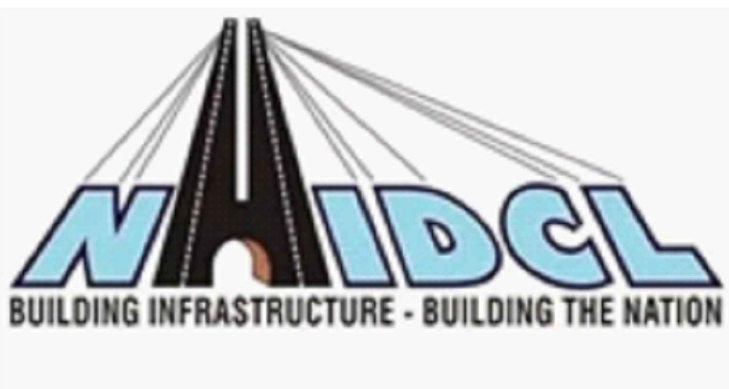
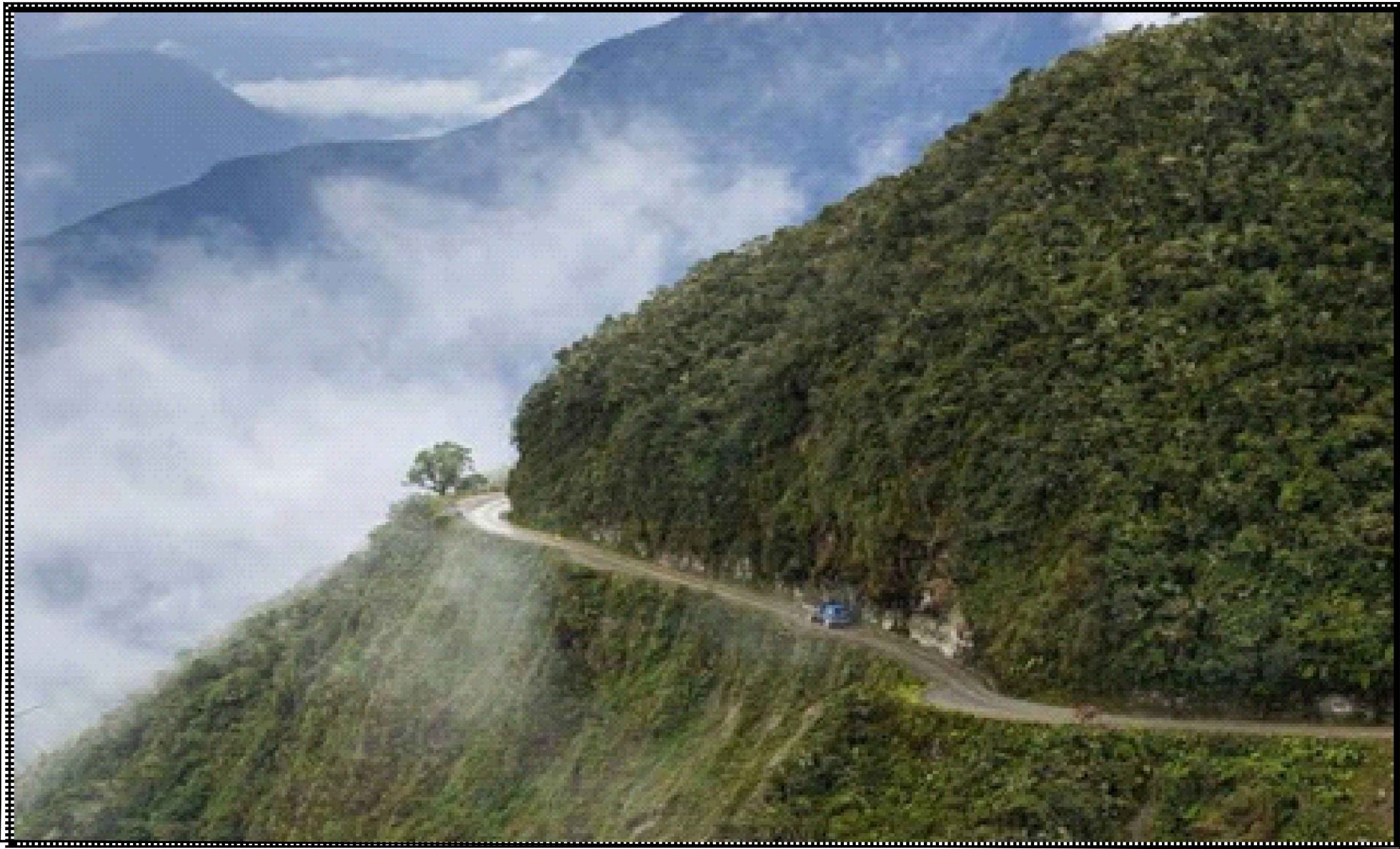




National Highways and Infrastructure Development Corporation Limited

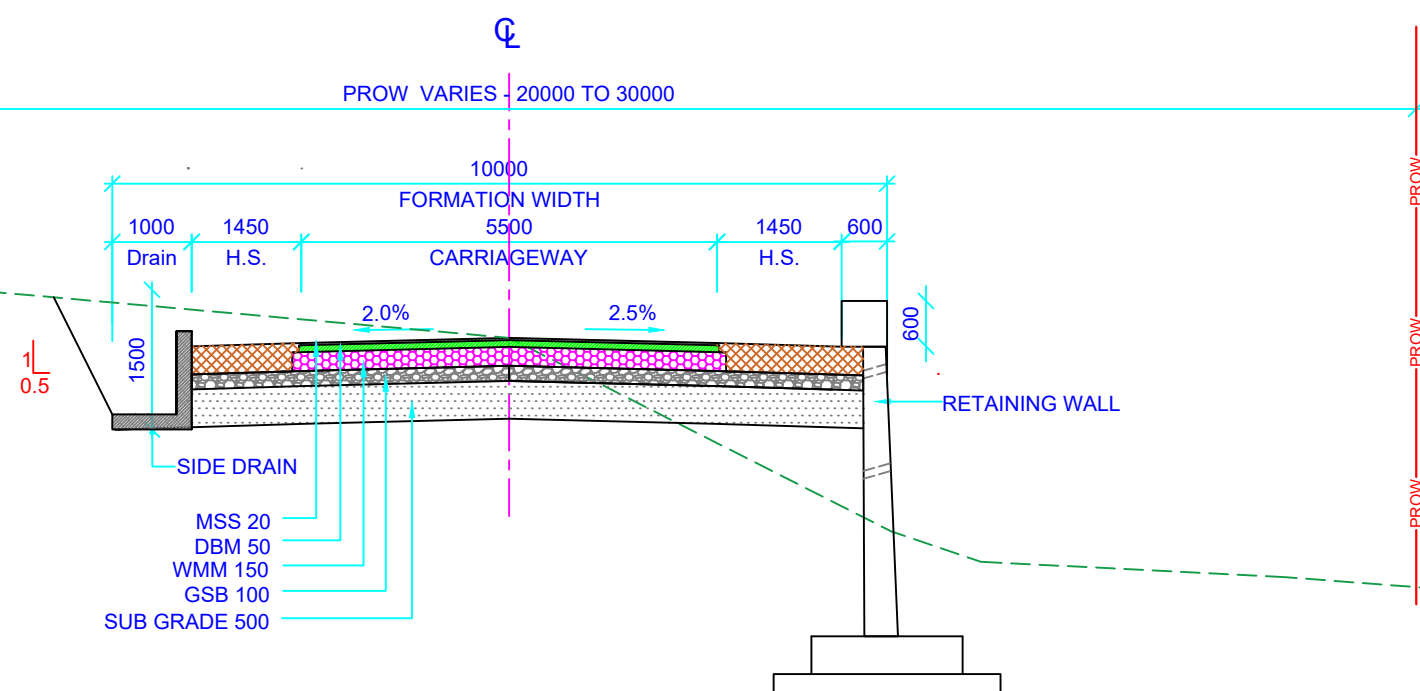
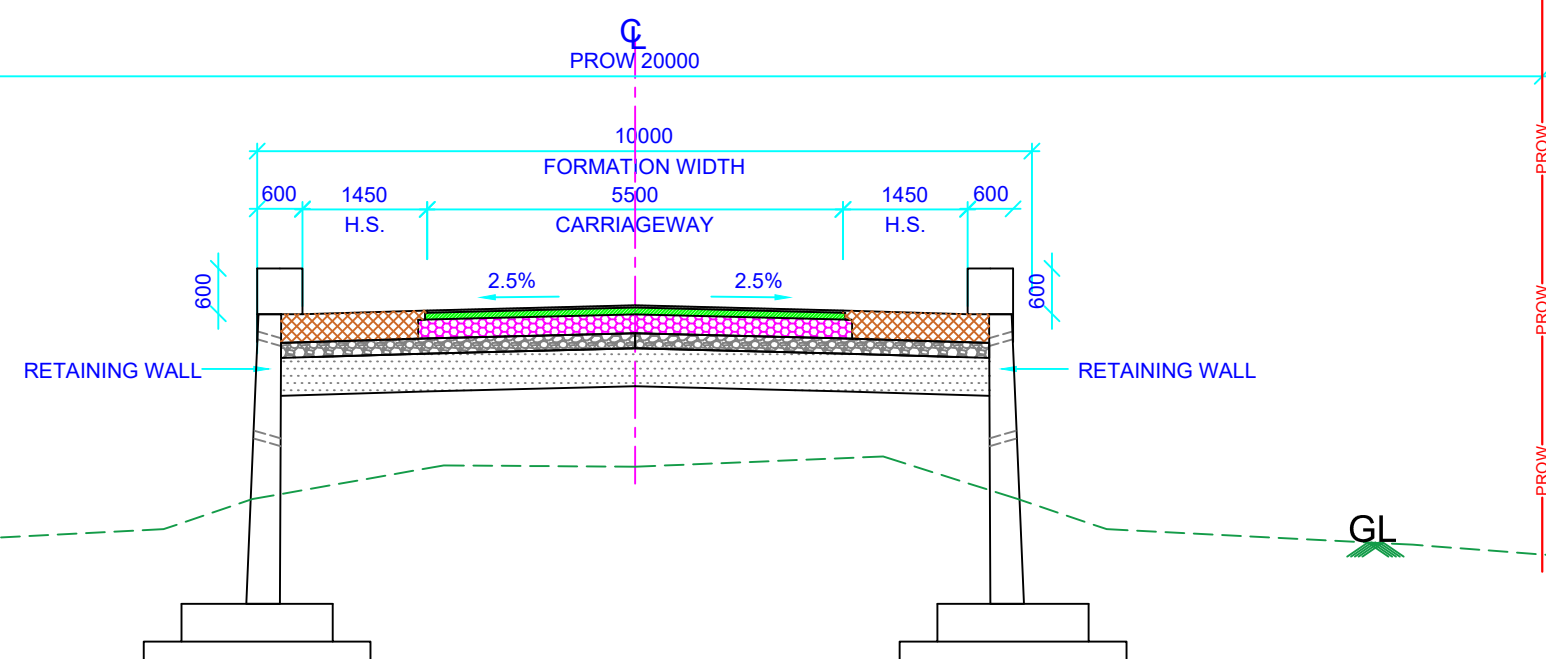
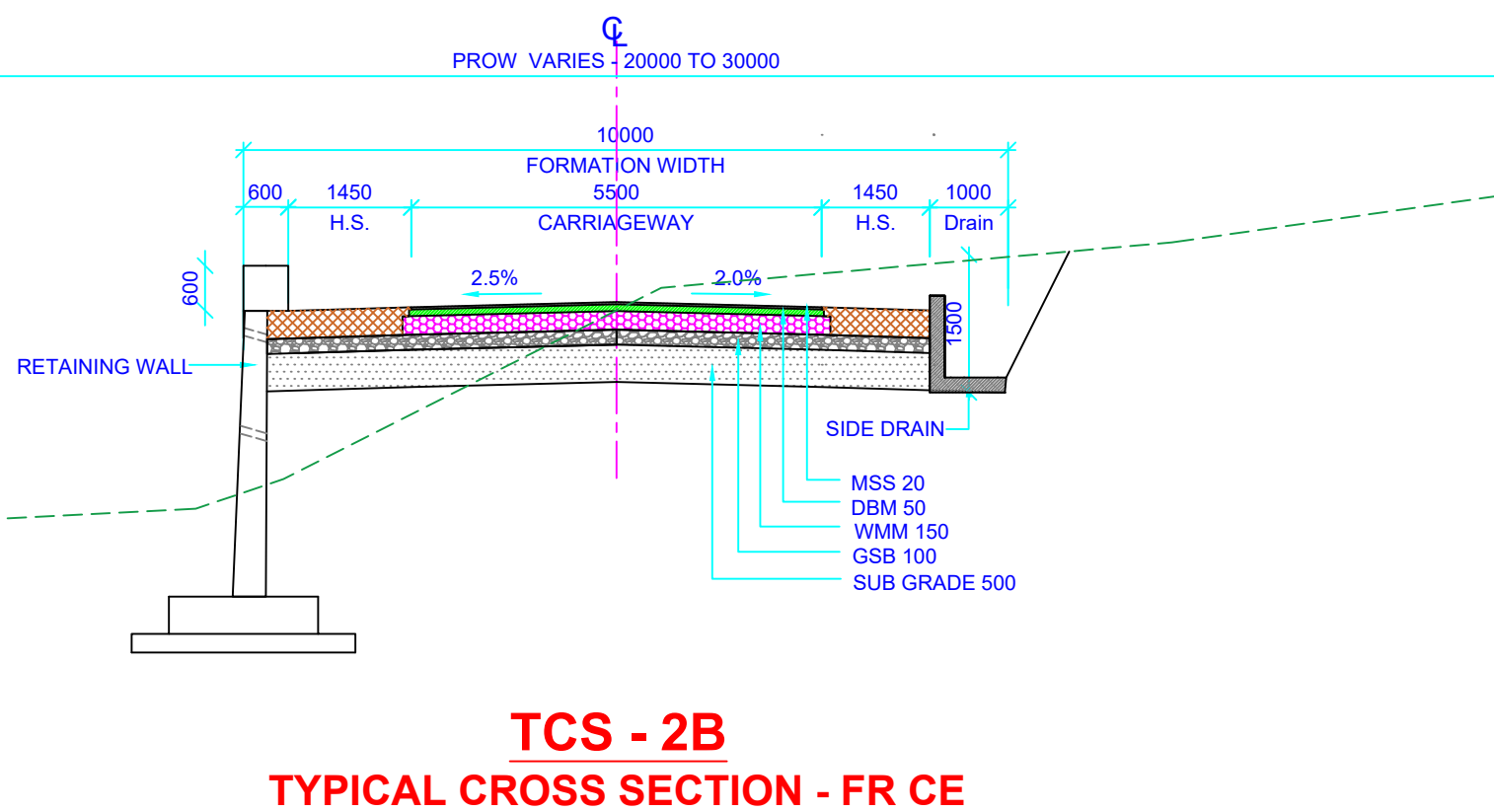
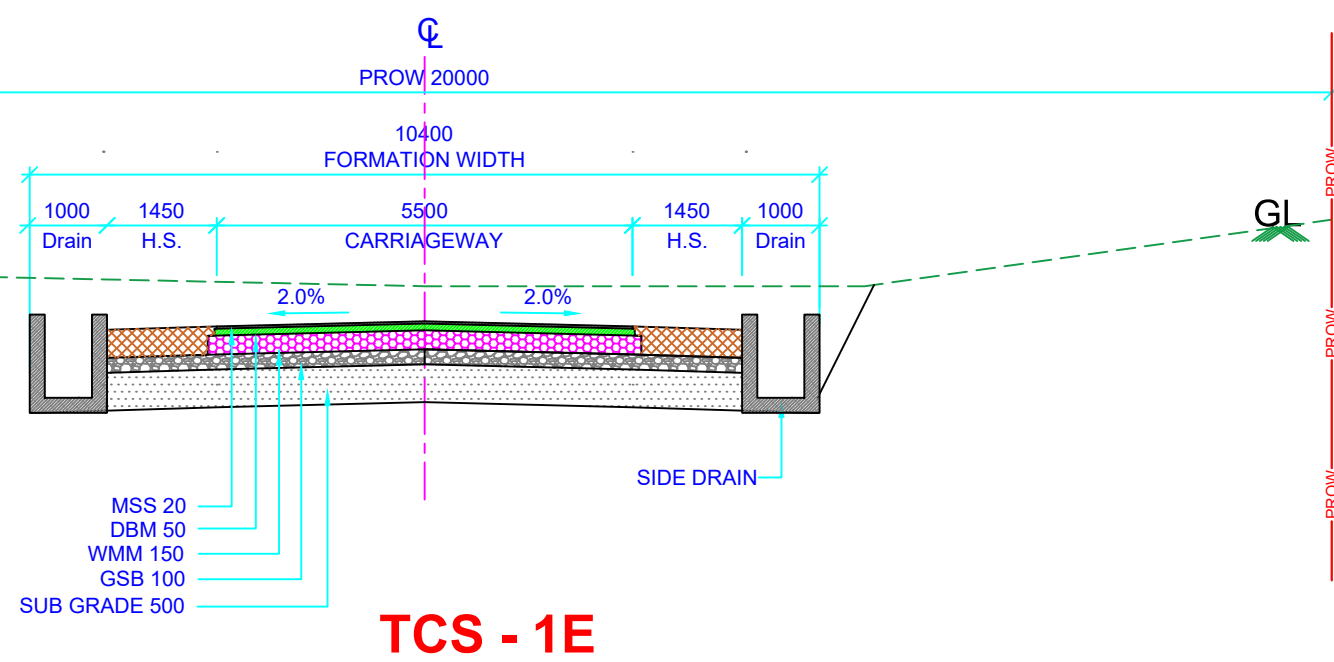
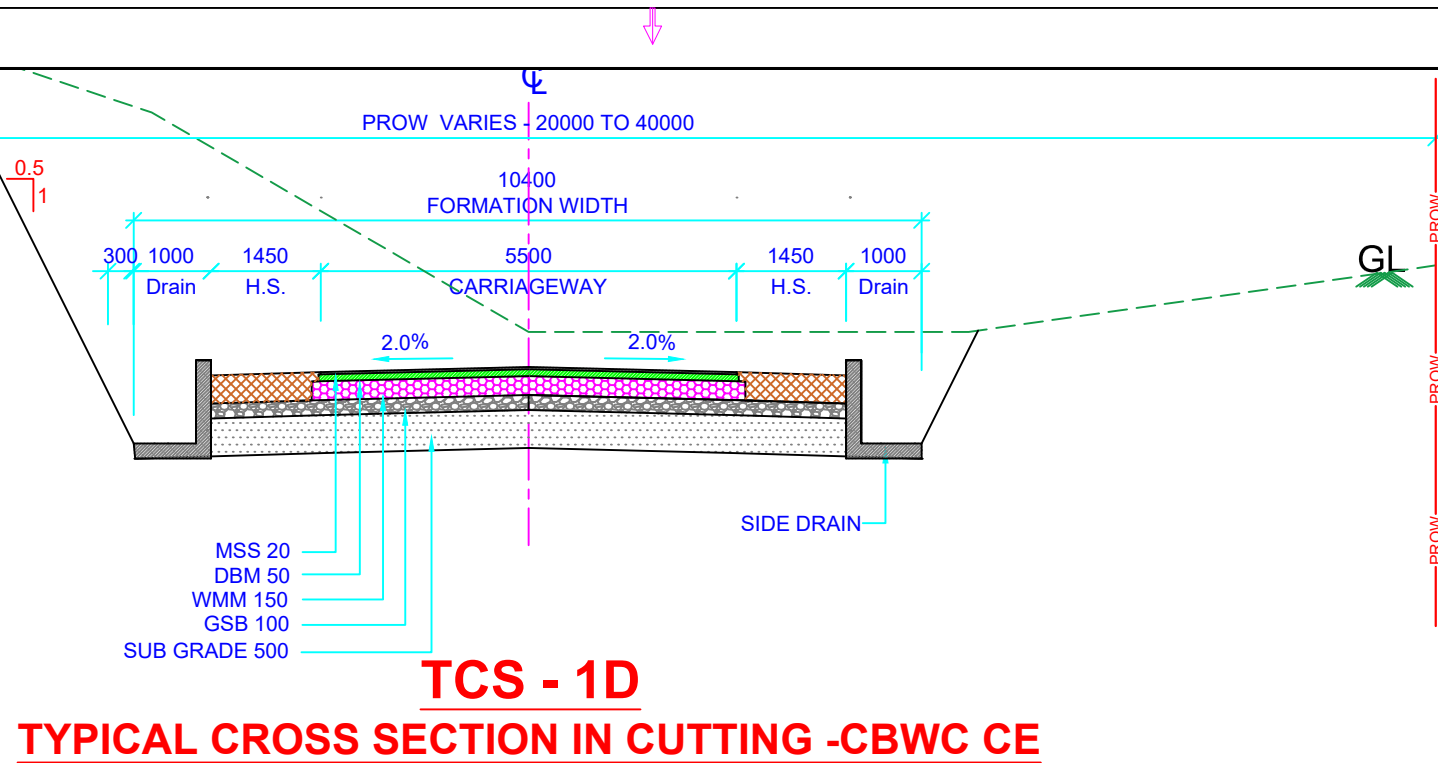


