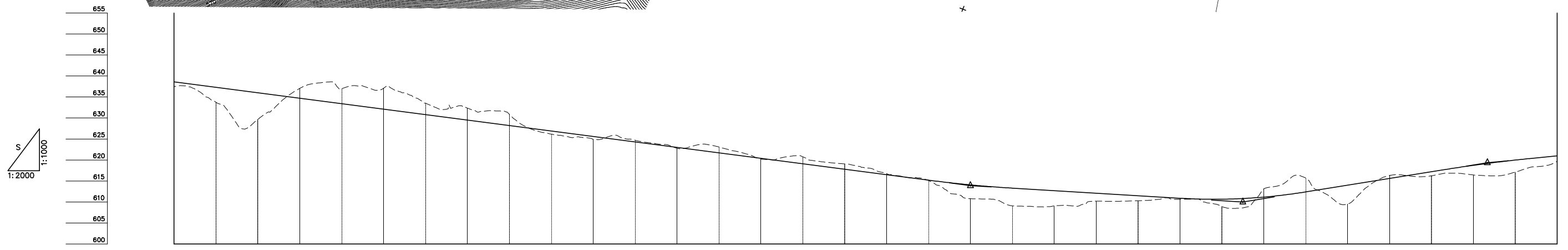
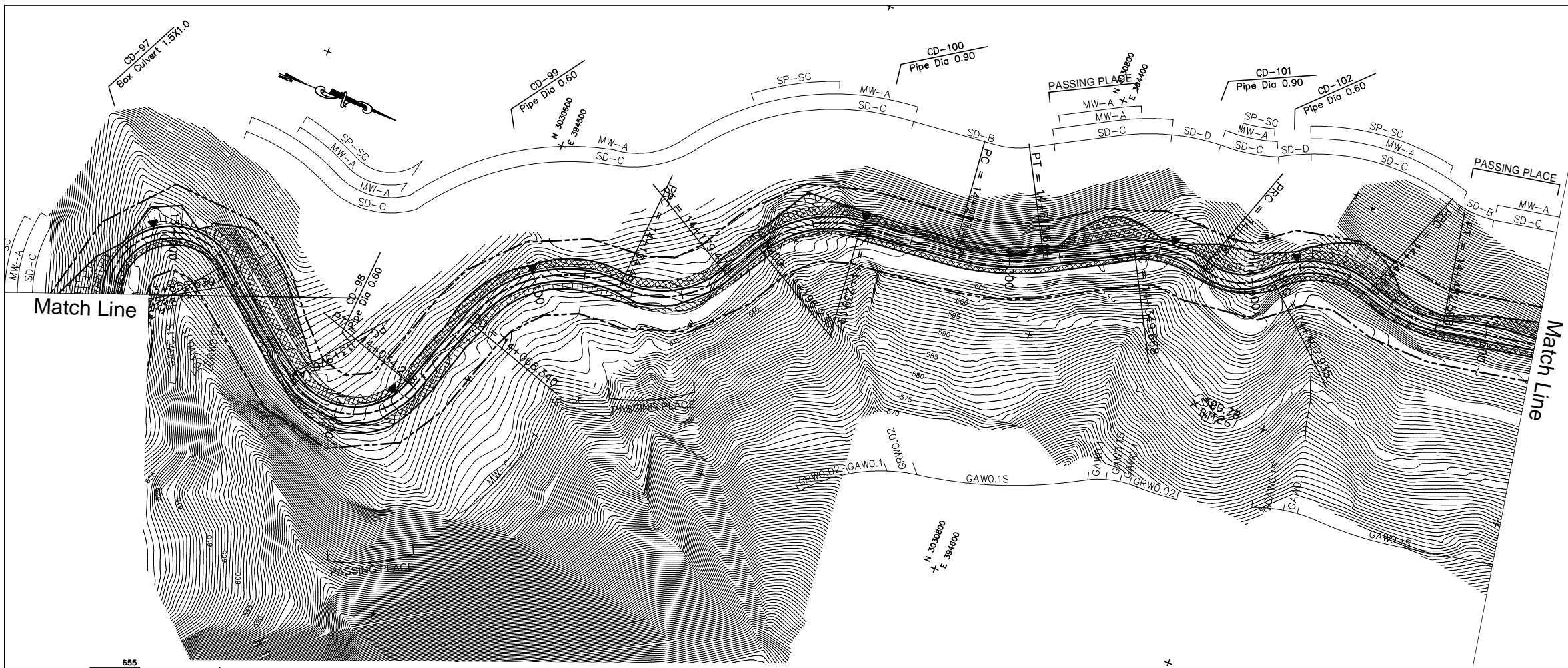


