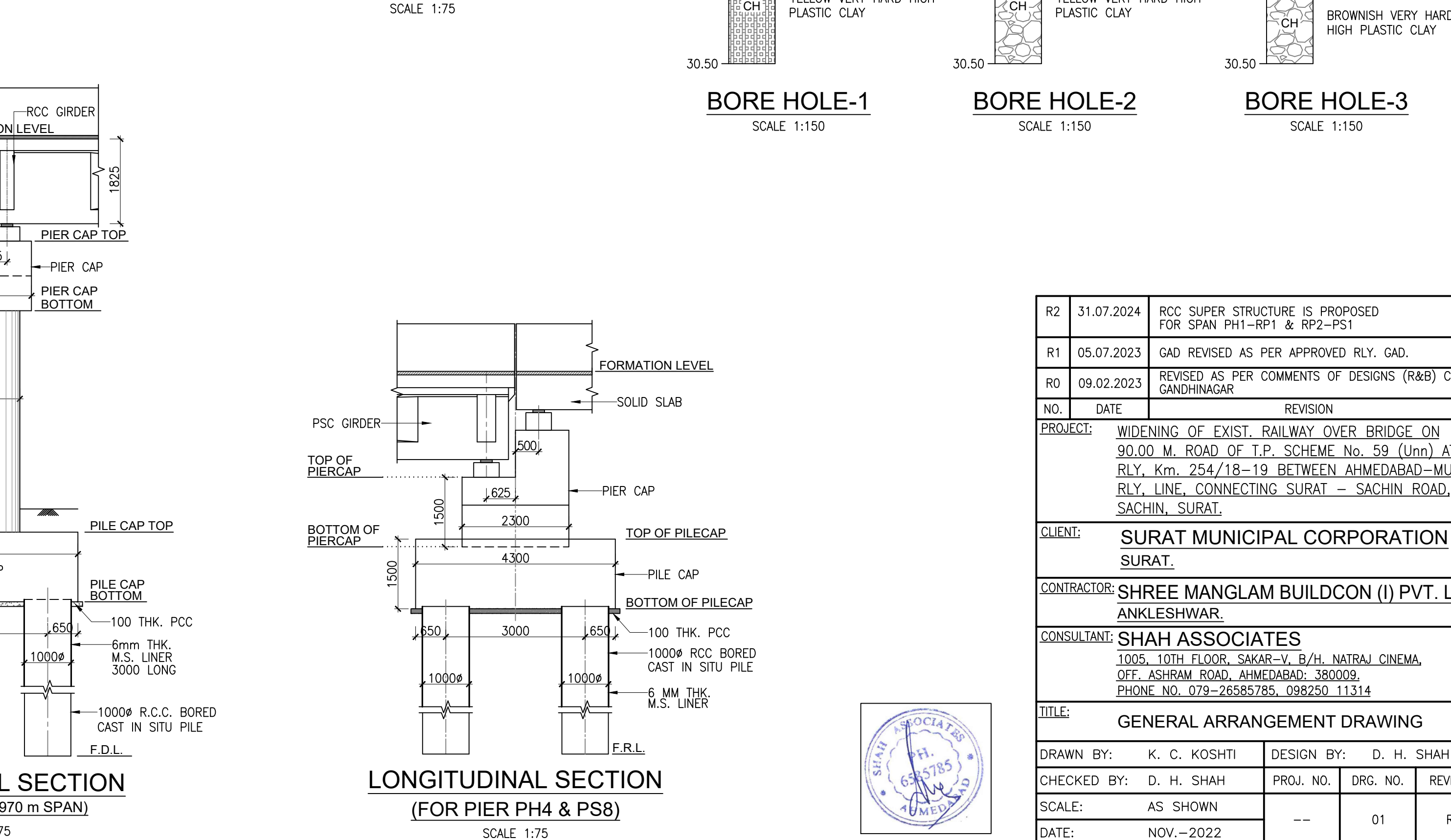
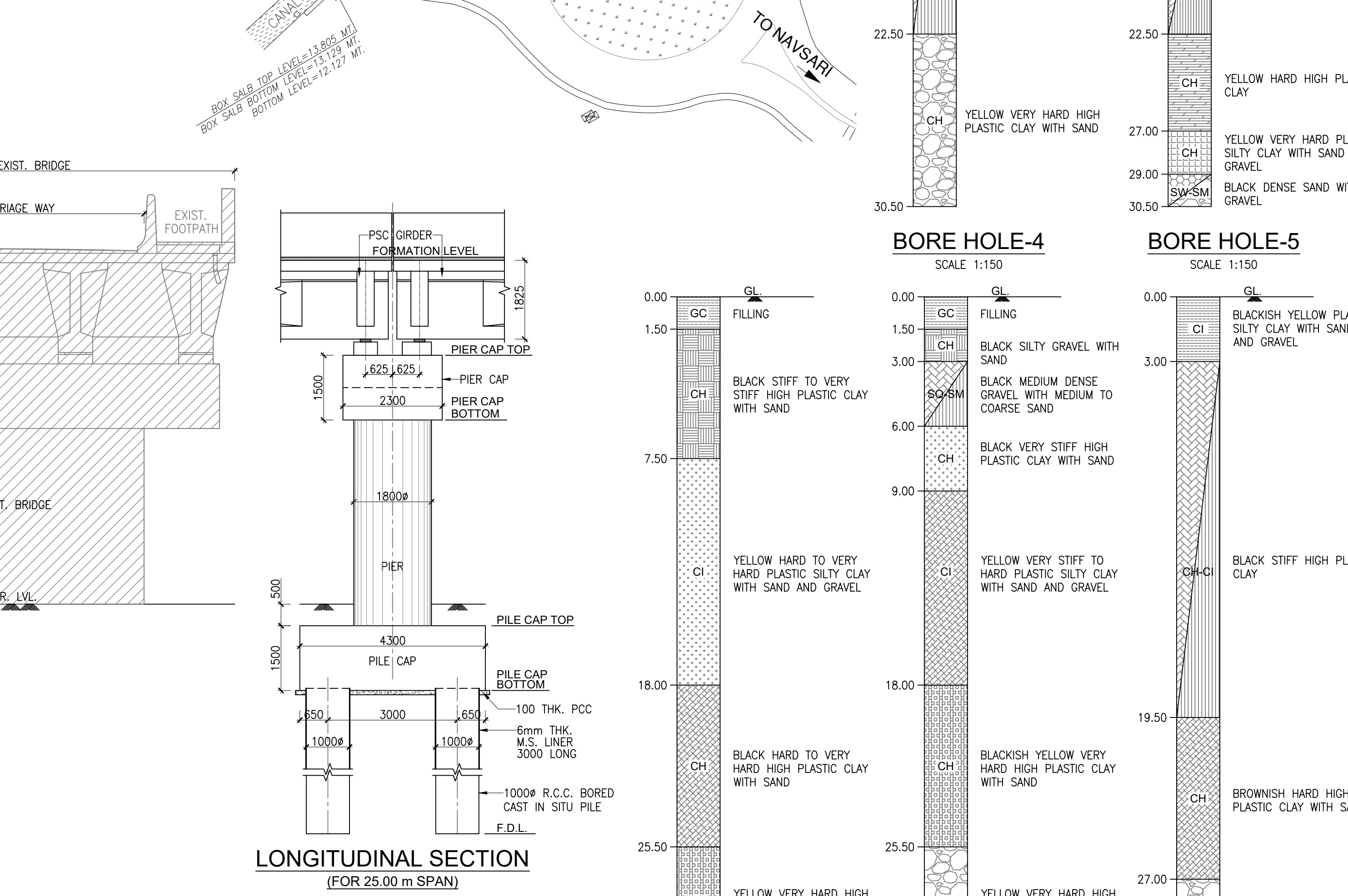
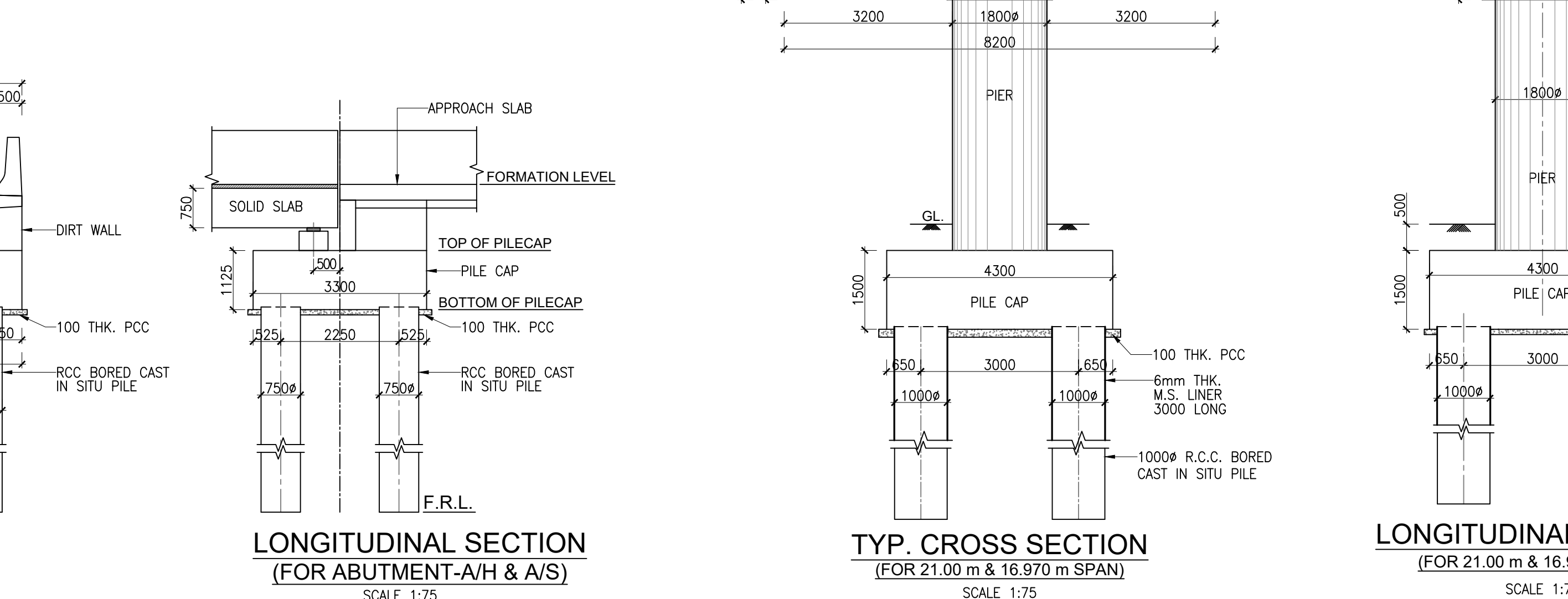
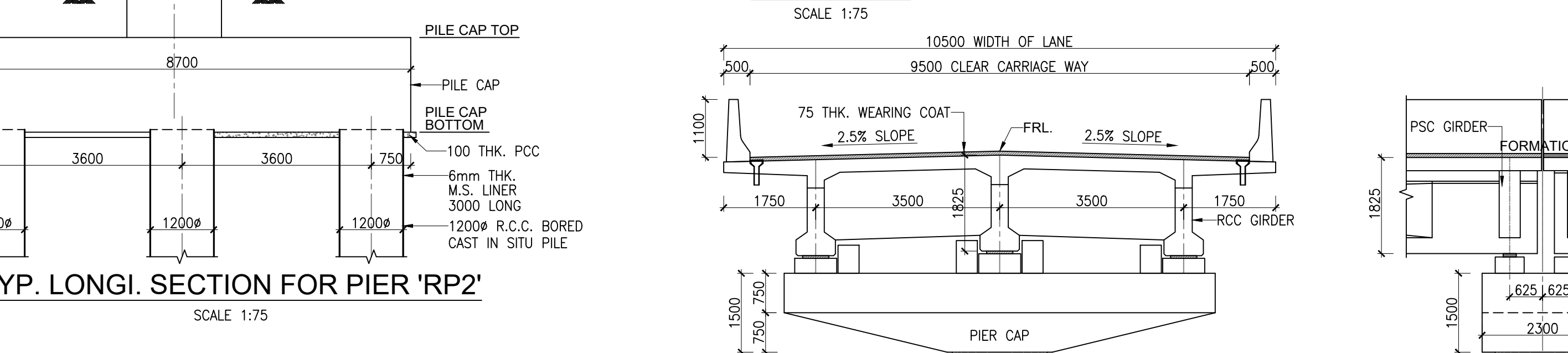
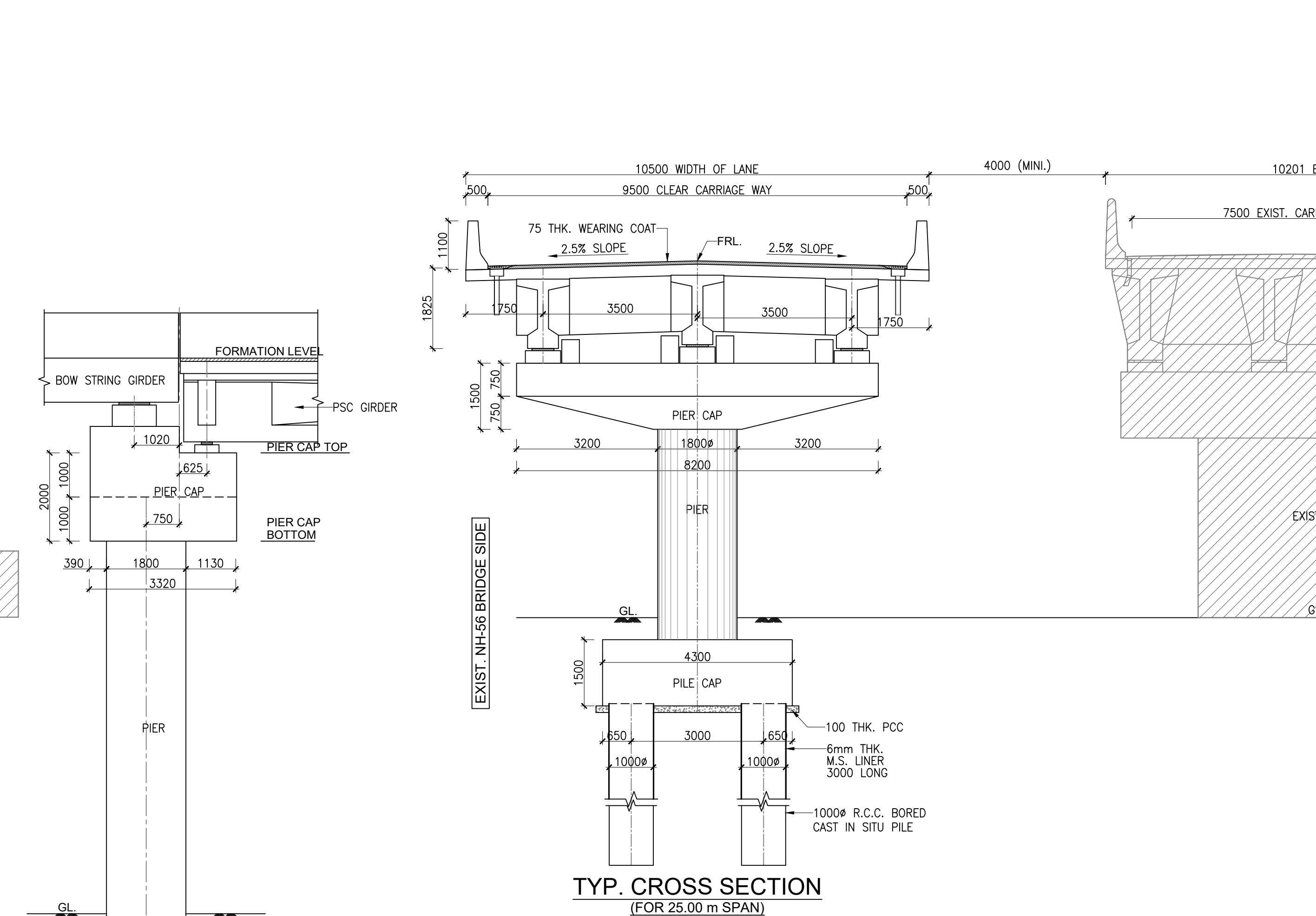
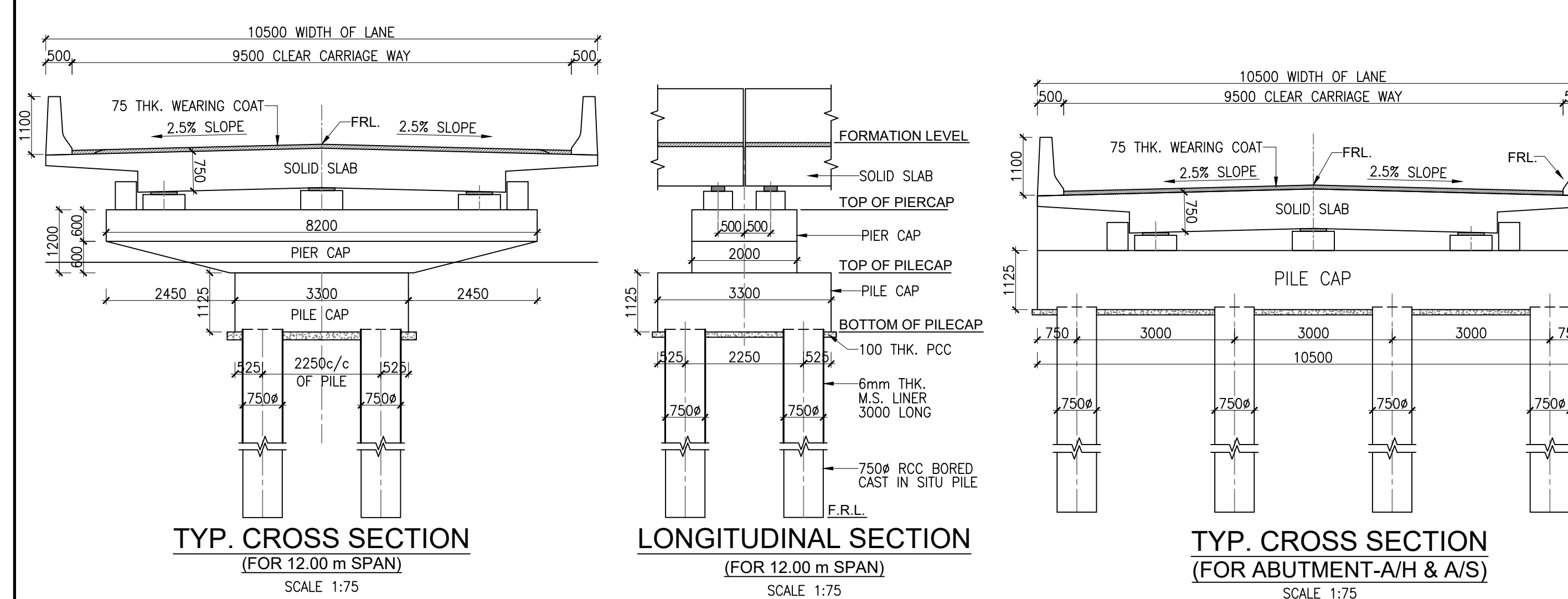
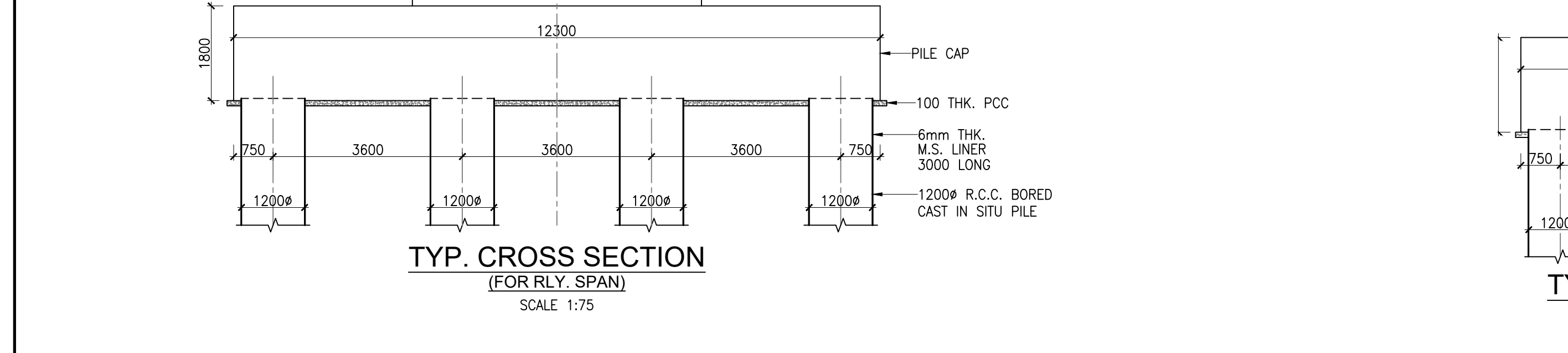
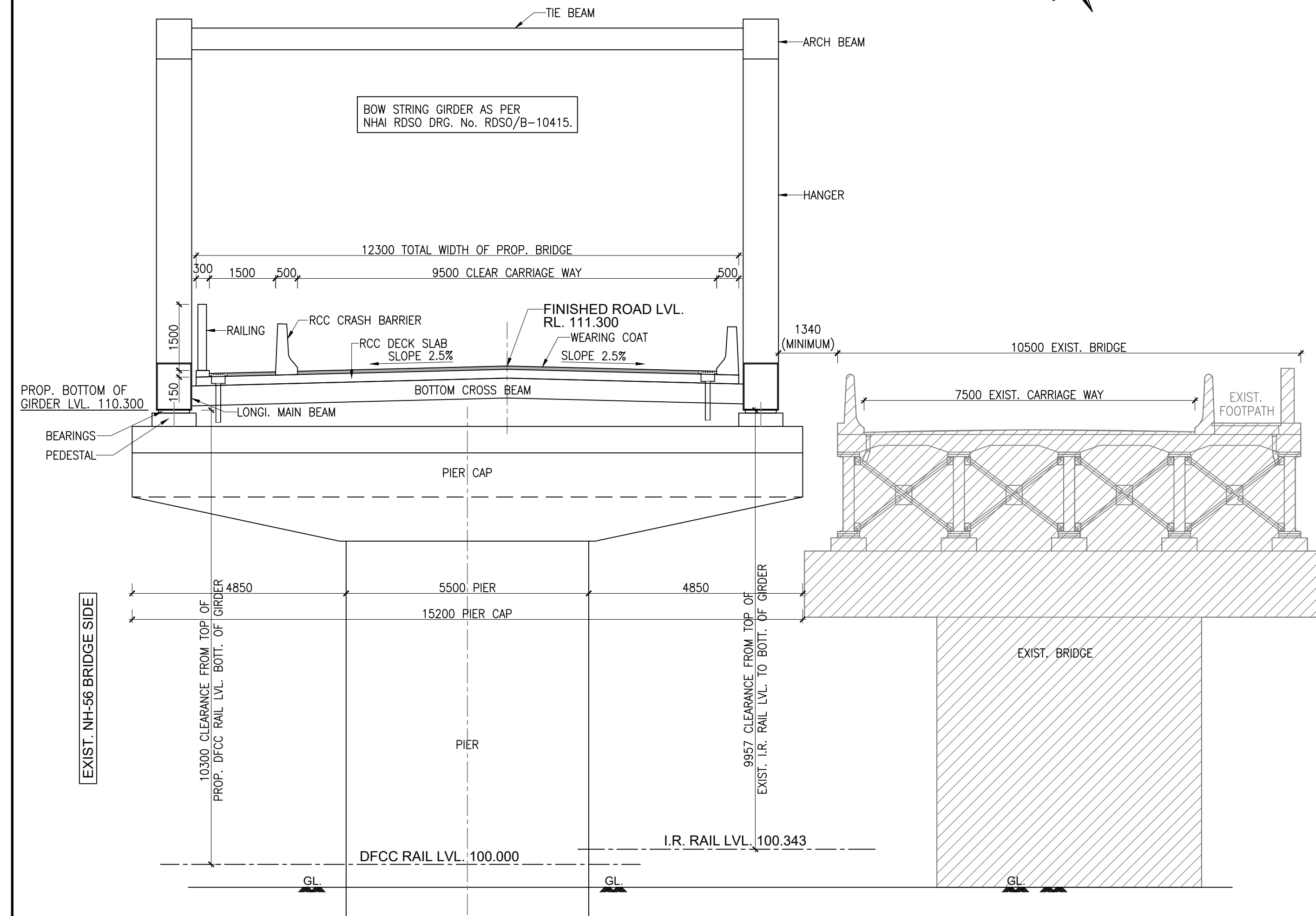
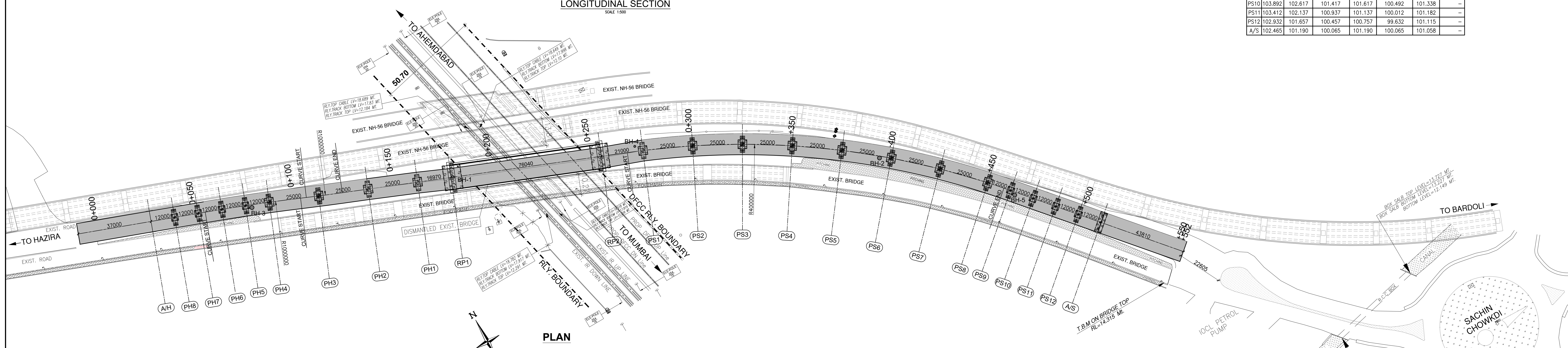
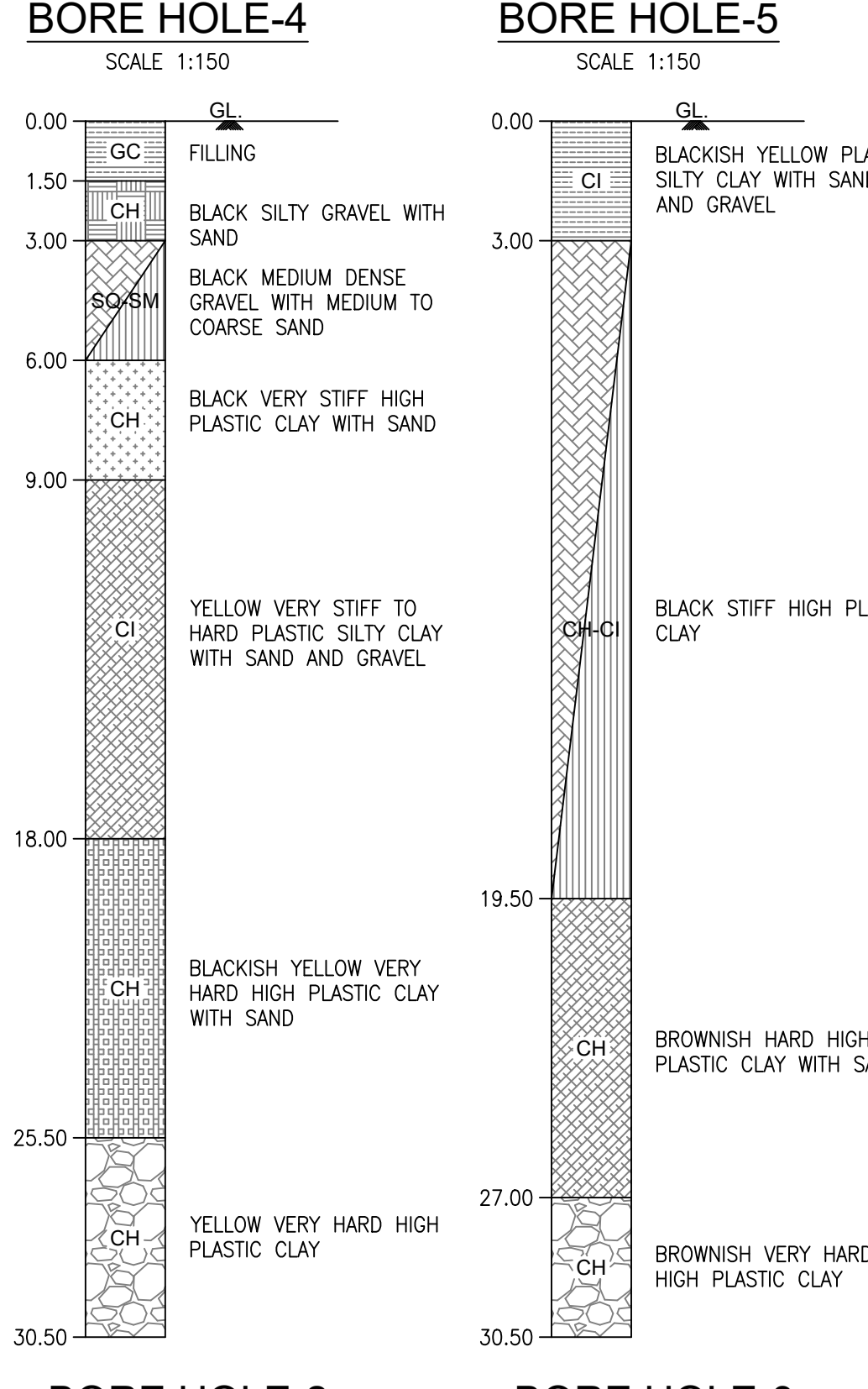
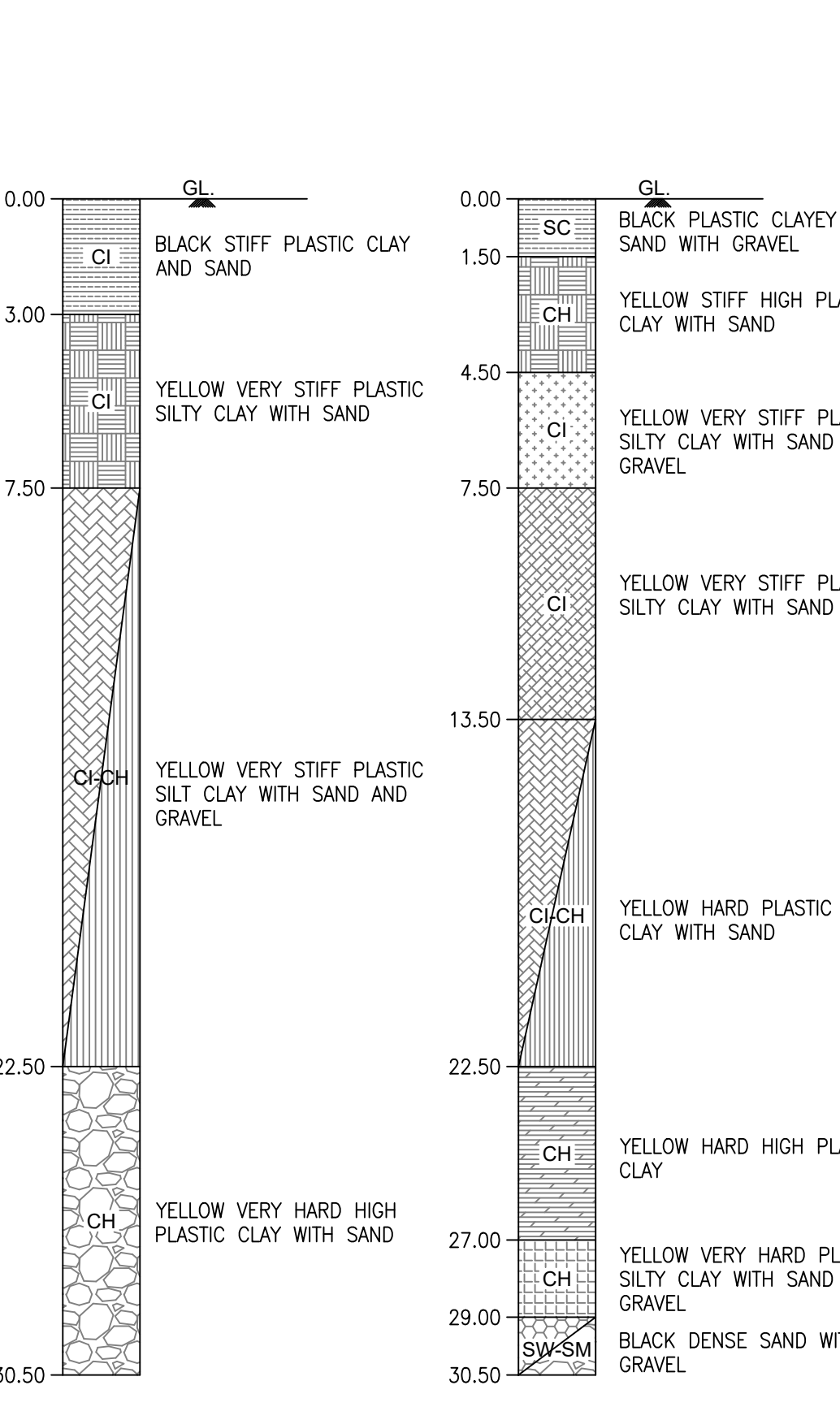


| PIER NO. | FRL     | PIERCAP TOP LVL | PIERCAP BOTTOM LVL | PILECAP TOP LVL | PILECAP BOTTOM LVL | GROUND LVL | HEIGHT OF PIER |
|----------|---------|-----------------|--------------------|-----------------|--------------------|------------|----------------|