DETAILED PROJECT REPORT
DRAWINGS

CONSULTING ENGINEERS:										CLIENT:										PROJECT:
 ENGINEERING PVT. LTD.  SHAMKRISHNA ENGINEERING PVT. LTD.  ZOMA ENGINEERS M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai – 400 705, India. Ph: +91 22 69063300										 BUILDING INFRASTRUCTURE - BUILDING THE NATION National Highways and Infrastructure Development Corporation Limited										Consultancy Services For Prepering of DPR of 2 Laning of propose Frontier highway From Nafra to Vijanagar in the State of Arunachal Pradesh in Packages (Package06-Migging-Tuting-Zido and Singa -Anelih-Hunli 230 Km)
DRAWN																				HUNLI-ANELIH STRETCH
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DESIGN																				
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APPROVED																				
JOB NO.: 1037										SCALE: REV. NO. DATE OF ISSUE REVISION DETAILS DRAWN CHKD. DES. APRD.										

TYPICAL CROSS SECTION

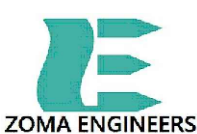
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1401, Rupa Sapphire, Plot no. 12, Sector-18,
Opposite Sanpada Railway Station, Sion - Panvel Highway,
Vashi, Navi Mumbai - 400705
Tel: +91-22-6906 3300/ 30
www.tpfepi.com - www.tpf.eu



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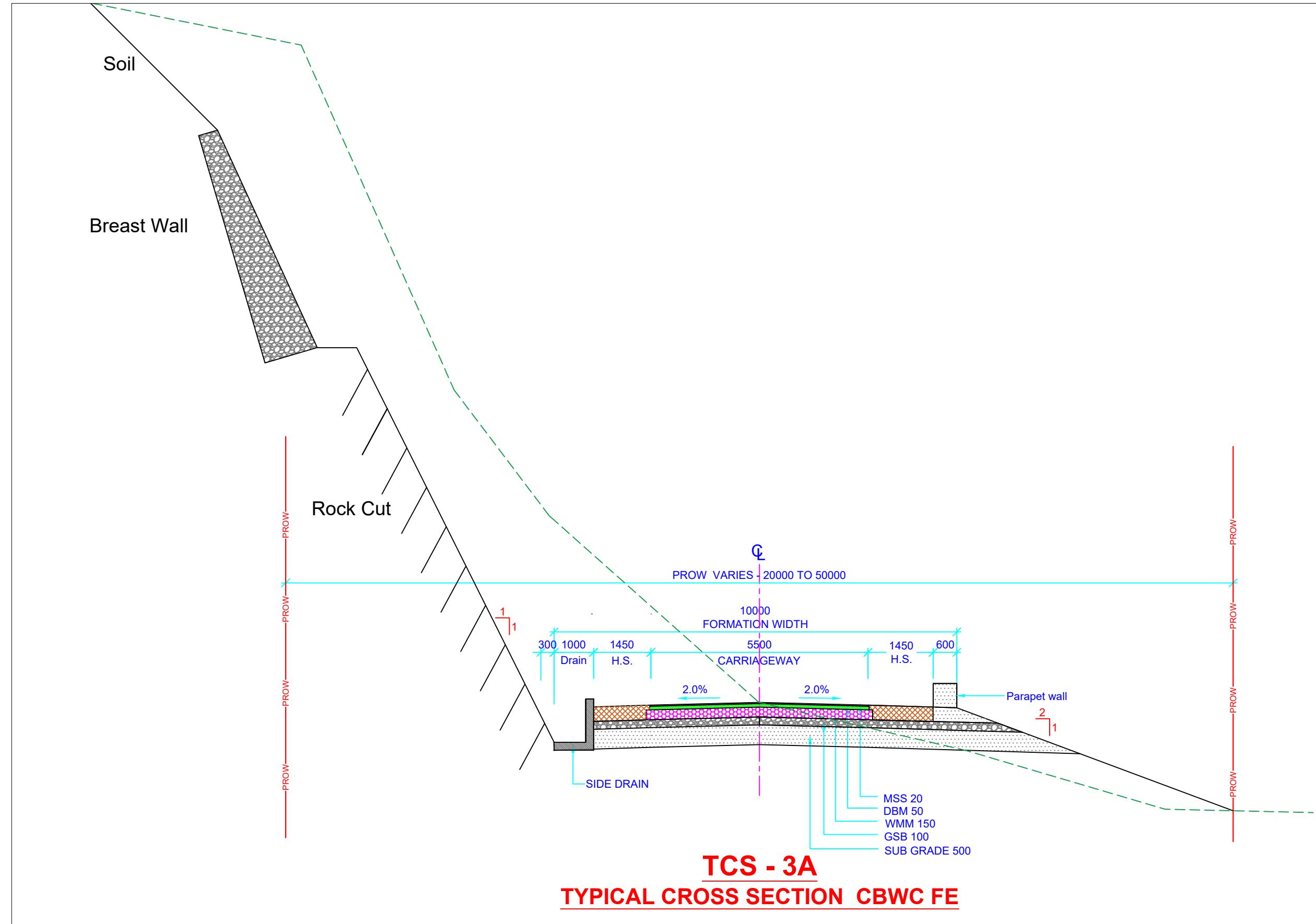
PROJECT:
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANE OF PROPOSE FRONTIER
HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN
PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)

HUNLI-ANELIH STRETCH

TITLE: TYPICAL CROSS SECTION

DRG. NO.:NHIDCL/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS
-DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/2 OF 5

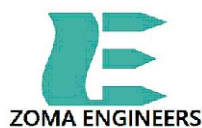
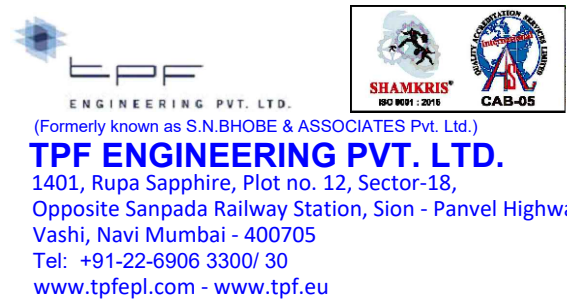
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CONSULTING ENGINEERS:

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CLIENT:



**National Highways and
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Corporation Limited**

PROJECT:	CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)
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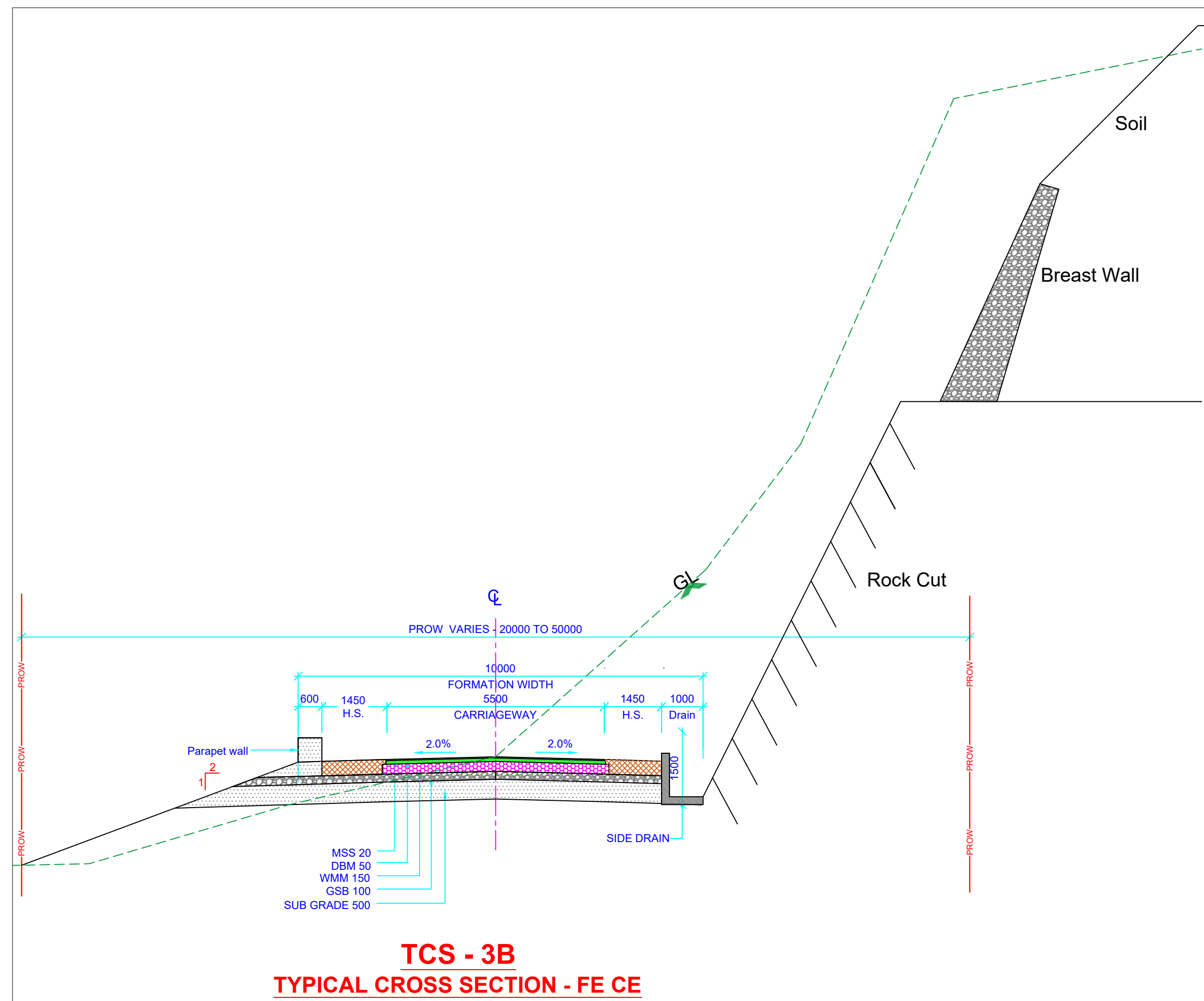
HUNLI-ANELIH STRETCH

TITLE: TYPICAL CROSS SECTION

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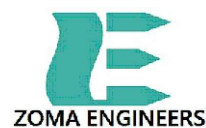


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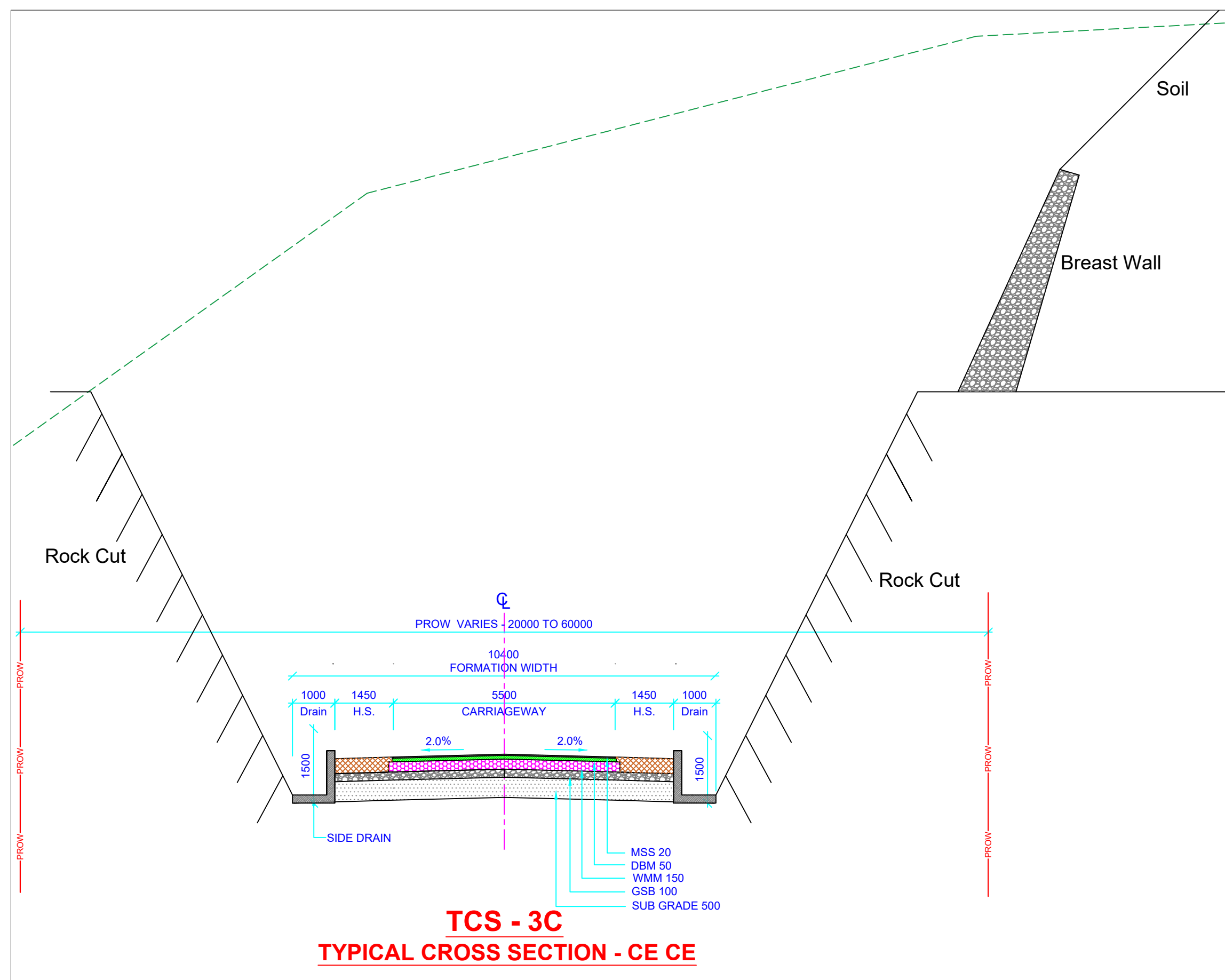
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-DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/ 5 OF 5

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HUNLI-ANELIH STRETCH

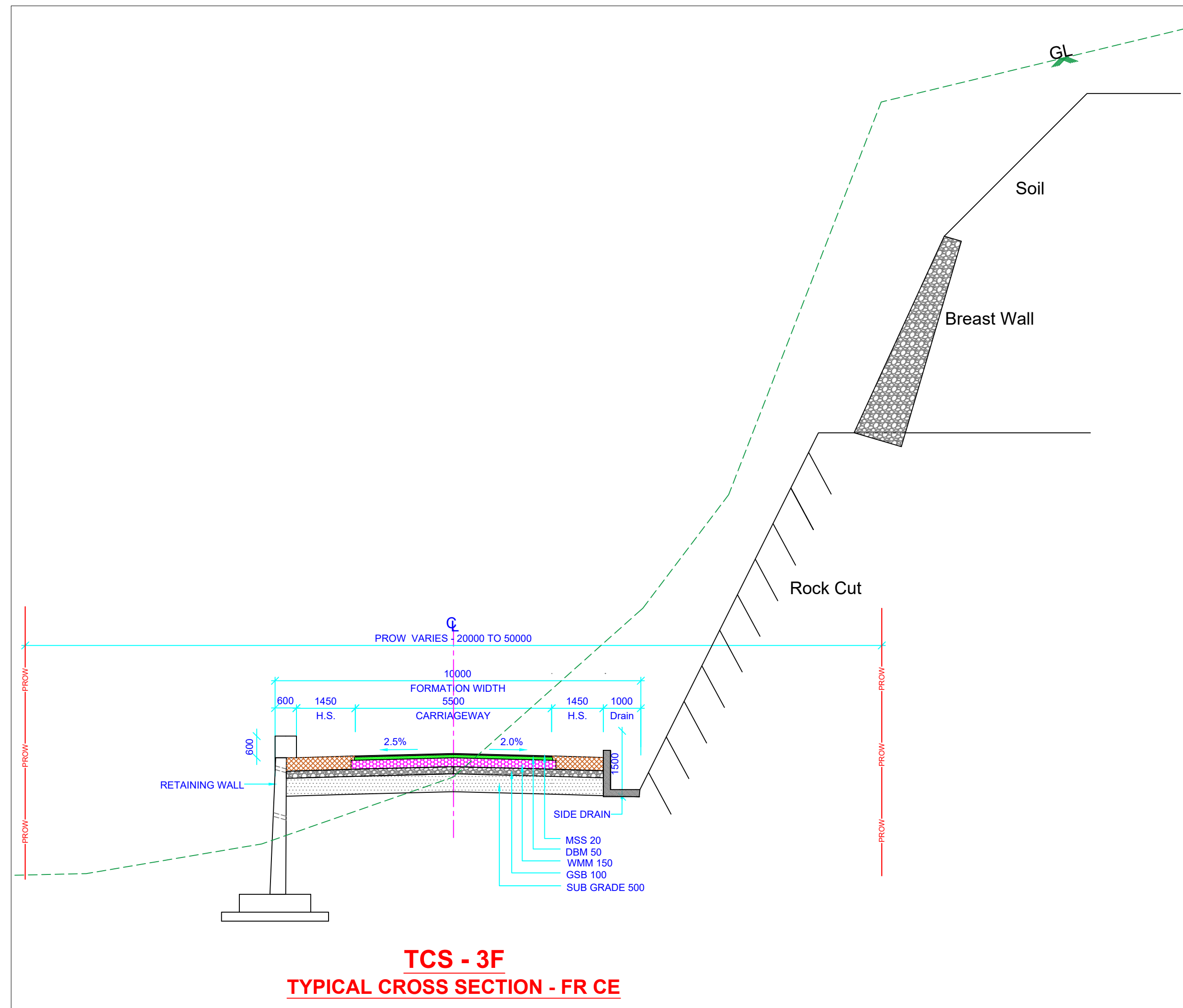
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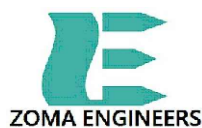


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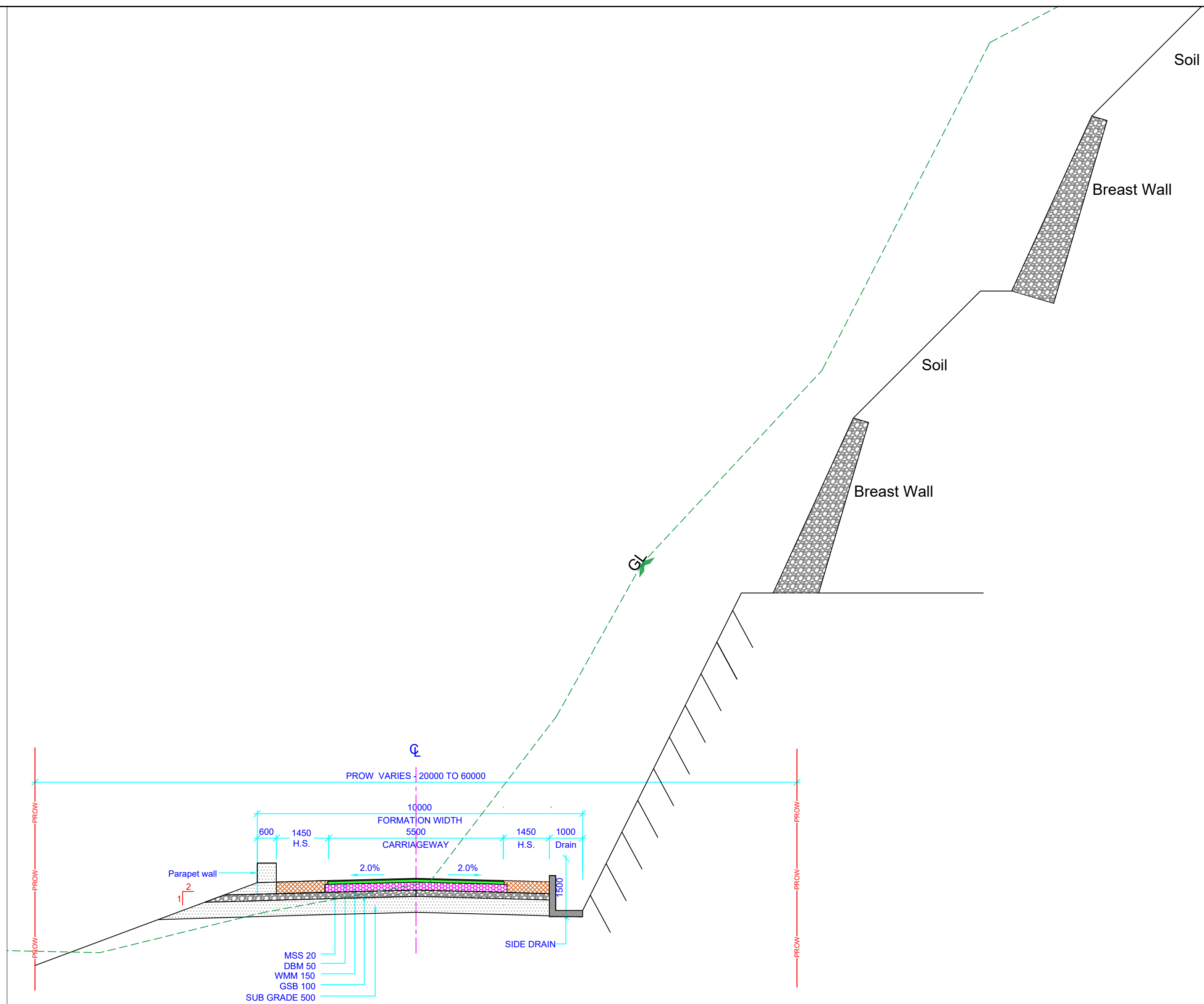
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PROJECT:		
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANEING OF PROPOSED FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)		
HUNLI-ANELIH STRETCH		
TITLE: TYPICAL CROSS SECTION		
DRG. NO.	NHIDCL/DPR-Nafra-to-Vijayanagar-Pkg-6-Arunachal-Pradesh/TRANS-DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/ 5 OF 5	REV.
		R0
		A2

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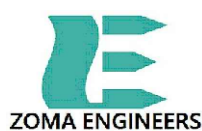
TCS - 4B
TYPICAL CROSS SECTION - FE CE

NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS
AND LEVELS IN METERS, UNLESS
WRITTEN OTHERWISE.