DEPARTMENT OF ROADS  
 Ministry of Physical Planning and Works, FDR/ Nepal  
 THE PROJECT FOR CONSTRUCTION OF SINDHULI ROAD  
 (Section III)

PLAN AND PROFILE  
 STA. 13+860 - STA. 14+520

Drawing No. B-33

Date: July, 2009 Scale: 1:2000  
 Designed by: *S. Subedi* Approved by:  
 NIPPON KOEI CO., LTD, Consulting Engineers, Japan



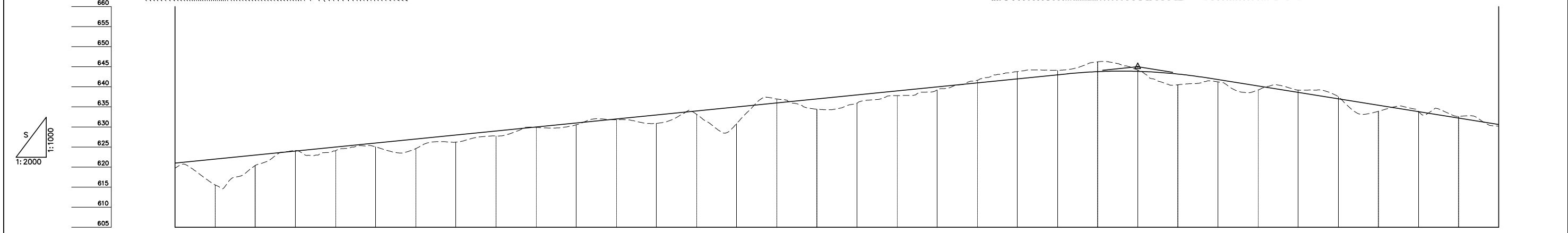
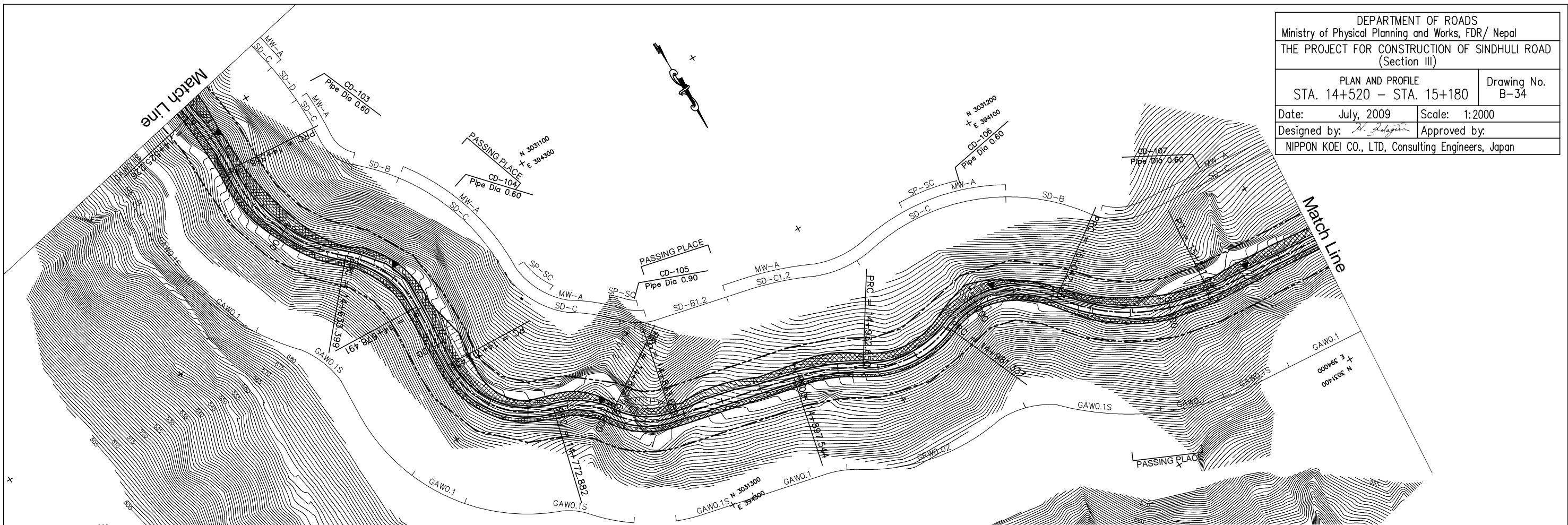
| GRADE           |      | -6.500%<br>L=560.000 |         | 613.900<br>L=240.000 |         | -3.000%<br>L=130.000 |         | 610.000<br>L=370.000 |         | 8.000%<br>L=116.667 |         | 619.333<br>L=466.667 |         | 5.000%<br>L=613.333 |         |                  |         |          |         |                  |         |          |         |                  |         |                  |         |                  |         |                  |         |          |         |         |         |         |         |  |  |
|-----------------|------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|------------------|---------|----------|---------|------------------|---------|----------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|----------|---------|---------|---------|---------|---------|--|--|
| PROPOSED HEIGHT |      | 638.600              | 637.300 | 636.000              | 634.700 | 633.400              | 632.100 | 630.800              | 629.500 | 628.200             | 626.900 | 625.600              | 624.300 | 623.000             | 621.700 | 620.400          | 619.100 | 617.800  | 616.500 | 615.200          | 614.075 | 613.300  | 612.700 | 612.100          | 611.500 | 610.900          | 610.667 | 611.167          | 612.400 | 614.000          | 615.600 | 617.200  | 618.733 | 619.983 | 621.000 |         |         |  |  |
| GROUND HEIGHT   |      | 637.448              | 633.761 | 629.675              | 637.048 | 636.964              | 637.076 | 633.547              | 632.364 | 630.892             | 626.163 | 625.000              | 624.709 | 622.779             | 623.113 | 620.246          | 620.776 | 619.064  | 616.751 | 615.119          | 610.776 | 609.074  | 613.300 | 609.078          | 610.213 | 610.292          | 610.648 | 608.923          | 613.110 | 615.691          | 609.507 | 616.322  | 616.244 | 616.423 | 617.125 | 619.716 | 619.716 |  |  |
| STATION         |      | 13+860               | 13+880  | 13+900               | 13+920  | 13+940               | 13+960  | 13+980               | 14+000  | 14+020              | 14+040  | 14+060               | 14+080  | 14+100              | 14+120  | 14+140           | 14+160  | 14+180   | 14+200  | 14+220           | 14+240  | 14+260   | 14+280  | 14+300           | 14+320  | 14+340           | 14+360  | 14+380           | 14+400  | 14+420           | 14+440  | 14+460   | 14+480  | 14+500  | 14+520  |         |         |  |  |
