Geometric Improvement |         |                    |         |                     |         |                     |         |                    |         |                     |         |                    |         |         |         |                    |         |                     |         |                    |         |                    |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                | 26+000  | 26+020  | 26+040  | 26+060  | 26+080             | 26+100  | 26+120  | 26+140  | 26+160   | 26+180  | 26+200   | 26+220  | 26+240             | 26+260  | 26+280              | 26+300  | 26+320              | 26+340  | 26+360             | 26+380  | 26+400              | 26+420  | 26+440             | 26+460  | 26+480  | 26+500  | 26+520             | 26+540  | 26+560              | 26+580  | 26+600             | 26+620  | 26+640             | 26+660  | 26+680             | 26+700  | 26+720  | 26+740  | 26+760  | 26+780  | 26+800  | 26+820  | 26+840  | 26+860  | 26+880  | 26+900  | 26+920  | 26+940  | 26+960  | 26+980  | 27+000  |         |

Notes :  
 1) All Levels are in m unless otherwise indicated.

- Legend :
- Proposed CL : [Red line]
  - Proposed CW : [Blue line]
  - Contours 20m Interval : [Red line]
  - Contours 5m Interval : [Blue line]
  - Proposed Major Bridge : [Green line]
  - Proposed Minor Bridge : [Blue line]
  - Proposed Pipe Culvert : [Blue line]
  - Proposed Slab Culvert : [Blue line]
  - Proposed Box Culvert : [Blue line]
  - Existing Road : [Grey line]
  - Existing Hill : [Brown area]
  - Existing Valley : [Green area]
  - Existing Hill Cutting Line : [Red line]
  - Existing Hill Toe Line : [Red line]
  - Existing Valley Line : [Red line]
  - Important Buildings : [Orange box]
  - Other Buildings/Huts/Tile house : [Blue box]

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

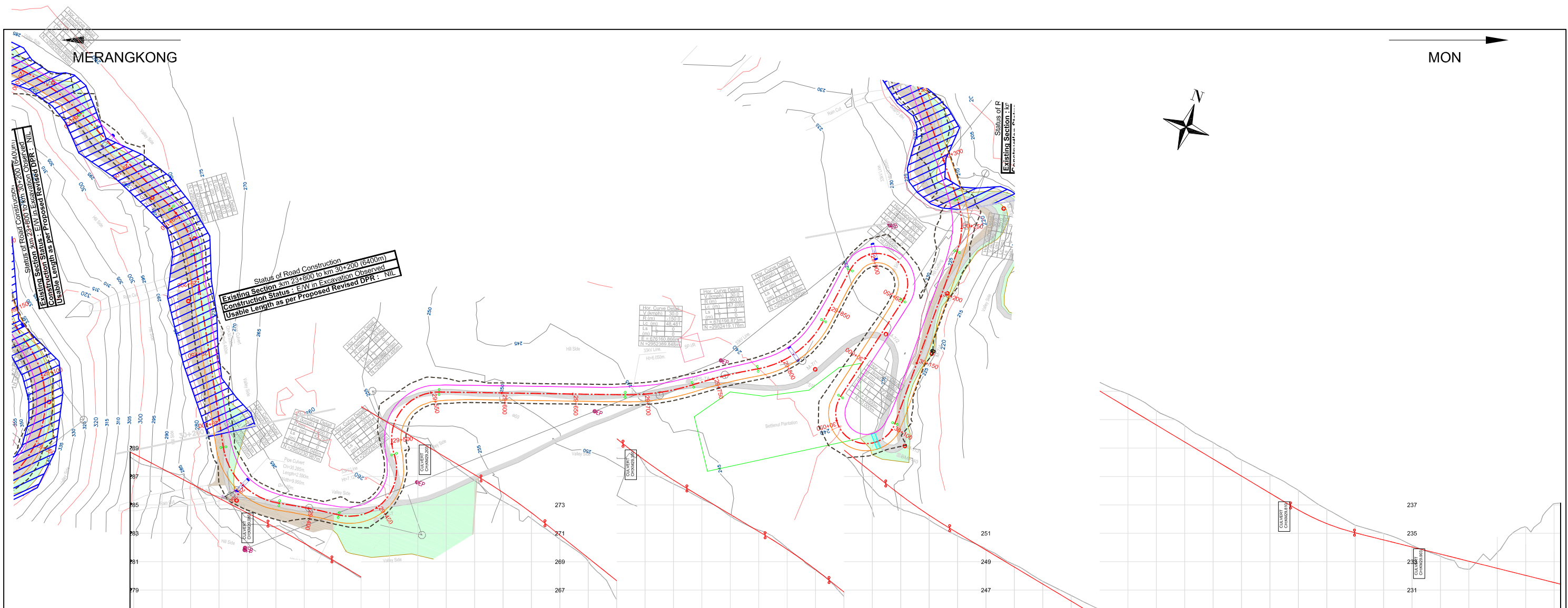
Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM-27



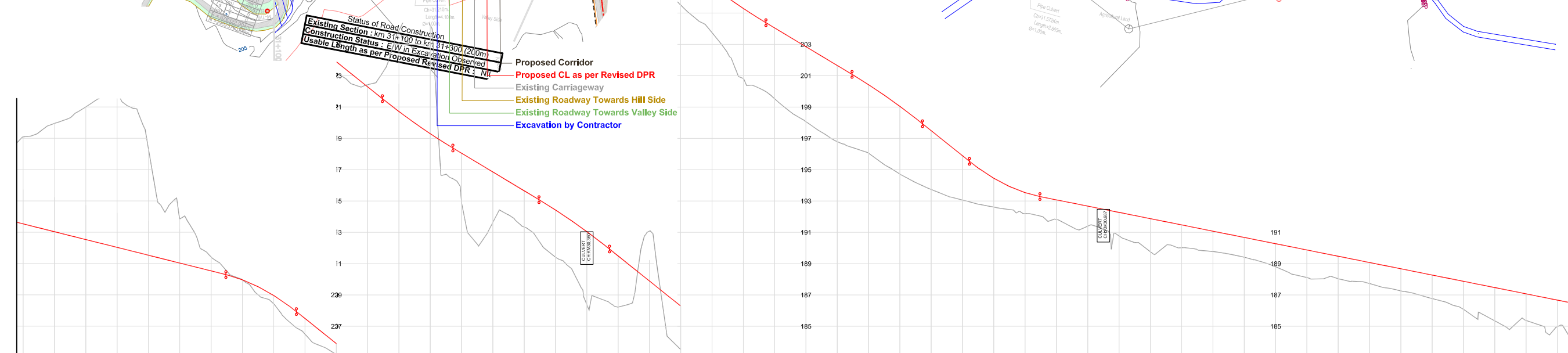
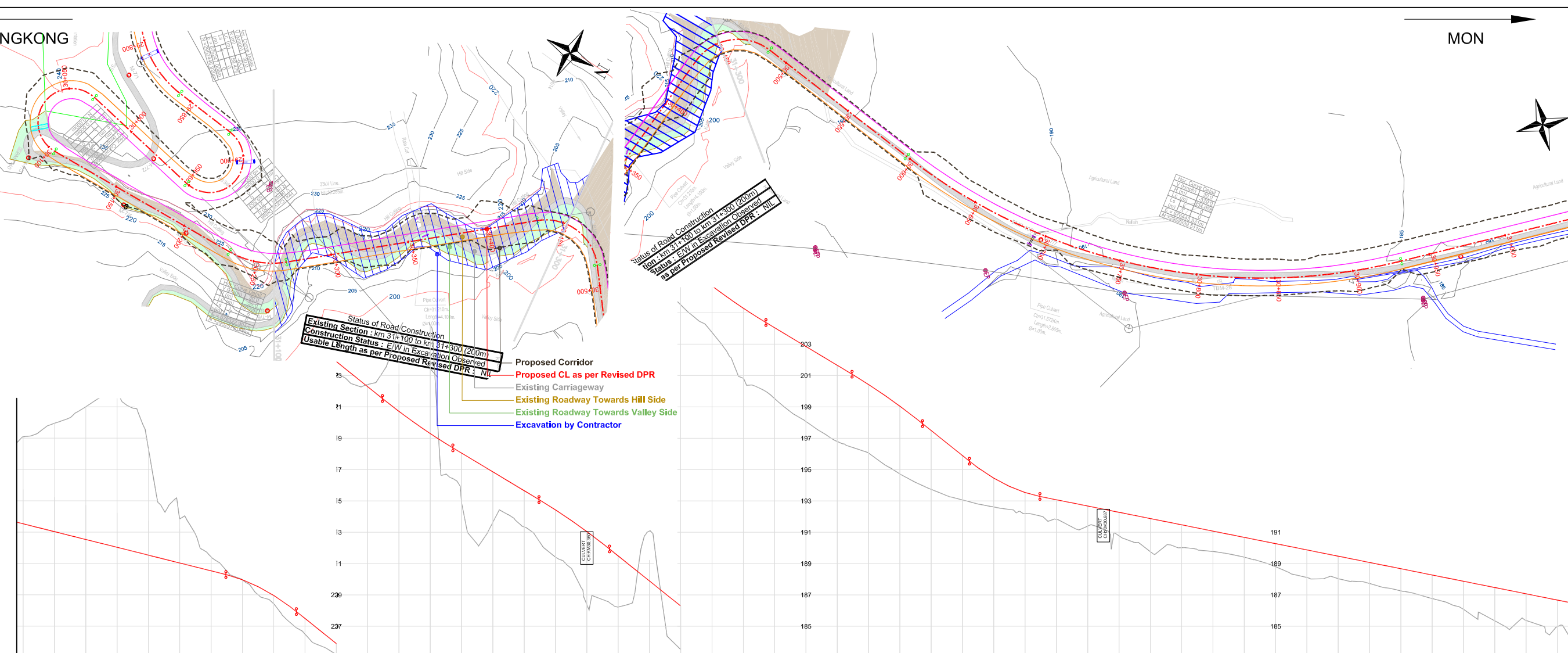




|                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       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  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
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| PROPOSED LEVEL (FRL) | 288.590 | 287.550 | 286.510 | 285.470 | 284.430 | 283.388 | 282.293 | 281.126 | 279.926 | 278.726 | 277.526 | 276.326 | 275.126 | 273.872 | 272.445 | 270.865 | 269.265 | 267.665 | 266.065 | 264.465 | 262.865 | 261.265 | 259.665 | 258.065 | 256.465 | 254.865 | 253.265 | 251.665 | 250.065 | 248.465 | 246.865 | 245.265 | 243.665 | 242.065 | 240.465 | 238.865 | 237.265 | 235.665 | 234.065 | 232.465 | 230.865 | 229.265 | 227.665 | 226.065 | 224.465 | 222.865 | 221.265 | 219.665 | 218.065 | 216.465 | 214.865 | 213.265 | 211.665 | 210.065 | 208.465 | 206.865 | 205.265 | 203.665 | 202.065 | 200.465 | 198.865 | 197.265 | 195.665 | 194.065 | 192.465 | 190.865 | 189.265 | 187.665 | 186.065 | 184.465 | 182.865 | 181.265 | 179.665 | 178.065 | 176.465 | 174.865 | 173.265 | 171.665 | 170.065 | 168.465 | 166.865 | 165.265 | 163.665 | 162.065 | 160.465 | 158.865 | 157.265 | 155.665 | 154.065 | 152.465 | 150.865 | 149.265 | 147.665 | 146.065 | 144.465 | 142.865 | 141.265 | 139.665 | 138.065 | 136.465 | 134.865 | 133.265 | 131.665 | 130.065 | 128.465 | 126.865 | 125.265 | 123.665 | 122.065 | 120.465 | 118.865 | 117.265 | 115.665 | 114.065 | 112.465 | 110.865 | 109.265 | 107.665 | 106.065 | 104.465 | 102.865 | 101.265 | 99.665 | 98.065 | 96.465 | 94.865 | 93.265 | 91.665 | 90.065 | 88.465 | 86.865 | 85.265 | 83.665 | 82.065 | 80.465 | 78.865 | 77.265 | 75.665 | 74.065 | 72.465 | 70.865 | 69.265 | 67.665 | 66.065 | 64.465 | 62.865 | 61.265 | 59.665 | 58.065 | 56.465 | 54.865 | 53.265 | 51.665 | 50.065 | 48.465 | 46.865 | 45.265 | 43.665 | 42.065 | 40.465 | 38.865 | 37.265 | 35.665 | 34.065 | 32.465 | 30.865 | 29.265 | 27.665 | 26.065 | 24.465 | 22.865 | 21.265 | 19.665 | 18.065 | 16.465 | 14.865 | 13.265 | 11.665 | 10.065 | 8.465 | 6.865 | 5.265 | 3.665 | 2.065 | 0.465 | -1.135 | -2.535 | -3.935 | -5.335 | -6.735 | -8.135 | -9.535 | -10.935 | -12.335 | -13.735 | -15.135 | -16.535 | -17.935 | -19.335 | -20.735 | -22.135 | -23.535 | -24.935 | -26.335 | -27.735 | -29.135 | -30.535 | -31.935 | -33.335 | -34.735 | -36.135 | -37.535 | -38.935 | -40.335 | -41.735 | -43.135 | -44.535 | -45.935 | -47.335 | -48.735 | -50.135 | -51.535 | -52.935 | -54.335 | -55.735 | -57.135 | -58.535 | -59.935 | -61.335 | -62.735 | -64.135 | -65.535 | -66.935 | -68.335 | -69.735 | -71.135 | -72.535 | -73.935 | -75.335 | -76.735 | -78.135 | -79.535 | -80.935 | -82.335 | -83.735 | -85.135 | -86.535 | -87.935 | -89.335 | -90.735 | -92.135 | -93.535 | -94.935 | -96.335 | -97.735 | -99.135 | -100.535 | -101.935 | -103.335 | -104.735 | -106.135 | -107.535 | -108.935 | -110.335 | -111.735 | -113.135 | -114.535 | -115.935 | -117.335 | -118.735 | -120.135 | -121.535 | -122.935 | -124.335 | -125.735 | -127.135 | -128.535 | -129.935 | -131.335 | -132.735 | -134.135 | -135.535 | -136.935 | -138.335 | -139.735 | -141.135 | -142.535 | -143.935 | -145.335 | -146.735 | -148.135 | -149.535 | -150.935 | -152.335 | -153.735 | -155.135 | -156.535 | -157.935 | -159.335 | -160.735 | -162.135 | -163.535 | -164.935 | -166.335 | -167.735 | -169.135 | -170.535 | -171.935 | -173.335 | -174.735 | -176.135 | -177.535 | -178.935 | -180.335 | -181.735 | -183.135 | -184.535 | -185.935 | -187.335 | -188.735 | -190.135 | -191.535 | -192.935 | -194.335 | -195.735 | -197.135 | -198.535 | -199.935 | -201.335 | -202.735 | -204.135 | -205.535 | -206.935 | -208.335 | -209.735 | -211.135 | -212.535 | -213.935 | -215.335 | -216.735 | -218.135 | -219.535 | -220.935 | -222.335 | -223.735 | -225.135 | -226.535 | -227.935 | -229.335 | -230.735 | -232.135 | -233.535 | -234.935 | -236.335 | -237.735 | -239.135 | -240.535 | -241.935 | -243.335 | -244.735 | -246.135 | -247.535 | -248.935 | -250.335 | -251.735 | -253.135 | -254.535 | -255.935 | -257.335 | -258.735 | -260.135 | -261.535 | -262.935 | -264.335 | -265.735 | -267.135 | -268.535 | -269.935 | -271.335 | -272.735 | -274.135 | -275.535 | -276.935 | -278.335 | -279.735 | -281.135 | -282.535 | -283.935 | -285.335 | -286.735 | -288.135 | -289.535 | -290.935 | -292.335 | -293.735 | -295.135 | -296.535 | -297.935 | -299.335 | -300.735 | -302.135 | -303.535 | -304.935 | -306.335 | -307.735 | -309.135 | -310.535 | -311.935 | -313.335 | -314.735 | -316.135 | -317.535 | -318.935 | -320.335 | -321.735 | -323.135 | -324.535 | -325.935 | -327.335 | -328.735 | -330.135 | -331.535 | -332.935 | -334.335 | -335.735 | -337.135 | -338.535 | -339.935 | -341.335 | -342.735 | -344.135 | -345.535 | -346.935 | -348.335 | -349.735 | -351.135 | -352.535 | -353.935 | -355.335 | -356.735 | -358.135 | -359.535 | -360.935 | -362.335 | -363.735 | -365.135 | -366.535 | -367.935 | -369.335 | -370.735 | -372.135 | -373.535 | -374.935 | -376.335 | -377.735 | -379.135 | -380.535 | -381.935 | -383.335 | -384.735 | -386.135 | -387.535 | -388.935 | -390.335 | -391.735 | -393.135 | -394.535 | -395.935 | -397.335 | -398.735 | -400.135 | -401.535 | -402.935 | -404.335 | -405.735 | -407.135 | -408.535 | -409.935 | -411.335 | -412.735 | -414.135 | -415.535 | -416.935 | -418.335 | -419.735 | -421.135 | -422.535 | -423.935 | -425.335 | -426.735 | -428.135 | -429.535 | -430.935 | -432.335 | -433.735 | -435.135 | -436.535 | -437.935 | -439.335 | -440.735 | -442.135 | -443.535 | -444.935 | -446.335 | -447.735 | -449.135 | -450.535 | -451.935 | -453.335 | -454.735 | -456.135 | -457.535 | -458.935 | -460.335 | -461.735 | -463.135 | -464.535 | -465.935 | -467.335 | -468.735 | -470.135 | -471.535 | -472.935 | -474.335 | -475.735 | -477.135 | -478.535 | -480.935 | -481.335 | -482.735 | -484.135 | -485.535 | -486.935 | -488.335 | -489.735 | -491.135 | -492.535 | -493.935 | -495.335 | -496.735 | -498.135 | -499.535 | -500.935 | -502.335 | -503.735 | -505.135 | -506.535 | -507.935 | -509.335 | -510.735 | -512.135 | -513.535 | -514.935 | -516.335 | -517.735 | -519.135 | -520.535 | -521.935 | -523.335 | -524.735 | -526.135 | -527.535 | -528.935 | -530.335 | -531.735 | -533.135 | -534.535 | -535.935 | -537.335 | -538.735 | -540.135 | -541.535 | -542.935 | -544.335 | -545.735 | -547.135 | -548.535 | -550.935 | -551.335 | -552.735 | -554.135 | -555.535 | -556.935 | -558.335 | -559.735 | -561.135 | -562.535 | -563.935 | -565.335 | -566.735 | -568.135 | -569.535 | -570.935 | -572.335 | -573.735 | -575.135 | -576.535 | -577.935 | -579.335 | -580.735 | -582.135 | -583.535 | -584.935 | -586.335 | -587.735 | -589.135 | -590.535 | -591.935 | -593.335 | -594.735 | -596.135 | -597.535 | -598.935 | -600.335 | -601.735 | -603.135 | -604.535 | -605.935 | -607.335 | -608.735 | -610.135 | -611.535 | -612.935 | -614.335 | -615.735 | -617.135 | -618.535 | -619.935 | -621.335 | -622.735 | -624.135 | -625.535 | -626.935 | -628.335 | -629.735 | -631.135 | -632.535 | -633.935 | -635.335 | -636.735 | -638.135 | -639.535 | -640.935 | -642.335 | -643.735 | -645.135 | -646.535 | -647.935 | -649.335 | -650.735 | -652.135 | -653.535 | -654.935 | -656.335 | -657.735 | -659.135 | -660.535 | -661.935 | -663.335 | -664.735 | -666.135 | -667.535 | -668.935 | -670.335 | -671.735 | -673.135 | -674.535 | -675.935 | -677.335 | -678.735 | -680.135 | -681.535 | -682.935 | -684.335 | -685.735 | -687.135 | -688.535 | -690.935 | -691.335 | -692.735 | -694.135 | -695.535 | -696.935 | -698.335 | -699.735 | -700.135 | -701.535 | -702.935 | -704.335 | -705.735 | -707.135 | -708.535 | -710.935 | -711.335 | -712.735 | -714.135 | -715.535 | -716.935 | -718.335 | -719.735 | -721.135 | -722.535 | -723.935 | -725.335 | -726.735 | -728.135 | -729.535 | -730.935 | -732.335 | -733.735 | -735.135 | -736.535 | -737.935 | -739.335 | -740.735 | -742.135 | -743.535 | -744.935 | -746.335 | -747.735 | -749.135 | -750.535 | -751.935 | -753.335 | -754.735 | -756.135 | -757.535 | -758.935 | -760.335 | -761.735 | -763.135 | -764.535 | -765.935 | -767.335 | -768.735 | -770.135 | -771.535 | -772.935 | -774.335 | -775.735 | -777.135 | -778.535 | -780.935 | -781.335 | -782.735 | -784.135 | -785.535 | -786.935 | -788.335 | -789.735 | -791.135 | -792.535 | -793.935 | -795.335 | -796.735 | -798.135 | -799.535 | -800.935 | -802.335 | -803.735 | -805.135 | -806.535 | -807.935 | -809.335 | -810.735 | -812.135 | -813.535 | -814.935 | -816.335 | -817.735 | -819.135 | -820.535 | -821.935 | -823.335 | -824.735 | -826.135 | -827.535 | -828.935 | -830.335 | -831.735 | -833.135 | -834.535 | -835.935 | -837.335 | -838.735 | -840.135 | -841.535 | -842.935 | -844.335 | -845.735 | -847.135 | -848.535 | -850.935 | -851.335 | -852.735 | -854.135 | -855.535 | -856.935 | -858.335 | -859.735 | -861.135 | -862.535 | -863.935 | -865.335 | -866.735 | -868.135 | -869.535 | -870.935 | -872.335 | -873.735 | -875.135 | -876.535 | -877.935 | -879.335 | -880.735 | -882.135 | -883.535 | -884.935 | -886.335 | -887.735 | -889.135 | -890.535 | -891.935 | -893.335 | -894.735 | -896.135 | -897.535 | -898.935 | -900.335 | -901.735 | -903.135 | -904.535 | -905.935 | -907.335 | -908.735 | -910.135 | -911.535 | -912.935 | -914.335 | -915.735 | -917.135 | -918.535 | -919.935 | -921.335 | -922.735 | -924.135 | -925.535 | -926.935 | -928.335 | -929.735 | -931.135 | -932.535 | -933.935 | -935.335 | -936.735 | -938.135 | -939.535 | -940.935 | -942.335 | -943.735 | -945.135 | -946.535 | -947.935 | -949.335 | -950.735 | -952.135 | -953.535 | -954.935 | -956.335 | -957.735 | -959.135 | -960.535 | -961.935 | -963.335 | -964.735 | -966.135 | -967.535 | -968.935 | -970.335 | -971.735 | -973.135 | -974.535 | -975.935 | -977.335 | -978.735 | -980.135 | -981.535 | -982.935 | -984.335 | -985.735 | -987.135 | -988.535 | -989.935 | -991.335 | -992.735 | -994.135 | -995.535 | -996.935 | -998.335 | -999.735 | -1000.135 | -1001.535 | -1002.935 | -1004.335 | -1005.735 | -1007.135 | -1008.535 | -1009.935 | -1011.335 | -1012.735 | -1014.135 | -1015.535 | -1016.935 | -1018.335 | -1019.735 | -1020.135 | -1021.535 | -1022.935 | -1024.335 | -1025.735 | -1027.135 | -1028.535 | -1029.935 | -1031.335 | -1032.735 | -1034.135 | -1035.535 | -1036.935 | -1038.335 | -1039.735 | -1040.135 | -1041.535 | -1042.935 | -1044.335 | -1045.735 | -1047.135 | -1048.535 | -1049.935 | -1051.335 | -1052.735 | -1054.135 | -1055.535 | -1056.935 | -1058.335 | -1059.735 | -1060.135 | -1061.535 | -1062.935 | -1064.335 | -1065.735 | -1067.135 | -1068.535 | -1069.935 | -1071.335 | -1072.735 | -1074.135 | -1075.535 | -1076.935 | -1078.335 | -1079.735 | -1080.135 | -1081.535 | -1082.935 | -1084.335 | -1085.735 | -1087.135 | -1088.535 | -1089.935 | -1091.335 | -1092.735 | -1094.135 | -1095.535 | -1096.935 | -1098.335 | -1099.735 | -1100.135 | -1101.535 | -1102.935 | -1104.335 | -1105.735 | -1107.135 | -1108.535 | -1109.935 | -1111.335 | -1112.735 | -1114.135 | -1115.535 | -1116.935 | -1118.335 | -1119.735 | -1120.135 | -1121.535 | -1122.935 | -1124.335 | -1125.735 | -1127.135 | -1128.535 | -1129.935 | -1131.335 | -1132.735 | -1134.135 | -1135.535 | -1136.935 | -1138.335 | -1139.735 | -1140.135 | -1141.535 | -1142.935 | -1144.335 | -1145.735 | -1147.135 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------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MERANGKONG

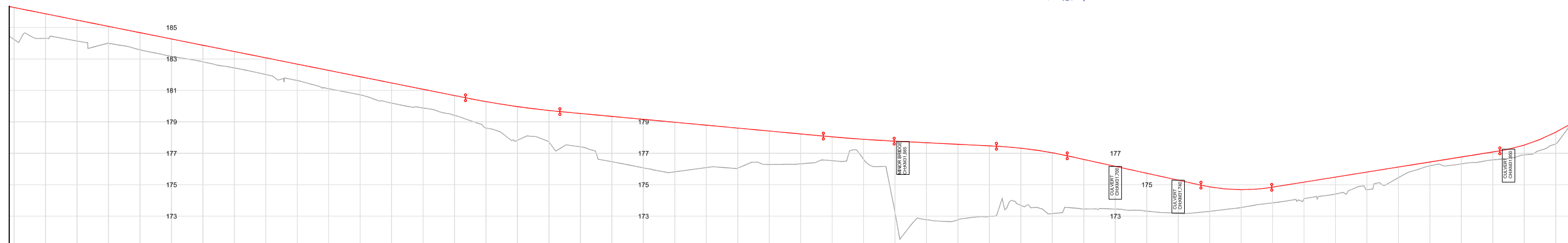
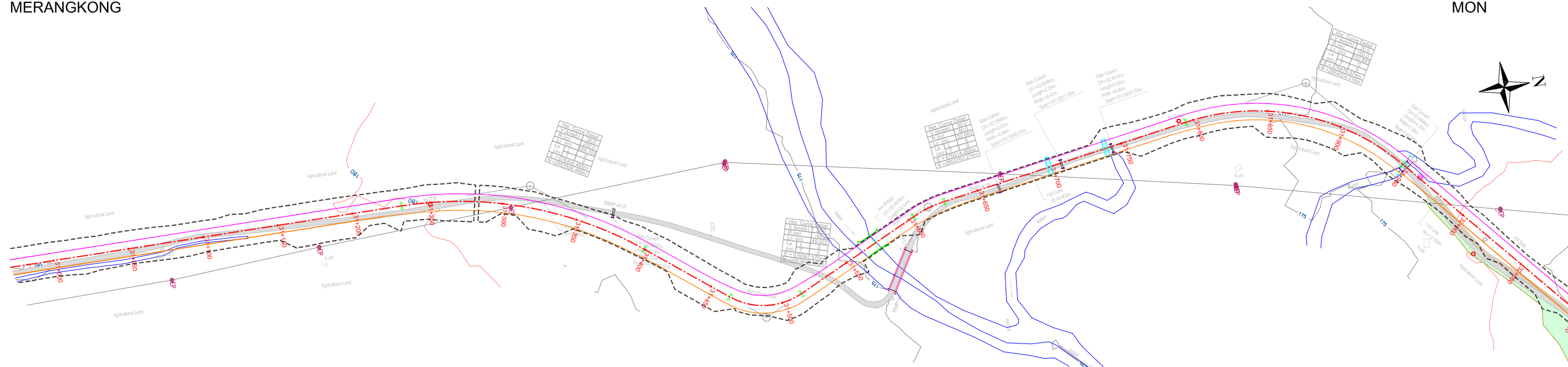
MON