NO DIMENSIONS SHALL BE SCALED
FROM THIS DRAWING ONLY WRITTEN
DIMENSIONS SHALL BE FOLLOWED.

CONSULTING ENGINEERS:

[illegible]

CLIENT:



**National Highways and
Infrastructure Development
Corporation Limited**

PROJECT:	CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)
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HUNLI-ANELIH STRETCH

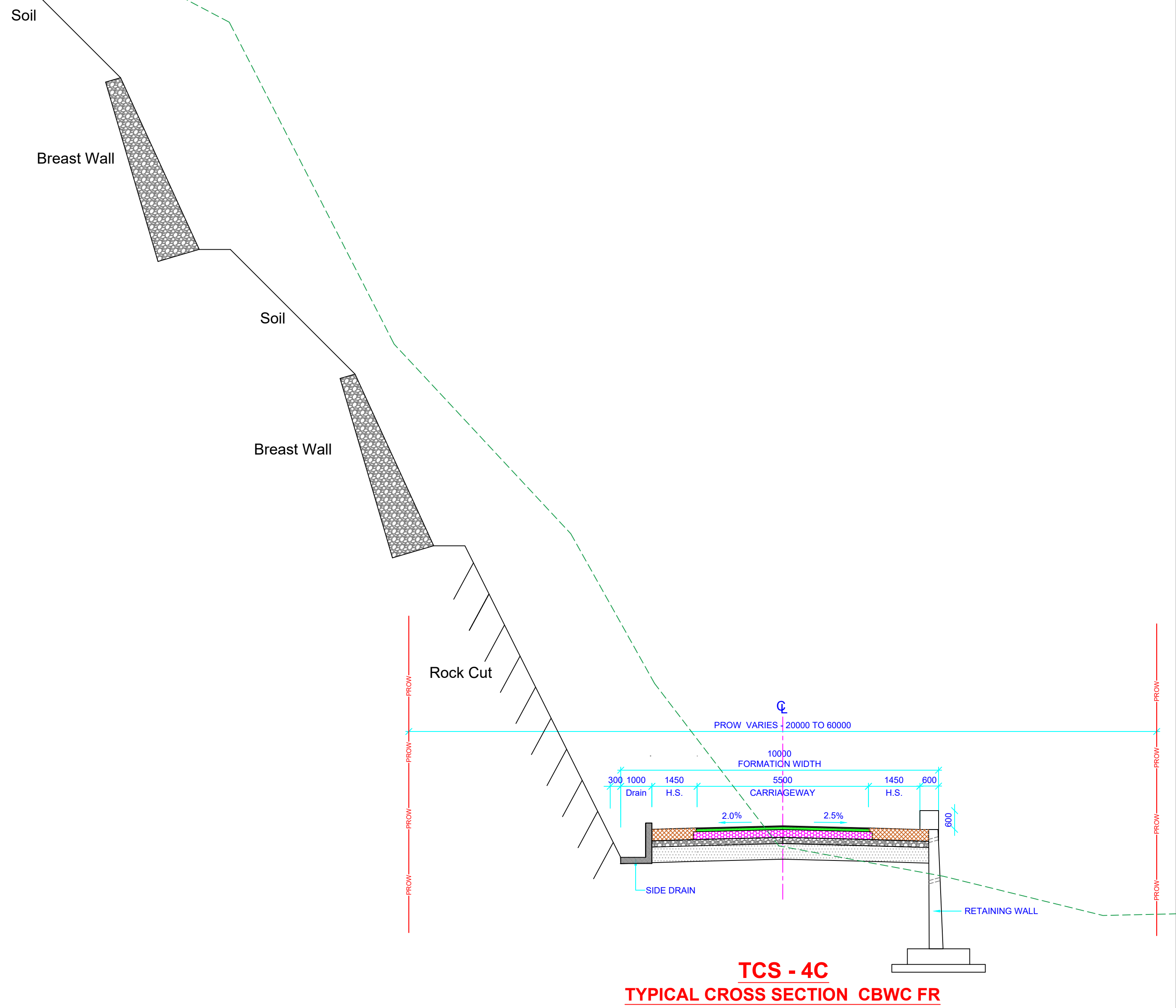
TITLE: TYPICAL CROSS SECTION

DRG. NO..NHIDCL/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS
-DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/ 5 OF 5

iv.	A2	AD FILE:
0		

N OF T - 00 OF 00

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CONSULTING ENGINEERS:

[illegible]

CLIENT



**National Highways and
Infrastructure Development
Corporation Limited**

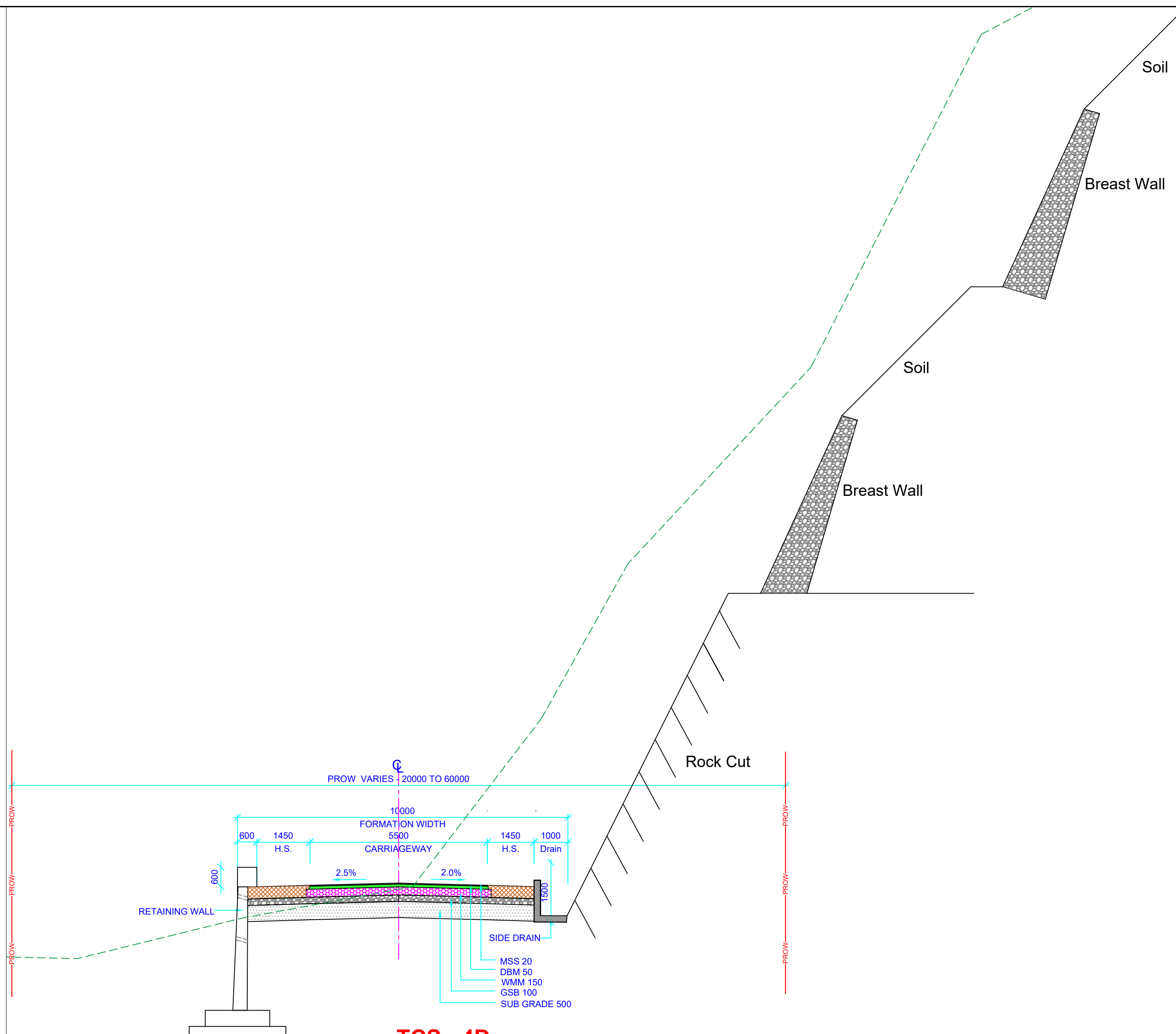
PROJECT:
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER
HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN
PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)

HUNLI-ANELIH STRETCH

TITLE: TYPICAL CROSS SECTION

DRG. NO.: NHIDCL/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS -DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/ 5 OF 5	REV.	A2
	R0	

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TCS - 4D
TYPICAL CROSS SECTION - FR CE

NOTES:

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CONSULTING ENGINEERS:



(Formerly known as S.N.BHOBE & ASSOCIATES Pvt. Ltd.)
TPF ENGINEERING PVT. LTD.
 1401, Rupa Sapphire, Plot no. 12, Sector-18,
 Opposite Sanpada Railway Station, Sion - Panvel Highway,
 Vashi, Navi Mumbai - 400705
 Tel: +91-22-6906 3300/ 30
www.tpfpl.com | www.tpf.eu



DATE	27.03.2023	SIGN									
DRAWN	SRB										
CHECKED	SM										
DESIGN	SM										
CHECKED	AAB										
APPROVED	AAB		R0								
JOB NO.: 1037		SCALE: 1:1250	REV. NO.	DATE OF ISSUE	REVISION DETAILS			DRAWN	CHKD.	DES.	APRD

CLIENT:



**National Highways and
Infrastructure Development
Corporation Limited**

PROJECT:
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER
HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN
PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA -ANELIH-HUNLI 230 KM)