| CURVE ELEMENT   |      | R=25<br>L=69.676     |         | L=50.825             |         | R=30<br>L=58.098     |         | L=34.101             |         | R=50<br>L=66.152    |         | R=40<br>L=44.978     |         | L=16.761            |         | R=45<br>L=42.966 |         | L=38.250 |         | R=90<br>L=36.197 |         | L=36.025 |         | R=35<br>L=29.147 |         | R=25<br>L=29.119 |         | R=35<br>L=41.866 |         | R=60<br>L=32.707 |         | L=42.718 |         |         |         |         |         |  |  |
| SUPER ELEVATION | Left | 6.0%                 | 6.0%    | 0.0%                 | 2.5%    | 2.5%                 | 6.0%    | 6.0%                 | 2.5%    | 2.5%                | 4.0%    | 4.0%                 | 0.0%    | 0.0%                | 2.5%    | 2.5%             | 0.0%    | 0.0%     | 2.5%    | 2.5%             | 0.0%    | 0.0%     | 4.0%    | 4.0%             | 0.0%    | 0.0%             | 6.0%    | 6.0%             | 0.0%    | 0.0%             | 4.0%    | 4.0%     | 0.0%    | 0.0%    | 2.5%    | 2.5%    |         |  |  |
| Right           |      | 0.0%                 | 0.0%    | 6.0%                 | 6.0%    | 6.0%                 | 0.0%    | 0.0%                 | 6.0%    | 6.0%                | 0.0%    | 0.0%                 | 6.0%    | 6.0%                | 0.0%    | 0.0%             | 6.0%    | 6.0%     | 0.0%    | 0.0%             | 6.0%    | 6.0%     | 6.0%    | 6.0%             | 0.0%    | 0.0%             | 6.0%    | 6.0%             | 6.0%    | 6.0%             | 0.0%    | 0.0%     | 6.0%    | 6.0%    | 0.0%    | 0.0%    |         |  |  |
| WIDENING        |      | 0.5m                 |         | 1.25m                |         | 1.25m                |         | 1.25m                |         | 1.25m               |         | 1.25m                |         | 1.25m               |         | 1.25m            |         | 1.25m    |         | 1.25m            |         | 1.25m    |         | 1.0m             |         | 1.25m            |         | 1.25m            |         | 1.25m            |         | 1.25m    |         |         |         |         |         |  |  |
| DESIGN SPEED    |      | 30 Km/h              |         |                      |         |                      |         |                      |         |                     |         |                      |         |                     |         |                  |         |          |         |                  |         |          |         |                  |         |                  |         |                  |         |                  |         |          |         |         |         |         |         |  |  |