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|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----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| PROPOSED LEVEL (FRL) | 231.533 | 231.033 | 230.533 | 230.033 | 229.533 | 229.033 | 228.533 | 227.965 | 226.963 | 225.490 | 223.890 | 222.290 | 220.715 | 219.298 | 218.051 | 216.851 | 215.651 | 214.426 | 213.044 | 211.490 | 209.890 | 208.290 | 206.715 | 205.298 | 204.051 | 202.851 | 201.651 | 200.426 | 199.044 | 197.490 | 195.890 | 194.451 | 193.532 | 193.073 | 192.673 | 192.273 | 191.873 | 191.473 | 191.073 | 189.673 | 188.273 | 186.873 | 185.473 | 184.073 | 182.673 | 181.273 | 179.873 | 178.473 | 177.073 | 175.673 | 174.273 | 172.873 | 171.473 | 170.073 | 168.673 | 167.273 | 165.873 | 164.473 | 163.073 | 161.673 | 160.273 | 158.873 | 157.473 | 156.073 | 154.673 | 153.273 | 151.873 | 150.473 | 149.073 | 147.673 | 146.273 | 144.873 | 143.473 | 142.073 | 140.673 | 139.273 | 137.873 | 136.473 | 135.073 | 133.673 | 132.273 | 130.873 | 129.473 | 128.073 | 126.673 | 125.273 | 123.873 | 122.473 | 121.073 | 119.673 | 118.273 | 116.873 | 115.473 | 114.073 | 112.673 | 111.273 | 109.873 | 108.473 | 107.073 | 105.673 | 104.273 | 102.873 | 101.473 | 100.073 | 98.673 | 97.273 | 95.873 | 94.473 | 93.073 | 91.673 | 90.273 | 88.873 | 87.473 | 86.073 | 84.673 | 83.273 | 81.873 | 80.473 | 79.073 | 77.673 | 76.273 | 74.873 | 73.473 | 72.073 | 70.673 | 69.273 | 67.873 | 66.473 | 65.073 | 63.673 | 62.273 | 60.873 | 59.473 | 58.073 | 56.673 | 55.273 | 53.873 | 52.473 | 51.073 | 49.673 | 48.273 | 46.873 | 45.473 | 44.073 | 42.673 | 41.273 | 39.873 | 38.473 | 37.073 | 35.673 | 34.273 | 32.873 | 31.473 | 30.073 | 28.673 | 27.273 | 25.873 | 24.473 | 23.073 | 21.673 | 20.273 | 18.873 | 17.473 | 16.073 | 14.673 | 13.273 | 11.873 | 10.473 | 9.073 | 7.673 | 6.273 | 4.873 | 3.473 | 2.073 | 0.673 | -0.723 | -2.123 | -3.523 | -4.923 | -6.323 | -7.723 | -9.123 | -10.523 | -11.923 | -13.323 | -14.723 | -16.123 | -17.523 | -18.923 | -20.323 | -21.723 | -23.123 | -24.523 | -25.923 | -27.323 | -28.723 | -30.123 | -31.523 | -32.923 | -34.323 | -35.723 | -37.123 | -38.523 | -39.923 | -41.323 | -42.723 | -44.123 | -45.523 | -46.923 | -48.323 | -49.723 | -51.123 | -52.523 | -53.923 | -55.323 | -56.723 | -58.123 | -59.523 | -60.923 | -62.323 | -63.723 | -65.123 | -66.523 | -67.923 | -69.323 | -70.723 | -72.123 | -73.523 | -74.923 | -76.323 | -77.723 | -79.123 | -80.523 | -81.923 | -83.323 | -84.723 | -86.123 | -87.523 | -88.923 | -90.323 | -91.723 | -93.123 | -94.523 | -95.923 | -97.323 | -98.723 | -100.123 | -101.523 | -102.923 | -104.323 | -105.723 | -107.123 | -108.523 | -109.923 | -111.323 | -112.723 | -114.123 | -115.523 | -116.923 | -118.323 | -119.723 | -121.123 | -122.523 | -123.923 | -125.323 | -126.723 | -128.123 | -129.523 | -130.923 | -132.323 | -133.723 | -135.123 | -136.523 | -137.923 | -139.323 | -140.723 | -142.123 | -143.523 | -144.923 | -146.323 | -147.723 | -149.123 | -150.523 | -151.923 | -153.323 | -154.723 | -156.123 | -157.523 | -158.923 | -160.323 | -161.723 | -163.123 | -164.523 | -165.923 | -167.323 | -168.723 | -170.123 | -171.523 | -172.923 | -174.323 | -175.723 | -177.123 | -178.523 | -179.923 | -181.323 | -182.723 | -184.123 | -185.523 | -186.923 | -188.323 | -189.723 | -191.123 | -192.523 | -193.923 | -195.323 | -196.723 | -198.123 | -199.523 | -200.923 | -202.323 | -203.723 | -205.123 | -206.523 | -207.923 | -209.323 | -210.723 | -212.123 | -213.523 | -214.923 | -216.323 | -217.723 | -219.123 | -220.523 | -221.923 | -223.323 | -224.723 | -226.123 | -227.523 | -228.923 | -230.323 | -231.723 | -233.123 | -234.523 | -235.923 | -237.323 | -238.723 | -240.123 | -241.523 | -242.923 | -244.323 | -245.723 | -247.123 | -248.523 | -249.923 | -251.323 | -252.723 | -254.123 | -255.523 | -256.923 | -258.323 | -259.723 | -261.123 | -262.523 | -263.923 | -265.323 | -266.723 | -268.123 | -269.523 | -270.923 | -272.323 | -273.723 | -275.123 | -276.523 | -277.923 | -279.323 | -280.723 | -282.123 | -283.523 | -284.923 | -286.323 | -287.723 | -289.123 | -290.523 | -291.923 | -293.323 | -294.723 | -296.123 | -297.523 | -298.923 | -300.323 | -301.723 | -303.123 | -304.523 | -305.923 | -307.323 | -308.723 | -310.123 | -311.523 | -312.923 | -314.323 | -315.723 | -317.123 | -318.523 | -319.923 | -321.323 | -322.723 | -324.123 | -325.523 | -326.923 | -328.323 | -329.723 | -331.123 | -332.523 | -333.923 | -335.323 | -336.723 | -338.123 | -339.523 | -340.923 | -342.323 | -343.723 | -345.123 | -346.523 | -347.923 | -349.323 | -350.723 | -352.123 | -353.523 | -354.923 | -356.323 | -357.723 | -359.123 | -360.523 | -361.923 | -363.323 | -364.723 | -366.123 | -367.523 | -368.923 | -370.323 | -371.723 | -373.123 | -374.523 | -375.923 | -377.323 | -378.723 | -380.123 | -381.523 | -382.923 | -384.323 | -385.723 | -387.123 | -388.523 | -389.923 | -391.323 | -392.723 | -394.123 | -395.523 | -396.923 | -398.323 | -399.723 | -401.123 | -402.523 | -403.923 | -405.323 | -406.723 | -408.123 | -409.523 | -410.923 | -412.323 | -413.723 | -415.123 | -416.523 | -417.923 | -419.323 | -420.723 | -422.123 | -423.523 | -424.923 | -426.323 | -427.723 | -429.123 | -430.523 | -431.923 | -433.323 | -434.723 | -436.123 | -437.523 | -438.923 | -440.323 | -441.723 | -443.123 | -444.523 | -445.923 | -447.323 | -448.723 | -450.123 | -451.523 | -452.923 | -454.323 | -455.723 | -457.123 | -458.523 | -459.923 | -461.323 | -462.723 | -464.123 | -465.523 | -466.923 | -468.323 | -469.723 | -471.123 | -472.523 | -473.923 | -475.323 | -476.723 | -478.123 | -479.523 | -480.923 | -482.323 | -483.723 | -485.123 | -486.523 | -487.923 | -489.323 | -490.723 | -492.123 | -493.523 | -494.923 | -496.323 | -497.723 | -499.123 | -500.523 | -501.923 | -503.323 | -504.723 | -506.123 | -507.523 | -508.923 | -510.323 | -511.723 | -513.123 | -514.523 | -515.923 | -517.323 | -518.723 | -520.123 | -521.523 | -522.923 | -524.323 | -525.723 | -527.123 | -528.523 | -529.923 | -531.323 | -532.723 | -534.123 | -535.523 | -536.923 | -538.323 | -539.723 | -541.123 | -542.523 | -543.923 | -545.323 | -546.723 | -548.123 | -549.523 | -550.923 | -552.323 | -553.723 | -555.123 | -556.523 | -557.923 | -559.323 | -560.723 | -562.123 | -563.523 | -564.923 | -566.323 | -567.723 | -569.123 | -570.523 | -571.923 | -573.323 | -574.723 | -576.123 | -577.523 | -578.923 | -580.323 | -581.723 | -583.123 | -584.523 | -585.923 | -587.323 | -588.723 | -590.123 | -591.523 | -592.923 | -594.323 | -595.723 | -597.123 | -598.523 | -600.923 | -601.323 | -602.723 | -604.123 | -605.523 | -606.923 | -608.323 | -609.723 | -611.123 | -612.523 | -613.923 | -615.323 | -616.723 | -618.123 | -619.523 | -620.923 | -622.323 | -623.723 | -625.123 | -626.523 | -627.923 | -629.323 | -630.723 | -632.123 | -633.523 | -634.923 | -636.323 | -637.723 | -639.123 | -640.523 | -641.923 | -643.323 | -644.723 | -646.123 | -647.523 | -648.923 | -650.323 | -651.723 | -653.123 | -654.523 | -655.923 | -657.323 | -658.723 | -660.123 | -661.523 | -662.923 | -664.323 | -665.723 | -667.123 | -668.523 | -669.923 | -671.323 | -672.723 | -674.123 | -675.523 | -676.923 | -678.323 | -679.723 | -681.123 | -682.523 | -683.923 | -685.323 | -686.723 | -688.123 | -689.523 | -690.923 | -692.323 | -693.723 | -695.123 | -696.523 | -697.923 | -699.323 | -700.723 | -702.123 | -703.523 | -704.923 | -706.323 | -707.723 | -709.123 | -710.523 | -711.923 | -713.323 | -714.723 | -716.123 | -717.523 | -718.923 | -720.323 | -721.723 | -723.123 | -724.523 | -725.923 | -727.323 | -728.723 | -730.123 | -731.523 | -732.923 | -734.323 | -735.723 | -737.123 | -738.523 | -739.923 | -741.323 | -742.723 | -744.123 | -745.523 | -746.923 | -748.323 | -749.723 | -751.123 | -752.523 | -753.923 | -755.323 | -756.723 | -758.123 | -759.523 | -760.923 | -762.323 | -763.723 | -765.123 | -766.523 | -767.923 | -769.323 | -770.723 | -772.123 | -773.523 | -774.923 | -776.323 | -777.723 | -779.123 | -780.523 | -781.923 | -783.323 | -784.723 | -786.123 | -787.523 | -788.923 | -790.323 | -791.723 | -793.123 | -794.523 | -795.923 | -797.323 | -798.723 | -800.123 | -801.523 | -802.923 | -804.323 | -805.723 | -807.123 | -808.523 | -809.923 | -811.323 | -812.723 | -814.123 | -815.523 | -816.923 | -818.323 | -819.723 | -820.123 | -821.523 | -822.923 | -824.323 | -825.723 | -827.123 | -828.523 | -829.923 | -831.323 | -832.723 | -834.123 | -835.523 | -836.923 | -838.323 | -839.723 | -841.123 | -842.523 | -843.923 | -845.323 | -846.723 | -848.123 | -849.523 | -850.923 | -852.323 | -853.723 | -855.123 | -856.523 | -857.923 | -859.323 | -860.723 | -862.123 | -863.523 | -864.923 | -866.323 | -867.723 | -869.123 | -870.523 | -871.923 | -873.323 | -874.723 | -876.123 | -877.523 | -878.923 | -880.323 | -881.723 | -883.123 | -884.523 | -885.923 | -887.323 | -888.723 | -890.123 | -891.523 | -892.923 | -894.323 | -895.723 | -897.123 | -898.523 | -899.923 | -901.323 | -902.723 | -904.123 | -905.523 | -906.923 | -908.323 | -909.723 | -911.123 | -912.523 | -913.923 | -915.323 | -916.723 | -918.123 | -919.523 | -920.923 | -922.323 | -923.723 | -925.123 | -926.523 | -927.923 | -929.323 | -930.723 | -932.123 | -933.523 | -934.923 | -936.323 | -937.723 | -939.123 | -940.523 | -941.923 | -943.323 | -944.723 | -946.123 | -947.523 | -948.923 | -950.323 | -951.723 | -953.123 | -954.523 | -955.923 | -957.323 | -958.723 | -960.123 | -961.523 | -962.923 | -964.323 | -965.723 | -967.123 | -968.523 | -969.923 | -971.323 | -972.723 | -974.123 | -975.523 | -976.923 | -978.323 | -979.723 | -981.123 | -982.523 | -983.923 | -985.323 | -986.723 | -988.123 | -989.523 | -990.923 | -992.323 | -993.723 | -995.123 | -996.523 | -997.923 | -999.323 | -1000.723 | -1002.123 | -1003.523 | -1004.923 | -1006.323 | -1007.723 | -1009.123 | -1010.523 | -1011.923 | -1013.323 | -1014.723 | -1016.123 | -1017.523 | -1018.923 | -1020.323 | -1021.723 | -1023.123 | -1024.523 | -1025.923 | -1027.323 | -1028.723 | -1030.123 | -1031.523 | -1032.923 | -1034.323 | -1035.723 | -1037.123 | -1038.523 | -1039.923 | -1041.323 | -1042.723 | -1044.123 | -1045.523 | -1046.923 | -1048.323 | -1049.723 | -1051.123 | -1052.523 | -1053.923 | -1055.323 | -1056.723 | -1058.123 | -1059.523 | -1060.923 | -1062.323 | -1063.723 | -1065.123 | -1066.523 | -1067.923 | -1069.323 | -1070.723 | -1072.123 | -1073.523 | -1074.923 | -1076.323 | -1077.723 | -1079.123 | -1080.523 | -1081.923 | -1083.323 | -1084.723 | -1086.123 | -1087.523 | -1088.923 | -1090.323 | -1091.723 | -1093.123 | -1094.523 | -1095.923 | -1097.323 | -1098.723 | -1100.123 | -1101.523 | -1102.923 | -1104.323 | -1105.723 | -1107.123 | -1108.523 | -1109.923 | -1111.323 | -1112.723 | -1114.123 | -1115.523 | -1116.923 | -1118.323 | -1119.723 | -1120.123 | -1121.523 | -1122.923 | -1124.323 | -1125.723 | -1127.123 | -1128.523 | -1129.923 | -1131.323 | -1132.723 | -1134.123 | -1135.523 | -1136.923 | -1138.323 | -1139.723 | -1141.123 | -1142.523 | -1143.923 | -1145.323 | -1146.723 | -1148.123 | -1149.523 | -1150.923 | -1152.323 | -1153.723 | -1155.123 | -1156.523 | -1157.923 | -1159.323 | -1160.723 | -1162.123 | -1163.523 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----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MERANGKONG

MON



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|-------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|---------|---------|---------|---------|---------|---------|---------|--------------------|---------|---|---------|---------|--------------------|---------|--|---------|---------|---------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)    | 184.241  | 184.316 | 184.143 | 183.998 | 185.073 | 184.673 | 184.273 | 183.873 | 183.473 | 183.073 | 182.673  | 182.273 | 181.873 | 181.473 | 181.073 | 180.673 | 180.288 | 179.970 | 179.724            | 179.533 | 179.347   | 179.161 | 178.975 | 178.789            | 178.603 | 178.417  | 178.231 | 178.047 | 177.891 | 177.772 | 177.672              | 177.572 | 177.472 | 177.327 | 177.034 | 176.611 | 176.171 | 175.731 | 175.291 | 174.864 | 174.686 | 174.846 | 175.166 | 175.486 | 175.806 | 176.126 | 176.446 | 176.766 | 177.086 | 177.524 | 178.344 | 179.500 |
| EXISTING LEVEL (NGL)    | 184.241  | 184.316 | 184.143 | 183.998 | 185.073 | 184.673 | 184.273 | 183.873 | 183.473 | 183.073 | 182.673  | 182.273 | 181.873 | 181.473 | 181.073 | 180.673 | 180.288 | 179.970 | 179.724            | 179.533 | 179.347   | 179.161 | 178.975 | 178.789            | 178.603 | 178.417  | 178.231 | 178.047 | 177.891 | 177.772 | 177.672              | 177.572 | 177.472 | 177.327 | 177.034 | 176.611 | 176.171 | 175.731 | 175.291 | 174.864 | 174.686 | 174.846 | 175.166 | 175.486 | 175.806 | 176.126 | 176.446 | 176.766 | 177.086 | 177.524 | 178.344 | 180.536 |
| LEVEL DIFF. (FRL - NGL) | 2.031  | 1.557   | 1.330   | 1.075   | 1.089   | 1.107   | 1.054   | 1.041   | 1.062   | 1.039   | 1.163  | 1.153   | 1.282   | 1.192   | 1.255   | 1.680   | 2.142   | 2.008   | 2.119              | 2.882   | 3.087   | 3.153   | 2.898   | 2.550              | 2.131   | 1.901  | 1.515   | 1.272   | 4.548   | 4.899   | 4.802                | 4.496   | 3.635   | 3.868   | 3.153   | 2.718   | 2.410   | 2.113   | 1.555   | 1.134   | 1.000   | 1.052   | 1.079   | 1.124   | 0.674   | 0.247   | 0.439   | 0.504   | 0.626   | 0.747   | -1.035  |         |
| HORIZONTAL              | L=301.4m                                       |         |         |         |         |         |         |         |         |         | R=250.0m<br>L=166.1m   |         |         |         |         | L=65.1m |         |         | R=45.0m<br>L=49.9m |         | L=90.1m   |         |         | R=80.0m<br>L=22.7m |         | L=168.3m                                       |         |         |         |         | R=150.0m<br>L=152.7m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION          | 2.50%  |         |         |         |         |         |         |         |         |         | 2.50%  |         |         |         |         | 2.50%   |         |         | 7.00%              |         | 2.50%   |         |         | 5.00%              |         | 2.50%  |         |         |         |         | 2.67%                |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING          | -2.50%   |         |         |         |         |         |         |         |         |         | -2.50%   |         |         |         |         | -2.50%  |         |         | -7.00%             |         | -2.50%  |         |         | -5.00%             |         | -2.50%   |         |         |         |         | -2.67%               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC      | L=60.0m  |         |         |         |         |         |         |         |         |         | G=-0.9<br>L=167.5m   |         |         |         |         | L=45.0m |         |         | G=-0.5<br>L=65.0m  |         | L=45.0m   |         |         | G=2.2<br>L=85.0m   |         | L=45.0m  |         |         |         |         | G=1.6<br>L=145.0m    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMP PROPOSAL   | Concentric Widening with Geometric Improvement |         |         |         |         |         |         |         |         |         | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm, DBM = 50MM, WMM = 250mm, GSB = 150mm, SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |         |         |         |         |         |         |                    |         | Widening on Left Side (Hill) with Geometric Improvement |         |         |                    |         | Concentric Widening with Geometric Improvement |         |         |         |         |                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                | 31+000   | 31+020  | 31+040  | 31+060  | 31+080  | 31+100  | 31+120  | 31+140  | 31+160  | 31+180  | 31+200   | 31+220  | 31+240  | 31+260  | 31+280  | 31+300  | 31+320  | 31+340  | 31+360             | 31+380  | 31+400  | 31+420  | 31+440  | 31+460             | 31+480  | 31+500   | 31+520  | 31+540  | 31+560  | 31+580  | 31+600               | 31+620  | 31+640  | 31+660  | 31+680  | 31+700  | 31+720  | 31+740  | 31+760  | 31+780  | 31+800  | 31+820  | 31+840  | 31+860  | 31+880  | 31+900  | 31+920  | 31+940  | 31+960  | 31+980  | 32+000  |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

**Legend :**

- Proposed CL : [Red line]
- Proposed CW : [Blue line]
- Contours 20m Interval : [Red line]
- Contours 5m Interval : [Blue line]
- Proposed Major Bridge : [Green box]
- Proposed Minor Bridge : [Blue box]
- Proposed Pipe Culvert : [Blue box]
- Proposed Slab Culvert : [Blue box]
- Proposed Box Culvert : [Blue box]
- Existing Road : [Grey line]
- Existing Hill : [Green line]
- Existing Valley : [Blue line]
- Existing Hill Cutting Line : [Red line]
- Existing Hill Toe Line : [Red line]
- Existing Valley Line : [Blue line]
- Important Buildings : [Orange box]
- Other Buildings/Huts/Tile house : [Blue box]

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector-29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

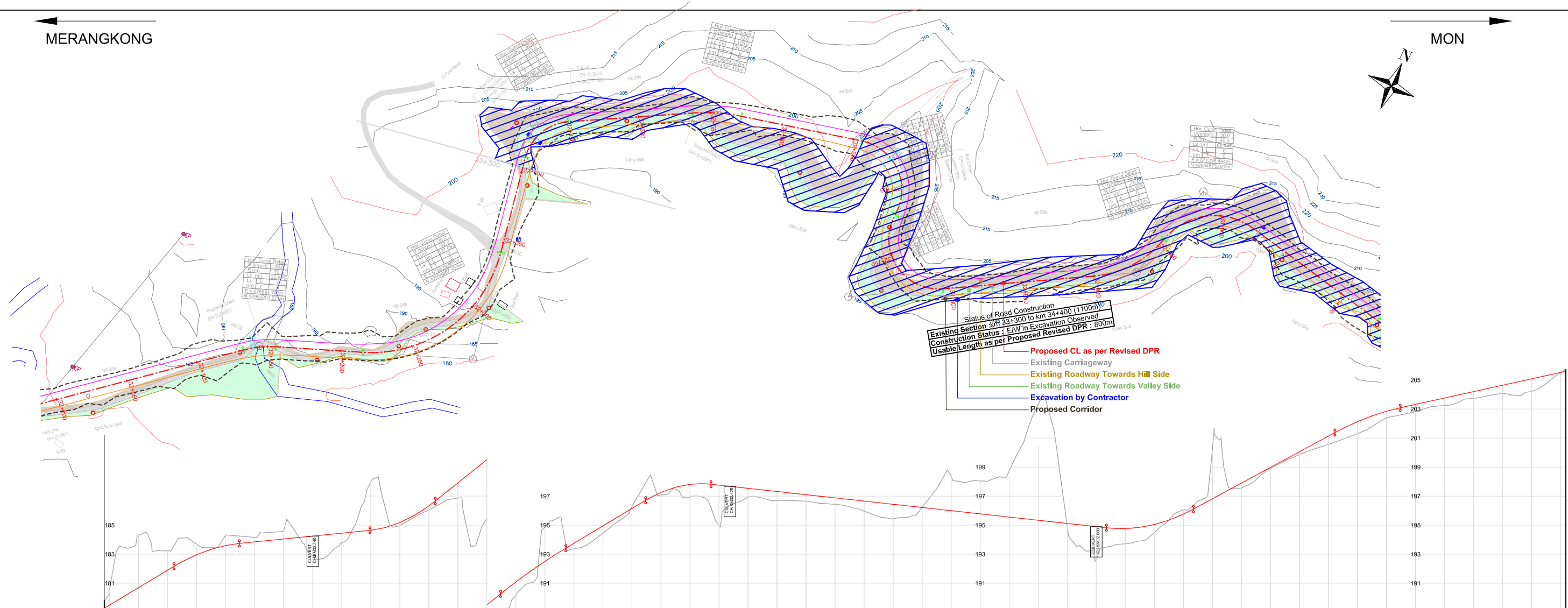
Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM-32

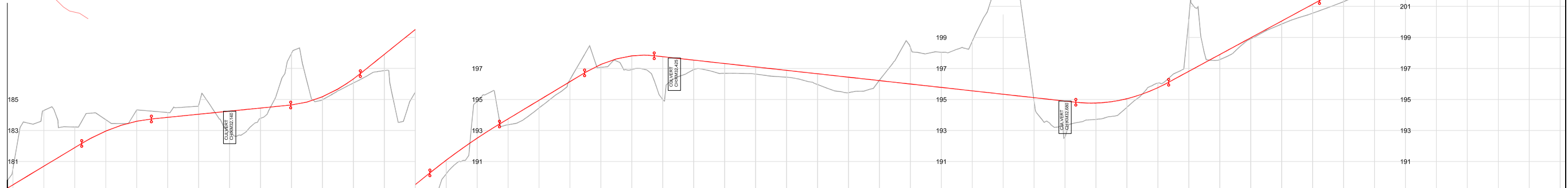
MERANGKONG

MON



Status of Road Construction  
 Existing Section 3km 33+300 to km 34+400 (1100m)  
 Construction Status : E/W in Excavation Observed  
 Usable Length as per Proposed Revised DPR : 800m