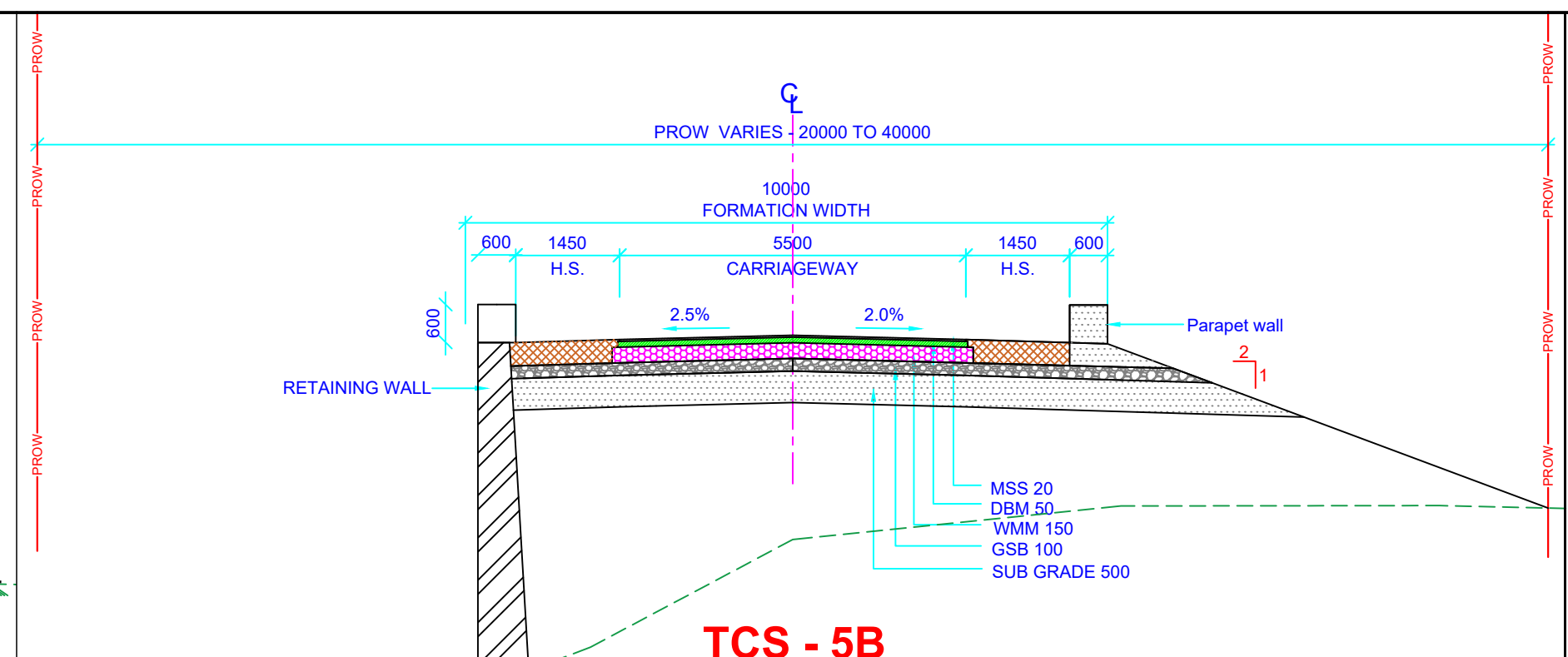
HUNLI-ANELIH STRETCH

TITLE: TYPICAL CROSS SECTION

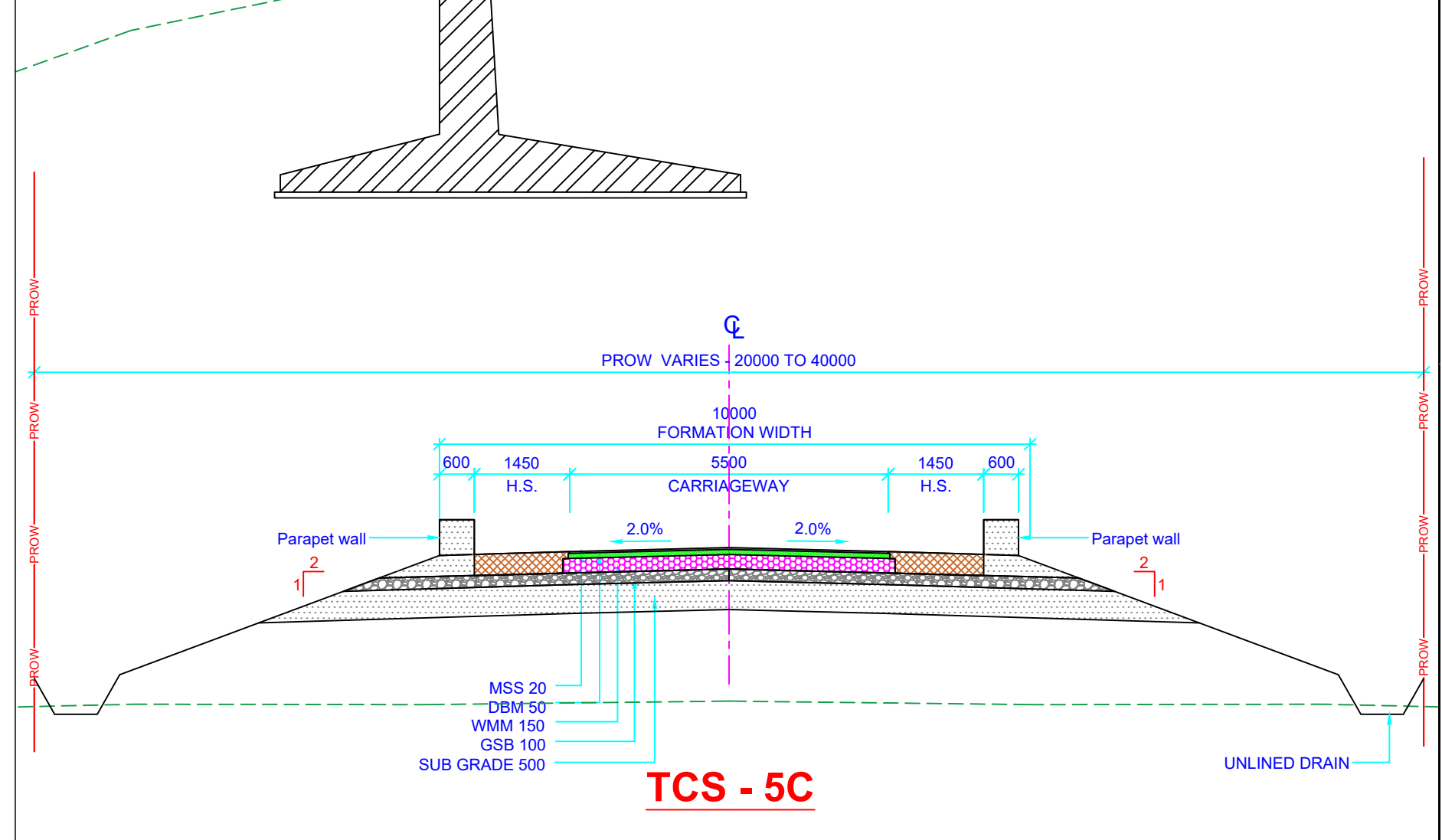
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-DES-PLA-EST/2020-21/P3291/1037/TCS/1037002/R0/5 OF 5

	REV.	A3
	B0	

N OF T - 00 OF 00



TCS - 5B



TCS - 5C

PLAN AND PROFILE DRAWINGS







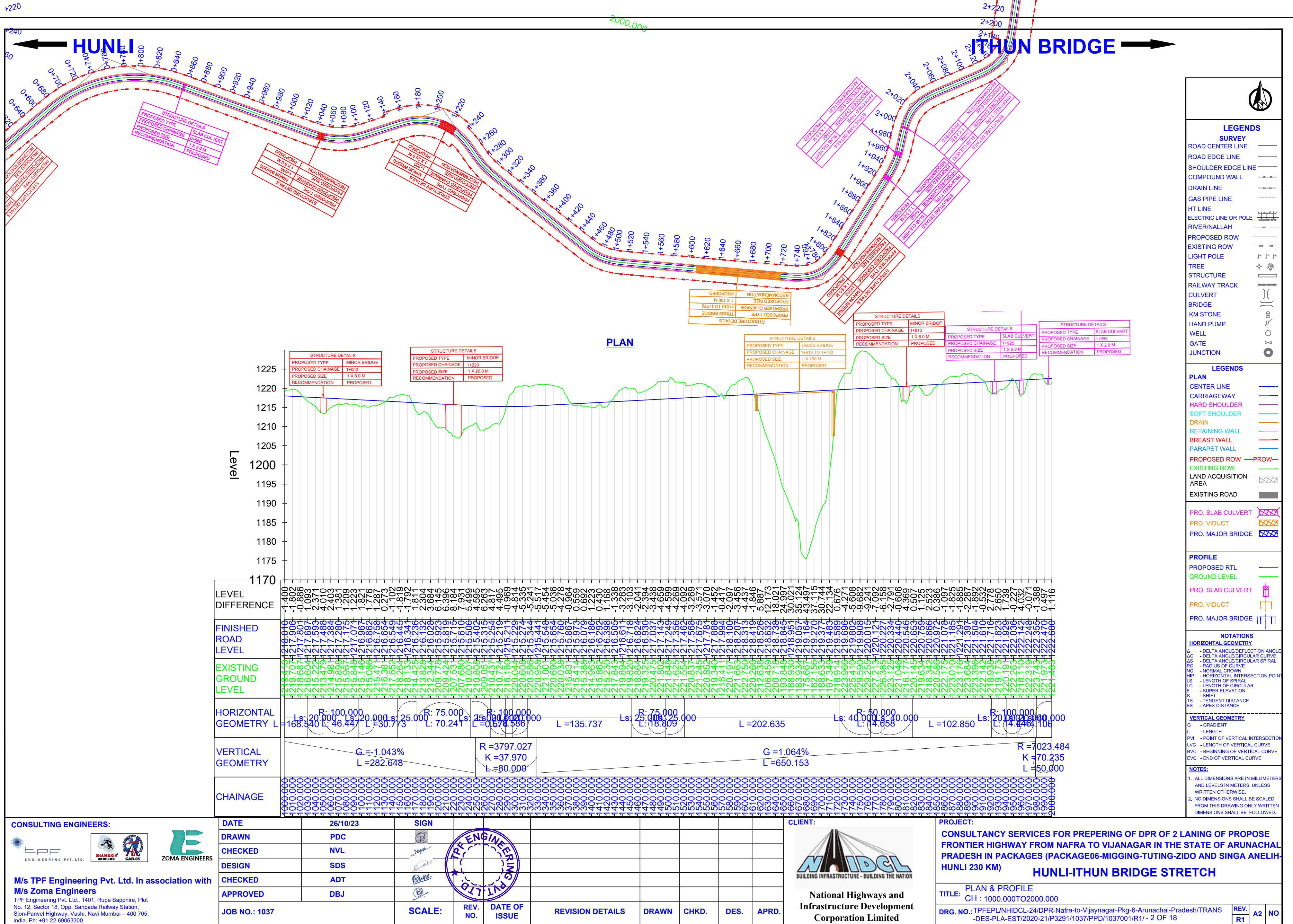

ZOMA ENGINEERS



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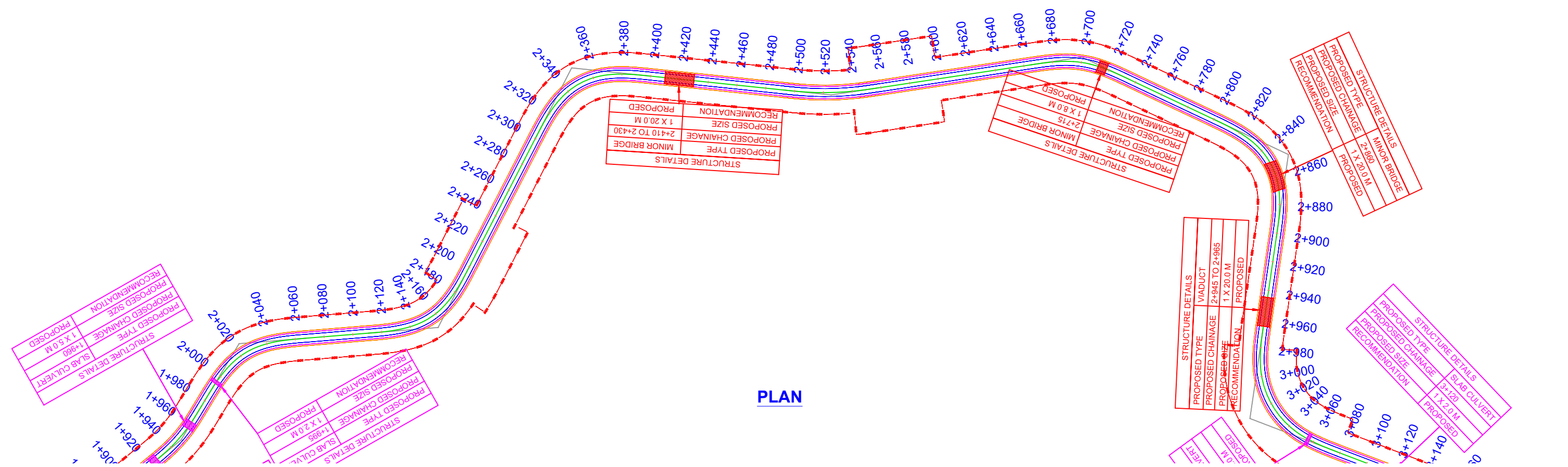
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE
FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL
PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-
HUNLI 230 KM)

DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS-DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/- 1 OF 18	REV.	A2	NO
	R1		