DEPARTMENT OF ROADS  
 Ministry of Physical Planning and Works, FDR/ Nepal  
 THE PROJECT FOR CONSTRUCTION OF SINDHULI ROAD  
 (Section III)

PLAN AND PROFILE  
 STA. 14+520 - STA. 15+180

Drawing No. B-34

Date: July, 2009 Scale: 1:2000  
 Designed by: *S. Subedi* Approved by:  
 NIPPON KOEI CO., LTD, Consulting Engineers, Japan



|                 |               |          |                   |                  |                  |          |                  |                  |                  |          |                   |                  |                  |                  |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
|-----------------|---------------|----------|-------------------|------------------|------------------|----------|------------------|------------------|------------------|----------|-------------------|------------------|------------------|------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| GRADE           |               |          |                   |                  |                  |          |                  |                  |                  |          |                   |                  |                  |                  |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| PROPOSED HEIGHT |               | 621.000  | 622.000           | 623.000          | 624.000          | 625.000  | 626.000          | 627.000          | 628.000          | 629.000  | 630.000           | 631.000          | 632.000          | 633.000          | 634.000  | 635.000 | 636.000 | 637.000 | 638.000 | 639.000 | 640.000 | 641.000 | 642.000 | 643.000 | 643.791 | 643.863 | 643.191 | 641.800 | 640.200 | 638.600 | 637.000 | 635.400 | 633.800 | 632.200 | 630.600 |         |  |  |  |
| GROUND HEIGHT   |               | 619.716  | 615.555           | 620.390          | 624.137          | 624.056  | 625.013          | 624.599          | 626.203          | 627.758  | 629.891           | 630.527          | 631.811          | 630.900          | 633.168  | 634.000 | 636.970 | 634.422 | 635.946 | 637.818 | 639.261 | 640.000 | 641.632 | 643.805 | 644.112 | 646.243 | 644.187 | 640.514 | 641.248 | 639.211 | 639.162 | 637.543 | 633.903 | 633.853 | 632.638 | 630.200 |  |  |  |
| STATION         |               | 14+520   | 14+540            | 14+560           | 14+580           | 14+600   | 14+620           | 14+640           | 14+660           | 14+680   | 14+700            | 14+720           | 14+740           | 14+760           | 14+780   | 14+800  | 14+820  | 14+840  | 14+860  | 14+880  | 14+900  | 14+920  | 14+940  | 14+960  | 14+980  | 15+000  | 15+020  | 15+040  | 15+060  | 15+080  | 15+100  | 15+120  | 15+140  | 15+160  | 15+180  |         |  |  |  |
| CURVE ELEMENT   |               | L=42.718 | R=120<br>L=33.570 | R=80<br>L=74.602 | R=50<br>L=45.093 | L=32.965 | R=45<br>L=61.425 | R=40<br>L=29.887 | R=40<br>L=30.920 | L=63.855 | R=100<br>L=35.106 | R=50<br>L=48.687 | R=45<br>L=60.800 | R=90<br>L=78.944 | L=65.041 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| SUPER ELEVATION | Left<br>Right |          |                   |                  |                  |          |                  |                  |                  |          |                   |                  |                  |                  |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| WIDENING        |               |          |                   |                  |                  |          |                  |                  |                  |          |                   |                  |                  |                  |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |
| DESIGN SPEED    |               | 30 Km/h  |                   |                  |                  |          |                  |                  |                  |          |                   |                  |                  |                  |          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |  |  |