| A/H      | 106.423 | 105.148         | 104.023            | 105.148         | 104.023            | 105.233    | -              |
| PH8      | 106.903 | 105.628         | 104.428            | 104.928         | 103.803            | 105.348    | -              |
| PH7      | 107.383 | 106.108         | 104.908            | 105.108         | 103.983            | 105.498    | -              |
| PH6      | 107.863 | 106.588         | 105.388            | 105.588         | 104.463            | 105.688    | -              |
| PH5      | 108.343 | 107.068         | 105.868            | 106.068         | 104.943            | 105.872    | -              |
| PH4      | 108.823 | 106.473         | 104.973            | 105.673         | 104.173            | 106.059    | -              |
| PH3      | 109.823 | 107.473         | 105.973            | 106.173         | 104.673            | 106.545    | -              |
| PH2      | 110.817 | 108.467         | 106.967            | 107.167         | 105.667            | 107.054    | -              |
| PH1      | 111.462 | 109.100         | 107.600            | 104.500         | 103.000            | 104.900    | 3.100          |
| PS1      | 111.462 | 109.112         | 107.612            | 103.612         | 102.112            | 104.089    | 4.000          |
| PS2      | 110.841 | 108.491         | 106.991            | 104.191         | 102.691            | 104.600    | 2.800          |