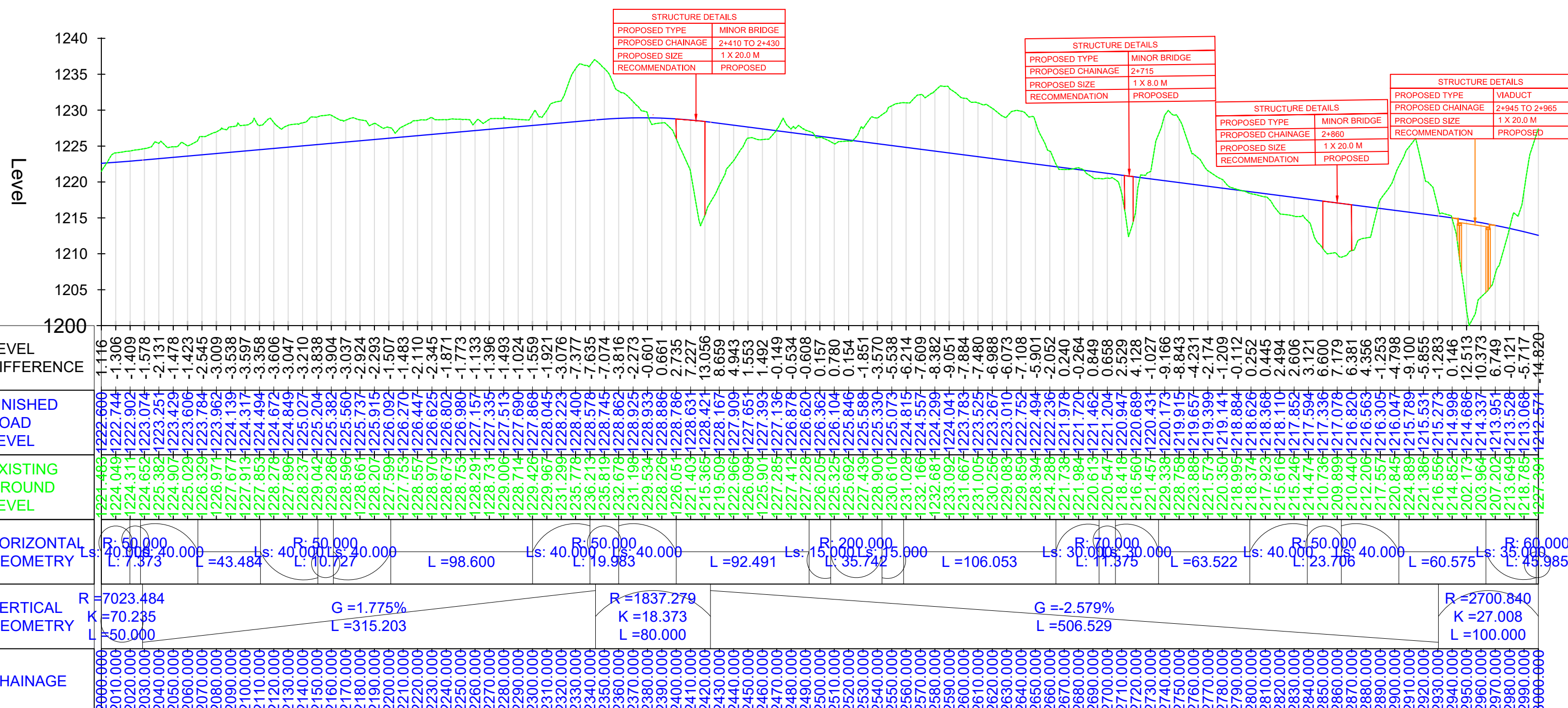


HUNLI

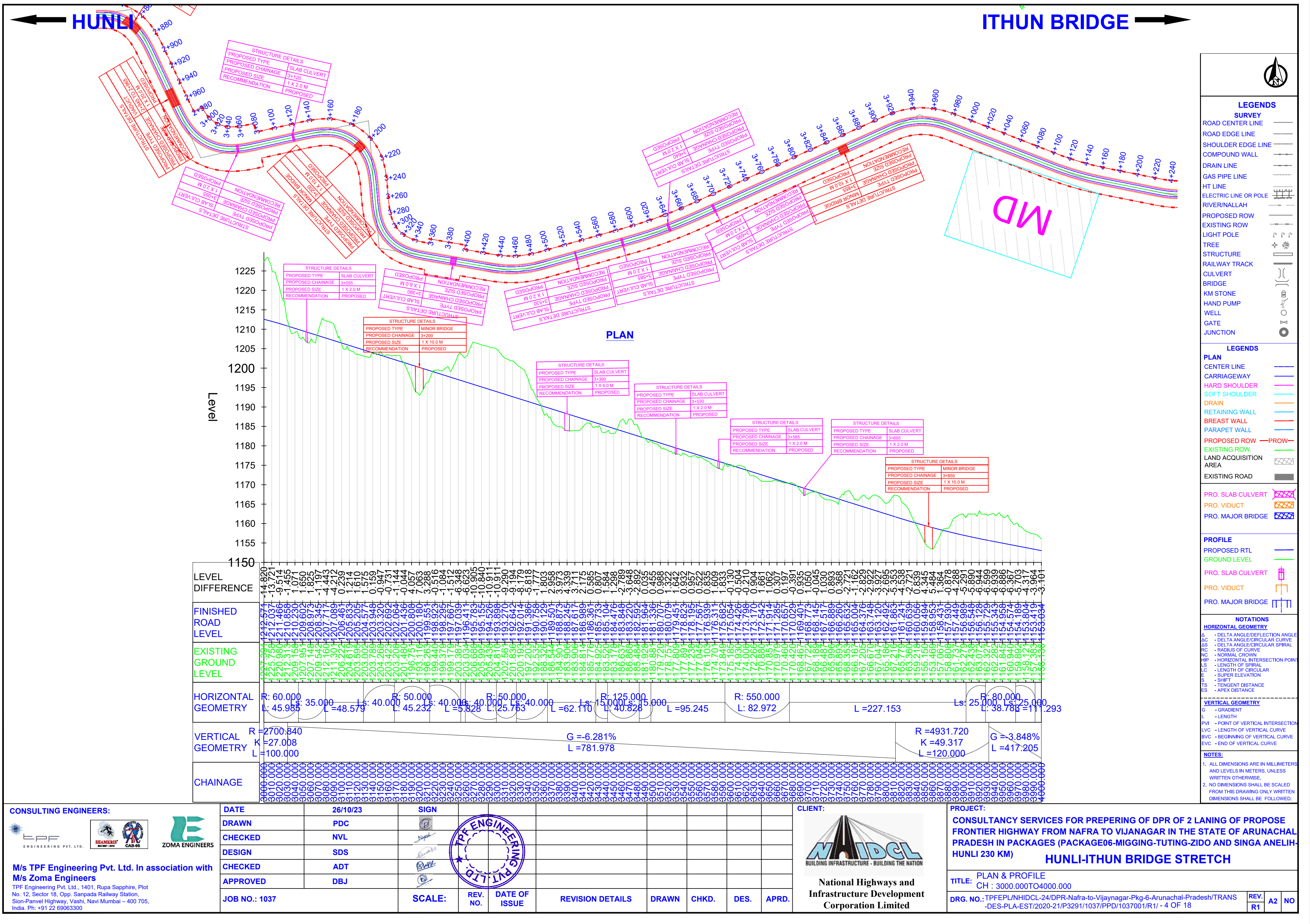
ITHUN BRIDGE



PLAN



LEVEL DIFFERENCE	1.116 -1.306 -1.409 -1.578 -2.131 -1.478 -1.423 -2.545 -3.009 -3.538 -3.597 -3.358 -3.606 -3.047 -3.210 -3.838 -3.904 -3.307 -2.924 -2.293 -1.507 -1.483 -2.110 -2.345 -1.871 -1.773 -1.133 -1.396 -1.493 -1.024 -1.559 -1.921 -3.076 -7.377 -7.635 -7.074 -3.816 -2.273 -0.601 0.661 7.235 7.227 13.056 8.659 4.943 1.553 1.492 -0.149 -0.534 0.157 0.780 0.154 -1.851 -3.578 -5.538 -6.214 -7.609 -8.382 -9.051 -7.884 -7.480 -6.988 -6.073 -7.108 -5.901 0.240 -0.264 0.849 0.658 2.529 4.128 -1.027 -9.166 -8.843 -4.231 -2.174 -1.209 0.445 2.606 3.121 6.600 7.179 6.381 4.356 -1.253 -4.798 9.100 -1.885 -1.283 0.146 12.513 10.373 6.749 -0.121 -5.717 -14.820
FINISHED ROAD LEVEL	1222.660 1222.744 1222.902 1223.074 1223.251 1223.429 1223.606 1223.784 1223.962 1224.139 1224.317 1224.494 1224.672 1224.849 1225.027 1225.204 1225.382 1225.560 1225.737 1225.915 1226.092 1226.270 1226.447 1226.625 1226.802 1226.980 1227.157 1227.335 1227.513 1227.690 1227.868 1228.045 1228.223 1228.400 1228.578 1228.755 1228.932 1229.109 1229.286 1229.464 1229.641 1229.818 1229.995 1230.172 1230.350 1230.527 1230.704 1230.881 1231.058 1231.235 1231.412 1231.589 1231.766 1231.943 1232.120 1232.297 1232.474 1232.651 1232.828 1233.005 1233.182 1233.359 1233.536 1233.713 1233.890 1234.067 1234.244 1234.421 1234.598 1234.775 1234.952 1235.129 1235.306 1235.483 1235.660 1235.837 1236.014 1236.191 1236.368 1236.545 1236.722 1236.899 1237.076 1237.253 1237.430 1237.607 1237.784 1237.961 1238.138 1238.315 1238.492 1238.669 1238.846 1239.023 1239.200 1239.377 1239.554 1239.731 1239.908 1240.085 1240.262 1240.439 1240.616 1240.793 1240.970 1241.147 1241.324 1241.501 1241.678 1241.855 1242.032 1242.209 1242.386 1242.563 1242.740 1242.917 1243.094 1243.271 1243.448 1243.625 1243.802 1243.979 1244.156 1244.333 1244.510 1244.687 1244.864 1245.041 1245.218 1245.395 1245.572 1245.749 1245.926 1246.103 1246.280 1246.457 1246.634 1246.811 1246.988 1247.165 1247.342 1247.519 1247.696 1247.873 1248.050 1248.227 1248.404 1248.581 1248.758 1248.935 1249.112 1249.289 1249.466 1249.643 1249.820 1249.997 1250.174 1250.351 1250.528 1250.705 1250.882 1251.059 1251.236 1251.413 1251.590 1251.767 1251.944 1252.121 1252.298 1252.475 1252.652 1252.829 1253.006 1253.183 1253.360 1253.537 1253.714 1253.891 1254.068 1254.245 1254.422 1254.599 1254.776 1254.953 1255.130 1255.307 1255.484 1255.661 1255.838 1256.015 1256.192 1256.369 1256.546 1256.723 1256.900 1257.077 1257.254 1257.431 1257.608 1257.785 1257.962 1258.139 1258.316 1258.493 1258.670 1258.847 1259.024 1259.201 1259.378 1259.555 1259.732 1259.909 1260.086 1260.263 1260.440 1260.617 1260.794 1260.971 1261.148 1261.325 1261.502 1261.679 1261.856 1262.033 1262.210 1262.387 1262.564 1262.741 1262.918 1263.095 1263.272 1263.449 1263.626 1263.803 1263.980 1264.157 1264.334 1264.511 1264.688 1264.865 1265.042 1265.219 1265.396 1265.573 1265.750 1265.927 1266.104 1266.281 1266.458 1266.635 1266.812 1266.989 1267.166 1267.343 1267.520 1267.697 1267.874 1268.051 1268.228 1268.405 1268.582 1268.759 1268.936 1269.113 1269.290 1269.467 1269.644 1269.821 1269.998 1270.175 1270.352 1270.529 1270.706 1270.883 1271.060 1271.237 1271.414 1271.591 1271.768 1271.945 1272.122 1272.299 1272.476 1272.653 1272.830 1273.007 1273.184 1273.361 1273.538 1273.715 1273.892 1274.069 1274.246 1274.423 1274.600 1274.777 1274.954 1275.131 1275.308 1275.485 1275.662 1275.839 1276.016 1276.193 1276.370 1276.547 1276.724 1276.901 1277.078 1277.255 1277.432 1277.609 1277.786 1277.963 1278.140 1278.317 1278.494 1278.671 1278.848 1279.025 1279.202 1279.379 1279.556 1279.733 1279.910 1280.087 1280.264 1280.441 1280.618 1280.795 1280.972 1281.149 1281.326 1281.503 1281.680 1281.857 1282.034 1282.211 1282.388 1282.565 1282.742 1282.919 1283.096 1283.273 1283.450 1283.627 1283.804 1283.981 1284.158 1284.335 1284.512 1284.689 1284.866 1285.043 1285.220 1285.397 1285.574 1285.751 1285.928 1286.105 1286.282 1286.459 1286.636 1286.813 1286.990 1287.167 1287.344 1287.521 1287.698 1287.875 1288.052 1288.229 1288.406 1288.583 1288.760 1288.937 1289.114 1289.291 1289.468 1289.645 1289.822 1289.999 1290.176 1290.353 1290.530 1290.707 1290.884 1291.061 1291.238 1291.415 1291.592 1291.769 1291.946 1292.123 1292.300 1292.477 1292.654 1292.831 1293.008 1293.185 1293.362 1293.539 1293.716 1293.893 1294.070 1294.247 1294.424 1294.601 1294.778 1294.955 1295.132 1295.309 1295.486 1295.663 1295.840 1296.017 1296.194 1296.371 1296.548 1296.725 1296.902 1297.079 1297.256 1297.433 1297.610 1297.787 1297.964 1298.141 1298.318 1298.495 1298.672 1298.849 1299.026 1299.203 1299.380 1299.557 1299.734 1299.911 1300.088 1300.265 1300.442 1300.619 1300.796 1300.973 1301.150 1301.327 1301.504 1301.681 1301.858 1302.035 1302.212 1302.389 1302.566 1302.743 1302.920 1303.097 1303.274 1303.451 1303.628 1303.805 1303.982 1304.159 1304.336 1304.513 1304.690 1304.867 1305.044 1305.221 1305.398 1305.575 1305.752 1305.929 1306.106 1306.283 1306.460 1306.637 1306.814 1306.991 1307.168 1307.345 1307.522 1307.699 1307.876 1308.053 1308.230 1308.407 1308.584 1308.761 1308.938 1309.115 1309.292 1309.469 1309.646 1309.823 1309.999 1310.176 1310.353 1310.530 1310.707 1310.884 1311.061 1311.238 1311.415 1311.592 1311.769 1311.946 1312.123 1312.300 1312.477 1312.654 1312.831 1313.008 1313.185 1313.362 1313.539 1313.716 1313.893 1314.070 1314.247 1314.424 1314.601 1314.778 1314.955 1315.132 1315.309 1315.486 1315.663 1315.840 1316.017 1316.194 1316.371 1316.548 1316.725 1316.902 1317.079 1317.256 1317.433 1317.610 1317.787 1317.964 1318.141 1318.318 1318.495 1318.672 1318.849 1319.026 1319.203 1319.380 1319.557 1319.734 1319.911 1320.088 1320.265 1320.442 1320.619 1320.796 1320.973 1321.150 1321.327 1321.504 1321.681 1321.858 1322.035 1322.212 1322.389 1322.566 1322.743 1322.920 1323.097 1323.274 1323.451 1323.628 1323.805 1323.982 1324.159 1324.336 1324.513 1324.690 1324.867 1325.044 1325.221 1325.398 1325.575 1325.752 1325.929 1326.106 1326.283 1326.460 1326.637 1326.814 1326.991 1327.168 1327.345 1327.522 1327.699 1327.876 1328.053 1328.230 1328.407 1328.584 1328.761 1328.938 1329.115 1329.292 1329.469 1329.646 1329.823 1329.999 1330.176 1330.353 1330.530 1330.707 1330.884 1331.061 1331.238 1331.415 1331.592 1331.769 1331.946 1332.123 1332.300 1332.477 1332.654 1332.831 1333.008 1333.185 1333.362 1333.539 1333.716 1333.893 1334.070 1334.247 1334.424 1334.601 1334.778 1334.955 1335.132 1335.309 1335.486 1335.663 1335.840 1336.017 1336.194 1336.371 1336.548 1336.725 1336.902 1337.079 1337.256 1337.433 1337.610 1337.787 1337.964 1338.141 1338.318 1338.495 1338.672 1338.849 1339.026 1339.203 1339.380 1339.557 1339.734 1339.911 1340.088 1340.265 1340.442 1340.619 1340.796 1340.973 1341.150 1341.327 1341.504 1341.681 1341.858 1342.035 1342.212 1342.389 1342.566 1342.743 1342.920 1343.097 1343.274 1343.451 1343.628 1343.805 1343.982 1344.159 1344.336 1344.513 1344.690 1344.867 1345.044 1345.221 1345.398 1345.575 1345.752 1345.929 1346.106 1346.283 1346.460 1346.637 1346.814 1346.991 1347.168 1347.345 1347.522 1347.700 1347.877 1348.054 1348.231 1348.408 1348.585 1348.762 1348.939 1349.116 1349.293 1349.470 1349.647 1349.824 1349.999 1350.176 1350.353 1350.530 1350.707 1350.884 1351.061 1351.238 1351.415 1351.592 1351.769 1351.946 1352.123 1352.300 1352.477 1352.654 1352.831 1353.008 1353.185 1353.362 1353.539 1353.716 1353.893 1354.070 1354.247 1354.424 1354.601 1354.778 1354.955 1355.132 1355.309 1355.486 1355.663 1355.840 1356.017 1356.194 1356.371 1356.548 1356.725 1356.902 1357.079 1357.256 1357.433 1357.610 1357.787 1357.964 1358.141 1358.318 1358.495 1358.672 1358.849 1359.026 1359.203 1359.380 1359.557 1359.734 1359.911 1360.088 1360.265 1360.442 1360.619 1360.796 1360.973 1361.150 1361.327 1361.504 1361.681 1361.858 1362.035 1362.212 1362.389 1362.566 1362.743 1362.920 1363.097 1363.274 1363.451 1363.628 1363.805 1363.982 1364.159 1364.336 1364.513 1364.690 1364.867 1365.044 1365.221 1365.398 1365.575 1365.752 1365.929 1366.106 1366.283 1366.460 1366.637 1366.814 1366.991 1367.168 1367.345 1367.522 1367.700 1367.877 1368.054 1368.231 1368.408 1368.585 1368.762 1368.939 1369.116 1369.293 1369.470 1369.647 1369.824 1369.999 1370.176 1370.353 1370.530 1370.707 1370.884 1371.061 1371.238 1371.415 1371.592 1371.769 1371.946 1372.123 1372.300 1372.477 1372.654 1372.831 1373.008 1373.185 1373.362 1373.539 1373.716 1373.893 1374.070 1374.247 1374.424 1374.601 1374.778 1374.955 1375.132 1375.309 1375.486 1375.663 1375.840 1376.017 1376.194 1376.371 1376.548 1376.725 1376.902 1377.079 1377.256 1377.433 1377.610 1377.787 1377.964 1378.141 1378.318 1378.495 1378.672 1378.849 1379.026 1379.203 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1399.026 1399.203 1399.380 1399.557 1399.734 1399.911 1400.088 1400.265 1400.442 1400.619 1400.796 1400.973 1401.150 1401.327 1401.504 1401.681 1401.858 1402.035 1402.212 1402.389 1402.566 1402.743 1402.920 1403.097 1403.274 1403.451 1403.628 1403.805 1403.982 1404.159 1404.336 1404.513 1404.690 1404.867 1405.044 1405.221 1405.398 1405.575 1405.752 1405.929 1406.106 1406.283 1406.460 1406.637 1406.814 1406.991 1407.168 1407.345 1407.522 1407.700 1407.877 1408.054 1408.231 1408.408 1408.585 1408.762 1408.939 1409.116 1409.293 1409.470 1409.647 1409.824 1409.999 1410.176 1410.353 1410.530 1410.707 1410.884 1411.061 1411.238 1411.415 1411.592 1411.769 1411.946 1412.123 1412.300 1412.477 1412.654 1412.831 1413.008 1413.185 1413.362 1413.539 1413.716 1413.893 1414.070 1414.247 1414.424 1414.601 1414.778 1414.955 1415.132 1415.309 1415.486 1415.663 1415.840 1416.017 1416.194 1416.371 1416.548 1416.725 1416.902 1417.079 1417.256 1417.433 1417.610 1417.787 1417.964 1418.141 1418.318 1418.495 1418.672 1418.849 1419.026 1419.203 1419.380 1419.557 1419.734 1419.911 1420.088 1420.265 1420.442 1420.619 1420.796 1420.973 1421.150 1421.327 1421.504 1421.681 1421.858 1422.035 1422.