Proposed CL as per Revised DPR  
 Existing Carriageway  
 Existing Roadway Towards Hill Side  
 Existing Roadway Towards Valley Side  
 Excavation by Contractor  
 Proposed Corridor



|                         |   |         |                    |         |         |         |                     |         |         |         |                    |         |         |         |                     |         |         |         |                    |         |                    |         |                   |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------|---|---------|--------------------|---------|---------|---------|---------------------|---------|---------|---------|--------------------|---------|---------|---------|---------------------|---------|---------|---------|--------------------|---------|--------------------|---------|-------------------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)    | 179.500   | 180.700 | 181.900            | 182.966 | 183.598 | 183.848 | 184.048             | 184.246 | 184.448 | 184.648 | 185.176            | 186.326 | 187.911 | 189.511 | 191.086             | 192.504 | 193.750 | 194.950 | 196.150            | 197.262 | 197.814            | 197.759 | 197.539           | 197.319 | 197.099            | 196.879 | 196.659 | 196.439 | 196.219 | 195.999 | 195.779 | 195.559 | 195.339 | 195.119 | 194.899 | 194.771 | 194.550 | 194.330 | 194.110 | 193.890 | 193.670 | 193.450 | 193.230 | 193.010 | 192.790 | 192.570 | 192.350 | 192.130 | 191.910 | 191.690 | 191.470 | 191.250 | 191.030 | 190.810 | 190.590 | 190.370 | 190.150 | 189.930 | 189.710 | 189.490 | 189.270 | 189.050 | 188.830 | 188.610 | 188.390 | 188.170 | 187.950 | 187.730 | 187.510 | 187.290 | 187.070 | 186.850 | 186.630 | 186.410 | 186.190 | 185.970 | 185.750 | 185.530 | 185.310 | 185.090 | 184.870 | 184.650 | 184.430 | 184.210 | 183.990 | 183.770 | 183.550 | 183.330 | 183.110 | 182.890 | 182.670 | 182.450 | 182.230 | 182.010 | 181.790 | 181.570 | 181.350 | 181.130 | 180.910 | 180.690 | 180.470 | 180.250 | 180.030 | 179.810 | 179.590 | 179.370 | 179.150 | 178.930 | 178.710 | 178.490 | 178.270 | 178.050 | 177.830 | 177.610 | 177.390 | 177.170 | 176.950 | 176.730 | 176.510 | 176.290 | 176.070 | 175.850 | 175.630 | 175.410 | 175.190 | 174.970 | 174.750 | 174.530 | 174.310 | 174.090 | 173.870 | 173.650 | 173.430 | 173.210 | 172.990 | 172.770 | 172.550 | 172.330 | 172.110 | 171.890 | 171.670 | 171.450 | 171.230 | 171.010 | 170.790 | 170.570 | 170.350 | 170.130 | 169.910 | 169.690 | 169.470 | 169.250 | 169.030 | 168.810 | 168.590 | 168.370 | 168.150 | 167.930 | 167.710 | 167.490 | 167.270 | 167.050 | 166.830 | 166.610 | 166.390 | 166.170 | 165.950 | 165.730 | 165.510 | 165.290 | 165.070 | 164.850 | 164.630 | 164.410 | 164.190 | 163.970 | 163.750 | 163.530 | 163.310 | 163.090 | 162.870 | 162.650 | 162.430 | 162.210 | 161.990 | 161.770 | 161.550 | 161.330 | 161.110 | 160.890 | 160.670 | 160.450 | 160.230 | 160.010 | 159.790 | 159.570 | 159.350 | 159.130 | 158.910 | 158.690 | 158.470 | 158.250 | 158.030 | 157.810 | 157.590 | 157.370 | 157.150 | 156.930 | 156.710 | 156.490 | 156.270 | 156.050 | 155.830 | 155.610 | 155.390 | 155.170 | 154.950 | 154.730 | 154.510 | 154.290 | 154.070 | 153.850 | 153.630 | 153.410 | 153.190 | 152.970 | 152.750 | 152.530 | 152.310 | 152.090 | 151.870 | 151.650 | 151.430 | 151.210 | 150.990 | 150.770 | 150.550 | 150.330 | 150.110 | 149.890 | 149.670 | 149.450 | 149.230 | 149.010 | 148.790 | 148.570 | 148.350 | 148.130 | 147.910 | 147.690 | 147.470 | 147.250 | 147.030 | 146.810 | 146.590 | 146.370 | 146.150 | 145.930 | 145.710 | 145.490 | 145.270 | 145.050 | 144.830 | 144.610 | 144.390 | 144.170 | 143.950 | 143.730 | 143.510 | 143.290 | 143.070 | 142.850 | 142.630 | 142.410 | 142.190 | 141.970 | 141.750 | 141.530 | 141.310 | 141.090 | 140.870 | 140.650 | 140.430 | 140.210 | 140.000 |
| EXISTING LEVEL (NGL)    | 180.536   | 184.292 | 185.228            | 183.695 | 184.328 | 184.162 | 184.618             | 182.894 | 183.781 | 187.972 | 184.981            | 186.063 | 186.861 | 185.470 | 190.205             | 194.868 | 193.370 | 194.453 | 196.282            | 197.071 | 196.930            | 194.994 | 196.934           | 196.688 | 196.636            | 196.439 | 196.439 | 196.240 | 196.219 | 196.369 | 198.045 | 192.565 | 194.899 | 198.744 | 196.165 | 196.060 | 197.568 | 198.908 | 199.863 | 200.564 | 201.306 | 202.131 | 202.409 | 202.811 | 203.241 | 203.738 | 204.060 | 204.221 | 205.080 | 205.532 | 205.520 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| LEVEL DIFF. (FRL - NGL) | -1.035  | -3.591  | -1.327             | -0.730  | -0.730  | -0.313  | -0.570              | 1.355   | 0.667   | -3.324  | 0.195              | 0.263   | 1.049   | 4.040   | 0.882               | -2.365  | 0.381   | 0.497   | -0.131             | 0.191   | 0.884              | 2.766   | 0.606             | 0.632   | 0.464              | 0.441   | 0.695   | 0.998   | -0.020  | -2.369  | -2.266  | -3.185  | -7.978  | 0.214   | 2.335   | 1.054   | 0.552   | -0.296  | -3.348  | 0.329   | 0.069   | 0.193   | 0.572   | 0.825   | 0.439   | 0.509   | 0.518   | 0.462   | 0.579   | 0.859   | -0.013  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL              | L=185.2m  |         | R=70.0m<br>L=22.6m |         | L=60.3m |         | R=92.0m<br>L=127.1m |         | L=67.6m |         | R=33.0m<br>L=41.2m |         | L=85.7m |         | R=125.0m<br>L=34.0m |         | L=84.8m |         | R=34.3m<br>L=64.7m |         | R=34.3m<br>L=74.6m |         | L=104.6m          |         | R=70.0m<br>L=55.9m |         | L=68.4m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION          | 2.50%   |         | 5.71%              |         | 2.50%   |         | 4.35%               |         | 2.50%   |         | 7.00%              |         | 2.50%   |         | 3.20%               |         | 2.50%   |         | 7.00%              |         | 7.00%              |         | 2.50%             |         | 5.71%              |         | 7.00%   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING          | 5.9   |         | 5.9                |         | 5.9     |         | 5.9                 |         | 5.9     |         | 6.5                |         | 6.5     |         | 6.5                 |         | 6.5     |         | 6.5                |         | 6.5                |         | 6.5               |         | 5.9                |         | 6.2     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC      | G=6.0<br>L=55.0m  |         | G=1.0<br>L=90.0m   |         | L=45.0m |         | G=8.0<br>L=45.0m    |         | L=45.0m |         | G=6.0<br>L=55.0m   |         | L=45.0m |         | G=-1.1<br>L=272.5m  |         | L=60.0m |         | L=97.5m<br>G=5.4   |         | L=45.0m            |         | G=2.2<br>L=140.0m |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMP PROPOSAL   | Widening on Left Side (Hill) with Geometric Improvement<br>BC = 30mm, DBM = 50MM, WMM = 250mm, GSB = 150mm, SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |                    |         |         |         |                     |         |         |         |                    |         |         |         |                     |         |         |         |                    |         |                    |         |                   |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                | 32+000  | 32+020  | 32+040             | 32+060  | 32+080  | 32+100  | 32+120              | 32+140  | 32+160  | 32+180  | 32+200             | 32+220  | 32+240  | 32+260  | 32+280              | 32+300  | 32+320  | 32+340  | 32+360             | 32+380  | 32+400             | 32+420  | 32+440            | 32+460  | 32+480             | 32+500  | 32+520  | 32+540  | 32+560  | 32+580  | 32+600  | 32+620  | 32+640  | 32+660  | 32+680  | 32+700  | 32+720  | 32+740  | 32+760  | 32+780  | 32+800  | 32+820  | 32+840  | 32+860  | 32+880  | 32+900  | 32+920  | 32+940  | 32+960  | 32+980  | 33+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
 1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed CW :           | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  |                                   |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunheboto Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

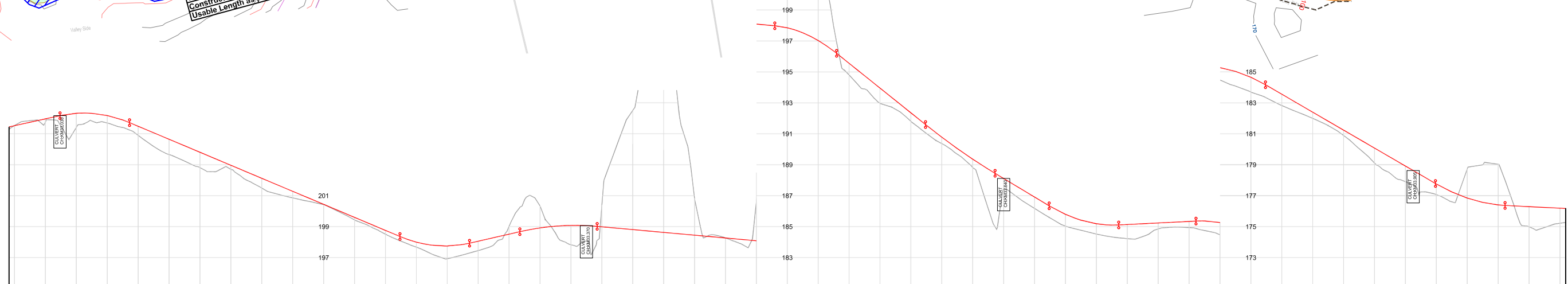
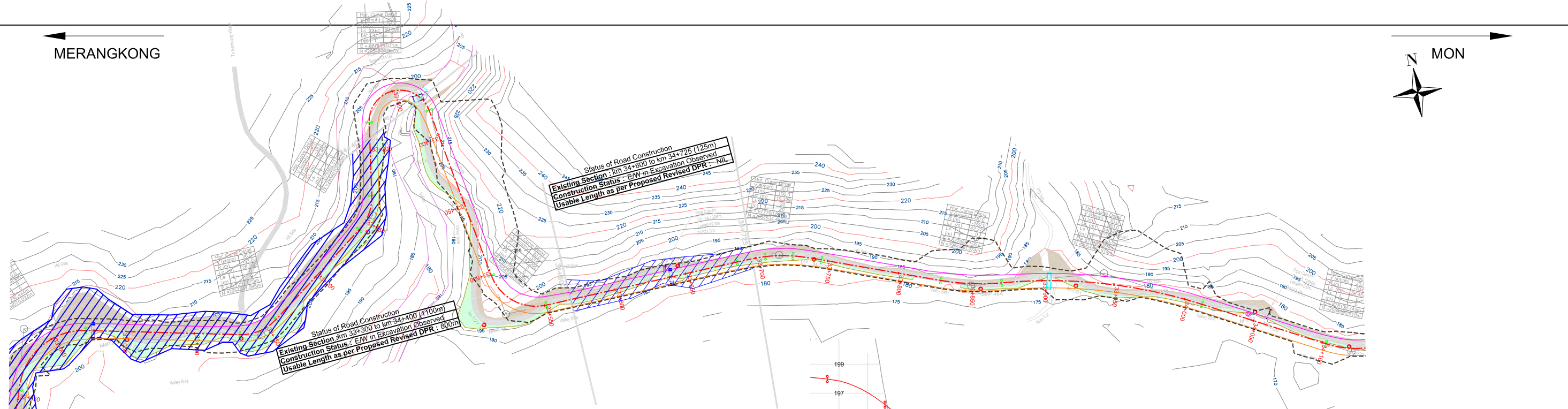
Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM - 33

MERANGKONG

MON



|                         |   |         |                    |         |          |         |                    |         |         |         |                    |         |         |         |                    |         |          |         |                    |         |          |         |                     |         |         |         |                    |         |  |         |                      |         |                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
|-------------------------|---|---------|--------------------|---------|----------|---------|--------------------|---------|---------|---------|--------------------|---------|---------|---------|--------------------|---------|----------|---------|--------------------|---------|----------|---------|---------------------|---------|---------|---------|--------------------|---------|--|---------|----------------------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| PROPOSED LEVEL (FRL)    | 205.520   | 205.532 | 205.560            | 205.660 | 206.176  | 205.484 | 204.643            | 203.803 | 202.962 | 202.122 | 201.281            | 200.440 | 199.600 | 198.759 | 198.000            | 197.752 | 198.059  | 198.514 | 198.916            | 199.078 | 198.989  | 198.809 | 198.628             | 198.448 | 198.267 | 198.086 | 197.848            | 197.028 | 195.554  | 193.954 | 192.354              | 190.779 | 189.362              | 188.115 | 186.915 | 185.795 | 185.189 | 184.224 | 185.138 | 185.238 | 185.338 | 185.269 | 184.654 | 183.556 | 182.396 | 181.236 | 180.076 | 178.916 | 177.756 | 176.845 | 176.404 | 176.292 | 175.192 |  |  |  |
| EXISTING LEVEL (NGL)    | 205.532   | 205.749 | 205.404            | 205.696 | 206.176  | 204.897 | 203.656            | 202.810 | 202.701 | 201.492 | 200.859            | 200.430 | 199.435 | 198.514 | 197.676            | 196.928 | 197.452  | 199.019 | 200.340            | 197.830 | 200.382  | 206.502 | 212.273             | 200.827 | 198.270 | 200.611 | 205.639            | 201.399 | 194.804  | 192.968 | 191.807              | 190.368 | 188.820              | 187.480 | 186.181 | 185.039 | 184.522 | 184.224 | 184.851 | 184.938 | 184.474 | 183.699 | 182.825 | 181.997 | 180.694 | 179.111 | 177.907 | 177.068 | 176.729 | 179.034 | 174.991 | 175.220 |         |  |  |  |
| LEVEL DIFF. (FRL - NGL) | -0.013  | 0.211   | 0.916              | 0.480   | 0.588    | 0.985   | 0.992              | 0.262   | 0.630   | 0.423   | 0.011              | 0.165   | 0.246   | 0.324   | 0.825              | 0.607   | -0.505   | -1.425  | 1.248              | -1.392  | -7.694   | -13.645 | -2.379              | -0.003  | -2.524  | -7.590  | -4.371             | 0.751   | 0.987  | 0.548   | 0.411                | 0.533   | 0.635                | 0.734   | 0.757   | 0.666   | 0.913   | 0.386   | 0.399   | 0.795   | 0.955   | 0.731   | 0.399   | 0.342   | 0.966   | 1.009   | 0.689   | -1.884  | -2.630  | 1.302   | 0.972   |         |         |  |  |  |
| HORIZONTAL              | .0m   |         | 4m                 |         | L=107.0m |         | R=33.0m<br>L=28.1m |         | L=84.6m |         | R=33.0m<br>L=25.9m |         | L=50.8m |         | R=21.5m<br>L=60.6m |         | L=122.2m |         | R=33.0m<br>L=47.3m |         | L=135.4m |         | R=100.0m<br>L=19.3m |         | L=20.0m |         | L=20.0m            |         | L=83.8m  |         | R=-160.0m<br>L=42.4m |         | R=350.0m<br>L=140.5m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| SUPERELEVATION          | 0%  |         | 2.50%              |         | 7.00%    |         | 2.50%              |         | 7.00%   |         | 2.50%              |         | 7.00%   |         | 2.50%              |         | 7.00%    |         | 2.50%              |         | 7.00%    |         | 2.50%               |         | 4.00%   |         | 2.50%              |         | 2.50%  |         | 2.50%                |         | 2.50%                |         | 2.50%   |         | 2.50%   |         | 2.50%   |         | 2.50%   |         | 2.50%   |         | 2.50%   |         | 2.50%   |         | 2.50%   |         |         |         |         |  |  |  |
| CURVE WIDENING          |   |         |                    |         | 6.5      |         | 6.5                |         | 6.5     |         | 6.5                |         | 6.5     |         | 6.5                |         | 6.5      |         | 6.5                |         | 6.5      |         | 6.5                 |         | 5.8     |         | 5.8                |         | 5.8  |         | 5.8                  |         | 5.8                  |         | 5.8     |         | 5.8     |         | 5.8     |         | 5.8     |         | 5.8     |         | 5.8     |         | 5.8     |         | 5.8     |         |         |         |         |  |  |  |
| VERTICAL SCHEMATIC      | L=45.0m   |         | G=-4.2<br>L=174.9m |         | L=45.0m  |         | G=2.3<br>L=32.6m   |         | L=50.0m |         | G=-0.9<br>L=115.0m |         | L=40.0m |         | G=-8.0<br>L=57.5m  |         | L=45.0m  |         | G=-6.0<br>L=35.0m  |         | L=45.0m  |         | G=0.5<br>L=50.0m    |         | L=45.0m |         | G=-5.8<br>L=110.0m |         | L=45.0m  |         |                      |         |                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| WIDENING/IMP PROPOSAL   | Widening on Left Side (Hill) with Geometric Improvement |         |                    |         |          |         |                    |         |         |         |                    |         |         |         |                    |         |          |         |                    |         |          |         |                     |         |         |         |                    |         | Widening on Right Side (Valley) with Geometric Improvement |         |                      |         |                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| CHAINAGE                | 33+000  | 33+020  | 33+040             | 33+060  | 33+080   | 33+100  | 33+120             | 33+140  | 33+160  | 33+180  | 33+200             | 33+220  | 33+240  | 33+260  | 33+280             | 33+300  | 33+320   | 33+340  | 33+360             | 33+380  | 33+400   | 33+420  | 33+440              | 33+460  | 33+480  | 33+500  | 33+520             | 33+540  | 33+560   | 33+580  | 33+600               | 33+620  | 33+640               | 33+660  | 33+680  | 33+700  | 33+720  | 33+740  | 33+760  | 33+780  | 33+800  | 33+820  | 33+840  | 33+860  | 33+880  | 33+900  | 33+920  | 33+940  | 33+960  | 33+980  | 34+000  |         |         |  |  |  |

Notes :  
1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed CW :           | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  |                                   |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

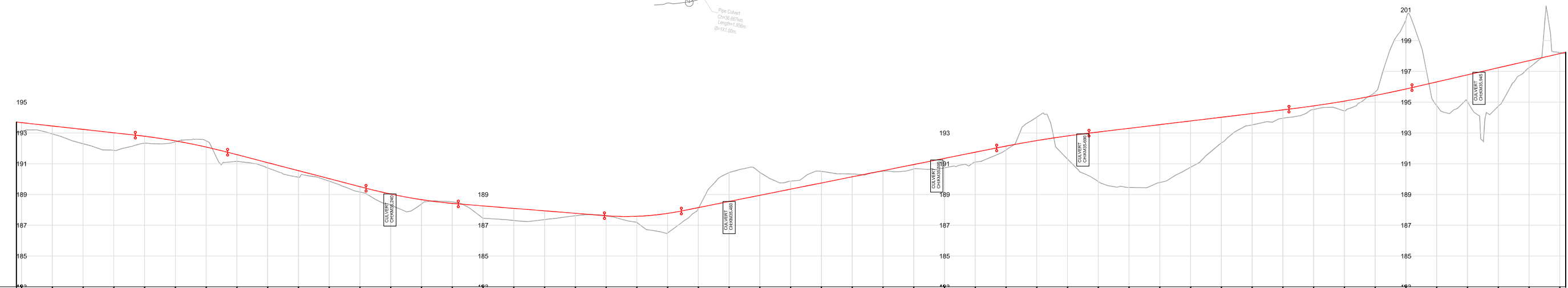
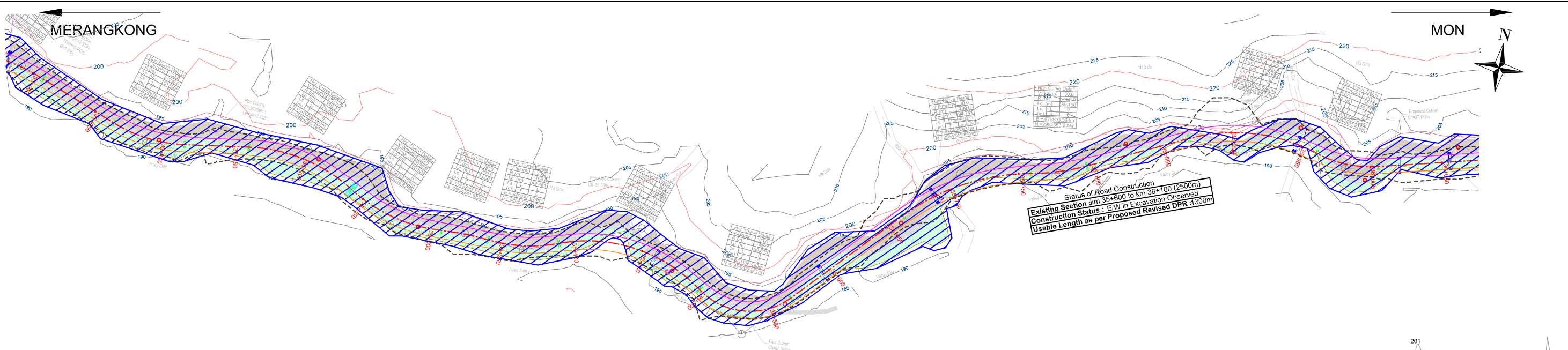
Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

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|                         |  |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------|--|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)    | 193.871  | 193.451 | 193.231  | 193.011 | 192.787  | 192.486 | 192.086  | 191.591 | 191.071  | 190.551 | 190.031  | 189.511 | 189.029  | 188.665 | 188.422  | 188.259 | 188.099  | 187.939 | 187.779  | 187.620 | 187.563  | 187.403 | 187.243 | 187.083 | 186.923 | 186.763 | 186.603 | 186.443 | 186.283 | 186.123 | 185.963 | 185.803 | 185.643 | 185.483 | 185.323 | 185.163 | 185.003 | 184.843 | 184.683 | 184.523 | 184.363 | 184.203 | 184.043 | 183.883 | 183.723 | 183.563 | 183.403 | 183.243 | 183.083 | 182.923 | 182.763 | 182.603 | 182.443 | 182.283 | 182.123 | 181.963 | 181.803 | 181.643 | 181.483 | 181.323 | 181.163 | 181.003 | 180.843 | 180.683 | 180.523 | 180.363 | 180.203 | 180.043 | 179.883 | 179.723 | 179.563 | 179.403 | 179.243 | 179.083 | 178.923 | 178.763 | 178.603 | 178.443 | 178.283 | 178.123 | 177.963 | 177.803 | 177.643 | 177.483 | 177.323 | 177.163 | 177.003 | 176.843 | 176.683 | 176.523 | 176.363 | 176.203 | 176.043 | 175.883 | 175.723 | 175.563 | 175.403 | 175.243 | 175.083 | 174.923 | 174.763 | 174.603 | 174.443 | 174.283 | 174.123 | 173.963 | 173.803 | 173.643 | 173.483 | 173.323 | 173.163 | 173.003 | 172.843 | 172.683 | 172.523 | 172.363 | 172.203 | 172.043 | 171.883 | 171.723 | 171.563 | 171.403 | 171.243 | 171.083 | 170.923 | 170.763 | 170.603 | 170.443 | 170.283 | 170.123 | 170.000 |
| EXISTING LEVEL (NGL)    | 193.110  | 192.936 | 192.301  | 191.872 | 192.329  | 192.425 | 192.468  | 191.154 | 190.727  | 190.123 | 189.864  | 189.159 | 188.311  | 188.388 | 188.522  | 188.459 | 187.312  | 187.369 | 187.623  | 187.609 | 187.201  | 187.563 | 186.501 | 186.085 | 190.428 | 190.433 | 189.873 | 190.503 | 190.334 | 190.148 | 190.515 | 190.548 | 190.659 | 190.948 | 190.733 | 191.348 | 191.106 | 191.748 | 191.899 | 192.146 | 194.027 | 192.503 | 191.300 | 192.807 | 189.842 | 193.060 | 189.463 | 193.300 | 189.781 | 193.540 | 190.771 | 193.780 | 192.345 | 194.020 | 193.523 | 194.260 | 193.958 | 194.500 | 194.527 | 194.758 | 194.440 | 195.069 | 195.663 | 195.436 | 200.374 | 194.780 | 196.317 | 195.032 | 196.777 | 194.735 | 197.237 | 197.235 | 197.697 | 198.228 | 198.157 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| LEVEL DIFF. (FRL - NGL) | 0.562  | 0.516   | 0.931    | 1.139   | 0.457    | 0.061   | -0.402   | 0.436   | 0.343    | 0.427   | 0.167    | 0.352   | 0.718    | 0.278   | -0.101   | 0.800   | 0.788    | 0.570   | 0.156    | 0.010   | 0.382    | 1.269   | 0.063   | -1.879  | -1.485  | -0.524  | -0.755  | -0.186  | 0.033   | 0.289   | 0.616   | 0.642   | 0.248   | -1.524  | 1.508   | 3.218   | 3.837   | 3.760   | 3.010   | 1.875   | 0.737   | 0.542   | 0.230   | 0.629   | -0.226  | -4.517  | 1.537   | 1.745   | 2.501   | 0.462   | -0.071  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL              | 0m   |         | R=100.0m |         | R=110.9m |         | R=110.9m |         | R=200.0m |         | R=106.8m |         | R=106.8m |         | R=48.0m  |         | R=150.0m |         | R=150.0m |         | R=120.0m |         | R=80.0m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                         | L=57.6m  |         | L=51.9m  |         | L=44.4m  |         | L=78.2m  |         | L=69.5m  |         | L=33.0m  |         | L=49.5m  |         | L=106.6m |         | L=69.6m  |         | L=95.9m  |         | L=94.7m  |         | L=39.2m |         | L=73.0m |         | L=90.7m |         | L=44.5m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION          | 7%   | 2.50%   | 4.00%    | 2.50%   | 3.61%    | 3.61%   | 2.50%    | 3.75%   | 3.75%    | 7.00%   | 2.50%    | 2.67%   | 2.67%    | 2.50%   | 3.33%    | 5.00%   |          |         |          |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|                         | 7%   | -2.50%  | -4.00%   | -2.50%  | -3.61%   | -3.61%  | -2.50%   | -3.75%  | -3.75%   | -7.00%  | -2.50%   | -2.67%  | -2.67%   | -2.50%  | -3.33%   | -5.00%  |          |         |          |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING          | 5.9  |         | 5.6      |         | 5.6      |         | 5.6      |         | 5.6      |         | 6.2      |         | 5.6      |         | 5.6      |         | 5.6      |         | 5.6      |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC      | L=60.0m  |         | L=90.0m  |         | L=60.0m  |         | G=-0.8   |         | L=50.0m  |         | G=2.0    |         | L=60.0m  |         | G=1.2    |         | L=80.0m  |         | G=2.3    |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMP PROPOSAL   | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm , DBM = 50MM , WMM = 250mm , GSB = 150mm , SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                | 35+000   | 35+020  | 35+040   | 35+060  | 35+080   | 35+100  | 35+120   | 35+140  | 35+160   | 35+180  | 35+200   | 35+220  | 35+240   | 35+260  | 35+280   | 35+300  | 35+320   | 35+340  | 35+360   | 35+380  | 35+400   | 35+420  | 35+440  | 35+460  | 35+480  | 35+500  | 35+520  | 35+540  | 35+560  | 35+580  | 35+600  | 35+620  | 35+640  | 35+660  | 35+680  | 35+700  | 35+720  | 35+740  | 35+760  | 35+780  | 35+800  | 35+820  | 35+840  | 35+860  | 35+880  | 35+900  | 35+920  | 35+940  | 35+960  | 35+980  | 36+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed CW :           | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  |                                   |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