| PS3      | 109.852 | 107.502         | 106.002            | 104.302         | 102.802            | 104.668    | 1.700          |
| PS4      | 108.852 | 106.502         | 105.002            | 103.802         | 102.302            | 104.250    | 1.200          |
| PS5      | 107.852 | 105.502         | 104.002            | 103.302         | 101.802            | 103.750    | 0.700          |
| PS6      | 106.852 | 104.502         | 103.002            | 102.302         | 101.792            | 103.025    | -              |
| PS7      | 105.852 | 103.502         | 102.002            | 102.202         | 100.702            | 102.356    | -              |
| PS8      | 104.852 | 102.502         | 101.002            | 101.002         | 99.802             | 101.776    | -              |
| PS9      | 104.372 | 103.097         | 101.897            | 101.197         | 100.072            | 101.524    | 0.700          |
| PS10     | 103.892 | 102.617         | 101.417            | 101.617         | 100.492            | 101.338    | -              |
| PS11     | 103.412 | 102.137         | 100.937            | 101.137         | 100.012            | 101.182    | -              |
| PS12     | 102.932 | 101.657         | 100.457            | 100.757         | 99.832             | 101.115    | -              |
| A/S      | 102.465 | 101.190         | 100.085            | 101.190         | 100.065            | 101.058    | -              |

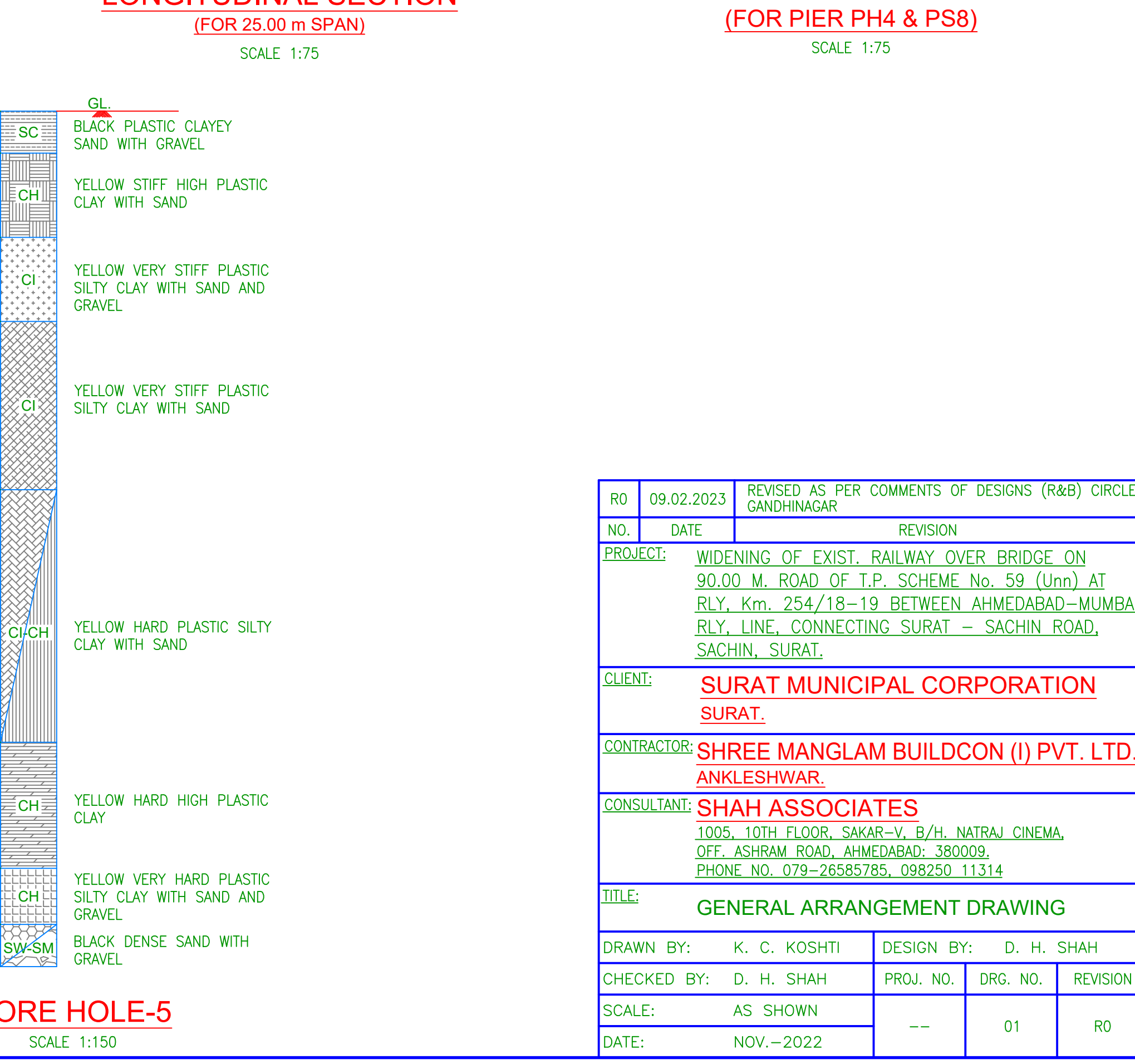
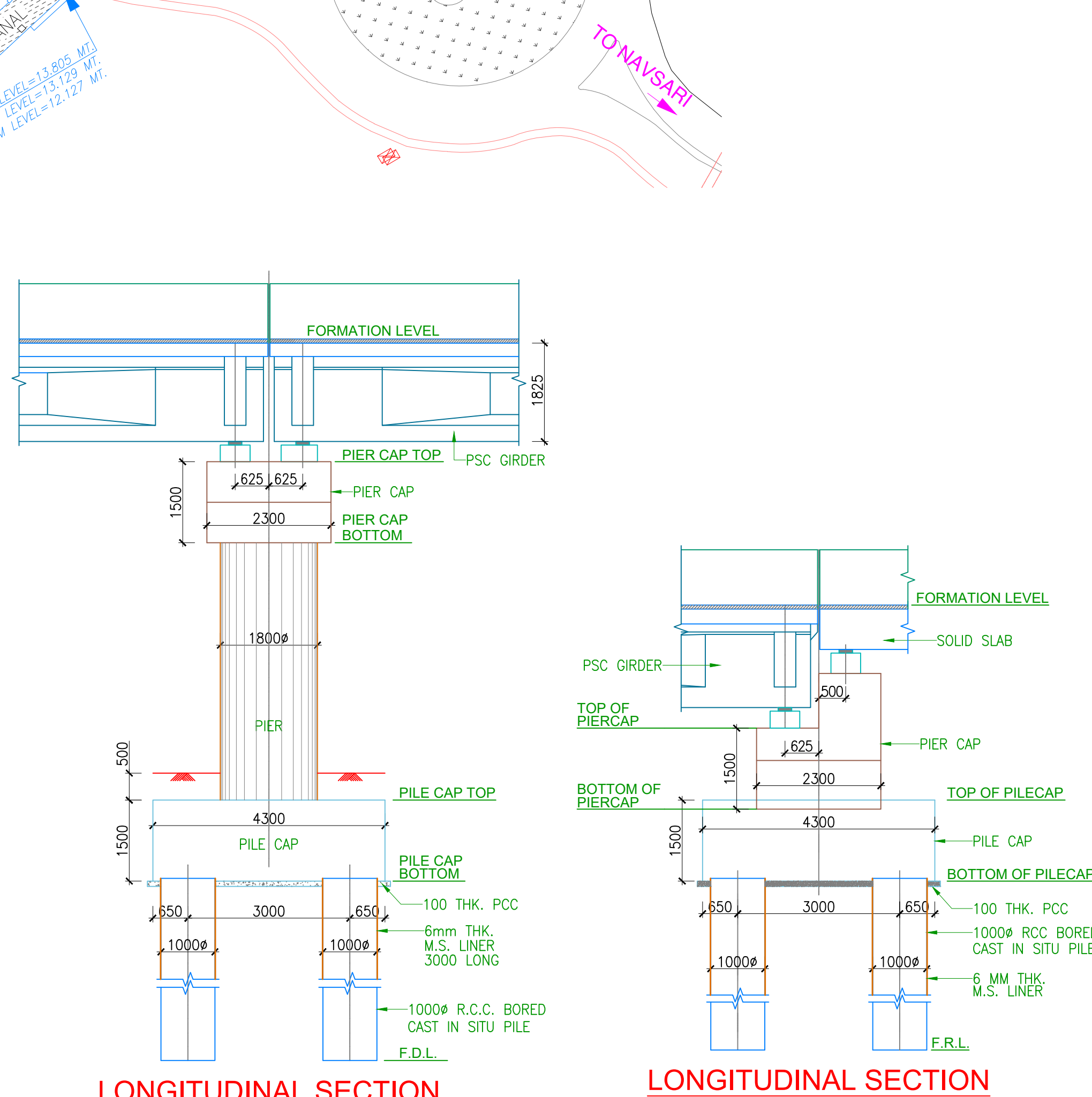