LEVEL DIFFERENCE	1100
FINISHED ROAD LEVEL	
EXISTING GROUND LEVEL	
HORIZONTAL GEOMETRY	
VERTICAL GEOMETRY	
CHAINAGE	

[illegible][illegible]

	
LEGENDS	
SURVEY	
ROAD CENTER LINE	—
ROAD EDGE LINE	—
SHOULDER EDGE LINE	—
COMPOUND WALL	—
DRAIN LINE	—
GAS PIPE LINE	—
HT LINE	—
ELECTRIC LINE OR POLE	—
RIVER/NALLAH	—
PROPOSED ROW	—
EXISTING ROW	—
LIGHT POLE	—
TREE	—
STRUCTURE	—
RAILWAY TRACK	—
CULVERT	—
BRIDGE	—
KM STONE	—
HAND PUMP	—
WELL	—
GATE	—
JUNCTION	—
LEGENDS	
PLAN	
CENTER LINE	—
CARRIAGEWAY	—
HARD SHOULDER	—
SOFT SHOULDER	—
DRAIN	—
RETAINING WALL	—
BREAST WALL	—
PARAPET WALL	—
PROPOSED ROW —PROW—	—
EXISTING ROW	—
LAND ACQUISITION AREA	—
EXISTING ROAD	—
PRO. SLAB CULVERT	—
PRO. VIADUCT	—
PRO. MAJOR BRIDGE	—
PROFILE	
PROPOSED RTL	—
GROUND LEVEL	—
PRO. SLAB CULVERT	—
PRO. VIADUCT	—
PRO. MAJOR BRIDGE	—
NOTATIONS	
HORIZONTAL GEOMETRY	
Δ	- DELTA ANGLE/DEFLECTION ANGLE
LS	- DELTA ANGLE/CIRCULAR CURVE
RC	- RADIUS OF CURVE
NC	- NORMAL CROWN
HP	- HORIZONTAL INTERSECTION POINT
LS	- LENGTH OF SPIRAL
LC	- LENGTH OF CIRCULAR
E	- SUPER ELEVATION
S	- SHIFT
TS	- TANGENT DISTANCE
ES	- APEX DISTANCE
VERTICAL GEOMETRY	
G	- GRADIENT
L	- LENGTH
PVI	- POINT OF VERTICAL INTERSECTION
LVC	- LENGTH OF VERTICAL CURVE
BVC	- BEGINNING OF VERTICAL CURVE
EVC	- END OF VERTICAL CURVE
NOTES:	
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TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot
No. 12, Sector 18, Opp. Sanpada Railway Station,
Sion-Panvel Highway, Vashi, Navi Mumbai – 400 705,
India. Ph: +91 22 69063300

DATE	26/10/23
DRAWN	PDC
CHECKED	NVL
DESIGN	SDS
CHECKED	ADT
APPROVED	DBJ
JOB NO.: 1037	

SIGN								
								
								
								
								
SCALE:	REV. NO.	DATE OF ISSUE	REVISION DETAILS	DRAWN	CHKD.	DES.	APRD	

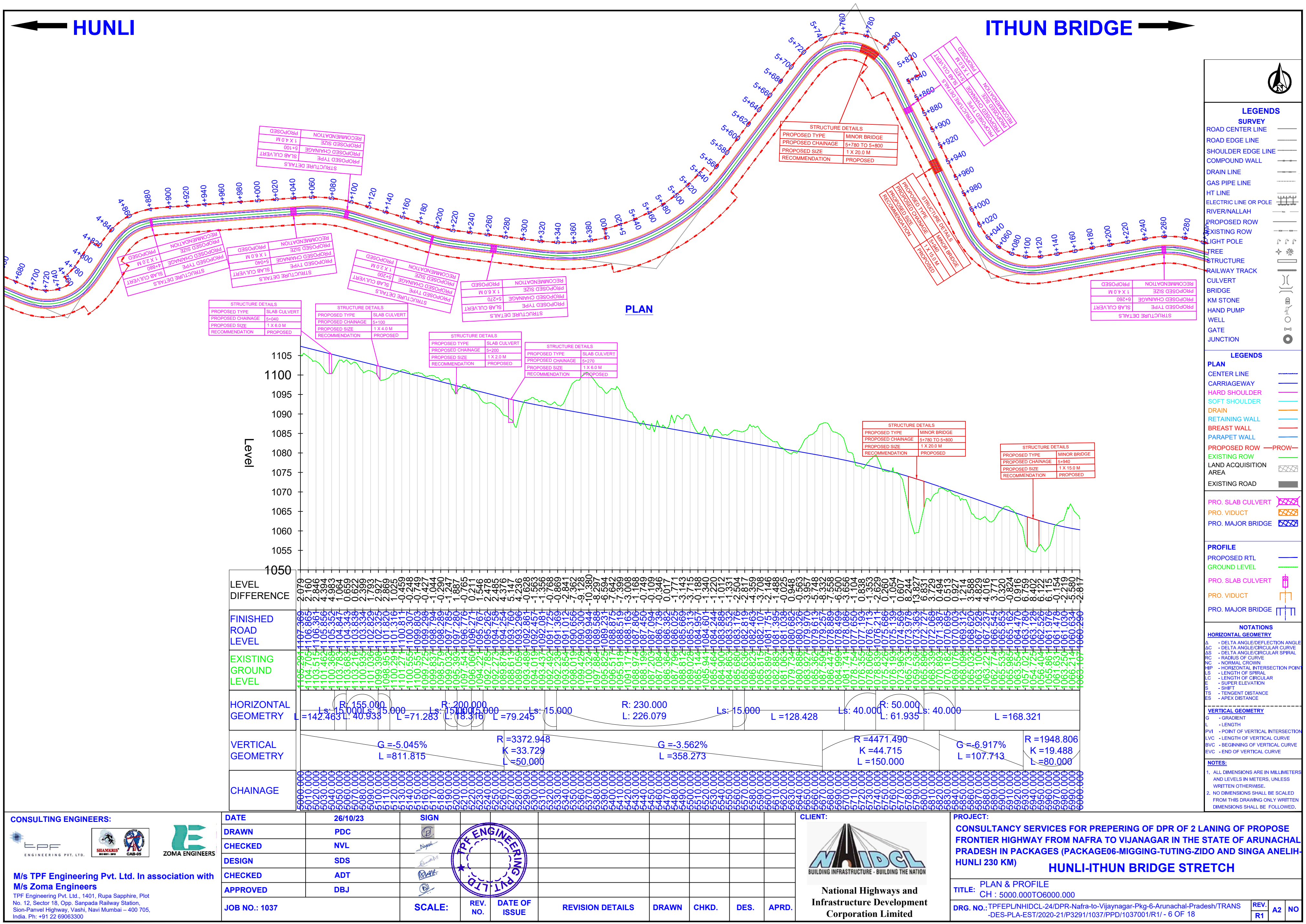
CLIENT:



NHIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

**National Highways and
Infrastructure Development
Corporation Limited**

PROJECT: CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH. HUNLI 230 KM) HUNLI-ITHUN BRIDGE STRETCH				
TITLE: PLAN & PROFILE CH : 4000.000TO5000.000				
DRG. NO.: TPFEPL/NHIDC-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS		-DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/ - 5 OF 18		
REV. R1		A2		NO



LEGENDS
SURVEY
ROAD CENTER LINE
ROAD EDGE LINE
SHOULDER EDGE LINE
COMPOUND WALL
DRAIN LINE
GAS PIPE LINE
HT LINE
ELECTRIC LINE OR POLE
RIVER/NALLAH
PROPOSED ROW
EXISTING ROW
LIGHT POLE
TREE
STRUCTURE
RAILWAY TRACK
CULVERT
BRIDGE
KM STONE
HAND PUMP
WELL
GATE
JUNCTION

LEGENDS
PLAN
CENTER LINE
CARRIAGEWAY
HARD SHOULDER
SOFT SHOULDER
DRAIN
RETAINING WALL
BREAST WALL
PARAPET WALL
PROPOSED ROW
EXISTING ROW
LAND ACQUISITION AREA
EXISTING ROAD

PRO. SLAB CULVERT
PRO. VIDUCT
PRO. MAJOR BRIDGE

PROFILE
PROPOSED RTL
GROUND LEVEL
PRO. SLAB CULVERT
PRO. VIDUCT
PRO. MAJOR BRIDGE

NOTATIONS
HORIZONTAL GEOMETRY
A - DELTA ANGLE/DEFLECTION ANGLE
AC - DELTA ANGLE/CIRCULAR SPIRAL
AS - DELTA ANGLE/CIRCULAR SPIRAL
RC - RADIUS OF CURVE
NC - NORMAL CROWN
HIP - HORIZONTAL INTERSECTION POINT
LS - LENGTH OF SPIRAL
LC - LENGTH OF CIRCULAR
E - SUPER ELEVATION
S - SHIFT
TS - TANGENT DISTANCE
ES - APEX DISTANCE

VERTICAL GEOMETRY
G - GRADE
L - LENGTH
PVI - POINT OF VERTICAL INTERSECTION
LVC - LENGTH OF VERTICAL CURVE
BVC - BEGINNING OF VERTICAL CURVE
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CONSULTING ENGINEERS:

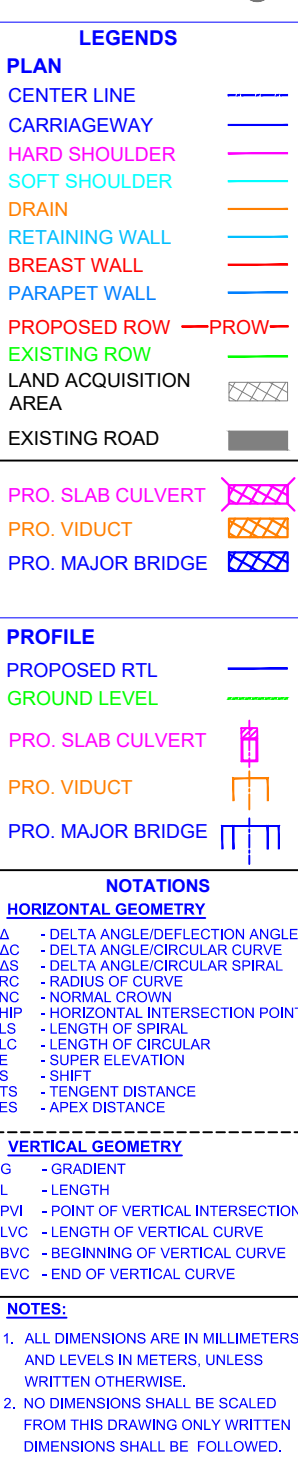
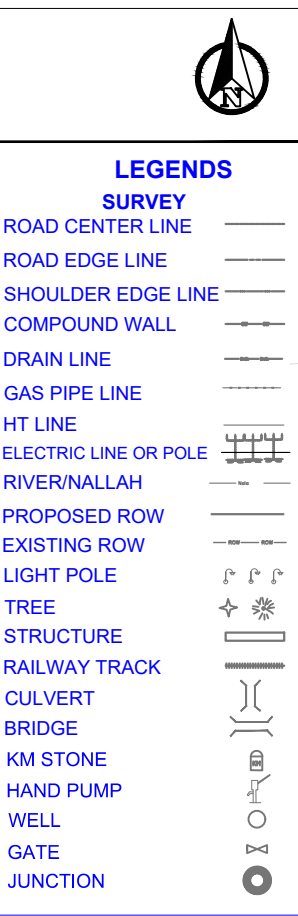
M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers
TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai - 400 705, India. Ph: +91 22 69063300

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JOB NO.: 1037		SCALE:	
	REV. NO.	DATE OF ISSUE	
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	DES.	APRD.	

CLIENT:

National Highways and Infrastructure Development Corporation Limited

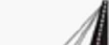
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HUNLI-ITHUN BRIDGE STRETCH
TITLE: PLAN & PROFILE
CH : 5000.000TO6000.000
DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS
REV. R1
A2
NO



The image displays three logos side-by-side. On the left is the logo for TPF Engineering Pvt. Ltd., featuring a stylized blue and white graphic above the text 'tpf' and 'ENGINEERING PVT. LTD.'. In the center is the logo for Shyamkrishna Engineering Pvt. Ltd., which includes a circular emblem with a star and the text 'SHYAMKRISHNA' and 'ESTD 1971'. On the right is the logo for Zoma Engineers, featuring a large green stylized 'E' above the text 'ZOMA ENGINEERS'.

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JOB NO.: 1037		SCALE:	REV. NO.	DATE OF ISSUE	REVISION DETAILS	DRAWN	CHKD.	DES.	APRD.		