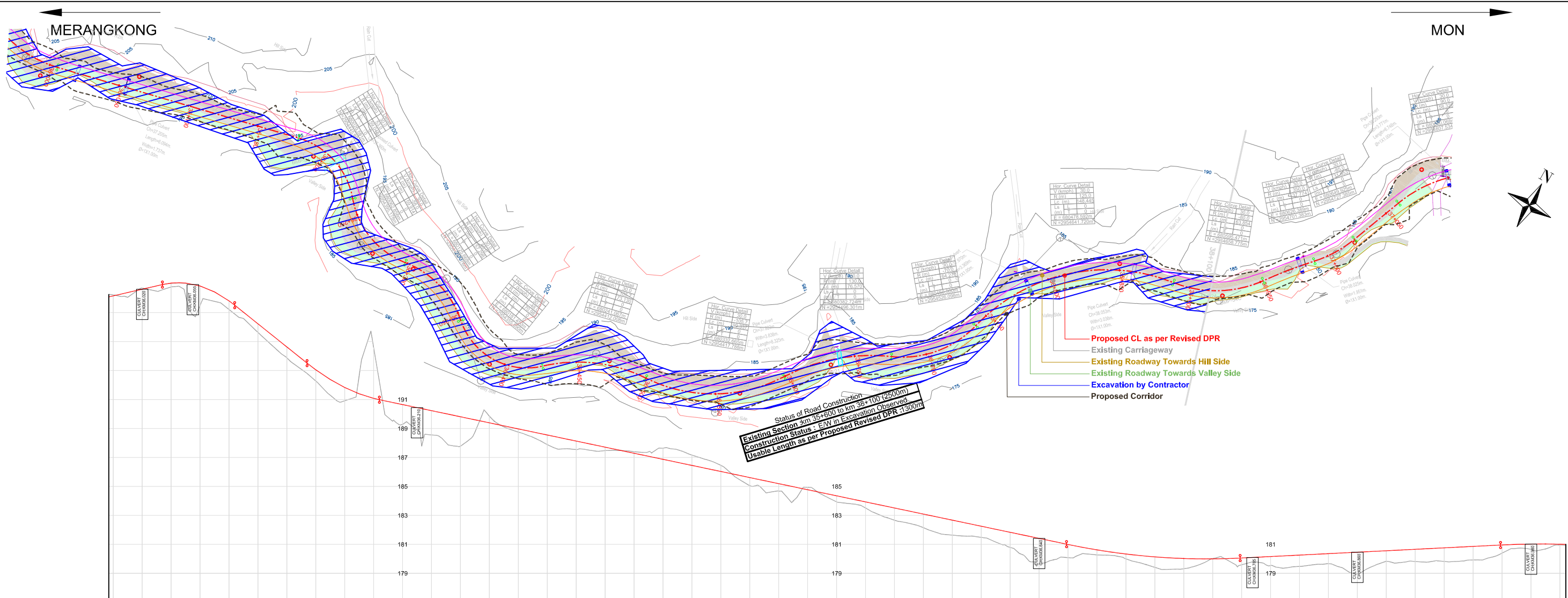
Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-MonRoad, Changtongya-LonglengRoad, Chakabama-Zunheboto Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM-36



|                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       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---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| PROPOSED LEVEL (FRL) | 198.157 | 198.617 | 199.039 | 198.638 | 197.813 | 196.229 | 194.620 | 193.051 | 191.829 | 191.080 | 190.651 | 190.231 | 189.811 | 189.391 | 188.971 | 188.551 | 188.131 | 187.711 | 187.291 | 186.871 | 186.451 | 186.031 | 185.611 | 185.191 | 184.771 | 184.351 | 183.931 | 183.511 | 183.091 | 182.671 | 182.251 | 181.831 | 181.411 | 180.991 | 180.571 | 180.151 | 180.731 | 180.311 | 180.891 | 180.471 | 180.051 | 180.631 | 180.211 | 180.791 | 180.371 | 180.951 | 180.531 | 181.111 | 180.691 | 181.271 | 180.851 | 181.431 | 181.011 | 181.591 | 181.171 | 181.751 | 181.331 | 181.911 | 181.491 | 182.071 | 181.651 | 182.231 | 181.811 | 182.391 | 181.971 | 182.551 | 182.131 | 182.711 | 182.291 | 182.871 | 182.451 | 183.031 | 182.611 | 183.191 | 182.771 | 183.351 | 182.931 | 183.511 | 183.091 | 183.671 | 183.251 | 183.831 | 183.411 | 183.991 | 183.571 | 184.151 | 183.731 | 184.311 | 183.891 | 184.471 | 184.051 | 184.631 | 184.211 | 184.791 | 184.371 | 184.951 | 184.531 | 185.111 | 184.691 | 185.271 | 184.851 | 185.431 | 185.011 | 185.591 | 185.171 | 185.751 | 185.331 | 185.911 | 185.491 | 186.071 | 185.651 | 186.231 | 185.811 | 186.391 | 185.971 | 186.551 | 186.131 | 186.711 | 186.291 | 186.871 | 186.451 | 187.031 | 186.611 | 187.191 | 186.771 | 187.351 | 186.931 | 187.511 | 187.091 | 187.671 | 187.251 | 187.831 | 187.411 | 187.991 | 187.571 | 188.151 | 187.731 | 188.311 | 187.891 | 188.471 | 188.051 | 188.631 | 188.211 | 188.791 | 188.371 | 188.951 | 188.531 | 189.111 | 188.691 | 189.271 | 188.851 | 189.431 | 189.011 | 189.591 | 189.171 | 189.751 | 189.331 | 189.911 | 189.491 | 190.071 | 189.651 | 190.231 | 189.811 | 190.391 | 189.971 | 190.551 | 190.131 | 190.711 | 190.291 | 190.871 | 190.451 | 191.031 | 190.611 | 191.191 | 190.771 | 191.351 | 190.931 | 191.511 | 191.091 | 191.671 | 191.251 | 191.831 | 191.411 | 191.991 | 191.571 | 192.151 | 191.731 | 192.311 | 191.891 | 192.471 | 192.051 | 192.631 | 192.211 | 192.791 | 192.371 | 192.951 | 192.531 | 193.111 | 192.691 | 193.271 | 192.851 | 193.431 | 193.011 | 193.591 | 193.171 | 193.751 | 193.331 | 193.911 | 193.491 | 194.071 | 193.651 | 194.231 | 193.811 | 194.391 | 193.971 | 194.551 | 194.131 | 194.711 | 194.291 | 194.871 | 194.451 | 195.031 | 194.611 | 195.191 | 194.771 | 195.351 | 194.931 | 195.511 | 195.091 | 195.671 | 195.251 | 195.831 | 195.411 | 195.991 | 195.571 | 196.151 | 195.731 | 196.311 | 195.891 | 196.471 | 196.051 | 196.631 | 196.211 | 196.791 | 196.371 | 196.951 | 196.531 | 197.111 | 196.691 | 197.271 | 196.851 | 197.431 | 197.011 | 197.591 | 197.171 | 197.751 | 197.331 | 197.911 | 197.491 | 198.071 | 197.651 | 198.231 | 197.811 | 198.391 | 197.971 | 198.551 | 198.131 | 198.711 | 198.291 | 198.871 | 198.451 | 199.031 | 198.611 | 199.191 | 198.771 | 199.351 | 198.931 | 199.511 | 199.091 | 199.671 | 199.251 | 199.831 | 199.411 | 199.991 | 199.571 | 200.151 | 199.731 | 200.311 | 199.891 | 200.471 | 200.051 | 200.631 | 200.211 | 200.791 | 200.371 | 200.951 | 200.531 | 201.111 | 200.691 | 201.271 | 200.851 | 201.431 | 201.011 | 201.591 | 201.171 | 201.751 | 201.331 | 201.911 | 201.491 | 202.071 | 201.651 | 202.231 | 201.811 | 202.391 | 201.971 | 202.551 | 202.131 | 202.711 | 202.291 | 202.871 | 202.451 | 203.031 | 202.611 | 203.191 | 202.771 | 203.351 | 202.931 | 203.511 | 203.091 | 203.671 | 203.251 | 203.831 | 203.411 | 203.991 | 203.571 | 204.151 | 203.731 | 204.311 | 203.891 | 204.471 | 204.051 | 204.631 | 204.211 | 204.791 | 204.371 | 204.951 | 204.531 | 205.111 | 204.691 | 205.271 | 204.851 | 205.431 | 205.011 | 205.591 | 205.171 | 205.751 | 205.331 | 205.911 | 205.491 | 206.071 | 205.651 | 206.231 | 205.811 | 206.391 | 205.971 | 206.551 | 206.131 | 206.711 | 206.291 | 206.871 | 206.451 | 207.031 | 206.611 | 207.191 | 206.771 | 207.351 | 206.931 | 207.511 | 207.091 | 207.671 | 207.251 | 207.831 | 207.411 | 207.991 | 207.571 | 208.151 | 207.731 | 208.311 | 207.891 | 208.471 | 208.051 | 208.631 | 208.211 | 208.791 | 208.371 | 208.951 | 208.531 | 209.111 | 208.691 | 209.271 | 208.851 | 209.431 | 209.011 | 209.591 | 209.171 | 209.751 | 209.331 | 209.911 | 209.491 | 210.071 | 209.651 | 210.231 | 209.811 | 210.391 | 209.971 | 210.551 | 210.131 | 210.711 | 210.291 | 210.871 | 210.451 | 211.031 | 210.611 | 211.191 | 210.771 | 211.351 | 210.931 | 211.511 | 211.091 | 211.671 | 211.251 | 211.831 | 211.411 | 211.991 | 211.571 | 212.151 | 211.731 | 212.311 | 211.891 | 212.471 | 212.051 | 212.631 | 212.211 | 212.791 | 212.371 | 212.951 | 212.531 | 213.111 | 212.691 | 213.271 | 212.851 | 213.431 | 213.011 | 213.591 | 213.171 | 213.751 | 213.331 | 213.911 | 213.491 | 214.071 | 213.651 | 214.231 | 213.811 | 214.391 | 213.971 | 214.551 | 214.131 | 214.711 | 214.291 | 214.871 | 214.451 | 215.031 | 214.611 | 215.191 | 214.771 | 215.351 | 214.931 | 215.511 | 215.091 | 215.671 | 215.251 | 215.831 | 215.411 | 215.991 | 215.571 | 216.151 | 215.731 | 216.311 | 215.891 | 216.471 | 216.051 | 216.631 | 216.211 | 216.791 | 216.371 | 216.951 | 216.531 | 217.111 | 216.691 | 217.271 | 216.851 | 217.431 | 217.011 | 217.591 | 217.171 | 217.751 | 217.331 | 217.911 | 217.491 | 218.071 | 217.651 | 218.231 | 217.811 | 218.391 | 217.971 | 218.551 | 218.131 | 218.711 | 218.291 | 218.871 | 218.451 | 219.031 | 218.611 | 219.191 | 218.771 | 219.351 | 218.931 | 219.511 | 219.091 | 219.671 | 219.251 | 219.831 | 219.411 | 219.991 | 219.571 | 220.151 | 219.731 | 220.311 | 219.891 | 220.471 | 220.051 | 220.631 | 220.211 | 220.791 | 220.371 | 220.951 | 220.531 | 221.111 | 220.691 | 221.271 | 220.851 | 221.431 | 221.011 | 221.591 | 221.171 | 221.751 | 221.331 | 221.911 | 221.491 | 222.071 | 221.651 | 222.231 | 221.811 | 222.391 | 221.971 | 222.551 | 222.131 | 222.711 | 222.291 | 222.871 | 222.451 | 223.031 | 222.611 | 223.191 | 222.771 | 223.351 | 222.931 | 223.511 | 223.091 | 223.671 | 223.251 | 223.831 | 223.411 | 223.991 | 223.571 | 224.151 | 223.731 | 224.311 | 223.891 | 224.471 | 224.051 | 224.631 | 224.211 | 224.791 | 224.371 | 224.951 | 224.531 | 225.111 | 224.691 | 225.271 | 224.851 | 225.431 | 225.011 | 225.591 | 225.171 | 225.751 | 225.331 | 225.911 | 225.491 | 226.071 | 225.651 | 226.231 | 225.811 | 226.391 | 225.971 | 226.551 | 226.131 | 226.711 | 226.291 | 226.871 | 226.451 | 227.031 | 226.611 | 227.191 | 226.771 | 227.351 | 226.931 | 227.511 | 227.091 | 227.671 | 227.251 | 227.831 | 227.411 | 227.991 | 227.571 | 228.151 | 227.731 | 228.311 | 227.891 | 228.471 | 228.051 | 228.631 | 228.211 | 228.791 | 228.371 | 228.951 | 228.531 | 229.111 | 228.691 | 229.271 | 228.851 | 229.431 | 229.011 | 229.591 | 229.171 | 229.751 | 229.331 | 229.911 | 229.491 | 230.071 | 229.651 | 230.231 | 229.811 | 230.391 | 229.971 | 230.551 | 230.131 | 230.711 | 230.291 | 230.871 | 230.451 | 231.031 | 230.611 | 231.191 | 230.771 | 231.351 | 230.931 | 231.511 | 231.091 | 231.671 | 231.251 | 231.831 | 231.411 | 231.991 | 231.571 | 232.151 | 231.731 | 232.311 | 231.891 | 232.471 | 232.051 | 232.631 | 232.211 | 232.791 | 232.371 | 232.951 | 232.531 | 233.111 | 232.691 | 233.271 | 232.851 | 233.431 | 233.011 | 233.591 | 233.171 | 233.751 | 233.331 | 233.911 | 233.491 | 234.071 | 233.651 | 234.231 | 233.811 | 234.391 | 233.971 | 234.551 | 234.131 | 234.711 | 234.291 | 234.871 | 234.451 | 235.031 | 234.611 | 235.191 | 234.771 | 235.351 | 234.931 | 235.511 | 235.091 | 235.671 | 235.251 | 235.831 | 235.411 | 235.991 | 235.571 | 236.151 | 235.731 | 236.311 | 235.891 | 236.471 | 236.051 | 236.631 | 236.211 | 236.791 | 236.371 | 236.951 | 236.531 | 237.111 | 236.691 | 237.271 | 236.851 | 237.431 | 237.011 | 237.591 | 237.171 | 237.751 | 237.331 | 237.911 | 237.491 | 238.071 | 237.651 | 238.231 | 237.811 | 238.391 | 237.971 | 238.551 | 238.131 | 238.711 | 238.291 | 238.871 | 238.451 | 239.031 | 238.611 | 239.191 | 238.771 | 239.351 | 238.931 | 239.511 | 239.091 | 239.671 | 239.251 | 239.831 | 239.411 | 239.991 | 239.571 | 240.151 | 239.731 | 240.311 | 239.891 | 240.471 | 240.051 | 240.631 | 240.211 | 240.791 | 240.371 | 240.951 | 240.531 | 241.111 | 240.691 | 241.271 | 240.851 | 241.431 | 241.011 | 241.591 | 241.171 | 241.751 | 241.331 | 241.911 | 241.491 | 242.071 | 241.651 | 242.231 | 241.811 | 242.391 | 241.971 | 242.551 | 242.131 | 242.711 | 242.291 | 242.871 | 242.451 | 243.031 | 242.611 | 243.191 | 242.771 | 243.351 | 242.931 | 243.511 | 243.091 | 243.671 | 243.251 | 243.831 | 243.411 | 243.991 | 243.571 | 244.151 | 243.731 | 244.311 | 243.891 | 244.471 | 244.051 | 244.631 | 244.211 | 244.791 | 244.371 | 244.951 | 244.531 | 245.111 | 244.691 | 245.271 | 244.851 | 245.431 | 245.011 | 245.591 | 245.171 | 245.751 | 245.331 | 245.911 | 245.491 | 246.071 | 245.651 | 246.231 | 245.811 | 246.391 | 245.971 | 246.551 | 246.131 | 246.711 | 246.291 | 246.871 | 246.451 | 247.031 | 246.611 | 247.191 | 246.771 | 247.351 | 246.931 | 247.511 | 247.091 | 247.671 | 247.251 | 247.831 | 247.411 | 247.991 | 247.571 | 248.151 | 247.731 | 248.311 | 247.891 | 248.471 | 248.051 | 248.631 | 248.211 | 248.791 | 248.371 | 248.951 | 248.531 | 249.111 | 248.691 | 249.271 | 248.851 | 249.431 | 249.011 | 249.591 | 249.171 | 249.751 | 249.331 | 249.911 | 249.491 | 250.071 | 249.651 | 250.231 | 249.811 | 250.391 | 249.971 | 250.551 | 250.131 | 250.711 | 250.291 | 250.871 | 250.451 | 251.031 | 250.611 | 251.191 | 250.771 | 251.351 | 250.931 | 251.511 | 251.091 | 251.671 | 251.251 | 251.831 | 251.411 | 251.991 | 251.571 | 252.151 | 251.731 | 252.311 | 251.891 | 252.471 | 252.051 | 252.631 | 252.211 | 252.791 | 252.371 | 252.951 | 252.531 | 253.111 | 252.691 | 253.271 | 252.851 | 253.431 | 253.011 | 253.591 | 253.171 | 253.751 | 253.331 | 253.911 | 253.491 | 254.071 | 253.651 | 254.231 | 253.811 | 254.391 | 253.971 | 254.551 | 254.131 | 254.711 | 254.291 | 254.871 | 254.451 | 255.031 | 254.611 | 255.191 | 254.771 | 255.351 | 254.931 | 255.511 | 255.091 | 255.671 | 255.251 | 255.831 | 255.411 | 255.991 | 255.571 | 256.151 | 255.731 | 256.311 | 255.891 | 256.471 | 256.051 | 256.631 | 256.211 | 256.791 | 256.371 | 256.951 | 256.531 | 257.111 | 256.691 | 257.271 | 256.851 | 257.431 | 257.011 | 257.591 | 257.171 | 257.751 | 257.331 | 257.911 | 257.491 | 258.071 | 25 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------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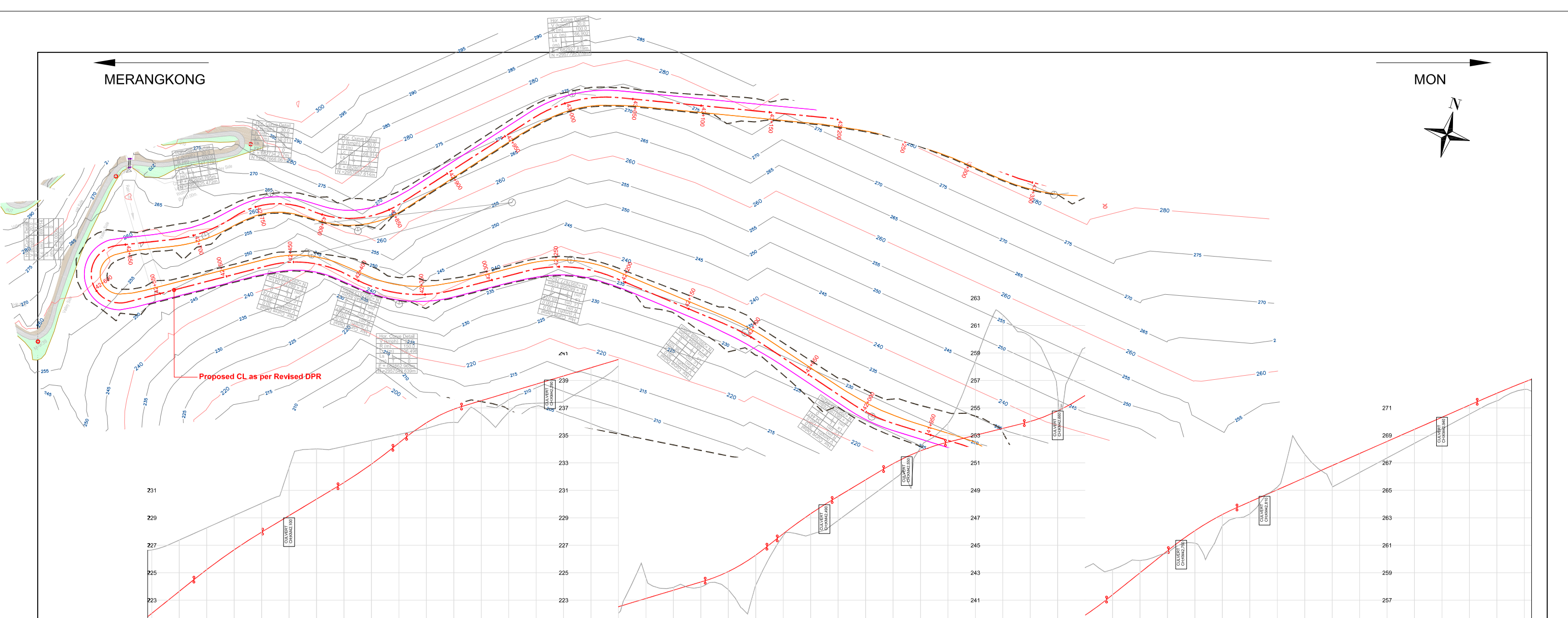






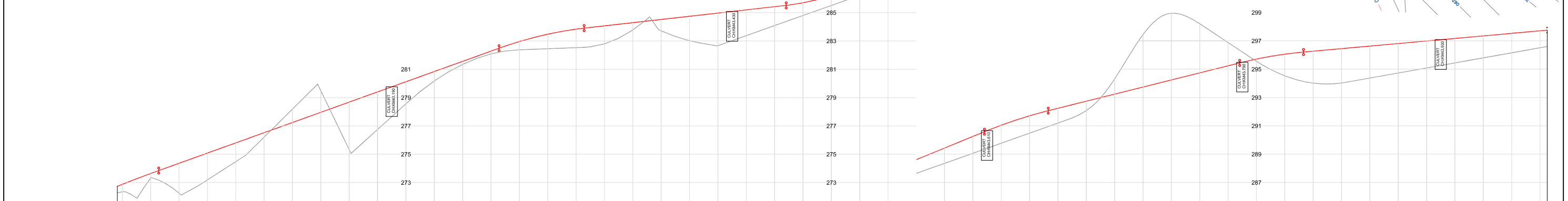
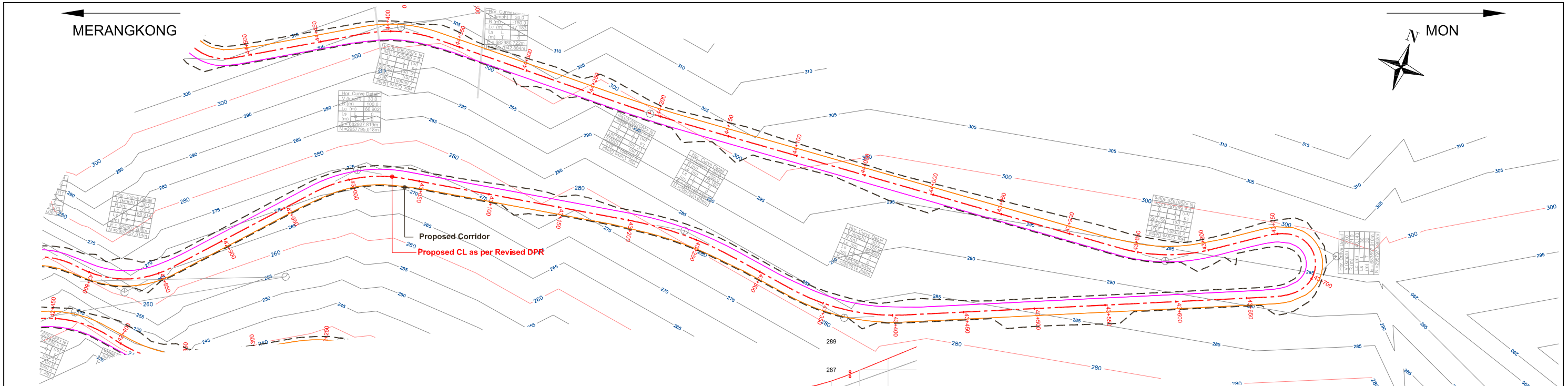
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Proposed CL as per Revised DPR