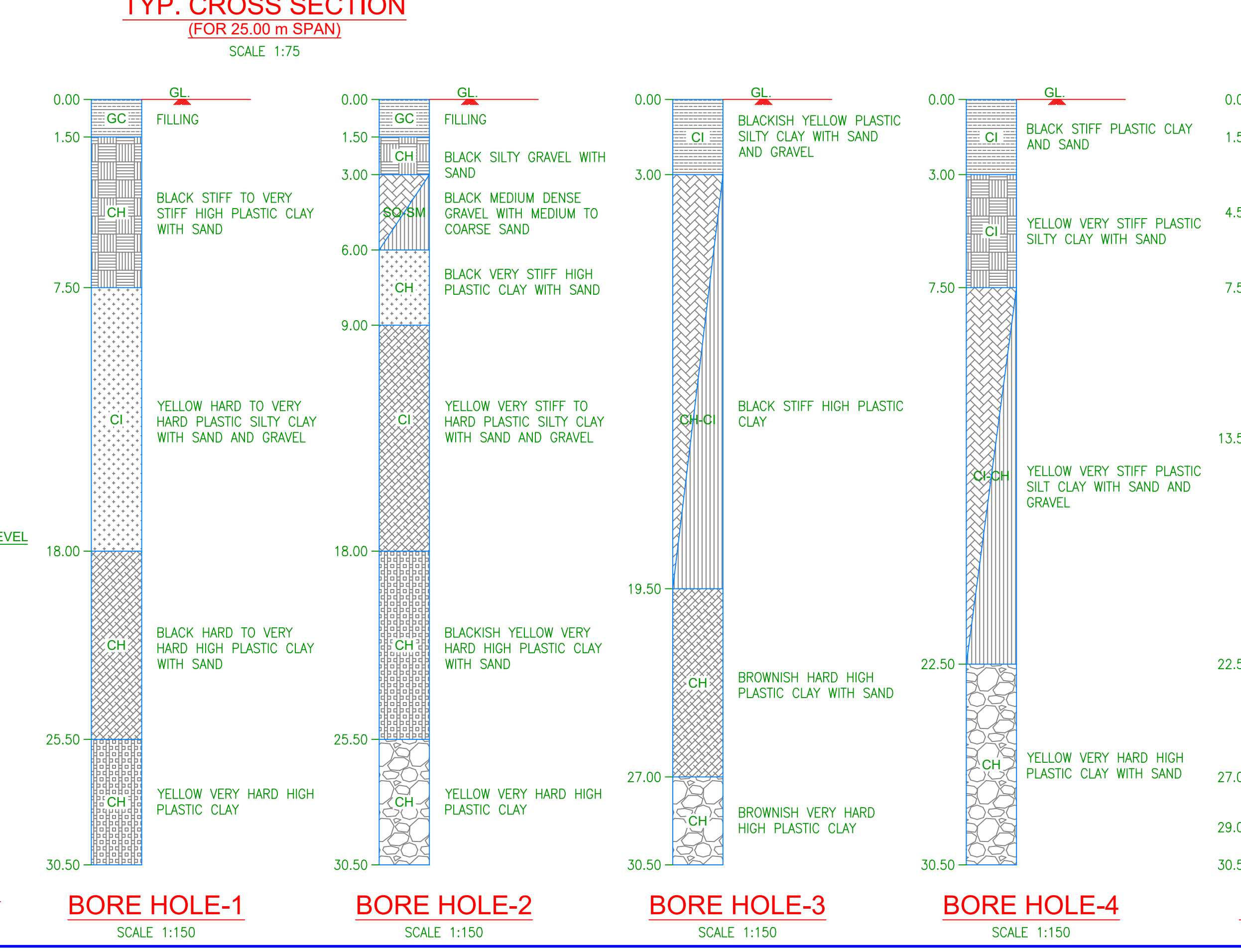
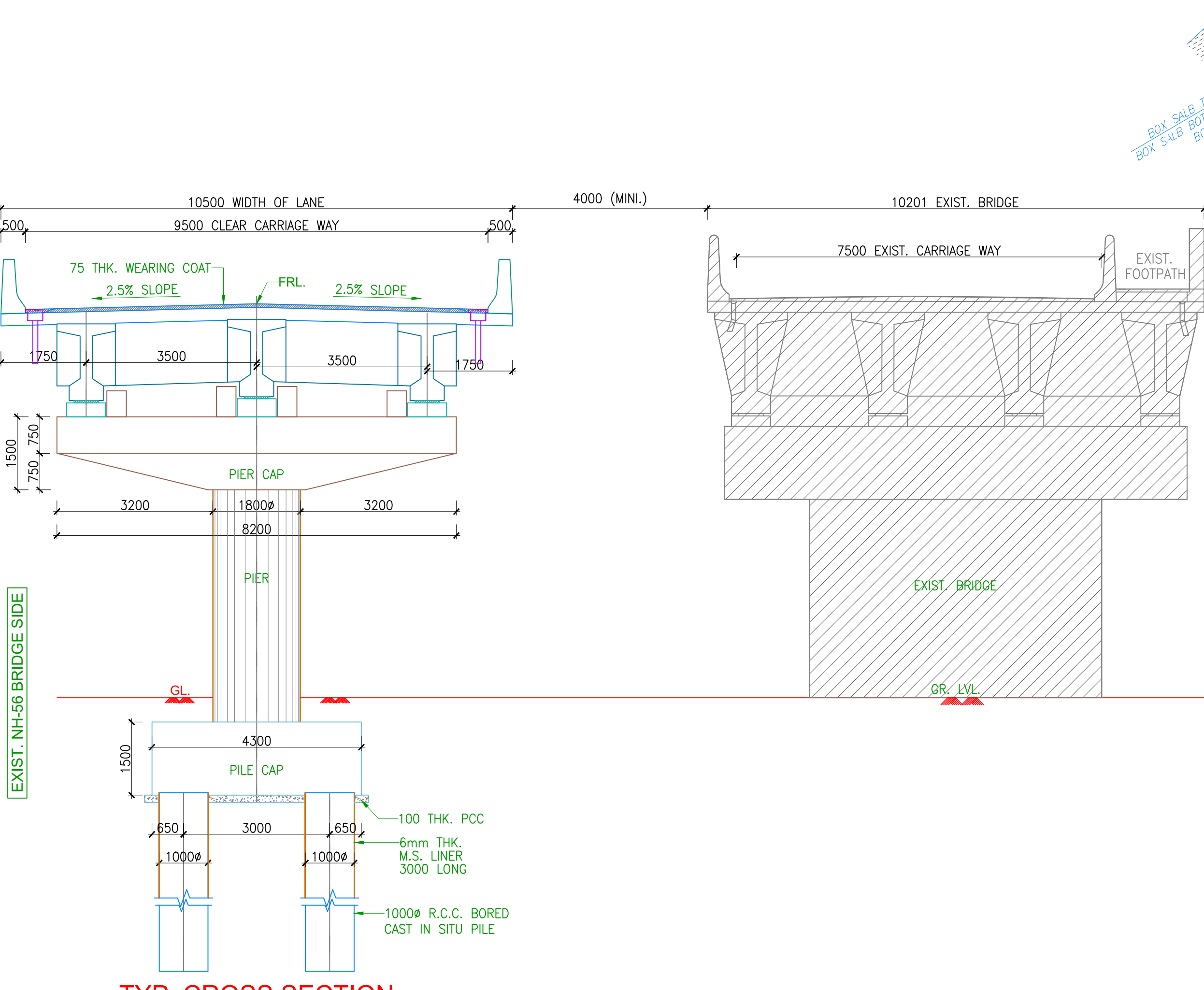
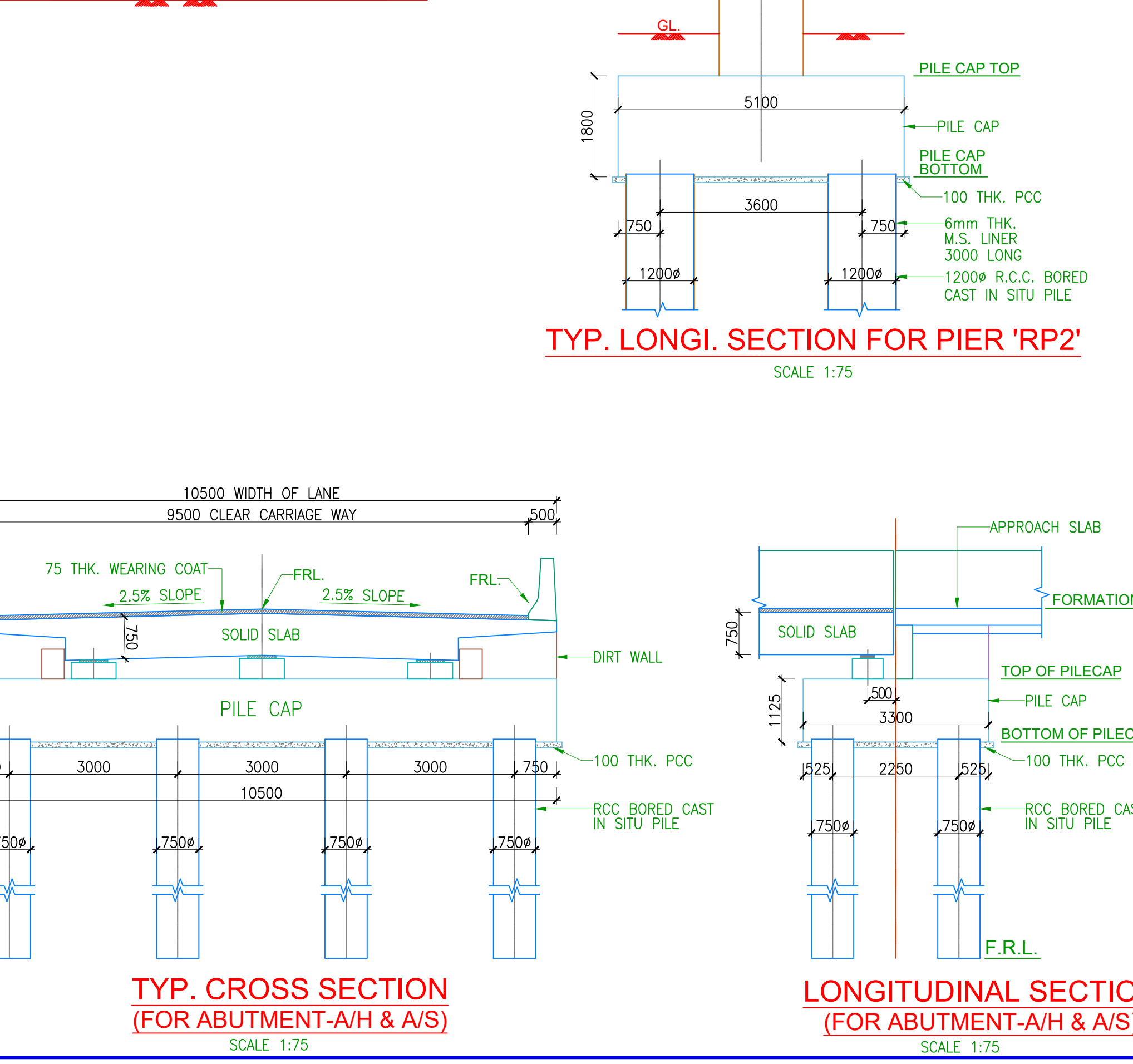
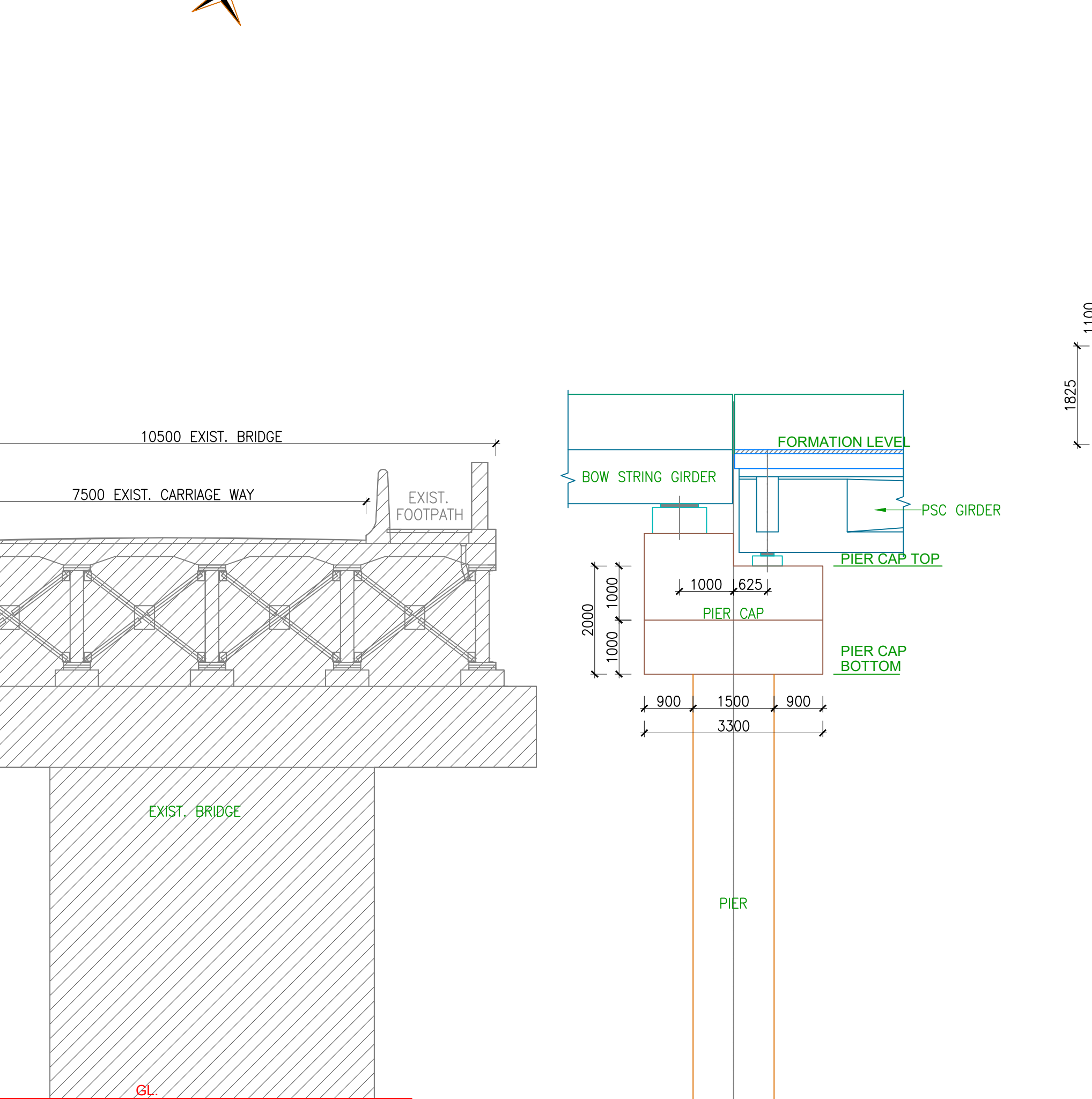
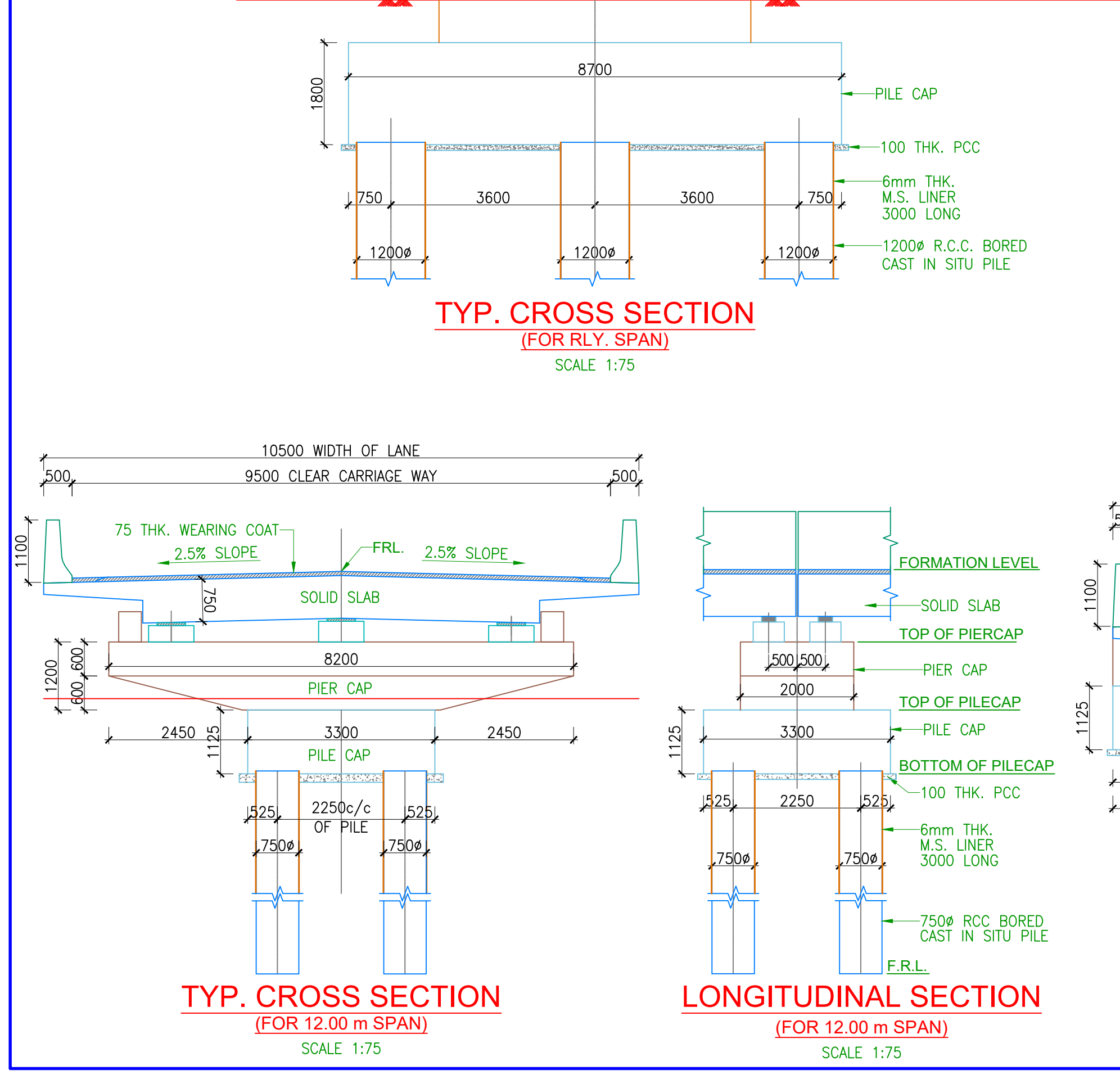
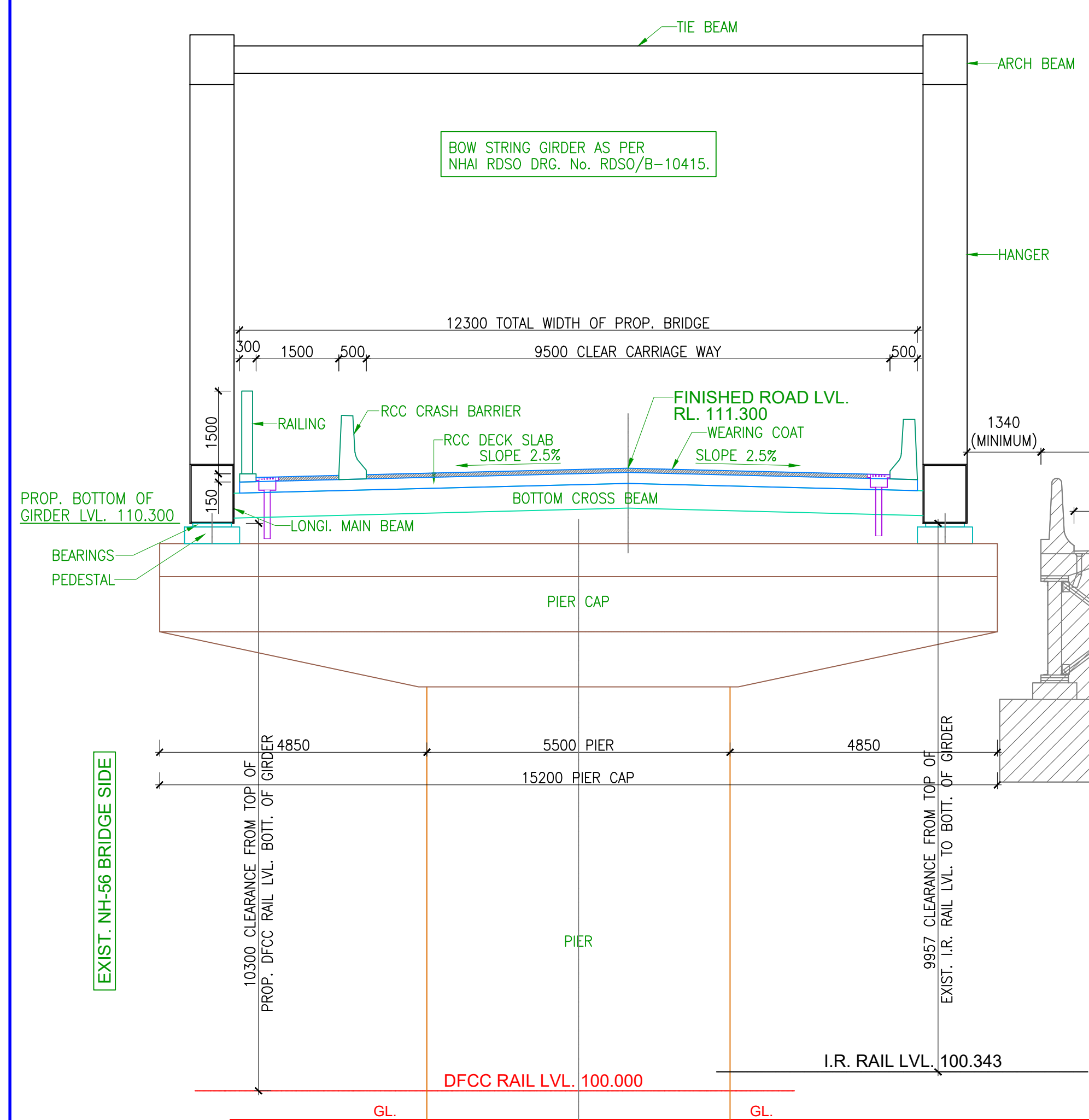
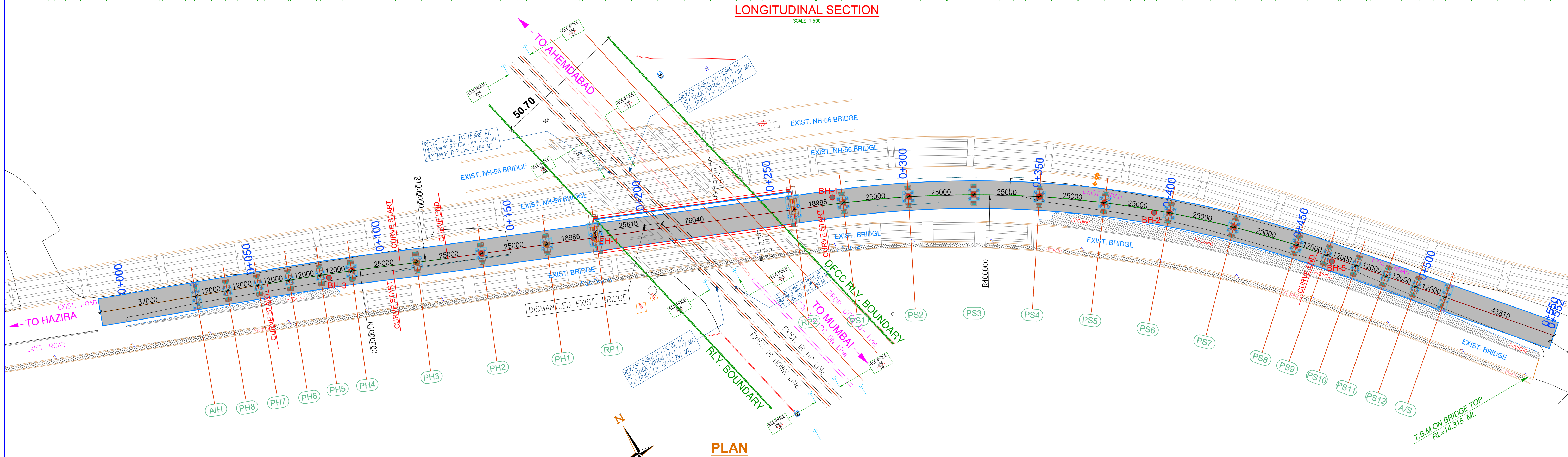
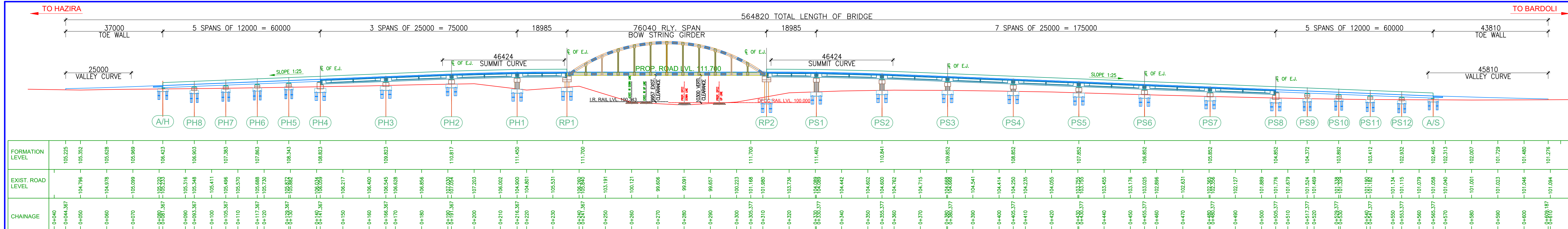


- NOTES:-**
- ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METER.
  - UNLESS OTHERWISE STATED IN DRAWING.
  - NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
  - STRUCTURAL DETAILS AND DIMENSIONS SHOWN IN THIS DRAWING ARE TENTATIVE AND ANY UNIT AND ITS DIMENSIONS WILL BE AS PER DETAIL DESIGN AND DRAWING APPROVED BY THE DEPARTMENT.
  - DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODES AS APPROVED BY MOST.
  - THE BRIDGE SHALL BE DESIGNED FOR BELOW MENTIONED IRC LOADING: EACH TWO VEHICLE SHALL BE DESIGNED FOR IRC CLASS A TWO LANE LOADS OR ONE LINE OF TOW WHEELED VEHICLES OR SPECIAL VEHICLE WHICHEVER IS SEVERE AND GOVERNING.
  - MIN. GRADE OF CONCRETE  
P.C.C. DECK SLAB/CHAPARRAM M-50  
PIER FOUNDATION/PILE CAP M-40 CRASH BARRIER M-40  
PIER/PIER CAP M-40 R.C.C. SOLID SLAB M-35  
SEISMIC ARRESTER M-50 R.C.C. SUPER STRUCTURE M-35  
PEDESTAL M-50 R.C.C. TOE WALL M-30  
PSC ORDER M-50 R.C.C. APPROACH SLAB M-30
  - REINFORCEMENT STEEL SHALL BE HY-8.0 TO 3000.
  - PRESTRESS STEEL SHALL BE HIS STRAND (LOW RELAXATION).
  - STRIP SEAL TYPE EXPANSION JOINT OF APPROVED QUALITY AS PER MOST SPECIFICATION TO BE PROVIDED IN DECK.