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| PROPOSED LEVEL (FRL) | 222.045 | 223.645 | 225.228 | 226.673 | 227.958 | 229.158 | 230.358 | 231.563 | 232.907 | 234.445 | 235.917 | 236.908 | 237.528 | 238.128 | 237.340 | 238.728 | 239.328 | 239.928 | 240.528 | 241.128 | 241.728 | 242.328 | 242.928 | 243.528 | 244.128 | 244.728 | 245.328 | 245.928 | 246.528 | 247.128 | 247.728 | 248.328 | 248.928 | 249.528 | 250.128 | 250.728 | 251.328 | 251.928 | 252.528 | 253.128 | 253.728 | 254.328 | 254.928 | 255.528 | 256.128 | 256.728 | 257.328 | 257.928 | 258.528 | 259.128 | 259.728 | 260.328 | 260.928 | 261.528 | 262.128 | 262.728 | 263.328 | 263.928 | 264.528 | 265.128 | 265.728 | 266.328 | 266.928 | 267.528 | 268.128 | 268.728 | 269.328 | 269.928 | 270.528 | 271.128 | 271.728 | 272.328 | 272.928 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        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|         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         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|         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| EXISTING LEVEL (NGL) | 226.654 | 227.379 | 228.272 | 229.164 | 230.056 | 230.948 | 231.840 | 232.732 | 233.624 | 234.516 | 235.408 | 236.300 | 237.192 | 238.084 | 238.976 | 239.868 | 240.760 | 241.652 | 242.544 | 243.436 | 244.328 | 245.220 | 246.112 | 247.004 | 247.896 | 248.788 | 249.680 | 250.572 | 251.464 | 252.356 | 253.248 | 254.140 | 255.032 | 255.924 | 256.816 | 257.708 | 258.600 | 259.492 | 260.384 | 261.276 | 262.168 | 263.060 | 263.952 | 264.844 | 265.736 | 266.628 | 267.520 | 268.412 | 269.304 | 270.196 | 271.088 | 271.980 | 272.872 | 273.764 | 274.656 | 275.548 | 276.440 | 277.332 | 278.224 | 279.116 | 280.008 | 280.900 | 281.792 | 282.684 | 283.576 | 284.468 | 285.360 | 286.252 | 287.144 | 288.036 | 288.928 | 289.820 | 290.712 | 291.604 | 292.496 | 293.388 | 294.280 | 295.172 | 296.064 | 296.956 | 297.848 | 298.740 | 299.632 | 300.524 | 301.416 | 302.308 | 303.200 | 304.092 | 304.984 | 305.876 | 306.768 | 307.660 | 308.552 | 309.444 | 310.336 | 311.228 | 312.120 | 313.012 | 313.904 | 314.796 | 315.688 | 316.580 | 317.472 | 318.364 | 319.256 | 320.148 | 321.040 | 321.932 | 322.824 | 323.716 | 324.608 | 325.500 | 326.392 | 327.284 | 328.176 | 329.068 | 329.960 | 330.852 | 331.744 | 332.636 | 333.528 | 334.420 | 335.312 | 336.204 | 337.096 | 337.988 | 338.880 | 339.772 | 340.664 | 341.556 | 342.448 | 343.340 | 344.232 | 345.124 | 346.016 | 346.908 | 347.800 | 348.692 | 349.584 | 350.476 | 351.368 | 352.260 | 353.152 | 354.044 | 354.936 | 355.828 | 356.720 | 357.612 | 358.504 | 359.396 | 360.288 | 361.180 | 362.072 | 362.964 | 363.856 | 364.748 | 365.640 | 366.532 | 367.424 | 368.316 | 369.208 | 370.100 | 370.992 | 371.884 | 372.776 | 373.668 | 374.560 | 375.452 | 376.344 | 377.236 | 378.128 | 379.020 | 379.912 | 380.804 | 381.696 | 382.588 | 383.480 | 384.372 | 385.264 | 386.156 | 387.048 | 387.940 | 388.832 | 389.724 | 390.616 | 391.508 | 392.400 | 393.292 | 394.184 | 395.076 | 395.968 | 396.860 | 397.752 | 398.644 | 399.536 | 400.428 | 401.320 | 402.212 | 403.104 | 404.000 | 404.892 | 405.784 | 406.676 | 407.568 | 408.460 | 409.352 | 410.244 | 411.136 | 412.028 | 412.920 | 413.812 | 414.704 | 415.596 | 416.488 | 417.380 | 418.272 | 419.164 | 420.056 | 420.948 | 421.840 | 422.732 | 423.624 | 424.516 | 425.408 | 426.300 | 427.192 | 428.084 | 428.976 | 429.868 | 430.760 | 431.652 | 432.544 | 433.436 | 434.328 | 435.220 | 436.112 | 437.004 | 437.896 | 438.788 | 439.680 | 440.572 | 441.464 | 442.356 | 443.248 | 444.140 | 445.032 | 445.924 | 446.816 | 447.708 | 448.600 | 449.492 | 450.384 | 451.276 | 452.168 | 453.060 | 453.952 | 454.844 | 455.736 | 456.628 | 457.520 | 458.412 | 459.304 | 460.196 | 461.088 | 461.980 | 462.872 | 463.764 | 464.656 | 465.548 | 466.440 | 467.332 | 468.224 | 469.116 | 470.008 | 470.900 | 471.792 | 472.684 | 473.576 | 474.468 | 475.360 | 476.252 | 477.144 | 478.036 | 478.928 | 479.820 | 480.712 | 481.604 | 482.496 | 483.388 | 484.280 | 485.172 | 486.064 | 486.956 | 487.848 | 488.740 | 489.632 | 490.524 | 491.416 | 492.308 | 493.200 | 494.092 | 494.984 | 495.876 | 496.768 | 497.660 | 498.552 | 499.444 | 500.336 | 501.228 | 502.120 | 503.012 | 503.904 | 504.796 | 505.688 | 506.580 | 507.472 | 508.364 | 509.256 | 510.148 | 511.040 | 511.932 | 512.824 | 513.716 | 514.608 | 515.500 | 516.392 | 517.284 | 518.176 | 519.068 | 519.960 | 520.852 | 521.744 | 522.636 | 523.528 | 524.420 | 525.312 | 526.204 | 527.096 | 527.988 | 528.880 | 529.772 | 530.664 | 531.556 | 532.448 | 533.340 | 534.232 | 535.124 | 536.016 | 536.908 | 537.800 | 538.692 | 539.584 | 540.476 | 541.368 | 542.260 | 543.152 | 544.044 | 544.936 | 545.828 | 546.720 | 547.612 | 548.504 | 549.396 | 550.288 | 551.180 | 552.072 | 552.964 | 553.856 | 554.748 | 555.640 | 556.532 | 557.424 | 558.316 | 559.208 | 560.100 | 560.992 | 561.884 | 562.776 | 563.668 | 564.560 | 565.452 | 566.344 | 567.236 | 568.128 | 569.020 | 569.912 | 570.804 | 571.696 | 572.588 | 573.480 | 574.372 | 575.264 | 576.156 | 577.048 | 577.940 | 578.832 | 579.724 | 580.616 | 581.508 | 582.400 | 583.292 | 584.184 | 585.076 | 585.968 | 586.860 | 587.752 | 588.644 | 589.536 | 590.428 | 591.320 | 592.212 | 593.104 | 594.000 | 594.892 | 595.784 | 596.676 | 597.568 | 598.460 | 599.352 | 600.244 | 601.136 | 602.028 | 602.920 | 603.812 | 604.704 | 605.596 | 606.488 | 607.380 | 608.272 | 609.164 | 610.056 | 610.948 | 611.840 | 612.732 | 613.624 | 614.516 | 615.408 | 616.300 | 617.192 | 618.084 | 618.976 | 619.868 | 620.760 | 621.652 | 622.544 | 623.436 | 624.328 | 625.220 | 626.112 | 627.004 | 627.896 | 628.788 | 629.680 | 630.572 | 631.464 | 632.356 | 633.248 | 634.140 | 635.032 | 635.924 | 636.816 | 637.708 | 638.600 | 639.492 | 640.384 | 641.276 | 642.168 | 643.060 | 643.952 | 644.844 | 645.736 | 646.628 | 647.520 | 648.412 | 649.304 | 650.196 | 651.088 | 651.980 | 652.872 | 653.764 | 654.656 | 655.548 | 656.440 | 657.332 | 658.224 | 659.116 | 660.008 | 660.900 | 661.792 | 662.684 | 663.576 | 664.468 | 665.360 | 666.252 | 667.144 | 668.036 | 668.928 | 669.820 | 670.712 | 671.604 | 672.496 | 673.388 | 674.280 | 675.172 | 676.064 | 676.956 | 677.848 | 678.740 | 679.632 | 680.524 | 681.416 | 682.308 | 683.200 | 684.092 | 684.984 | 685.876 | 686.768 | 687.660 | 688.552 | 689.444 | 690.336 | 691.228 | 692.120 | 693.012 | 693.904 | 694.796 | 695.688 | 696.580 | 697.472 | 698.364 | 699.256 | 700.148 | 701.040 | 701.932 | 702.824 | 703.716 | 704.608 | 705.500 | 706.392 | 707.284 | 708.176 | 709.068 | 709.960 | 710.852 | 711.744 | 712.636 | 713.528 | 714.420 | 715.312 | 716.204 | 717.096 | 717.988 | 718.880 | 719.772 | 720.664 | 721.556 | 722.448 | 723.340 | 724.232 | 725.124 | 726.016 | 726.908 | 727.800 | 728.692 | 729.584 | 730.476 | 731.368 | 732.260 | 733.152 | 734.044 | 734.936 | 735.828 | 736.720 | 737.612 | 738.504 | 739.396 | 740.288 | 741.180 | 742.072 | 742.964 | 743.856 | 744.748 | 745.640 | 746.532 | 747.424 | 748.316 | 749.208 | 750.100 | 750.992 | 751.884 | 752.776 | 753.668 | 754.560 | 755.452 | 756.344 | 757.236 | 758.128 | 759.020 | 759.912 | 760.804 | 761.696 | 762.588 | 763.480 | 764.372 | 765.264 | 766.156 | 767.048 | 767.940 | 768.832 | 769.724 | 770.616 | 771.508 | 772.400 | 773.292 | 774.184 | 775.076 | 775.968 | 776.860 | 777.752 | 778.644 | 779.536 | 780.428 | 781.320 | 782.212 | 783.104 | 784.000 | 784.892 | 785.784 | 786.676 | 787.568 | 788.460 | 789.352 | 790.244 | 791.136 | 792.028 | 792.920 | 793.812 | 794.704 | 795.596 | 796.488 | 797.380 | 798.272 | 799.164 | 800.056 | 800.948 | 801.840 | 802.732 | 803.624 | 804.516 | 805.408 | 806.300 | 807.192 | 808.084 | 808.976 | 809.868 | 810.760 | 811.652 | 812.544 | 813.436 | 814.328 | 815.220 | 816.112 | 817.004 | 817.896 | 818.788 | 819.680 | 820.572 | 821.464 | 822.356 | 823.248 | 824.140 | 825.032 | 825.924 | 826.816 | 827.708 | 828.600 | 829.492 | 830.384 | 831.276 | 832.168 | 833.060 | 833.952 | 834.844 | 835.736 | 836.628 | 837.520 | 838.412 | 839.304 | 840.196 | 841.088 | 841.980 | 842.872 | 843.764 | 844.656 | 845.548 | 846.440 | 847.332 | 848.224 | 849.116 | 850.008 | 850.900 | 851.792 | 852.684 | 853.576 | 854.468 | 855.360 | 856.252 | 857.144 | 858.036 | 858.928 | 859.820 | 860.712 | 861.604 | 862.496 | 863.388 | 864.280 | 865.172 | 866.064 | 866.956 | 867.848 | 868.740 | 869.632 | 870.524 | 871.416 | 872.308 | 873.200 | 874.092 | 874.984 | 875.876 | 876.768 | 877.660 | 878.552 | 879.444 | 880.336 | 881.228 | 882.120 | 883.012 | 883.904 | 884.796 | 885.688 | 886.580 | 887.472 | 888.364 | 889.256 | 890.148 | 891.040 | 891.932 | 892.824 | 893.716 | 894.608 | 895.500 | 896.392 | 897.284 | 898.176 | 899.068 | 899.960 | 900.852 | 901.744 | 902.636 | 903.528 | 904.420 | 905.312 | 906.204 | 907.096 | 907.988 | 908.880 | 909.772 | 910.664 | 911.556 | 912.448 | 913.340 | 914.232 | 915.124 | 916.016 | 916.908 | 917.800 | 918.692 | 919.584 | 920.476 | 921.368 | 922.260 | 923.152 | 924.044 | 924.936 | 925.828 | 926.720 | 927.612 | 928.504 | 929.396 | 930.288 | 931.180 | 932.072 | 932.964 | 933.856 | 934.748 | 935.640 | 936.532 | 937.424 | 938.316 | 939.208 | 940.100 | 940.992 | 941.884 | 942.776 | 943.668 | 944.560 | 945.452 | 946.344 | 947.236 | 948.128 | 949.020 | 949.912 | 950.804 | 951.696 | 952.588 | 953.480 | 954.372 | 955.264 | 956.156 | 957.048 | 957.940 | 958.832 | 959.724 | 960.616 | 961.508 | 962.400 | 963.292 | 964.184 | 965.076 | 965.968 | 966.860 | 967.752 | 968.644 | 969.536 | 970.428 | 971.320 | 972.212 | 973.104 | 974.000 | 974.892 | 975.784 | 976.676 | 977.568 | 978.460 | 979.352 | 980.244 | 981.136 | 982.028 | 982.920 | 983.812 | 984.704 | 985.596 | 986.488 | 987.380 | 988.272 | 989.164 | 990.056 | 990.948 | 991.840 | 992.732 | 993.624 | 994.516 | 995.408 | 996.300 | 997.192 | 998.084 | 998.976 | 999.868 | 1000.760 | 1001.652 | 1002.544 | 1003.436 | 1004.328 | 1005.220 | 1006.112 | 1007.004 | 1007.896 | 1008.788 | 1009.680 | 1010.572 | 1011.464 | 1012.356 | 1013.248 | 1014.140 | 1015.032 | 1015.924 | 1016.816 | 1017.708 | 1018.600 | 1019.492 | 1020.384 | 1021.276 | 1022.168 | 1023.060 | 1023.952 | 1024.844 | 1025.736 | 1026.628 | 1027.520 | 1028.412 | 1029.304 | 1030.196 | 1031.088 | 1031.980 | 1032.872 | 1033.764 | 1034.656 | 1035.548 | 1036.440 | 1037.332 | 1038.224 | 1039.116 | 1040.008 | 1040.900 | 1041.792 | 1042.684 | 1043.576 | 1044.468 | 1045.360 | 1046.252 | 1047.144 | 1048.036 | 1048.928 | 1049.820 | 1050.712 | 1051.604 | 1052.496 | 1053.388 |



|                               |   |         |                   |         |         |         |                     |         |                   |         |                     |         |                  |         |         |         |         |         |                    |         |         |         |                   |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
|-------------------------------|---|---------|-------------------|---------|---------|---------|---------------------|---------|-------------------|---------|---------------------|---------|------------------|---------|---------|---------|---------|---------|--------------------|---------|---------|---------|-------------------|---------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| PROPOSED LEVEL (FRL)          | 272.880   | 273.642 | 274.364           | 275.084 | 275.804 | 276.524 | 277.244             | 277.964 | 278.684           | 279.404 | 280.124             | 280.844 | 281.564          | 282.284 | 283.004 | 283.724 | 284.444 | 285.164 | 285.884            | 286.604 | 287.324 | 288.044 | 288.764           | 289.484 | 290.204             | 290.924 | 291.644 | 292.364 | 293.084 | 293.804 | 294.524 | 295.244 | 295.964 | 296.684 | 297.404 | 298.124 | 298.844 | 299.564 |         |         |         |         |         |         |         |         |         |         |        |        |        |
| EXISTING LEVEL (NGL)          | 272.348   | 273.322 | 272.255           | 273.191 | 274.476 | 276.214 | 278.194             | 279.480 | 275.324           | 276.753 | 278.566             | 280.174 | 281.349          | 282.085 | 282.375 | 282.451 | 282.528 | 282.796 | 283.376            | 284.087 | 285.421 | 285.693 | 286.208           | 286.971 | 287.791             | 288.611 | 289.431 | 290.251 | 291.046 | 291.710 | 292.241 | 292.741 | 293.241 | 293.741 | 294.241 | 294.741 | 295.241 | 295.716 | 296.080 | 296.271 | 296.451 | 296.631 | 296.811 | 296.991 | 297.171 | 297.351 | 297.531 | 297.711 |        |        |        |
| LEVEL DIFF. (FRL - NGL)       | 0.531   | 0.320   | 2.109             | 1.893   | 1.328   | 0.310   | -0.950              | -1.517  | 3.360             | 2.651   | 1.558               | 0.670   | 0.214            | 0.199   | 0.586   | 1.029   | 1.308   | 1.272   | 0.519              | 0.805   | 1.729   | 2.304   | 1.819             | 1.335   | 0.896               | 0.699   | 0.752   | 0.881   | 0.971   | 1.080   | 1.189   | 1.274   | 1.228   | 1.048   | 0.686   | -1.074  | -3.707  | -4.713  | -3.464  | -1.639  | 0.161   | 1.529   | 2.255   | 2.427   | 2.258   | 2.082   | 1.905   | 1.728   | 1.552  | 1.375  | 1.198  |
| HORIZONTAL                    | R=100.0m<br>L=66.9m   |         | L=160.2m          |         |         |         | R=250.0m<br>L=79.2m |         | L=46.1m           |         | R=150.0m<br>L=82.5m |         | L=255.9m         |         |         |         | L=30.0m |         | R=21.0m<br>L=40.1m |         | L=30.0m |         | L=33.5m           |         | R=125.0m<br>L=65.7m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
| SUPERELEVATION                | 4.00%   |         | 2.50%             |         |         |         | 2.50%               |         | 2.50%             |         | 2.67%               |         | 2.50%            |         |         |         | 7.00%   |         | 7.00%              |         | -7.00%  |         | 2.50%             |         | 3.20%               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
| CURVE WIDENING                | 5.9   |         | 5.6               |         |         |         | 5.6                 |         | 5.6               |         | 5.6                 |         | 5.6              |         |         |         | 5.6     |         | 5.6                |         | 5.6     |         | 5.6               |         | 5.6                 |         | 5.6     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
| VERTICAL SCHEMATIC            | 0.0m  |         | G=3.6<br>L=240.0m |         |         |         | L=60.0m             |         | G=1.1<br>L=142.5m |         | L=45.0m             |         | G=4.1<br>L=95.0m |         |         |         | L=45.0m |         | G=2.5<br>L=135.0m  |         | L=45.0m |         | G=0.9<br>L=172.5m |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
| WIDENING/IMPROVEMENT PROPOSAL | Geometric Improvement<br>BC = 30mm , DBM = 50MM , WMM = 250mm , GSB = 150mm , SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |                   |         |         |         |                     |         |                   |         |                     |         |                  |         |         |         |         |         |                    |         |         |         |                   |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
| CHAINAGE                      | 43+000  | 43+020  | 43+040            | 43+060  | 43+080  | 43+100  | 43+120              | 43+140  | 43+160            | 43+180  | 43+200              | 43+220  | 43+240           | 43+260  | 43+280  | 43+300  | 43+320  | 43+340  | 43+360             | 43+380  | 43+400  | 43+420  | 43+440            | 43+460  | 43+480              | 43+500  | 43+520  | 43+540  | 43+560  | 43+580  | 43+600  | 43+620  | 43+640  | 43+660  | 43+680  | 43+700  | 43+720  | 43+740  | 43+760  | 43+780  | 43+800  | 43+820  | 43+840  | 43+860  | 43+880  | 43+900  | 43+920  | 43+940  | 43+960 | 43+980 | 44+000 |

**Notes :**  
1) All Levels are in m unless otherwise indicated.

**Legend :**

- Proposed CL : [Red line]
- Proposed Edges : [Orange lines]
- Contours 20m Interval : [Red dashed line]
- Contours 5m Interval : [Blue dashed line]
- Proposed Major Bridge : [Blue rectangle]
- Proposed Minor Bridge : [Green rectangle]
- Proposed Pipe Culvert : [Blue rectangle]
- Proposed Slab Culvert : [Green rectangle]
- Proposed Box Culvert : [Blue rectangle]
- Existing Road : [Grey line]
- Existing Hill : [Brown shaded area]
- Existing Valley : [Green shaded area]
- Existing Hill Cutting Line : [Red dashed line]
- Existing Hill Toe Line : [Orange dashed line]
- Existing Valley Line : [Green dashed line]
- Important Buildings : [Orange rectangle]
- Other Buildings/Huts/Tile house : [Blue rectangle]

**Client :** Ministry of Road Transport & Highways (Government of India)

**Consultant :** RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

**Project :** Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunheboto Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

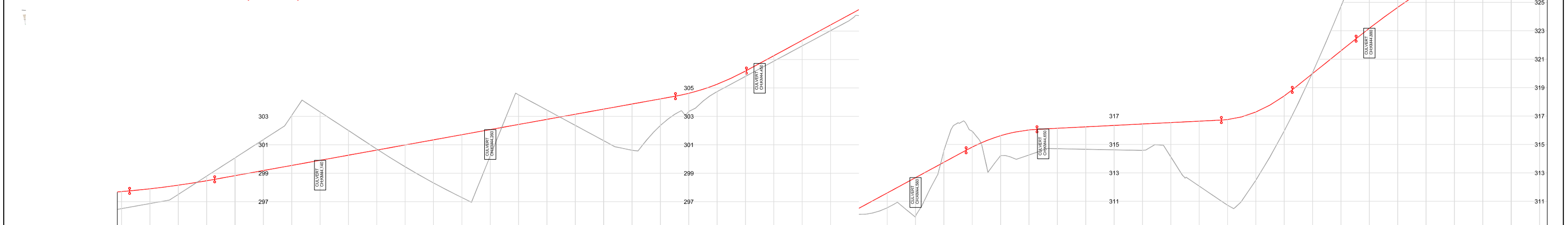
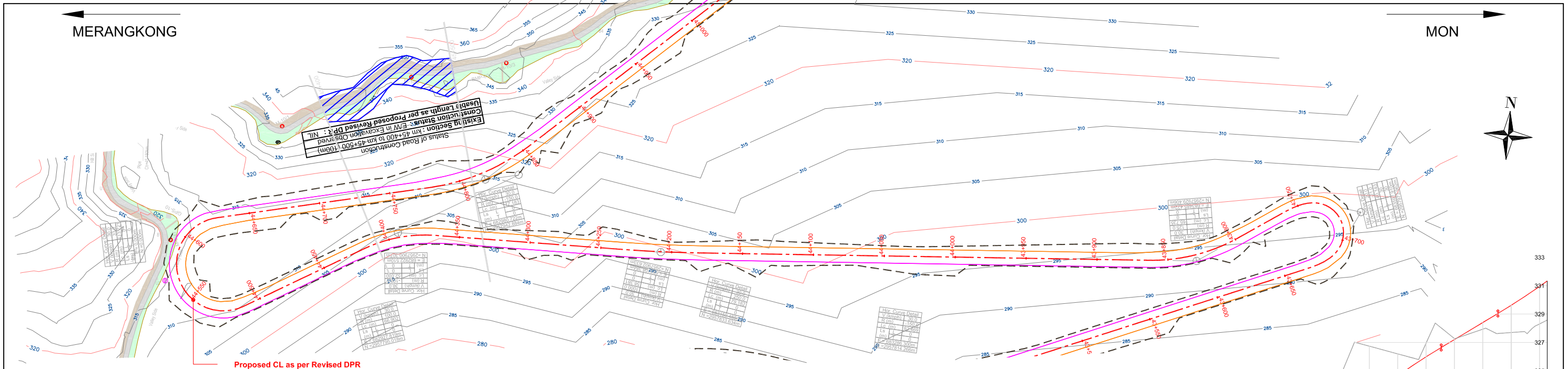
**Scale :** Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

**Title :** ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

**Page No. :** 44

**Revision Table:**

| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked  | Approved        |
|----------|-----------|-----------------|------------|----------|-------|----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & NK | Tapas Mukherjee |



|                               |   |         |                      |         |          |         |                     |         |         |         |                     |         |                             |         |                             |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|---|---------|----------------------|---------|----------|---------|---------------------|---------|---------|---------|---------------------|---------|-----------------------------|---------|-----------------------------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 297.711   | 297.907 | 298.160              | 298.473 | 298.830  | 299.190 | 299.550             | 299.910 | 300.270 | 300.630 | 300.990             | 301.350 | 301.710                     | 302.070 | 302.430                     | 302.790 | 303.150  | 303.510 | 303.870 | 304.230 | 304.590 | 304.950 | 305.310 | 305.670 | 306.030 | 306.390 | 306.750 | 307.110 | 307.470 | 307.830 | 308.190 | 308.550 | 308.910 | 309.270 | 309.630 | 309.990 | 310.350 | 310.710 | 311.070 | 311.430 | 311.790 | 312.150 | 312.510 | 312.870 | 313.230 | 313.590 | 313.950 | 314.310 | 314.670 | 315.030 | 315.390 | 315.750 | 316.110 | 316.470 | 316.830 | 317.190 | 317.550 | 317.910 | 318.270 | 318.630 | 318.990 | 319.350 | 319.710 | 320.070 | 320.430 | 320.790 | 321.150 | 321.510 | 321.870 | 322.230 | 322.590 | 322.950 | 323.310 | 323.670 | 324.030 | 324.390 | 324.750 | 325.110 | 325.470 | 325.830 | 326.190 | 326.550 | 326.910 | 327.270 | 327.630 | 327.990 | 328.350 | 328.710 | 329.070 | 329.430 | 329.790 | 330.150 | 330.510 | 330.870 | 331.230 | 331.590 | 331.950 | 332.310 | 332.670 | 333.030 |
| EXISTING LEVEL (NGL)          | 296.513   | 296.870 | 297.514              | 298.798 | 300.083  | 301.368 | 303.072             | 303.313 | 302.006 | 300.699 | 299.455             | 298.319 | 297.292                     | 300.222 | 304.518                     | 303.443 | 302.368  | 301.292 | 300.617 | 302.362 | 303.341 | 304.622 | 305.261 | 305.813 | 306.187 | 306.884 | 307.267 | 307.956 | 308.347 | 309.027 | 309.427 | 310.088 | 310.507 | 310.845 | 311.587 | 309.925 | 312.667 | 314.574 | 315.931 | 314.818 | 315.616 | 314.262 | 316.023 | 314.700 | 316.139 | 314.661 | 316.239 | 314.621 | 316.339 | 314.585 | 316.439 | 314.125 | 316.539 | 312.071 | 316.639 | 310.725 | 316.753 | 312.493 | 317.284 | 315.956 | 318.414 | 320.060 | 319.990 | 324.721 | 321.590 | 326.734 | 323.176 | 326.192 | 324.647 | 326.946 | 325.984 | 327.271 | 327.203 | 327.938 | 328.403 | 327.696 | 329.168 | 328.303 | 328.303 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| LEVEL DIFF. (FRL - NGL)       | 1.198   | 1.037   | 0.646                | -0.326  | -1.252   | -2.177  | -3.522              | -3.403  | -1.736  | -0.069  | 1.536               | 3.031   | 4.418                       | 1.848   | -2.088                      | -0.652  | 0.783    | 2.218   | 3.254   | 1.868   | 1.281   | 0.519   | 0.375   | 0.383   | 0.392   | 0.400   | 0.420   | 1.045   | 2.742   | -0.826  | -1.114  | 1.403   | 1.762   | 1.438   | 1.578   | 1.717   | 1.853   | 2.414   | 4.567   | 6.028   | 4.791   | 2.458   | -0.069  | -3.130  | -3.559  | -1.545  | -0.961  | -0.068  | 0.466   | 1.921   | 2.643   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL                    | L=315.1m  |         | R=1000.0m<br>L=58.4m |         | L=130.1m |         | R=100.0m<br>L=52.0m |         | L=94.1m |         | R=33.0m<br>L=113.7m |         | L=151.9m                    |         | R=150.0m<br>L=77.2m         |         | L=179.9m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                | 2.50%   |         | 2.50%                |         | 2.50%    |         | 4.00%               |         | 2.50%   |         | 7.00%               |         | 2.50%                       |         | 2.67%                       |         | 2.50%    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                |   |         |                      |         | 5.9      |         |                     |         |         |         | 6.5                 |         |                             |         | 5.6                         |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | L=60.0m   |         | G=1.8<br>L=325.0m    |         | L=50.0m  |         | G=5.4<br>L=155.0m   |         | L=50.0m |         | G=0.5<br>L=130.0m   |         | L=50.0m<br>G=8.0<br>L=45.0m |         | L=60.0m<br>G=6.0<br>L=40.0m |         | L=60.0m  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Geometric Improvement<br>BC = 30mm , DBM = 50MM , WMM = 250mm , GSB = 150mm , SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |                      |         |          |         |                     |         |         |         |                     |         |                             |         |                             |         |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 44+000  | 44+020  | 44+040               | 44+060  | 44+080   | 44+100  | 44+120              | 44+140  | 44+160  | 44+180  | 44+200              | 44+220  | 44+240                      | 44+260  | 44+280                      | 44+300  | 44+320   | 44+340  | 44+360  | 44+380  | 44+400  | 44+420  | 44+440  | 44+460  | 44+480  | 44+500  | 44+520  | 44+540  | 44+560  | 44+580  | 44+600  | 44+620  | 44+640  | 44+660  | 44+680  | 44+700  | 44+720  | 44+740  | 44+760  | 44+780  | 44+800  | 44+820  | 44+840  | 44+860  | 44+880  | 44+900  | 44+920  | 44+940  | 44+960  | 44+980  | 45+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

Legend :  
 Proposed CL : Existing Road :   
 Proposed Edges : Existing Hill :   
 Contours 20m Interval : Existing Valley :   
 Contours 5m Interval : Existing Hill Cutting Line :   
 Proposed Major Bridge : Existing Hill Toe Line :   
 Proposed Minor Bridge : Existing Valley Line :   
 Proposed Pipe Culvert : Important Buildings :   
 Proposed Slab Culvert : Other Buildings/Huts/Tile house :   
 Proposed Box Culvert :

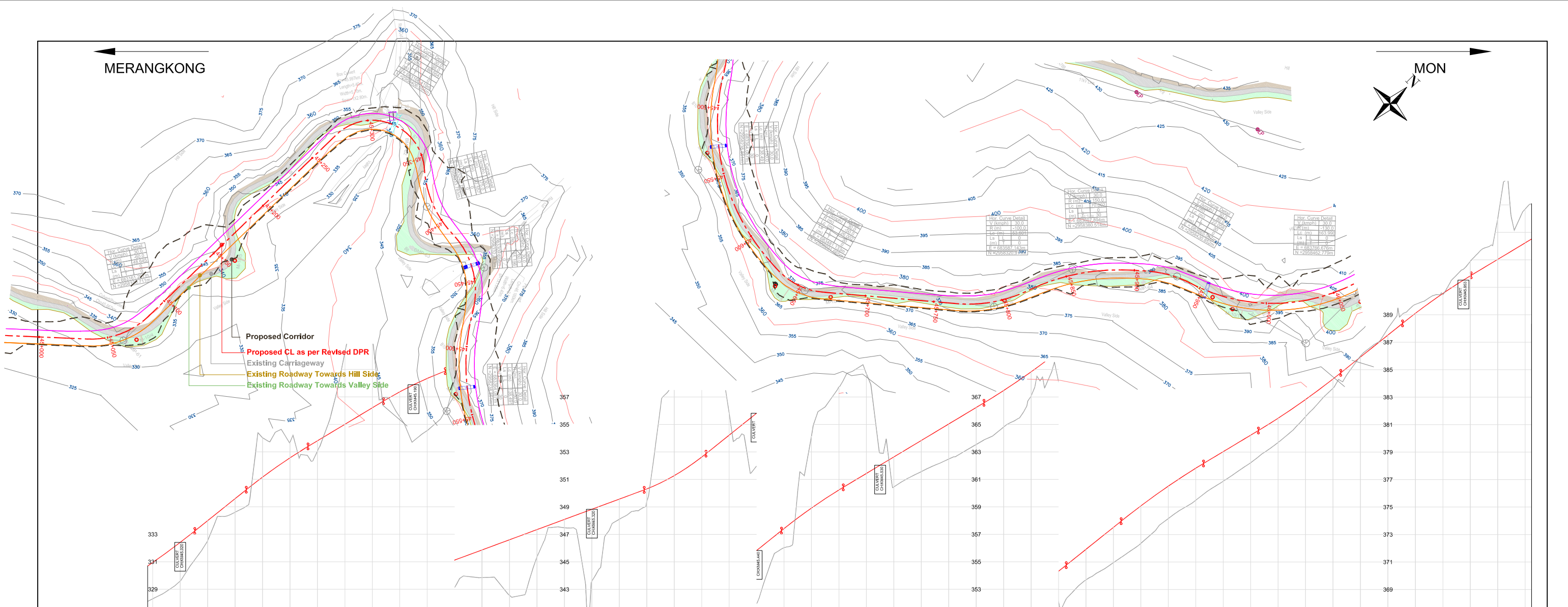
Client : Ministry of Road Transport & Highways (Government of India) Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunheboto Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal Vertical

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. 45



|                               |                       |         |   |         |         |         |  |         |   |         |                              |  |                      |                             |         |                               |         |                 |                             |         |                             |         |                     |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|-----------------------|---------|---|---------|---------|---------|--|---------|---|---------|------------------------------|--|----------------------|-----------------------------|---------|-------------------------------|---------|-----------------|-----------------------------|---------|-----------------------------|---------|---------------------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 330.947               | 332.409 | 333.990   | 335.590 | 337.159 | 338.565 | 339.803  | 341.003 | 342.203   | 343.367 | 344.344                      | 345.128  | 345.868              | 346.608                     | 347.348 | 348.088                       | 348.828 | 349.568         | 350.310                     | 351.276 | 352.625                     | 354.220 | 355.820             | 357.420 | 358.914            | 360.231 | 361.433 | 362.633 | 363.833 | 365.033 | 366.233 | 367.468 | 368.830 | 370.326 | 371.920 | 373.520 | 375.086 | 376.524 | 377.828 | 379.033 | 380.233 | 381.468 | 382.830 | 384.326 | 385.920 | 387.520 | 389.103 | 390.548 | 391.833 | 393.033 | 394.233 |
| EXISTING LEVEL (NGL)          | 328.303               | 329.598 | 332.531   | 334.607 | 340.022 | 339.695 | 338.053  | 346.231 | 347.350   | 341.539 | 340.549                      | 343.132  | 343.856              | 342.567                     | 345.362 | 347.482                       | 343.592 | 348.103         | 349.404                     | 358.033 | 364.390                     | 355.848 | 351.972             | 356.020 | 364.147            | 367.734 | 368.682 | 360.450 | 361.564 | 362.484 | 363.538 | 364.810 | 367.063 | 368.099 | 369.696 | 370.954 | 372.353 | 374.164 | 375.495 | 376.883 | 378.224 | 379.703 | 381.566 | 383.654 | 386.001 | 388.016 | 389.753 | 390.482 | 392.691 | 395.977 | 396.697 |
| LEVEL DIFF. (FRL - NGL)       | 2.643                 | 2.811   | 1.459   | 0.984   | -2.863  | -1.130  | 0.751  | -5.227  | -5.147  | 1.829   | 3.795                        | 1.996  | 2.013                | 4.042                       | 1.987   | 0.606                         | 5.237   | 1.466           | 0.906                       | -6.757  | -11.765                     | -1.627  | 3.846               | 1.399   | -5.232             | -7.502  | -7.249  | 2.184   | 2.270   | 2.549   | 2.696   | 2.658   | 1.766   | 2.227   | 2.224   | 2.567   | 2.732   | 2.359   | 2.332   | 2.151   | 2.009   | 1.765   | 1.243   | 0.671   | -0.080  | -0.495  | -0.650  | 0.066   | -1.057  | -2.944  | -2.464  |
| HORIZONTAL                    | R=60.0m<br>L=48.6m    |         | L=189.7m  |         |         |         | R=38.0m<br>L=86.6m   |         | R=75.0m<br>L=52.6m                                      |         | R=60.0m<br>L=61.2m           |  | R=150.0m<br>L=138.5m |                             |         | R=50.0m<br>L=30.0m<br>L=26.0m |         | L=97.8m         |                             |         | R=100.0m<br>L=53.6m         |         | R=150.0m<br>L=70.0m |         | L=30.0m<br>L=22.1m |         | R=80.0m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                | 6.67%<br>-6.67%       |         | 2.50%<br>-2.50%   |         |         |         | 7.00%<br>-7.00%  |         | 5.33%<br>-5.33%   |         | 6.67%<br>-6.67%              |  | 2.67%<br>-2.67%      |                             |         | 7.00%<br>-7.00%               |         | 2.50%<br>-2.50% |                             |         | 4.00%<br>-4.00%             |         | 2.67%<br>-2.67%     |         | 5.00%<br>-5.00%    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                | 6.2                   |         | 6.5   |         |         |         | 5.9  |         | 6.2   |         | 5.6                          |  |                      | 6.2                         |         | 5.9                           |         |                 | 5.6                         |         | 5.9                         |         |                     |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | G=8.0<br>L=37.5m      |         | G=6.0<br>L=45.0m<br>L=55.0m<br>L=45.0m                  |         |         |         | G=3.7<br>L=145.0m  |         | L=45.0m<br>G=8.0<br>L=55.0m                             |         | L=45.0m<br>G=6.0<br>L=102.5m |  |                      | L=60.0m<br>G=8.0<br>L=40.0m |         | L=60.0m<br>G=6.0<br>L=40.0m   |         |                 | L=60.0m<br>G=8.0<br>L=45.0m |         | L=50.0m<br>G=6.0<br>L=50.0m |         |                     |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Geometric Improvement |         | Widening on Left Side (Hill) with Geometric Improvement |         |         |         | Widening on Right Side (Valley) with Geometric Improvement |         | Widening on Left Side (Hill) with Geometric Improvement |         |                              | Widening on Right Side (Valley) with Geometric Improvement |                      |                             |         |                               |         |                 |                             |         |                             |         |                     |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 45+000                | 45+020  | 45+040  | 45+060  | 45+080  | 45+100  | 45+120   | 45+140  | 45+160  | 45+180  | 45+200                       | 45+220   | 45+240               | 45+260                      | 45+280  | 45+300                        | 45+320  | 45+340          | 45+360                      | 45+380  | 45+400                      | 45+420  | 45+440              | 45+460  | 45+480             | 45+500  | 45+520  | 45+540  | 45+560  | 45+580  | 45+600  | 45+620  | 45+640  | 45+660  | 45+680  | 45+700  | 45+720  | 45+740  | 45+760  | 45+780  | 45+800  | 45+820  | 45+840  | 45+860  | 45+880  | 45+900  | 45+920  | 45+940  | 45+960  | 45+980  | 46+000  |

Notes :  
1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed Edges :        | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  |                                   |

|          |           |                 |            |          |       |          |                 |
|----------|-----------|-----------------|------------|----------|-------|----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM / RJ   | DR       | DR    | NKS & NK | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked  | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

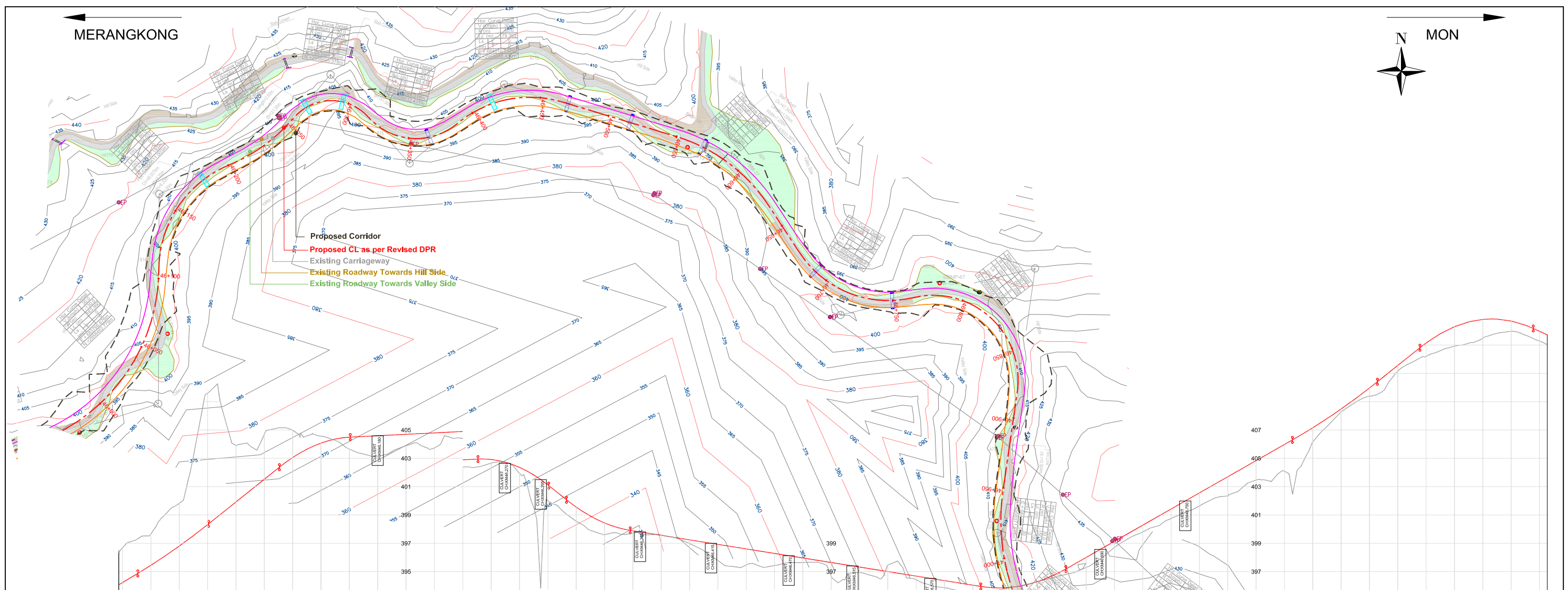
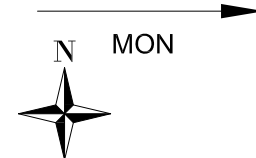
Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

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MERANGKONG



|                               |  |         |                    |         |                     |         |                    |         |                    |         |                    |         |                    |         |                     |         |                   |         |                    |         |                     |         |                  |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|--|---------|--------------------|---------|---------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|---------|---------------------|---------|-------------------|---------|--------------------|---------|---------------------|---------|------------------|---------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 394.233  | 396.697 | 397.672            | 399.823 | 398.806             | 398.320 | 399.920            | 401.520 | 403.055            | 404.074 | 404.493            | 404.594 | 404.694            | 404.794 | 404.894             | 404.919 | 404.361           | 402.018 | 403.123            | 401.557 | 400.436             | 399.882 | 399.562          | 399.242 | 398.922             | 398.602 | 397.471 | 397.282 | 397.962 | 397.642 | 397.322 | 397.002 | 396.682 | 396.362 | 396.042 | 395.721 | 395.401 | 396.120 | 396.880 | 398.000 | 399.140 | 400.280 | 401.420 | 402.560 | 403.700 | 404.840 | 405.980 | 407.120 | 408.260 | 409.400 | 405.966 | 411.560 | 413.145 | 414.293 | 414.811 | 414.899 | 413.287 | 413.972 |         |         |
| EXISTING LEVEL (NGL)          | 396.697  | 397.672 | 399.823            | 407.599 | 403.913             | 404.701 | 404.982            | 404.569 | 403.657            | 404.493 | 403.173            | 403.883 | 403.724            | 404.410 | 404.663             | 404.919 | 403.943           | 402.018 | 403.123            | 400.566 | 401.557             | 399.602 | 399.728          | 399.587 | 398.986             | 399.242 | 397.796 | 397.471 | 397.282 | 397.962 | 397.642 | 397.322 | 397.002 | 396.682 | 396.362 | 396.042 | 395.721 | 395.401 | 396.120 | 396.880 | 398.000 | 399.140 | 400.280 | 401.420 | 402.560 | 403.700 | 404.840 | 405.980 | 407.120 | 408.260 | 409.400 | 409.966 | 411.560 | 412.193 | 412.919 | 414.293 | 414.811 | 414.899 | 413.287 | 413.972 |
| LEVEL DIFF. (FRL - NGL)       | -2.464   | -2.222  | -3.017             | -9.279  | -3.992              | -3.181  | -1.928             | -0.494  | 0.837              | 1.421   | 0.811              | 1.069   | 0.483              | 0.256   | 0.418               | 1.105   | 0.991             | 0.835   | 0.155              | -0.025  | 0.257               | 1.127   | 1.131            | 0.851   | 0.317               | 0.938   | 0.391   | -0.455  | 0.260   | 0.504   | 0.496   | 0.106   | -0.030  | 0.222   | 0.705   | 0.430   | 0.479   | 0.666   | 0.922   | 1.351   | 1.378   | 1.888   | 1.002   | 0.214   | 0.590   | 0.409   | 0.953   | 1.374   | 1.328   | 0.732   | 0.684   |         |         |         |         |         |         |         |         |         |
| HORIZONTAL                    | R=130.0m<br>L=164.0m   |         | R=80.0m<br>L=94.0m |         | R=120.0m<br>L=57.0m |         | R=35.0m<br>L=59.9m |         | R=45.0m<br>L=69.4m |         | R=80.0m<br>L=79.4m |         | L=83.5m            |         | R=120.0m<br>L=83.4m |         | L=39.6m           |         | R=75.0m<br>L=92.0m |         | R=60.0m<br>L=117.1m |         | L=69.8m          |         | R=150.0m<br>L=60.2m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                | 3.08%  |         | 5.00%              |         | 3.33%               |         | 7.00%              |         | 7.00%              |         | 5.00%              |         | 2.50%              |         | 3.33%               |         | 2.50%             |         | 5.33%              |         | 6.67%               |         | 2.50%            |         | 2.67%               |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                | 5.6  |         | 5.9                |         | 5.6                 |         | 6.2                |         | 5.9                |         | 5.6                |         | 5.9                |         | 5.6                 |         | 5.9               |         | 6.2                |         | 5.6                 |         | 5.9              |         | 5.6                 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | L=50.0m<br>G=8.0   |         | L=50.0m<br>G=0.5   |         | L=50.0m<br>G=0.5    |         | L=90.0m<br>G=0.5   |         | L=50.0m<br>G=0.5   |         | L=45.0m<br>G=-1.6  |         | L=247.5m<br>G=-1.6 |         | L=60.0m<br>G=5.7    |         | L=160.0m<br>G=5.7 |         | L=60.0m<br>G=8.0   |         | L=30.0m<br>G=8.0    |         | L=80.0m<br>G=8.0 |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm, DBM = 50MM, WMM = 250mm, GSB = 150mm, SG = 500mm ( CBR > 8% @ 97% @ MDD ) |         |                    |         |                     |         |                    |         |                    |         |                    |         |                    |         |                     |         |                   |         |                    |         |                     |         |                  |         |                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 46+000   | 46+020  | 46+040             | 46+060  | 46+080              | 46+100  | 46+120             | 46+140  | 46+160             | 46+180  | 46+200             | 46+220  | 46+240             | 46+260  | 46+280              | 46+300  | 46+320            | 46+340  | 46+360             | 46+380  | 46+400              | 46+420  | 46+440           | 46+460  | 46+480              | 46+500  | 46+520  | 46+540  | 46+560  | 46+580  | 46+600  | 46+620  | 46+640  | 46+660  | 46+680  | 46+700  | 46+720  | 46+740  | 46+760  | 46+780  | 46+800  | 46+820  | 46+840  | 46+860  | 46+880  | 46+900  | 46+920  | 46+940  | 46+960  | 46+980  | 47+000  |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

Legend :

- Proposed CL : [Red line]
- Proposed Edges : [Red dashed line]
- Contours 20m Interval : [Red line]
- Contours 5m Interval : [Blue line]
- Proposed Major Bridge : [Green line]
- Proposed Minor Bridge : [Blue line]
- Proposed Pipe Culvert : [Blue line]
- Proposed Slab Culvert : [Blue line]
- Proposed Box Culvert : [Blue line]
- Existing Road : [Grey line]
- Existing Hill : [Brown line]
- Existing Valley : [Green line]
- Existing Hill Cutting Line : [Red line]
- Existing Hill Toe Line : [Red line]
- Existing Valley Line : [Red line]
- Important Buildings : [Orange box]
- Other Buildings/Huts/Tile house : [Blue box]

R0 Sep. 2017 Tender Drawings  
Stage / Report  
Topography  
Designed  
Drawn  
Checked  
Approved

Client : Ministry of Road Transport & Highways (Government of India)  
Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftsero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

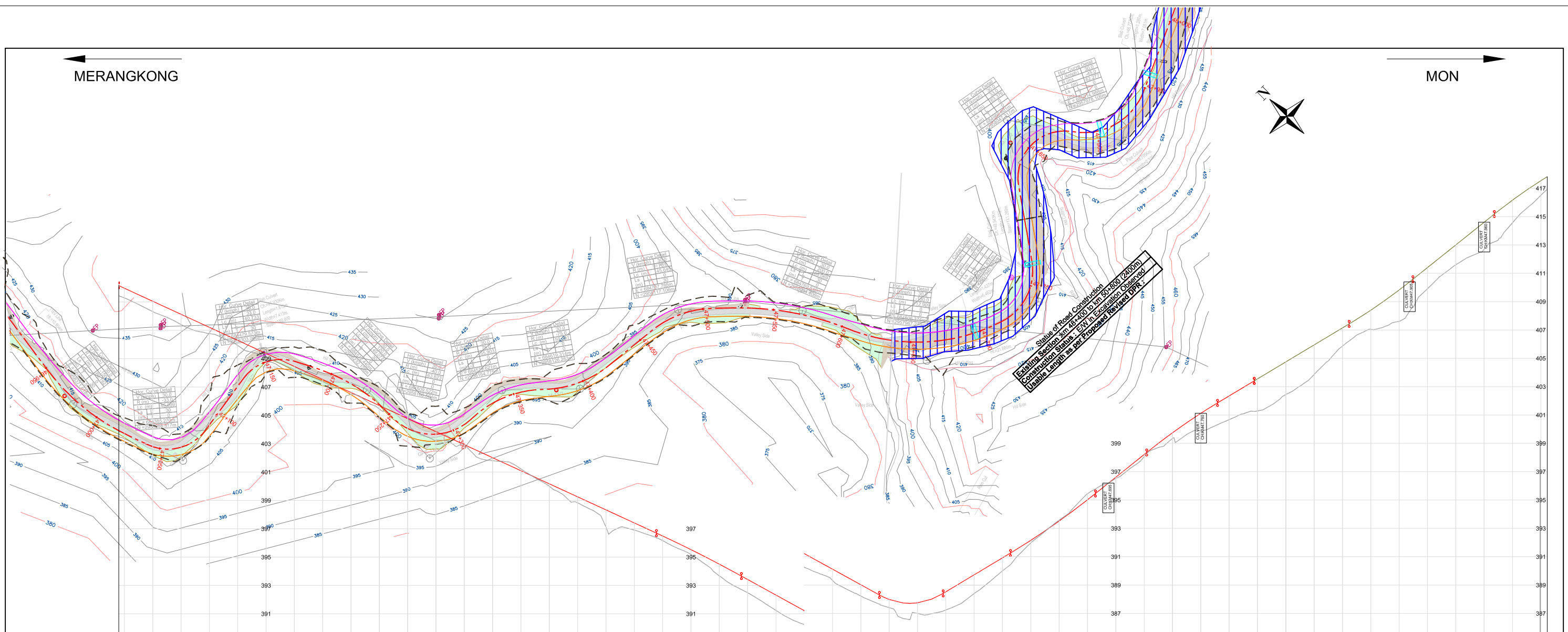
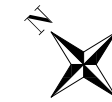
Scale : Horizontal 1:50, 1:75, 1:100  
Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

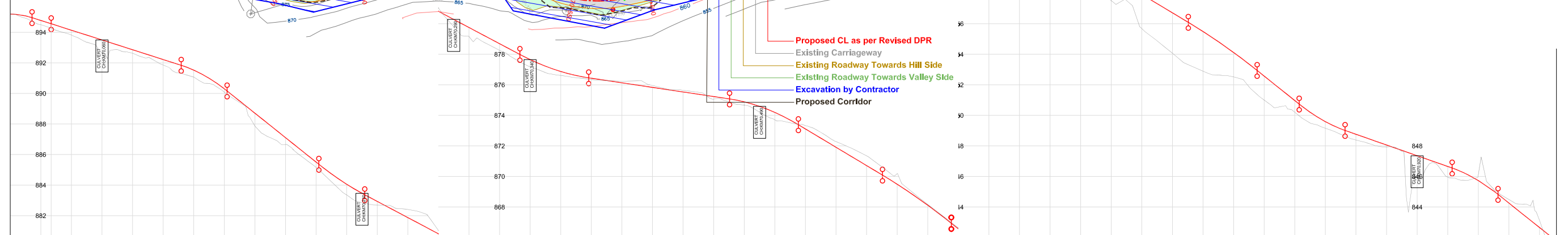
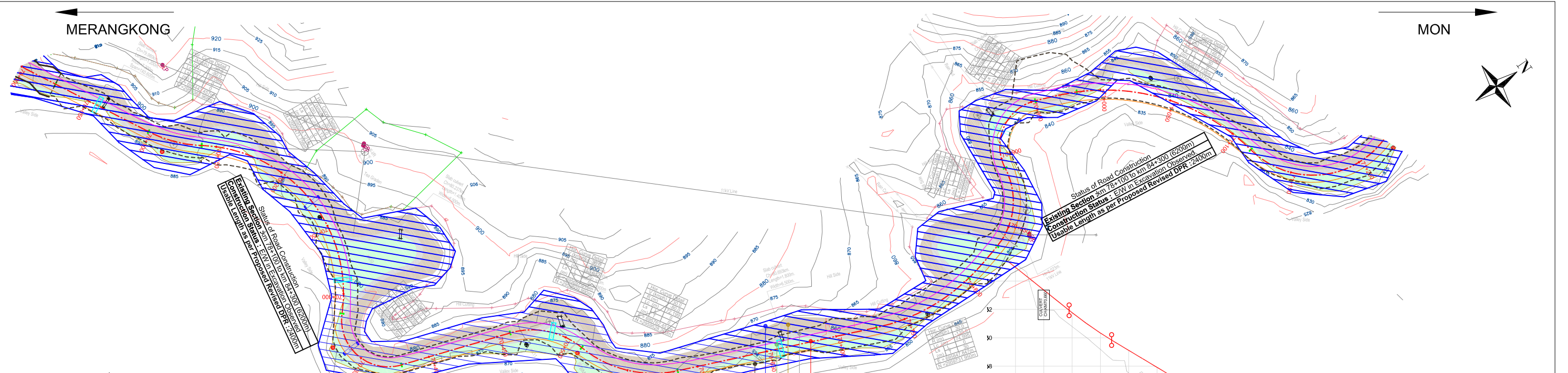
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MERANGKONG