  - DRAINAGE SPOUT AND WEARING COAT SHALL BE AS PER MOST SPECIFICATIONS.
  - ELASTOMERIC BEARINGS SHALL CONFORM TO IRC:83.
  - THE DEPTH OF FOUNDATION SHOWN IN DRAWING IS TENTATIVE. DETAILED DESIGN SHALL BE DONE AS PER SOIL EXPLORATION REPORT.
  - SEISMIC ZONE-III SHALL BE CONSIDERED FOR DETAIL DESIGN AS PER LATEST CODAL PROVISION.
  - MAXIMUM DESIGN SPEED 60 kmph CONSIDERED.
  - SOIL TESTING HAS BEEN CARRIED OUT BY UNIQUE ENGINEER TESTING & ADVISORY SERVICES.  
a) SOIL REPORT NO. : 2223132  
b) DATE : 20-11-2022
  - RAILWAY PORTION G.A.D. APPROVED FROM RAILWAY DEPARTMENT.



|             |                                                                                                                                                                                              |                                                               |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| R2          | 31.07.2024                                                                                                                                                                                   | RCC SUPER STRUCTURE IS PROPOSED FOR SPAN PH1-RP1 & RP2-PS1    |
| R1          | 05.07.2023                                                                                                                                                                                   | GAD REVISED AS PER APPROVED RLY. GAD.                         |
| R0          | 09.02.2023                                                                                                                                                                                   | REVISED AS PER COMMENTS OF DESIGNS (R&B) CIRCLE, GANDHINAGAR. |
| NO.         | DATE                                                                                                                                                                                         | REVISION                                                      |
| PROJECT:    | WIDENING OF EXIST. RAILWAY OVER BRIDGE ON 90.00 M. ROAD OF T.P. SCHEME No. 59 (Unn) AT RLY. Km. 254/18-19 BETWEEN AHMEDABAD-MUMBAI RLY. LINE, CONNECTING SURAT - SACHIN ROAD, SACHIN, SURAT. |                                                               |
| CLIENT:     | SURAT MUNICIPAL CORPORATION SURAT.                                                                                                                                                           |                                                               |
| CONTRACTOR: | SHREE NAMGLAM BUILDCON (I) PVT. LTD., ANKLESHWAR.                                                                                                                                            |                                                               |
| CONSULTANT: | SHAH ASSOCIATES<br>1005, 10TH FLOOR, SAMAR-V, B/H. NATRAL CINEMA,<br>OFF. ASHRAM ROAD, AHMEDABAD-380009<br>PHONE NO. 079-26585785, 098250 11314                                              |                                                               |
| TITLE:      | GENERAL ARRANGEMENT DRAWING                                                                                                                                                                  |                                                               |
| DRAWN BY:   | K. C. KOSHTI                                                                                                                                                                                 | DESIGN BY: D. H. SHAH                                         |
| CHECKED BY: | D. H. SHAH                                                                                                                                                                                   | PROJ. NO. DRG. NO. REVISION                                   |
| SCALE:      | AS SHOWN                                                                                                                                                                                     | 01 R2                                                         |
| DATE:       | NOV-2022                                                                                                                                                                                     |                                                               |





| PIER NO. | FRL     | PIERCAP TOP LVL | PIERCAP BOTTOM LVL | PILECAP TOP LVL | PILECAP BOTTOM LVL | GROUND LVL | HEIGHT OF PIER |
|----------|---------|-----------------|--------------------|-----------------|--------------------|------------|----------------|
| A/H      | 106.423 | 105.148         | 104.023            | 105.148         | 104.023            | 105.233    | —              |
| PH6      | 106.903 | 105.628         | 104.428            | 104.928         | 103.803            | 105.348    | —              |
| PH7      | 107.383 | 106.108         | 104.908            | 105.108         | 103.983            | 105.486    | —              |
| PH8      | 107.863 | 106.588         | 105.388            | 105.588         | 104.463            | 105.688    | —              |
| PH5      | 108.343 | 107.068         | 105.868            | 106.068         | 104.943            | 105.872    | —              |
| PH4      | 108.823 | 106.473         | 104.973            | 105.673         | 104.173            | 106.059    | —              |
| PH3      | 109.823 | 107.473         | 105.973            | 106.173         | 104.673            | 106.545    | —              |
| PH2      | 110.817 | 108.467         | 106.967            | 107.167         | 105.667            | 107.054    | —              |
| PH1      | 111.450 | 109.100         | 107.600            | 108.500         | 107.000            | 108.900    | 3.100          |
| PS1      | 111.462 | 109.112         | 107.612            | 108.612         | 107.112            | 104.089    | 4.000          |
| PS2      | 110.841 | 108.491         | 106.991            | 107.191         | 105.691            | 104.600    | 2.800          |
| PS3      | 109.852 | 107.502         | 106.002            | 107.302         | 105.802            | 104.668    | 1.700          |
| PS4      | 108.852 | 106.502         | 105.002            | 106.302         | 105.102            | 104.250    | 1.200          |
| PS5      | 107.852 | 105.502         | 104.002            | 105.302         | 104.102            | 103.755    | 0.700          |
| PS6      | 106.852 | 104.502         | 103.002            | 104.302         | 103.102            | 103.025    | —              |
| PS7      | 105.852 | 103.502         | 102.002            | 103.302         | 102.102            | 102.356    | —              |
| PS8      | 104.852 | 102.502         | 101.002            | 102.302         | 99.802             | 101.776    | —              |
| PS9      | 104.372 | 103.097         | 101.897            | 101.197         | 100.072            | 101.524    | 0.700          |
| PS10     | 103.892 | 102.617         | 101.417            | 101.617         | 100.492            | 101.338    | —              |
| PS11     | 103.412 | 102.137         | 100.937            | 101.137         | 100.012            | 101.182    | —              |
| PS12     | 102.932 | 101.657         | 100.457            | 101.157         | 99.832             | 101.115    | —              |
| A/S      | 102.465 | 101.190         | 100.065            | 101.190         | 100.065            | 101.058    | —              |

- NOTES:-**
1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METER.
  2. UNLESS OTHERWISE STATED IN DRAWING, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
  3. STRUCTURAL DETAILS AND DIMENSIONS SHOWN IN THIS DRAWING ARE TENTATIVE AND APPROVED BY THE DEPARTMENT.
  4. DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODES AS APPROVED BY MOST.
  5. THE BRIDGE SHALL BE DESIGNED FOR BELOW MENTIONED IRC LOADING: EACH TWO LANE BRIDGE SHALL BE DESIGNED FOR IRC CLASS A TWO LANE LOADS OR ONE LANE OF 70R WHEELED VEHICLES OR SPECIAL VEHICLE WHICHEVER IS SEVERE AND GOVERNING.
  6. MIN. GRADE OF CONCRETE: M-15 DECK SLAB/DIAPHRAGM M-50 P.C.C. CRASH BARRIER M-40 R.C.C. SOLID SLAB M-35 PIER/PIER CAP M-40 R.C.C. TOE WALL M-30 PILE FOUNDATION/PILE CAP M-40 R.C.C. APPROACH SLAB M-30 PIER/PIER CAP M-40 R.C.C. APPROACH SLAB M-30 P.C.C. ORDER M-50
  7. REINFORCEMENT STEEL SHALL BE H.Y.S.D. FE 500D.
  8. PRESTRESS STEEL SHALL BE HTS STRAND (LOW RELAXATION).
  9. STRIP SEAL TYPE EXPANSION JOINT OF APPROVED QUALITY AS PER MOST SPECIFICATION TO BE PROVIDED IN DECK.
  10. DRAINAGE SPOUT AND WEARING COAT SHALL BE AS PER MOST SPECIFICATIONS.
  11. ELASTOMERIC BEARING SHALL CONFORM TO IRC:63.
  12. THE DEPTH OF FOUNDATION SHOWN IN DRAWING IS TENTATIVE. DETAILED DESIGN SHALL BE DONE AS PER SOIL EXPLORATION REPORT.
  13. SEISMIC ZONE-III SHALL BE CONSIDERED FOR DETAIL DESIGN AS PER LATEST CODAL PROVISION.
  14. MAXIMUM DESIGN SPEED 60 kmph CONSIDERED.
  15. SOIL TESTING HAS BEEN CARRIED OUT BY UNIQUE ENGINEERING TESTING & ADVISORY SERVICES.
  16. SOIL REPORT NO.: 2223132
  17. DATE: 20-11-2022
  18. RAILWAY PORTION G.A.D. APPROVED FROM RAILWAY DEPARTMENT.

|             |                                                                                                                                                                                              |                                                              |            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------|
| RO          | 09.02.2023                                                                                                                                                                                   | REVISED AS PER COMMENTS OF DESIGNS (R&B) CIRCLE, GANDHINAGAR | REVISION   |
| NO.         | DATE                                                                                                                                                                                         | REVISION                                                     |            |
| PROJECT:    | WIDENING OF EXIST. RAILWAY OVER BRIDGE ON 90.00 M. ROAD OF T.P. SCHEME No. 59 (Umn) AT RLY. Km. 254/18-19 BETWEEN AHMEDABAD-MUMBAI RLY. LINE, CONNECTING SURAT - SACHIN ROAD, SACHIN, SURAT. |                                                              |            |
| CLIENT:     | SURAT MUNICIPAL CORPORATION                                                                                                                                                                  |                                                              |            |
| CONTRACTOR: | SHREE MANGLAM BUILDCON (I) PVT. LTD., ANKLESHWAR.                                                                                                                                            |                                                              |            |
| CONSULTANT: | SHAH ASSOCIATES 1005, 10TH FLOOR, SAKAR-V. B/H. NATRAL CINEMA OFF. ASHRAM ROAD, AHMEDABAD-380009. PHONE NO. 079-26565760, 079260113314                                                       |                                                              |            |
| TITLE:      | GENERAL ARRANGEMENT DRAWING                                                                                                                                                                  |                                                              |            |
| DRAWN BY:   | K. C. KOSHTI                                                                                                                                                                                 | DESIGN BY:                                                   | D. H. SHAH |
| CHECKED BY: | D. H. SHAH                                                                                                                                                                                   | PROJ. NO.                                                    | DRG. NO.   |
| SCALE:      | AS SHOWN                                                                                                                                                                                     | REVISION                                                     |            |
| DATE:       | NOV.-2022                                                                                                                                                                                    |                                                              | 01         |
|             |                                                                                                                                                                                              |                                                              | RO         |