MON



|                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       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        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     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|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------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| PROPOSED LEVEL (FRL) | 413.972 | 413.952 | 412.132 | 411.212 | 410.292 | 409.372 | 408.452 | 407.532 | 406.612 | 405.692 | 404.772 | 403.852 | 402.932 | 402.012 | 401.092 | 400.172 | 399.252 | 388.332 | 387.412 | 386.490 | 385.572 | 384.650 | 383.732 | 382.812 | 381.892 | 380.972 | 380.052 | 379.132 | 378.212 | 377.292 | 376.372 | 375.452 | 374.532 | 373.612 | 372.692 | 371.772 | 370.852 | 369.932 | 369.012 | 368.092 | 367.172 | 366.252 | 365.332 | 364.412 | 363.492 | 362.572 | 361.652 | 360.732 | 359.812 | 358.892 | 357.972 | 357.052 | 356.132 | 355.212 | 354.292 | 353.372 | 352.452 | 351.532 | 350.612 | 349.692 | 348.772 | 347.852 | 346.932 | 346.012 | 345.092 | 344.172 | 343.252 | 342.332 | 341.412 | 340.492 | 339.572 | 338.652 | 337.732 | 336.812 | 335.892 | 334.972 | 334.052 | 333.132 | 332.212 | 331.292 | 330.372 | 329.452 | 328.532 | 327.612 | 326.692 | 325.772 | 324.852 | 323.932 | 323.012 | 322.092 | 321.172 | 320.252 | 319.332 | 318.412 | 317.492 | 316.572 | 315.652 | 314.732 | 313.812 | 312.892 | 311.972 | 311.052 | 310.132 | 309.212 | 308.292 | 307.372 | 306.452 | 305.532 | 304.612 | 303.692 | 302.772 | 301.852 | 300.932 | 300.012 | 299.092 | 298.172 | 297.252 | 296.332 | 295.412 | 294.492 | 293.572 | 292.652 | 291.732 | 290.812 | 289.892 | 288.972 | 288.052 | 287.132 | 286.212 | 285.292 | 284.372 | 283.452 | 282.532 | 281.612 | 280.692 | 279.772 | 278.852 | 277.932 | 277.012 | 276.092 | 275.172 | 274.252 | 273.332 | 272.412 | 271.492 | 270.572 | 269.652 | 268.732 | 267.812 | 266.892 | 265.972 | 265.052 | 264.132 | 263.212 | 262.292 | 261.372 | 260.452 | 259.532 | 258.612 | 257.692 | 256.772 | 255.852 | 254.932 | 254.012 | 253.092 | 252.172 | 251.252 | 250.332 | 249.412 | 248.492 | 247.572 | 246.652 | 245.732 | 244.812 | 243.892 | 242.972 | 242.052 | 241.132 | 240.212 | 239.292 | 238.372 | 237.452 | 236.532 | 235.612 | 234.692 | 233.772 | 232.852 | 231.932 | 231.012 | 230.092 | 229.172 | 228.252 | 227.332 | 226.412 | 225.492 | 224.572 | 223.652 | 222.732 | 221.812 | 220.892 | 219.972 | 219.052 | 218.132 | 217.212 | 216.292 | 215.372 | 214.452 | 213.532 | 212.612 | 211.692 | 210.772 | 209.852 | 208.932 | 208.012 | 207.092 | 206.172 | 205.252 | 204.332 | 203.412 | 202.492 | 201.572 | 200.652 | 199.732 | 198.812 | 197.892 | 196.972 | 196.052 | 195.132 | 194.212 | 193.292 | 192.372 | 191.452 | 190.532 | 189.612 | 188.692 | 187.772 | 186.852 | 185.932 | 185.012 | 184.092 | 183.172 | 182.252 | 181.332 | 180.412 | 179.492 | 178.572 | 177.652 | 176.732 | 175.812 | 174.892 | 173.972 | 173.052 | 172.132 | 171.212 | 170.292 | 169.372 | 168.452 | 167.532 | 166.612 | 165.692 | 164.772 | 163.852 | 162.932 | 162.012 | 161.092 | 160.172 | 159.252 | 158.332 | 157.412 | 156.492 | 155.572 | 154.652 | 153.732 | 152.812 | 151.892 | 150.972 | 150.052 | 149.132 | 148.212 | 147.292 | 146.372 | 145.452 | 144.532 | 143.612 | 142.692 | 141.772 | 140.852 | 139.932 | 139.012 | 138.092 | 137.172 | 136.252 | 135.332 | 134.412 | 133.492 | 132.572 | 131.652 | 130.732 | 129.812 | 128.892 | 127.972 | 127.052 | 126.132 | 125.212 | 124.292 | 123.372 | 122.452 | 121.532 | 120.612 | 119.692 | 118.772 | 117.852 | 116.932 | 116.012 | 115.092 | 114.172 | 113.252 | 112.332 | 111.412 | 110.492 | 109.572 | 108.652 | 107.732 | 106.812 | 105.892 | 104.972 | 104.052 | 103.132 | 102.212 | 101.292 | 100.372 | 99.452 | 98.532 | 97.612 | 96.692 | 95.772 | 94.852 | 93.932 | 93.012 | 92.092 | 91.172 | 90.252 | 89.332 | 88.412 | 87.492 | 86.572 | 85.652 | 84.732 | 83.812 | 82.892 | 81.972 | 81.052 | 80.132 | 79.212 | 78.292 | 77.372 | 76.452 | 75.532 | 74.612 | 73.692 | 72.772 | 71.852 | 70.932 | 70.012 | 69.092 | 68.172 | 67.252 | 66.332 | 65.412 | 64.492 | 63.572 | 62.652 | 61.732 | 60.812 | 59.892 | 58.972 | 58.052 | 57.132 | 56.212 | 55.292 | 54.372 | 53.452 | 52.532 | 51.612 | 50.692 | 49.772 | 48.852 | 47.932 | 47.012 | 46.092 | 45.172 | 44.252 | 43.332 | 42.412 | 41.492 | 40.572 | 39.652 | 38.732 | 37.812 | 36.892 | 35.972 | 35.052 | 34.132 | 33.212 | 32.292 | 31.372 | 30.452 | 29.532 | 28.612 | 27.692 | 26.772 | 25.852 | 24.932 | 24.012 | 23.092 | 22.172 | 21.252 | 20.332 | 19.412 | 18.492 | 17.572 | 16.652 | 15.732 | 14.812 | 13.892 | 12.972 | 12.052 | 11.132 | 10.212 | 9.292 | 8.372 | 7.452 | 6.532 | 5.612 | 4.692 | 3.772 | 2.852 | 1.932 | 1.012 | 0.092 | -0.812 | -1.732 | -2.652 | -3.572 | -4.492 | -5.412 | -6.332 | -7.252 | -8.172 | -9.092 | -10.012 | -10.932 | -11.852 | -12.772 | -13.692 | -14.612 | -15.532 | -16.452 | -17.372 | -18.292 | -19.212 | -20.132 | -21.052 | -21.972 | -22.892 | -23.812 | -24.732 | -25.652 | -26.572 | -27.492 | -28.412 | -29.332 | -30.252 | -31.172 | -32.092 | -33.012 | -33.932 | -34.852 | -35.772 | -36.692 | -37.612 | -38.532 | -39.452 | -40.372 | -41.292 | -42.212 | -43.132 | -44.052 | -44.972 | -45.892 | -46.812 | -47.732 | -48.652 | -49.572 | -50.492 | -51.412 | -52.332 | -53.252 | -54.172 | -55.092 | -56.012 | -56.932 | -57.852 | -58.772 | -59.692 | -60.612 | -61.532 | -62.452 | -63.372 | -64.292 | -65.212 | -66.132 | -67.052 | -67.972 | -68.892 | -69.812 | -70.732 | -71.652 | -72.572 | -73.492 | -74.412 | -75.332 | -76.252 | -77.172 | -78.092 | -79.012 | -79.932 | -80.852 | -81.772 | -82.692 | -83.612 | -84.532 | -85.452 | -86.372 | -87.292 | -88.212 | -89.132 | -90.052 | -90.972 | -91.892 | -92.812 | -93.732 | -94.652 | -95.572 | -96.492 | -97.412 | -98.332 | -99.252 | -100.172 | -101.092 | -102.012 | -102.932 | -103.852 | -104.772 | -105.692 | -106.612 | -107.532 | -108.452 | -109.372 | -110.292 | -111.212 | -112.132 | -113.052 | -113.972 | -114.892 | -115.812 | -116.732 | -117.652 | -118.572 | -119.492 | -120.412 | -121.332 | -122.252 | -123.172 | -124.092 | -125.012 | -125.932 | -126.852 | -127.772 | -128.692 | -129.612 | -130.532 | -131.452 | -132.372 | -133.292 | -134.212 | -135.132 | -136.052 | -136.972 | -137.892 | -138.812 | -139.732 | -140.652 | -141.572 | -142.492 | -143.412 | -144.332 | -145.252 | -146.172 | -147.092 | -148.012 | -148.932 | -149.852 | -150.772 | -151.692 | -152.612 | -153.532 | -154.452 | -155.372 | -156.292 | -157.212 | -158.132 | -159.052 | -160.012 | -160.932 | -161.852 | -162.772 | -163.692 | -164.612 | -165.532 | -166.452 | -167.372 | -168.292 | -169.212 | -170.132 | -171.052 | -171.972 | -172.892 | -173.812 | -174.732 | -175.652 | -176.572 | -177.492 | -178.412 | -179.332 | -180.252 | -181.172 | -182.092 | -183.012 | -183.932 | -184.852 | -185.772 | -186.692 | -187.612 | -188.532 | -189.452 | -190.372 | -191.292 | -192.212 | -193.132 | -194.052 | -194.972 | -195.892 | -196.812 | -197.732 | -198.652 | -199.572 | -200.492 | -201.412 | -202.332 | -203.252 | -204.172 | -205.092 | -206.012 | -206.932 | -207.852 | -208.772 | -209.692 | -210.612 | -211.532 | -212.452 | -213.372 | -214.292 | -215.212 | -216.132 | -217.052 | -217.972 | -218.892 | -219.812 | -220.732 | -221.652 | -222.572 | -223.492 | -224.412 | -225.332 | -226.252 | -227.172 | -228.092 | -229.012 | -229.932 | -230.852 | -231.772 | -232.692 | -233.612 | -234.532 | -235.452 | -236.372 | -237.292 | -238.212 | -239.132 | -240.052 | -240.972 | -241.892 | -242.812 | -243.732 | -244.652 | -245.572 | -246.492 | -247.412 | -248.332 | -249.252 | -250.172 | -251.092 | -252.012 | -252.932 | -253.852 | -254.772 | -255.692 | -256.612 | -257.532 | -258.452 | -259.372 | -260.292 | -261.212 | -262.132 | -263.052 | -263.972 | -264.892 | -265.812 | -266.732 | -267.652 | -268.572 | -269.492 | -270.412 | -271.332 | -272.252 | -273.172 | -274.092 | -275.012 | -275.932 | -276.852 | -277.772 | -278.692 | -279.612 | -280.532 | -281.452 | -282.372 | -283.292 | -284.212 | -285.132 | -286.052 | -286.972 | -287.892 | -288.812 | -289.732 | -290.652 | -291.572 | -292.492 | -293.412 | -294.332 | -295.252 | -296.172 | -297.092 | -298.012 | -298.932 | -299.852 | -300.772 | -301.692 | -302.612 | -303.532 | -304.452 | -305.372 | -306.292 | -307.212 | -308.132 | -309.052 | -310.012 | -310.932 | -311.852 | -312.772 | -313.692 | -314.612 | -315.532 | -316.452 | -317.372 | -318.292 | -319.212 | -320.132 | -321.052 | -321.972 | -322.892 | -323.812 | -324.732 | -325.652 | -326.572 | -327.492 | -328.412 | -329.332 | -330.252 | -331.172 | -332.092 | -333.012 | -333.932 | -334.852 | -335.772 | -336.692 | -337.612 | -338.532 | -339.452 | -340.372 | -341.292 | -342.212 | -343.132 | -344.052 | -344.972 | -345.892 | -346.812 | -347.732 | -348.652 | -349.572 | -350.492 | -351.412 | -352.332 | -353.252 | -354.172 | -355.092 | -356.012 | -356.932 | -357.852 | -358.772 | -359.692 | -360.612 | -361.532 | -362.452 | -363.372 | -364.292 | -365.212 | -366.132 | -367.052 | -367.972 | -368.892 | -369.812 | -370.732 | -371.652 | -372.572 | -373.492 | -374.412 | -375.332 | -376.252 | -377.172 | -378.092 | -379.012 | -379.932 | -380.852 | -381.772 | -382.692 | -383.612 | -384.532 | -385.452 | -386.372 | -387.292 | -388.212 | -389.132 | -390.052 | -390.972 | -391.892 | -392.812 | -393.732 | -394.652 | -395.572 | -396.492 | -397.412 | -398.332 | -399.252 | -400.172 | -401.092 | -402.012 | -402.932 | -403.852 | -404.772 | -405.692 | -406.612 | -407.532 | -408.452 | -409.372 | -410.292 | -411.212 | -412.132 | -413.052 | -413.972 | -414.892 | -415.812 | -416.732 | -417.652 | -418.572 | -419.492 | -420.412 | -421.332 | -422.252 | -423.172 | -424.092 | -425.012 | -425.932 | -426.852 | -427.772 | -428.692 | -429.612 | -430.532 | -431.452 | -432.372 | -433.292 | -434.212 | -435.132 | -436.052 | -436.972 | -437.892 | -438.812 | -439.732 | -440.652 | -441.572 | -442.492 | -443.412 | -444.332 | -445.252 | -446.172 | -447.092 | -448.012 | -448.932 | -449.852 | -450.772 | -451.692 | -452.612 | -453.532 | -454.452 | -455.372 | -456.292 | -457.212 | -458.132 | -459.052 | -460.012 | -460.932 | -461.852 | -462.772 | -463.692 | -464.612 | -465.532 | -466.452 | -467.372 | -468.292 | -469.212 | -470.132 | -471.052 | -471.972 | -472.892 | -473.812 | -474.732 | -475.652 | -476.572 | -477.492 | -478.412 | -479.332 | -480.252 | -481.172 | -482.092 | -483.012 | -483.932 | -484.852 | -485.772 | -486.692 | -487.612 | -488.532 | -489.452 | -490.372 | -491.292 | -492.212 | -493.132 | -494.052 | -494.972 | -495.892 | -496.812 | -497.732 | -498.652 | -499.572 | -500.492 | -501.412 | -502.332 | -503.252 | -504.172 | -505.092 | -506.012 | -506.932 | -507.852 | -508.772 | -509.692 | -510.612 | -511.532 | -512.452 | -513.372 | -514.292 | -515.212 | -516.132 | -517.052 | -517.972 | -518.892 | -519.812 | -520.732 | -521.652 | -522.572 | -523.492 | -524.412 | -525.332 | -526.252 | -527.172 | -528.092 | -529.012 | -529.932 | -530.852 | -531.772 | -532.692 | -533.612 | -534.532 | -535.452 | -536.372 | -537.292 | -538.212 | -539.132 | -540.052 | -540.972 | -541.892 | -542.812 | -543.732 | -544 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------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|                               |   |         |                    |         |                      |         |                  |         |                    |         |                   |         |                    |         |                    |         |          |         |                     |         |         |         |                    |         |                    |         |                  |         |                  |         |                  |         |         |         |                  |         |         |         |                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|---|---------|--------------------|---------|----------------------|---------|------------------|---------|--------------------|---------|-------------------|---------|--------------------|---------|--------------------|---------|----------|---------|---------------------|---------|---------|---------|--------------------|---------|--------------------|---------|------------------|---------|------------------|---------|------------------|---------|---------|---------|------------------|---------|---------|---------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 895.194   | 894.778 | 894.560            | 894.138 | 893.498              | 892.859 | 892.219          | 891.526 | 890.304            | 888.706 | 887.106           | 885.506 | 884.055            | 882.933 | 881.873            | 880.813 | 879.753  | 878.693 | 877.652             | 876.614 | 876.432 | 876.132 | 875.932            | 875.640 | 875.532            | 875.062 | 874.886          | 874.194 | 873.327          | 873.112 | 871.912          | 871.352 | 870.712 | 870.182 | 869.491          | 868.117 | 866.634 | 866.570 | 866.970          | 866.370 | 865.792 | 861.771 | 859.177 | 860.333 | 859.112 | 855.678 | 857.912 | 856.712 | 855.491 | 852.892 | 852.518 | 854.117 | 851.002 | 852.570 | 850.202 | 850.970 | 849.154 | 849.589 | 848.762 | 848.382 | 847.937 | 848.059 | 845.838 | 847.357 | 845.954 | 846.654 | 846.122 | 845.733 | 844.493 | 844.257 | 843.127 | 842.657 |         |
| EXISTING LEVEL (NGL)          | 895.206   | 894.493 | 894.258            | 893.821 | 892.657              | 892.625 | 891.858          | 891.069 | 890.084            | 887.867 | 886.657           | 885.160 | 883.354            | 882.694 | 882.407            | 881.033 | 879.164  | 878.258 | 877.181             | 876.614 | 876.339 | 876.432 | 876.236            | 875.956 | 875.640            | 875.532 | 875.062          | 874.672 | 873.708          | 873.327 | 873.112          | 872.281 | 871.352 | 870.712 | 870.182          | 869.491 | 868.171 | 866.634 | 866.570          | 866.183 | 861.995 | 860.792 | 861.771 | 859.177 | 860.333 | 859.112 | 855.678 | 857.912 | 856.712 | 855.491 | 852.892 | 852.518 | 854.117 | 851.002 | 852.570 | 850.202 | 850.970 | 849.154 | 849.589 | 848.762 | 848.382 | 847.937 | 848.059 | 845.838 | 847.357 | 845.954 | 846.654 | 846.122 | 845.733 | 844.493 | 844.257 | 843.127 | 842.657 |
| LEVEL DIFF. (FRL - NGL)       | -0.013  | 0.285   | 0.317              | 0.841   | 0.234                | 0.361   | 0.457            | 0.220   | 0.839              | 0.450   | 0.346             | 0.702   | 0.238              | -0.534  | -0.221             | 0.588   | 0.434    | 0.471   | 0.260               | 0.094   | -0.103  | -0.124  | -0.108             | 0.170   | 0.214              | 0.485   | -0.216           | -0.370  | -0.640           | -0.691  | -0.054           | -0.064  | -0.213  | 1.375   | 0.979            | 1.155   | 1.598   | 2.233   | 2.642            | 2.600   | 1.598   | 1.568   | 0.767   | 0.435   | 0.379   | 0.123   | 1.518   | 0.700   | -0.389  | -0.237  | -0.471  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL                    | L=96.8m   |         | R=90.0m<br>L=39.1m |         | R=104.0m<br>L=174.1m |         |                  |         | R=33.0m<br>L=65.9m |         | L=80.0m           |         | R=55.0m<br>L=53.6m |         | R=80.0m<br>L=72.2m |         | L=143.7m |         | R=135.0m<br>L=75.0m |         | L=30.0m |         | R=50.0m<br>L=58.8m |         | R=33.0m<br>L=59.9m |         | L=30.0m          |         |                  |         |                  |         |         |         |                  |         |         |         |                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                | 2.50%   |         | 4.44%              |         | 3.85%                |         |                  |         | 7.00%              |         | 2.50%             |         | 7.00%              |         | 5.00%              |         | 2.50%    |         | 2.96%               |         | 7.00%   |         | 7.00%              |         | 7.00%              |         | 7.00%            |         |                  |         |                  |         |         |         |                  |         |         |         |                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                | 5.9   |         | 5.9                |         | 5.6                  |         |                  |         | 6.5                |         | 6.5               |         | 6.2                |         | 6.2                |         | 5.8      |         | 6.2                 |         | 6.2     |         | 6.5                |         | 6.5                |         | 6.5              |         |                  |         |                  |         |         |         |                  |         |         |         |                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | L=35.0m   |         | L=97.0m<br>G=-3.2  |         | L=30.0m              |         | L=60.0m<br>G=8.0 |         | L=30.0m            |         | L=101.5m<br>G=5.3 |         | L=45.0m            |         | L=92.1m<br>G=1.5   |         | L=45.0m  |         | L=55.0m<br>G=6.0    |         | L=45.0m |         | L=62.5m<br>G=8.0   |         | L=30.0m            |         | L=62.5m<br>G=6.0 |         | L=45.0m<br>G=3.5 |         | L=27.5m<br>G=9.0 |         | L=30.0m |         | L=70.0m<br>G=3.5 |         | L=30.0m |         | L=47.5m<br>G=8.0 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm , DBM = 50mm , WMM = 250mm , GSB = 150mm , SG = 500mm (CBR > 8 % @ 97 % of MDD) |         |                    |         |                      |         |                  |         |                    |         |                   |         |                    |         |                    |         |          |         |                     |         |         |         |                    |         |                    |         |                  |         |                  |         |                  |         |         |         |                  |         |         |         |                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 70+000  | 70+020  | 70+027             | 70+040  | 70+060               | 70+080  | 70+100           | 70+120  | 70+140             | 70+160  | 70+180            | 70+200  | 70+220             | 70+240  | 70+260             | 70+280  | 70+300   | 70+320  | 70+340              | 70+360  | 70+380  | 70+400  | 70+420             | 70+440  | 70+460             | 70+480  | 70+500           | 70+520  | 70+540           | 70+560  | 70+580           | 70+600  | 70+620  | 70+640  | 70+660           | 70+680  | 70+700  | 70+720  | 70+740           | 70+760  | 70+780  | 70+800  | 70+820  | 70+840  | 70+860  | 70+880  | 70+900  | 70+920  | 70+940  | 70+960  | 70+980  | 71+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

Legend :

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed Edges :        | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  | Excavation by Contractor :        |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM/RJ     | HK       | HK    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

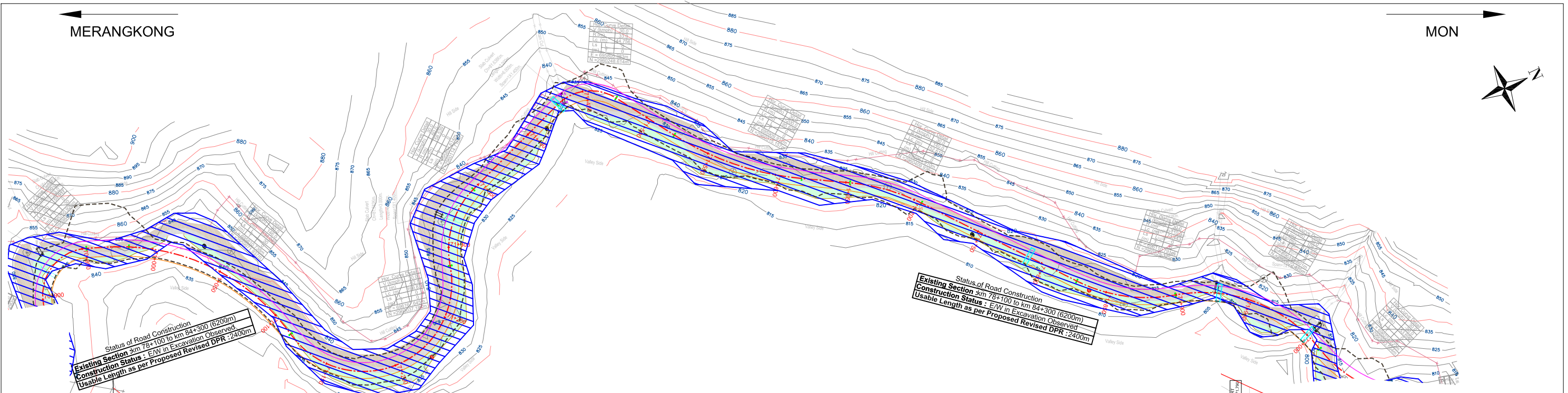
Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM - 71

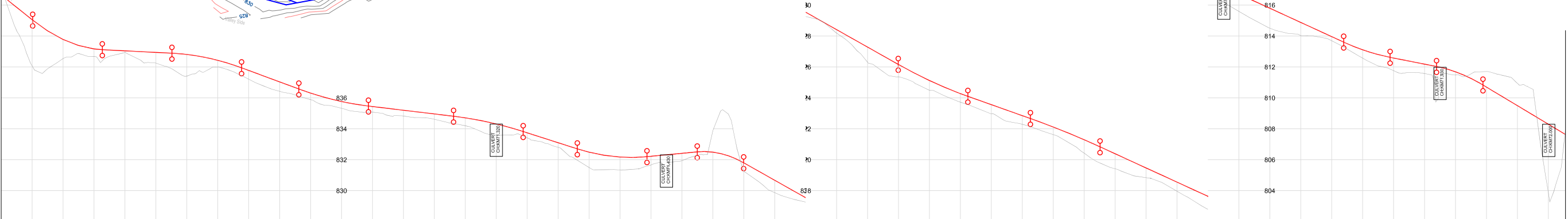
MERANGKONG

MON



Status of Road Construction  
Existing Section : km 78+100 to km 84+300 (6200m)  
Construction Status : E/W in Excavation Observed  
Usable Length as per Proposed Revised DPR : 2400m

Status of Road Construction  
Existing Section : km 78+100 to km 84+300 (6200m)  
Construction Status : E/W in Excavation Observed  
Usable Length as per Proposed Revised DPR : 2400m



|                               |  |         |                     |         |                    |         |         |         |                    |         |         |         |                     |         |         |         |   |         |          |         |                     |         |                      |         |         |         |         |         |         |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|--|---------|---------------------|---------|--------------------|---------|---------|---------|--------------------|---------|---------|---------|---------------------|---------|---------|---------|---|---------|----------|---------|---------------------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 842.037  | 841.057 | 839.778             | 839.165 | 839.041            | 838.941 | 838.808 | 838.429 | 837.773            | 837.033 | 836.309 | 835.765 | 835.441             | 835.201 | 834.960 | 834.707 | 834.311   | 833.739 | 833.100  | 832.488 | 832.173             | 831.659 | 832.224              | 831.941 | 832.414 | 833.898 | 832.492 | 831.257 | 831.798 | 830.670 | 829.541 | 828.413 | 827.285           | 826.157 | 825.123 | 824.493 | 823.722 | 824.276 | 823.561 | 822.976 | 822.852 | 822.117 | 821.627 | 821.283 | 820.427 | 819.416 | 820.388 | 819.470 | 818.841 | 817.963 | 818.552 | 817.634 | 816.790 | 816.716 | 815.597 | 816.798 | 814.507 | 815.798 | 814.880 | 814.025 | 814.880 | 813.962 | 813.110 | 812.572 | 811.761 | 812.578 | 811.687 | 811.574 | 812.183 | 811.479 | 811.687 | 810.698 | 809.498 | 810.943 | 809.498 | 808.871 | 808.298 |
| EXISTING LEVEL (NGL)          | 843.127  | 838.074 | 838.543             | 838.682 | 838.946            | 838.252 | 837.406 | 837.992 | 837.208            | 836.423 | 835.687 | 835.326 | 835.075             | 834.826 | 834.614 | 834.196 | 833.583   | 833.414 | 832.799  | 832.100 | 831.496             | 831.333 | 831.659              | 832.224 | 831.941 | 833.898 | 832.492 | 831.257 | 831.798 | 830.670 | 829.541 | 828.413 | 827.285           | 826.157 | 825.123 | 824.493 | 823.722 | 824.276 | 823.561 | 822.976 | 822.852 | 822.117 | 821.627 | 821.283 | 820.427 | 819.416 | 820.388 | 819.470 | 818.841 | 817.963 | 818.552 | 817.634 | 816.790 | 816.716 | 815.597 | 816.798 | 814.507 | 815.798 | 814.880 | 814.025 | 814.880 | 813.962 | 813.110 | 812.572 | 811.761 | 812.578 | 811.687 | 811.574 | 812.183 | 811.479 | 811.687 | 810.698 | 809.498 | 810.943 | 809.498 | 808.871 | 808.298 |
| LEVEL DIFF. (FRL - NGL)       | -1.471   | 2.982   | 1.234               | 0.482   | 0.095              | 0.689   | 1.401   | 0.437   | 0.584              | 0.610   | 0.421   | 0.438   | 0.365               | 0.375   | 0.347   | 0.511   | 0.729   | 0.326   | 0.302    | 0.991   | 0.840               | 0.564   | 0.473                | -1.407  | 0.540   | 0.800   | 0.280   | 0.227   | 0.976   | 0.797   | 0.630   | 0.555   | 0.585             | 0.559   | 0.490   | 0.866   | 0.972   | 0.628   | 0.589   | 0.843   | 1.119   | 1.292   | 0.855   | 0.267   | 0.538   | 0.816   | 0.608   | 0.209   | -1.001  | -1.444  | 4.427   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL                    | R=146.0m<br>L=134.0m                                       |         | R=62.5m<br>L=169.9m |         | R=60.0m<br>L=58.5m |         | L=84.2m |         | R=33.0m<br>L=44.8m |         | L=48.6m |         | R=200.0m<br>L=95.6m |         | L=34.2m |         | R=140.0m<br>L=52.6m                                     |         | L=122.3m |         | R=110.0m<br>L=71.4m |         | R=105.0m<br>L=113.8m |         |         |         |         |         |         |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                | 2.74%  |         | 6.40%               |         | 6.67%              |         | 2.50%   |         | 7.00%              |         | 2.50%   |         | 2.50%               |         | 2.50%   |         | 2.86%   |         | 2.50%    |         | 3.64%               |         | 3.81%                |         |         |         |         |         |         |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                | 5.6  |         | 5.9                 |         | 6.2                |         | 6.5     |         | 5.6                |         | 5.6     |         | 5.6                 |         | 5.6     |         | 5.6   |         | 5.6      |         | 5.6                 |         | 5.6                  |         |         |         |         |         |         |         |         |         |                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | 7.5m   |         | L=45.0m             |         | L=45.0m            |         | L=37.0m |         | L=45.0m            |         | L=55.0m |         | L=45.0m             |         | L=35.0m |         | L=45.0m   |         | G=1.0    |         | L=32.5m             |         | L=30.0m              |         | L=99.9m |         | L=45.0m |         | L=40.4m |         | L=45.0m |         | L=157.5m          |         | L=30.0m |         | L=30.0m |         | L=30.0m |         | L=30.0m |         | L=70.0m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Widening on Right Side (Valley) with Geometric Improvement |         |                     |         |                    |         |         |         |                    |         |         |         |                     |         |         |         | Widening on Left Side (Hill) with Geometric Improvement |         |          |         |                     |         |                      |         |         |         |         |         |         |         |         |         | Widening on Right |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 71+000   | 71+020  | 71+040              | 71+060  | 71+080             | 71+100  | 71+120  | 71+140  | 71+160             | 71+180  | 71+200  | 71+220  | 71+240              | 71+260  | 71+280  | 71+300  | 71+320  | 71+340  | 71+360   | 71+380  | 71+400              | 71+420  | 71+440               | 71+460  | 71+480  | 71+500  | 71+520  | 71+540  | 71+560  | 71+580  | 71+600  | 71+620  | 71+640            | 71+660  | 71+680  | 71+700  | 71+720  | 71+740  | 71+760  | 71+780  | 71+800  | 71+820  | 71+840  | 71+860  | 71+880  | 71+900  | 71+920  | 71+940  | 71+960  | 71+980  | 72+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

Legend :

|                         |  |                                   |  |
|-------------------------|--|-----------------------------------|--|
| Proposed CL :           |  | Existing Road :                   |  |
| Proposed Edges :        |  | Existing Hill :                   |  |
| Contours 20m Interval : |  | Existing Valley :                 |  |
| Contours 5m Interval :  |  | Existing Hill Cutting Line :      |  |
| Proposed Major Bridge : |  | Existing Hill Toe Line :          |  |
| Proposed Minor Bridge : |  | Existing Valley Line :            |  |
| Proposed Pipe Culvert : |  | Important Buildings :             |  |
| Proposed Slab Culvert : |  | Other Buildings/Huts/Tile house : |  |
| Proposed Box Culvert :  |  | Excavation by Contractor :        |  |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM/RJ     | HK       | HK    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

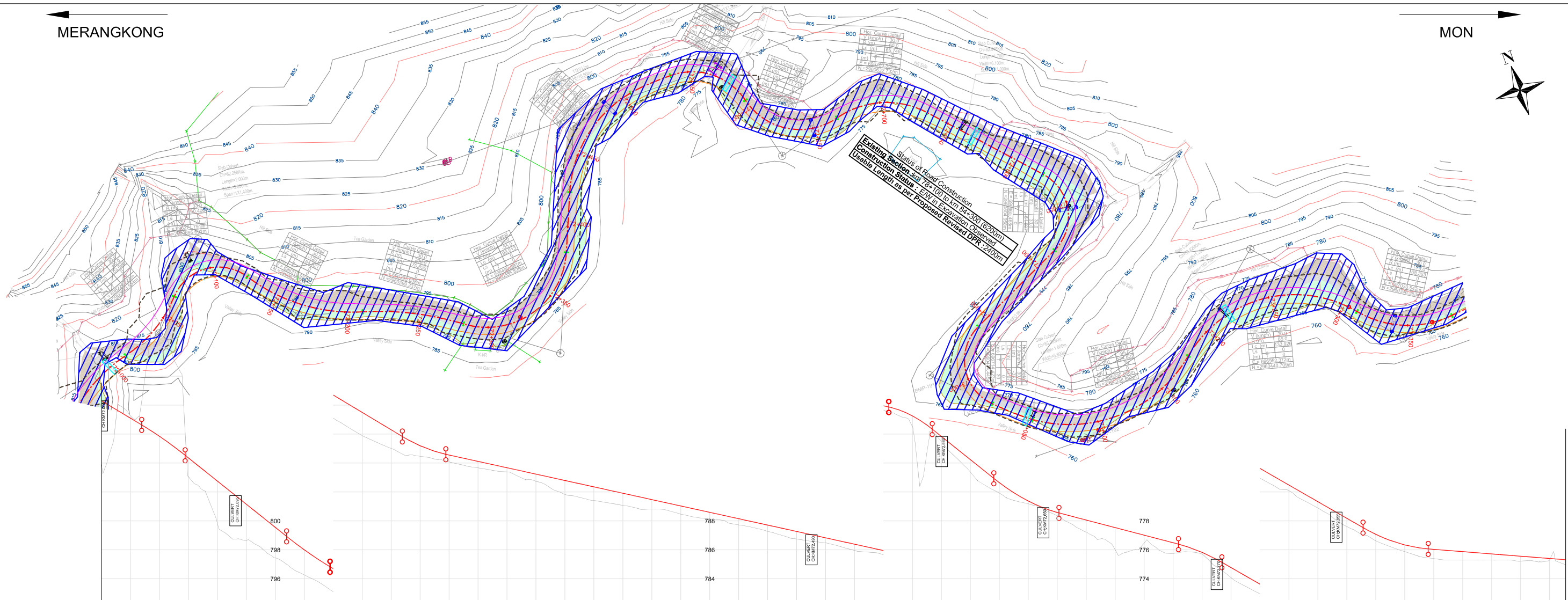
Scale : Horizontal 0 50 75 100, Vertical 0 5 7.5 10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

Page No. : MTM - 72

MERANGKONG

MON



|                               |   |                    |                    |                              |                     |                    |         |                    |         |                    |                    |                    |         |                    |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------------------------|---|--------------------|--------------------|------------------------------|---------------------|--------------------|---------|--------------------|---------|--------------------|--------------------|--------------------|---------|--------------------|---------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| PROPOSED LEVEL (FRL)          | 803.239   | 803.971            | 807.098            | 805.848                      | 803.624             | 803.353            | 802.753 | 801.153            | 799.553 | 798.003            | 796.698            | 795.498            | 794.298 | 793.194            | 792.082 | 792.564            | 791.669 | 792.114 | 791.389 | 791.674 | 791.234 | 790.794 | 790.354 | 789.914 | 789.474 | 788.824 | 789.034 | 788.487 | 788.834 | 788.962 | 788.394 | 788.668 | 785.954 | 784.528 | 785.257 | 783.497 | 783.838 | 781.376 | 782.238 | 779.927 | 780.647 | 779.186 | 779.377 | 778.366 | 778.586 | 777.228 | 778.063 | 776.020 | 777.539 | 776.468 | 777.016 | 775.756 | 776.493 | 775.714 | 775.831 | 774.089 | 774.779 | 772.951 | 773.630 | 772.091 | 772.480 | 770.894 | 771.331 | 769.610 | 770.182 | 768.629 | 769.075 | 767.879 | 768.340 | 767.398 | 766.038 | 767.297 | 767.880 | 767.292 | 767.722 | 767.230 | 767.564 | 767.295 | 767.406 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| EXISTING LEVEL (NGL)          | 803.971   | 807.261            | 813.624            | 803.056                      | 799.829             | 802.753            | 801.153 | 797.446            | 799.553 | 796.271            | 798.003            | 795.108            | 796.698 | 793.899            | 795.498 | 793.011            | 794.298 | 792.468 | 793.194 | 792.082 | 792.564 | 791.669 | 792.114 | 791.389 | 791.674 | 791.234 | 790.744 | 791.234 | 789.835 | 790.794 | 789.407 | 790.354 | 789.079 | 789.914 | 788.824 | 789.474 | 788.488 | 789.034 | 788.132 | 788.594 | 787.725 | 788.154 | 787.284 | 787.714 | 786.756 | 787.274 | 786.487 | 786.834 | 785.962 | 786.394 | 785.668 | 785.954 | 784.528 | 785.257 | 783.497 | 783.838 | 781.376 | 782.238 | 779.927 | 780.647 | 779.186 | 779.377 | 778.366 | 778.586 | 777.228 | 778.063 | 776.020 | 777.539 | 776.468 | 777.016 | 775.756 | 776.493 | 775.714 | 775.831 | 774.089 | 774.779 | 772.951 | 773.630 | 772.091 | 772.480 | 770.894 | 771.331 | 769.610 | 770.182 | 768.629 | 769.075 | 767.879 | 768.340 | 767.398 | 766.038 | 767.297 | 767.880 | 767.292 | 767.722 | 767.230 | 767.564 | 767.295 | 767.406 |
| LEVEL DIFF. (FRL - NGL)       | 4.427   | -0.163             | -7.775             | 1.297                        | 2.925               | 2.501              | 2.108   | 1.733              | 1.590   | 1.599              | 1.288              | 0.726              | 0.472   | 0.446              | 0.285   | 0.490              | 0.960   | 0.948   | 0.836   | 0.651   | 0.567   | 0.462   | 0.429   | 0.431   | 0.518   | 0.348   | 0.433   | 0.286   | 0.729   | 0.340   | 0.861   | 0.720   | 0.192   | 0.220   | 0.835   | 1.519   | 0.549   | 0.737   | 0.117   | 0.691   | 0.678   | 0.389   | 0.437   | 0.571   | 0.447   | 0.461   | 0.639   | 0.584   | 0.430   | 0.334   | 0.111   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| HORIZONTAL                    |   | R=90.0m<br>L=53.7m | R=33.0m<br>L=60.4m | R=120.0m<br>L=84.9m          | R=200.0m<br>L=70.7m | R=55.0m<br>L=99.5m | L=41.6m | R=85.0m<br>L=83.7m | L=30.0m | R=44.0m<br>L=59.0m | R=45.0m<br>L=71.7m | R=60.0m<br>L=65.7m | L=90.7m | R=33.0m<br>L=61.6m | L=74.5m | R=33.0m<br>L=63.7m |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| SUPERELEVATION                |   | 4.44%              | 7.00%              | 3.33%                        | 2.50%               | 7.00%              | 2.50%   | 4.71%              | 7.00%   | 7.00%              | 6.67%              | 2.50%              | 7.00%   | 2.50%              | 7.00%   | 7.00%              |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CURVE WIDENING                |   | 5.9                | 6.5                | 5.6                          | 5.6                 | 6.2                | 5.9     | 6.2                | 6.2     | 6.2                | 6.2                | 6.5                |         |                    |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| VERTICAL SCHEMATIC            | 0m  | L=30.0m            | L=70.0m<br>G=-8.0  | L=30.0m<br>L=50.0m<br>G=-6.0 | L=30.0m             | L=305.9m<br>G=-2.2 | L=30.0m | L=42.5m<br>G=-8.0  | L=45.0m | L=82.5m<br>G=-2.6  | L=30.0m            | L=97.5m<br>G=-5.7  | L=45.0m | L=155.0m<br>G=-0.8 |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| WIDENING/IMPROVEMENT PROPOSAL | Widening on Right Side (Valley) with Geometric Improvement<br>BC = 30mm, DBM = 50mm, WMM = 250mm, GSB = 150mm, SG = 500mm (CBR > 8% @ 97% of MDD) |                    |                    |                              |                     |                    |         |                    |         |                    |                    |                    |         |                    |         |                    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                      | 72+000  | 72+020             | 72+040             | 72+060                       | 72+080              | 72+100             | 72+120  | 72+140             | 72+160  | 72+180             | 72+200             | 72+220             | 72+240  | 72+260             | 72+280  | 72+300             | 72+320  | 72+340  | 72+360  | 72+380  | 72+400  | 72+420  | 72+440  | 72+460  | 72+480  | 72+500  | 72+520  | 72+540  | 72+560  | 72+580  | 72+600  | 72+620  | 72+640  | 72+660  | 72+680  | 72+700  | 72+720  | 72+740  | 72+760  | 72+780  | 72+800  | 72+820  | 72+840  | 72+860  | 72+880  | 72+900  | 72+920  | 72+940  | 72+960  | 72+980  | 73+000  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

Notes :  
1) All Levels are in m unless otherwise indicated.

|                         |                                   |
|-------------------------|-----------------------------------|
| Proposed CL :           | Existing Road :                   |
| Proposed Edges :        | Existing Hill :                   |
| Contours 20m Interval : | Existing Valley :                 |
| Contours 5m Interval :  | Existing Hill Cutting Line :      |
| Proposed Major Bridge : | Existing Hill Toe Line :          |
| Proposed Minor Bridge : | Existing Valley Line :            |
| Proposed Pipe Culvert : | Important Buildings :             |
| Proposed Slab Culvert : | Other Buildings/Huts/Tile house : |
| Proposed Box Culvert :  | Excavation by Contractor :        |

|          |           |                 |            |          |       |           |                 |
|----------|-----------|-----------------|------------|----------|-------|-----------|-----------------|
| R0       | Sep. 2017 | Tender Drawings | NKM/RJ     | HK       | HK    | NKS & SKB | Tapas Mukherjee |
| Revision | Date      | Stage / Report  | Topography | Designed | Drawn | Checked   | Approved        |

Client : Ministry of Road Transport & Highways (Government of India)

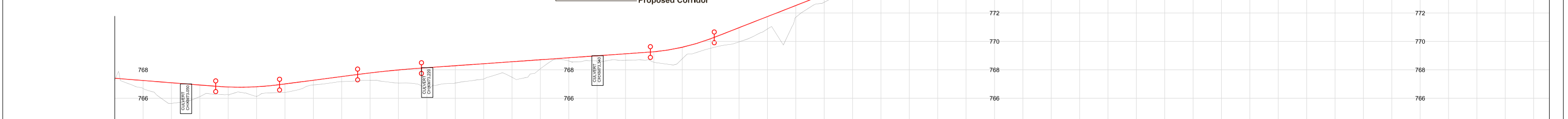
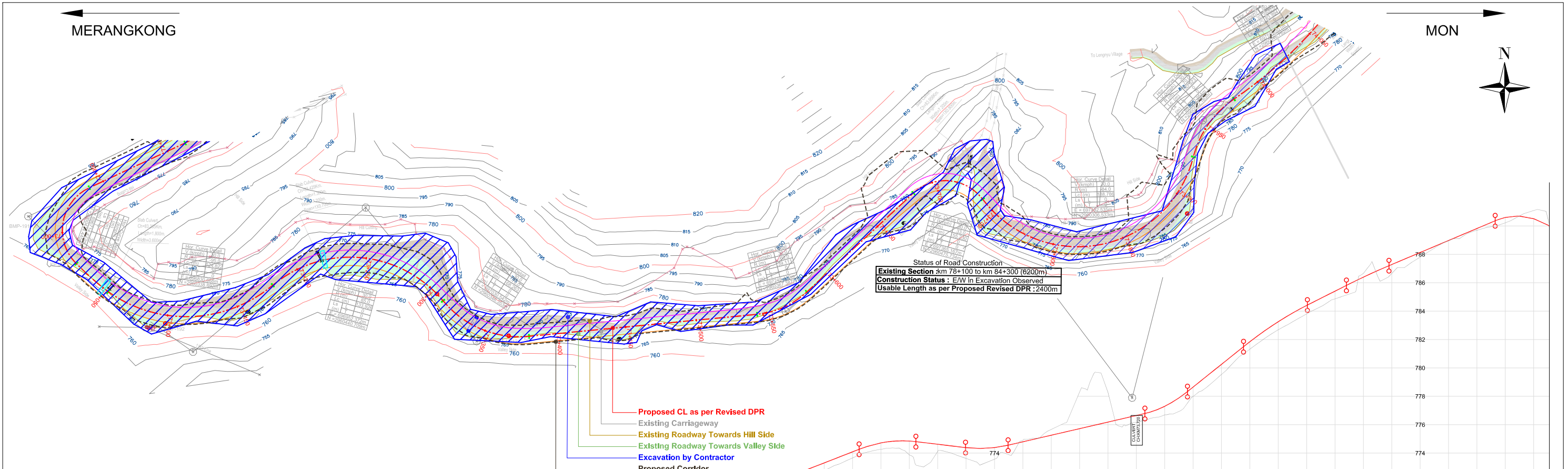
Consultant : RITES LIMITED, RITES BHAWAN, Plot No. 1, Sector- 29, Gurgaon-122001

Project : Preparation of Revised Detailed Project Report and Verification of Executed Quantities/Items for Widening to 2 Lane of Merangkong-Tamlu-Mon Road, Changtongya-Longleng Road, Chakabama-Zunhebot Road & Pftusero-Phek Road under Phase 'A' of SARDP-NE in the State of Nagaland

Scale : Horizontal 1:50, 1:75, 1:100; Vertical 1:5, 1:7.5, 1:10

Title : ALIGNMENT PLAN & PROFILE : MERANGKONG TAMLU MON ROAD

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|                      |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         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| PROPOSED LEVEL (FRL) | 767.409 | 767.248 | 767.090 | 766.932 | 766.792 | 766.809 | 766.608 | 766.268 | 767.528 | 767.783 | 767.993 | 768.150 | 768.290 | 768.430 | 768.570 | 768.710 | 768.850 | 768.990 | 769.130 | 769.272 | 769.412 | 769.550 | 769.689 | 769.829 | 769.969 | 770.109 | 770.249 | 770.389 | 770.529 | 770.669 | 770.809 | 770.949 | 771.089 | 771.229 | 771.369 | 771.509 | 771.649 | 771.789 | 771.929 | 772.069 | 772.209 | 772.349 | 772.489 | 772.629 | 772.769 | 772.909 | 773.049 | 773.189 | 773.329 | 773.469 | 773.609 | 773.749 | 773.889 | 774.029 | 774.169 | 774.309 | 774.449 | 774.589 | 774.729 | 774.869 | 775.009 | 775.149 | 775.289 | 775.429 | 775.569 | 775.709 | 775.849 | 775.989 | 776.129 | 776.269 | 776.409 | 776.549 | 776.689 | 776.829 | 776.969 | 777.109 | 777.249 | 777.389 | 777.529 | 777.669 | 777.809 | 777.949 | 780.254 | 781.847 | 783.256 | 784.401 | 785.407 | 786.395 | 787.284 | 788.129 | 788.975 | 789.820 | 790.596 | 791.085 | 790.510 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |        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      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| EXISTING LEVEL (NGL) | 767.299 | 766.685 | 765.637 | 766.115 | 766.251 | 766.128 | 766.417 | 766.939 | 767.170 | 767.285 | 767.063 | 766.779 | 767.071 | 767.351 | 767.478 | 768.079 | 768.625 | 768.586 | 768.692 | 768.535 | 768.272 | 768.518 | 768.778 | 769.071 | 769.380 | 769.700 | 770.030 | 770.370 | 770.710 | 771.050 | 771.390 | 771.730 | 772.070 | 772.410 | 772.750 | 773.090 | 773.430 | 773.770 | 774.110 | 774.450 | 774.790 | 775.130 | 775.470 | 775.810 | 776.150 | 776.490 | 776.830 | 777.170 | 777.510 | 777.850 | 778.190 | 778.530 | 778.870 | 779.210 | 779.550 | 779.890 | 780.230 | 780.570 | 780.910 | 781.250 | 781.590 | 781.930 | 782.270 | 782.610 | 782.950 | 783.290 | 783.630 | 783.970 | 784.310 | 784.650 | 784.990 | 785.330 | 785.670 | 786.010 | 786.350 | 786.690 | 787.030 | 787.370 | 787.710 | 788.050 | 788.390 | 788.730 | 789.070 | 789.410 | 789.750 | 790.090 | 790.430 | 790.770 | 791.110 | 791.450 | 791.790 | 792.130 | 792.470 | 792.810 | 793.150 | 793.490 | 793.830 | 794.170 | 794.510 | 794.850 | 795.190 | 795.530 | 795.870 | 796.210 | 796.550 | 796.890 | 797.230 | 797.570 | 797.910 | 798.250 | 798.590 | 798.930 | 799.270 | 799.610 | 799.950 | 800.290 | 800.630 | 800.970 | 801.310 | 801.650 | 801.990 | 802.330 | 802.670 | 803.010 | 803.350 | 803.690 | 804.030 | 804.370 | 804.710 | 805.050 | 805.390 | 805.730 | 806.070 | 806.410 | 806.750 | 807.090 | 807.430 | 807.770 | 808.110 | 808.450 | 808.790 | 809.130 | 809.470 | 809.810 | 810.150 | 810.490 | 810.830 | 811.170 | 811.510 | 811.850 | 812.190 | 812.530 | 812.870 | 813.210 | 813.550 | 813.890 | 814.230 | 814.570 | 814.910 | 815.250 | 815.590 | 815.930 | 816.270 | 816.610 | 816.950 | 817.290 | 817.630 | 817.970 | 818.310 | 818.650 | 818.990 | 819.330 | 819.670 | 820.010 | 820.350 | 820.690 | 821.030 | 821.370 | 821.710 | 822.050 | 822.390 | 822.730 | 823.070 | 823.410 | 823.750 | 824.090 | 824.430 | 824.770 | 825.110 | 825.450 | 825.790 | 826.130 | 826.470 | 826.810 | 827.150 | 827.490 | 827.830 | 828.170 | 828.510 | 828.850 | 829.190 | 829.530 | 829.870 | 830.210 | 830.550 | 830.890 | 831.230 | 831.570 | 831.910 | 832.250 | 832.590 | 832.930 | 833.270 | 833.610 | 833.950 | 834.290 | 834.630 | 834.970 | 835.310 | 835.650 | 835.990 | 836.330 | 836.670 | 837.010 | 837.350 | 837.690 | 838.030 | 838.370 | 838.710 | 839.050 | 839.390 | 839.730 | 840.070 | 840.410 | 840.750 | 841.090 | 841.430 | 841.770 | 842.110 | 842.450 | 842.790 | 843.130 | 843.470 | 843.810 | 844.150 | 844.490 | 844.830 | 845.170 | 845.510 | 845.850 | 846.190 | 846.530 | 846.870 | 847.210 | 847.550 | 847.890 | 848.230 | 848.570 | 848.910 | 849.250 | 849.590 | 849.930 | 850.270 | 850.610 | 850.950 | 851.290 | 851.630 | 851.970 | 852.310 | 852.650 | 852.990 | 853.330 | 853.670 | 854.010 | 854.350 | 854.690 | 855.030 | 855.370 | 855.710 | 856.050 | 856.390 | 856.730 | 857.070 | 857.410 | 857.750 | 858.090 | 858.430 | 858.770 | 859.110 | 859.450 | 859.790 | 860.130 | 860.470 | 860.810 | 861.150 | 861.490 | 861.830 | 862.170 | 862.510 | 862.850 | 863.190 | 863.530 | 863.870 | 864.210 | 864.550 | 864.890 | 865.230 | 865.570 | 865.910 | 866.250 | 866.590 | 866.930 | 867.270 | 867.610 | 867.950 | 868.290 | 868.630 | 868.970 | 869.310 | 869.650 | 869.990 | 870.330 | 870.670 | 871.010 | 871.350 | 871.690 | 872.030 | 872.370 | 872.710 | 873.050 | 873.390 | 873.730 | 874.070 | 874.410 | 874.750 | 875.090 | 875.430 | 875.770 | 876.110 | 876.450 | 876.790 | 877.130 | 877.470 | 877.810 | 878.150 | 878.490 | 878.830 | 879.170 | 879.510 | 879.850 | 880.190 | 880.530 | 880.870 | 881.210 | 881.550 | 881.890 | 882.230 | 882.570 | 882.910 | 883.250 | 883.590 | 883.930 | 884.270 | 884.610 | 884.950 | 885.290 | 885.630 | 885.970 | 886.310 | 886.650 | 886.990 | 887.330 | 887.670 | 888.010 | 888.350 | 888.690 | 889.030 | 889.370 | 889.710 | 890.050 | 890.390 | 890.730 | 891.070 | 891.410 | 891.750 | 892.090 | 892.430 | 892.770 | 893.110 | 893.450 | 893.790 | 894.130 | 894.470 | 894.810 | 895.150 | 895.490 | 895.830 | 896.170 | 896.510 | 896.850 | 897.190 | 897.530 | 897.870 | 898.210 | 898.550 | 898.890 | 899.230 | 899.570 | 899.910 | 900.250 | 900.590 | 900.930 | 901.270 | 901.610 | 901.950 | 902.290 | 902.630 | 902.970 | 903.310 | 903.650 | 903.990 | 904.330 | 904.670 | 905.010 | 905.350 | 905.690 | 906.030 | 906.370 | 906.710 | 907.050 | 907.390 | 907.730 | 908.070 | 908.410 | 908.750 | 909.090 | 909.430 | 909.770 | 910.110 | 910.450 | 910.790 | 911.130 | 911.470 | 911.810 | 912.150 | 912.490 | 912.830 | 913.170 | 913.510 | 913.850 | 914.190 | 914.530 | 914.870 | 915.210 | 915.550 | 915.890 | 916.230 | 916.570 | 916.910 | 917.250 | 917.590 | 917.930 | 918.270 | 918.610 | 918.950 | 919.290 | 919.630 | 919.970 | 920.310 | 920.650 | 920.990 | 921.330 | 921.670 | 922.010 | 922.350 | 922.690 | 923.030 | 923.370 | 923.710 | 924.050 | 924.390 | 924.730 | 925.070 | 925.410 | 925.750 | 926.090 | 926.430 | 926.770 | 927.110 | 927.450 | 927.790 | 928.130 | 928.470 | 928.810 | 929.150 | 929.490 | 929.830 | 930.170 | 930.510 | 930.850 | 931.190 | 931.530 | 931.870 | 932.210 | 932.550 | 932.890 | 933.230 | 933.570 | 933.910 | 934.250 | 934.590 | 934.930 | 935.270 | 935.610 | 935.950 | 936.290 | 936.630 | 936.970 | 937.310 | 937.650 | 937.990 | 938.330 | 938.670 | 939.010 | 939.350 | 939.690 | 940.030 | 940.370 | 940.710 | 941.050 | 941.390 | 941.730 | 942.070 | 942.410 | 942.750 | 943.090 | 943.430 | 943.770 | 944.110 | 944.450 | 944.790 | 945.130 | 945.470 | 945.810 | 946.150 | 946.490 | 946.830 | 947.170 | 947.510 | 947.850 | 948.190 | 948.530 | 948.870 | 949.210 | 949.550 | 949.890 | 950.230 | 950.570 | 950.910 | 951.250 | 951.590 | 951.930 | 952.270 | 952.610 | 952.950 | 953.290 | 953.630 | 953.970 | 954.310 | 954.650 | 954.990 | 955.330 | 955.670 | 956.010 | 956.350 | 956.690 | 957.030 | 957.370 | 957.710 | 958.050 | 958.390 | 958.730 | 959.070 | 959.410 | 959.750 | 960.090 | 960.430 | 960.770 | 961.110 | 961.450 | 961.790 | 962.130 | 962.470 | 962.810 | 963.150 | 963.490 | 963.830 | 964.170 | 964.510 | 964.850 | 965.190 | 965.530 | 965.870 | 966.210 | 966.550 | 966.890 | 967.230 | 967.570 | 967.910 | 968.250 | 968.590 | 968.930 | 969.270 | 969.610 | 969.950 | 970.290 | 970.630 | 970.970 | 971.310 | 971.650 | 971.990 | 972.330 | 972.670 | 973.010 | 973.350 | 973.690 | 974.030 | 974.370 | 974.710 | 975.050 | 975.390 | 975.730 | 976.070 | 976.410 | 976.750 | 977.090 | 977.430 | 977.770 | 978.110 | 978.450 | 978.790 | 979.130 | 979.470 | 979.810 | 980.150 | 980.490 | 980.830 | 981.170 | 981.510 | 981.850 | 982.190 | 982.530 | 982.870 | 983.210 | 983.550 | 983.890 | 984.230 | 984.570 | 984.910 | 985.250 | 985.590 | 985.930 | 986.270 | 986.610 | 986.950 | 987.290 | 987.630 | 987.970 | 988.310 | 988.650 | 988.990 | 989.330 | 989.670 | 990.010 | 990.350 | 990.690 | 991.030 | 991.370 | 991.710 | 992.050 | 992.390 | 992.730 | 993.070 | 993.410 | 993.750 | 994.090 | 994.430 | 994.770 | 995.110 | 995.450 | 995.790 | 996.130 | 996.470 | 996.810 | 997.150 | 997.490 | 997.830 | 998.170 | 998.510 | 998.850 | 999.190 | 999.530 | 999.870 | 1000.210 | 1000.550 | 1000.890 | 1001.230 | 1001.570 | 1001.910 | 1002.250 | 1002.590 | 1002.930 | 1003.270 | 1003.610 | 1003.950 | 1004.290 | 1004.630 | 1004.970 | 1005.310 | 1005.650 | 1005.990 | 1006.330 | 1006.670 | 1007.010 | 1007.350 | 1007.690 | 1008.030 | 1008.370 | 1008.710 | 1009.050 | 1009.390 | 1009.730 | 1010.070 | 1010.410 | 1010.750 | 1011.090 | 1011.430 | 1011.770 | 1012.110 | 1012.450 | 1012.790 | 1013.130 | 1013.470 | 1013.810 | 1014.150 | 1014.490 | 1014.830 | 1015.170 | 1015.510 | 1015.850 | 1016.190 | 1016.530 | 1016.870 | 1017.210 | 1017.550 | 1017.890 | 1018.230 | 1018.570 | 1018.910 | 1019.250 | 1019.590 | 1019.930 | 1020.270 | 1020.610 | 1020.950 | 1021.290 | 1021.630 | 1021.970 | 1022.310 | 1022.650 | 1022.990 | 1023.330 | 1023.670 | 1024.010 | 1024.350 | 1024.690 | 1025.030 | 1025.370 | 1025.710 | 1026.050 | 1026.390 | 1026.730 | 1027.070 | 1027.410 | 1027.750 | 1028.090 | 1028.430 | 1028.770 | 1029.110 | 1029.450 | 1029.790 | 1030.130 | 1030.470 | 1030.810 | 1031.150 | 1031.490 | 1031.830 | 1032.170 | 1032.510 | 1032.850 | 1033.190 | 1033.530 | 1033.870 | 1034.210 | 1034.550 | 1034.890 | 1035.230 | 1035.570 | 1035.910 | 1036.250 | 1036.590 | 1036.930 | 1037.270 | 1037.610 | 1037.950 | 1038.290 | 1038.630 | 1038.970 | 1039.310 | 1039.650 | 1039.990 | 1040.330 | 1040.670 | 1041.010 | 1041.350 | 1041.690 | 1042.030 | 1042.370 | 1042.710 | 1043.050 | 1043.390 | 1043.730 | 1044.070 | 1044.410 | 1044.750 | 1045.090 | 1045.430 | 1045.770 | 1046.110 | 1046.450 | 1046.790 | 1047.130 | 1047.470 | 1047.810 | 1048.150 | 1048.490 | 1048.830 | 1049.170 | 1049.510 | 1049.850 | 1050.190 | 1050.530 | 1050.870 | 1051.210 | 1051.550 | 1051.890 | 1052.230 | 1052.570 | 1052.910 | 1053.250 | 1053.590 | 1053.930 | 1054.270 | 1054.610 | 1054.950 | 1055.290 | 1055.630 | 1055.970 | 1056.310 | 1056.650 | 1056.990 | 1057.330 | 1057.670 | 1058.010 | 1058.350 | 1058.690 | 1059.030 | 1059.370 | 1059.710 | 1060.050 | 1060.390 | 1060.730 | 1061.070 | 1061.410 | 1061.750 | 1062.090 | 1062.430 | 1062.770 | 1063.110 | 1063.450 | 1063.790 | 1064.130 | 1064.470 | 1064.810 | 1065.150 | 1065.490 | 1065.830 | 1066.170 |