CLIENT:

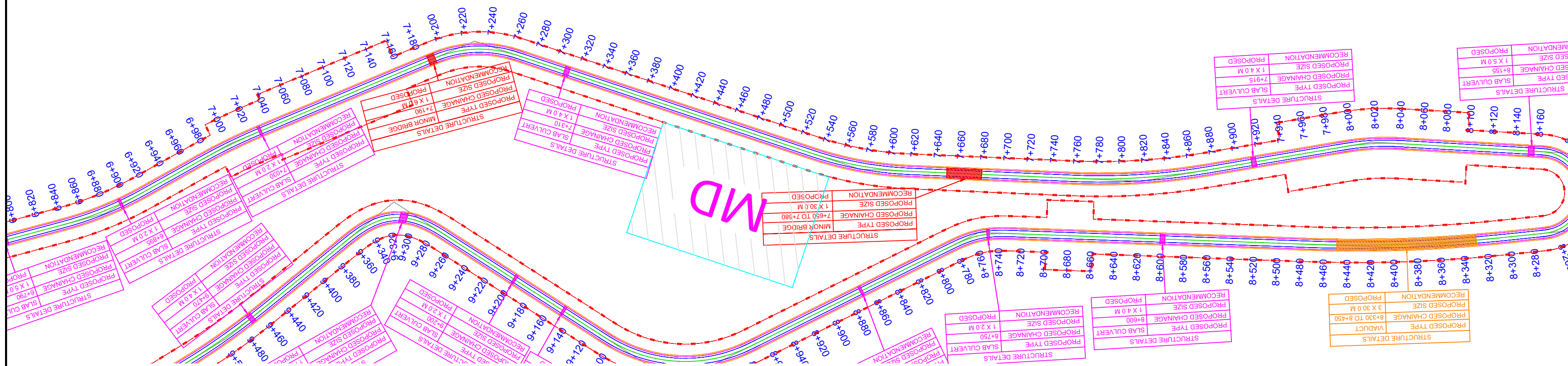


**National Highways and
Infrastructure Development
Corporation Limited**

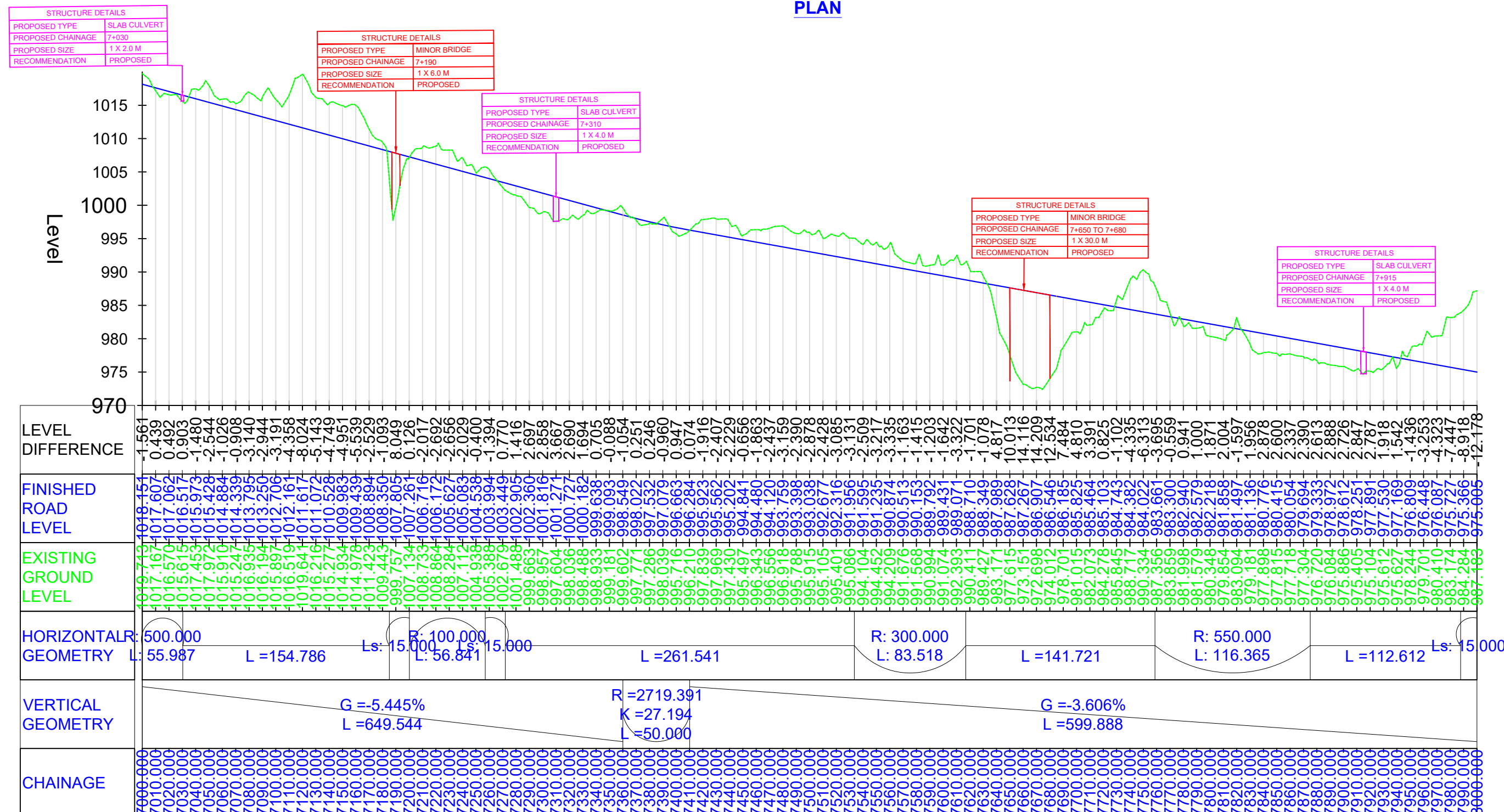
PROJECT:			
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HUNLI-ITHUN BRIDGE STRETCH			
TITLE: PLAN & PROFILE CH : 6000.000TO7000.000			
DRG. NO.:	TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijayanagar-Pkg-6-Arunachal-Pradesh/TRANS-DES-PLA-EST-2020-21/P3291/1037/PPD/1037001/R1/ - 7 OF 18	REV. R1	A2 NO

HUNLI

ITHUN BRIDGE



PLAN



LEVEL DIFFERENCE	56.000 55.987	154.786 L=154.786	15.000 Ls=15.000	261.541 L=261.541	83.518 L=83.518	141.721 L=141.721	550.000 L=116.365	112.612 L=112.612	15.000 Ls=15.000
FINISHED ROAD LEVEL	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000
EXISTING GROUND LEVEL	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000	970.000 970.000
HORIZONTAL GEOMETRY	500.000 L=55.987	154.786 L=154.786	15.000 Ls=15.000	261.541 L=261.541	83.518 L=83.518	141.721 L=141.721	550.000 L=116.365	112.612 L=112.612	15.000 Ls=15.000
VERTICAL GEOMETRY		G=-5.445% L=649.544		R=2719.391 K=27.194 L=50.000		G=-3.606% L=599.888			
CHAINAGE	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000	7+000 7+000

LEGENDS

SURVEY

- ROAD CENTER LINE
- ROAD EDGE LINE
- SHOULDER EDGE LINE
- COMPOUND WALL
- DRAIN LINE
- GAS PIPE LINE
- HT LINE
- ELECTRIC LINE OR POLE
- RIVER/NALLAH
- PROPOSED ROW
- EXISTING ROW
- LIGHT POLE
- TREE
- STRUCTURE
- RAILWAY TRACK
- CULVERT
- BRIDGE
- KM STONE
- HAND PUMP
- WELL
- GATE
- JUNCTION

LEGENDS

PLAN

- CENTER LINE
- CARRIAGEWAY
- HARD SHOULDER
- SOFT SHOULDER
- DRAIN
- RETAINING WALL
- BREAST WALL
- PARAPET WALL
- PROPOSED ROW
- EXISTING ROW
- LAND ACQUISITION AREA
- EXISTING ROAD

PRO. SLAB CULVERT

PRO. VIADUCT

PRO. MAJOR BRIDGE

PROFILE

- PROPOSED RTL
- GROUND LEVEL
- PRO. SLAB CULVERT
- PRO. VIADUCT
- PRO. MAJOR BRIDGE

NOTATIONS

HORIZONTAL GEOMETRY

- Δ - DELTA ANGLE/DEFLECTION ANGLE
- AC - DELTA ANGLE/CIRCULAR SPIRAL
- AS - DELTA ANGLE/CIRCULAR SPIRAL
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- S - SHIFT
- TS - TANGENT DISTANCE
- ES - APEX DISTANCE

VERTICAL GEOMETRY

- G - GRADIENT
- L - LENGTH
- PVI - POINT OF VERTICAL INTERSECTION
- LVC - LENGTH OF VERTICAL CURVE
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CONSULTING ENGINEERS:

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ZOMA ENGINEERS
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DATE	26/10/23	SIGN	
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REV. NO.		DATE OF ISSUE	
REVISION DETAILS		DRAWN	CHKD.
DES.	APRD.		

CLIENT:

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HUNLI-ITHUN BRIDGE STRETCH

TITLE:

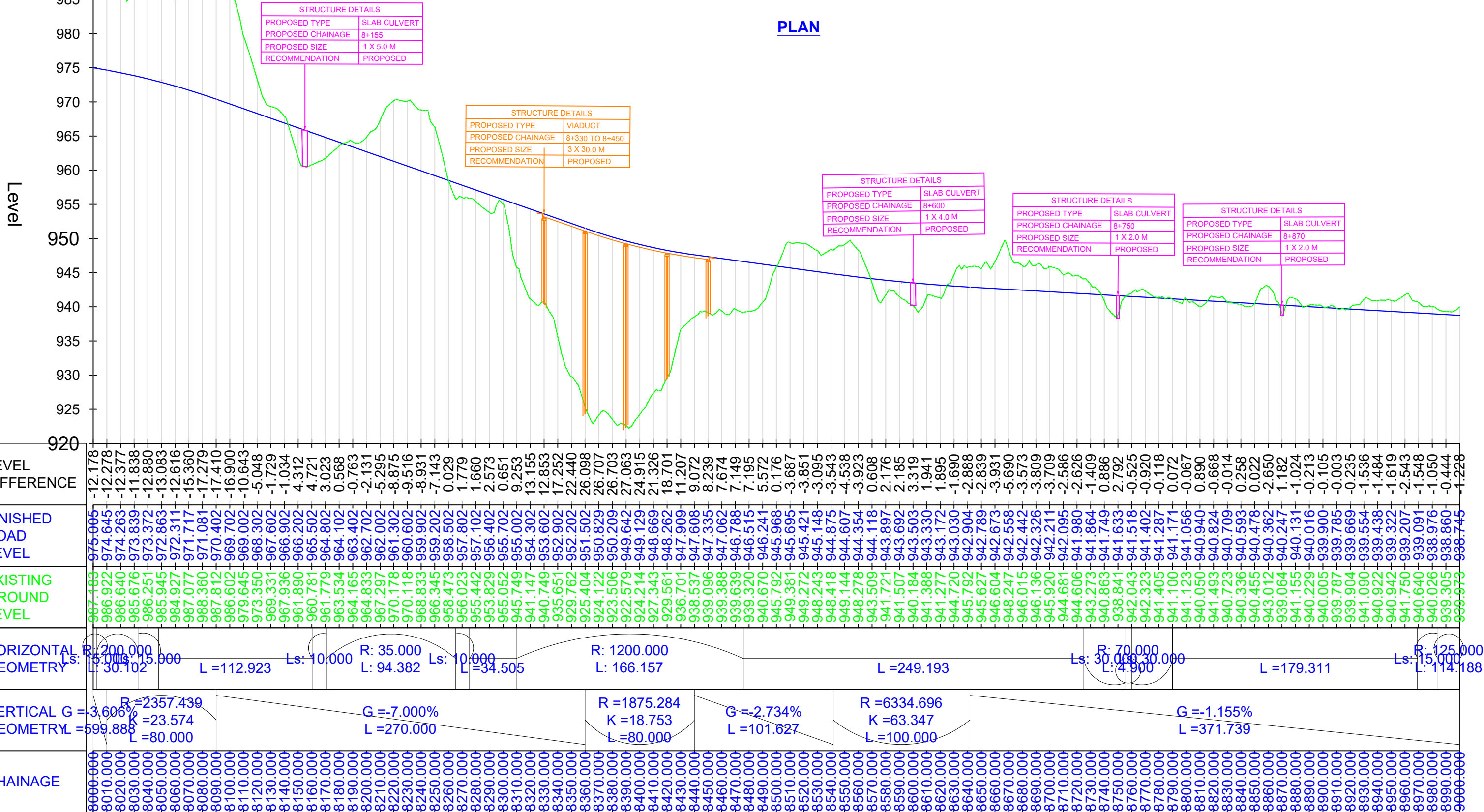
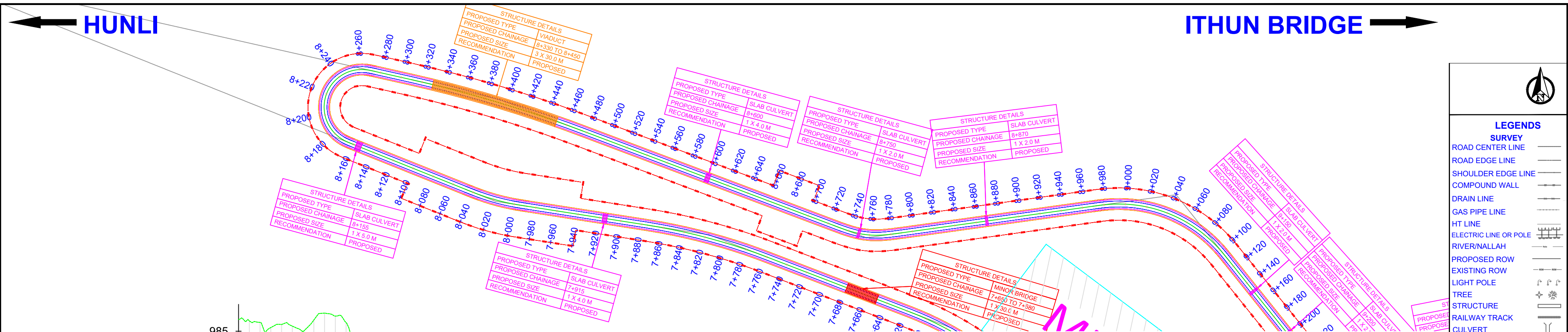
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DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS
-DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/ - 8 OF 18

REV. R1

A2

NO

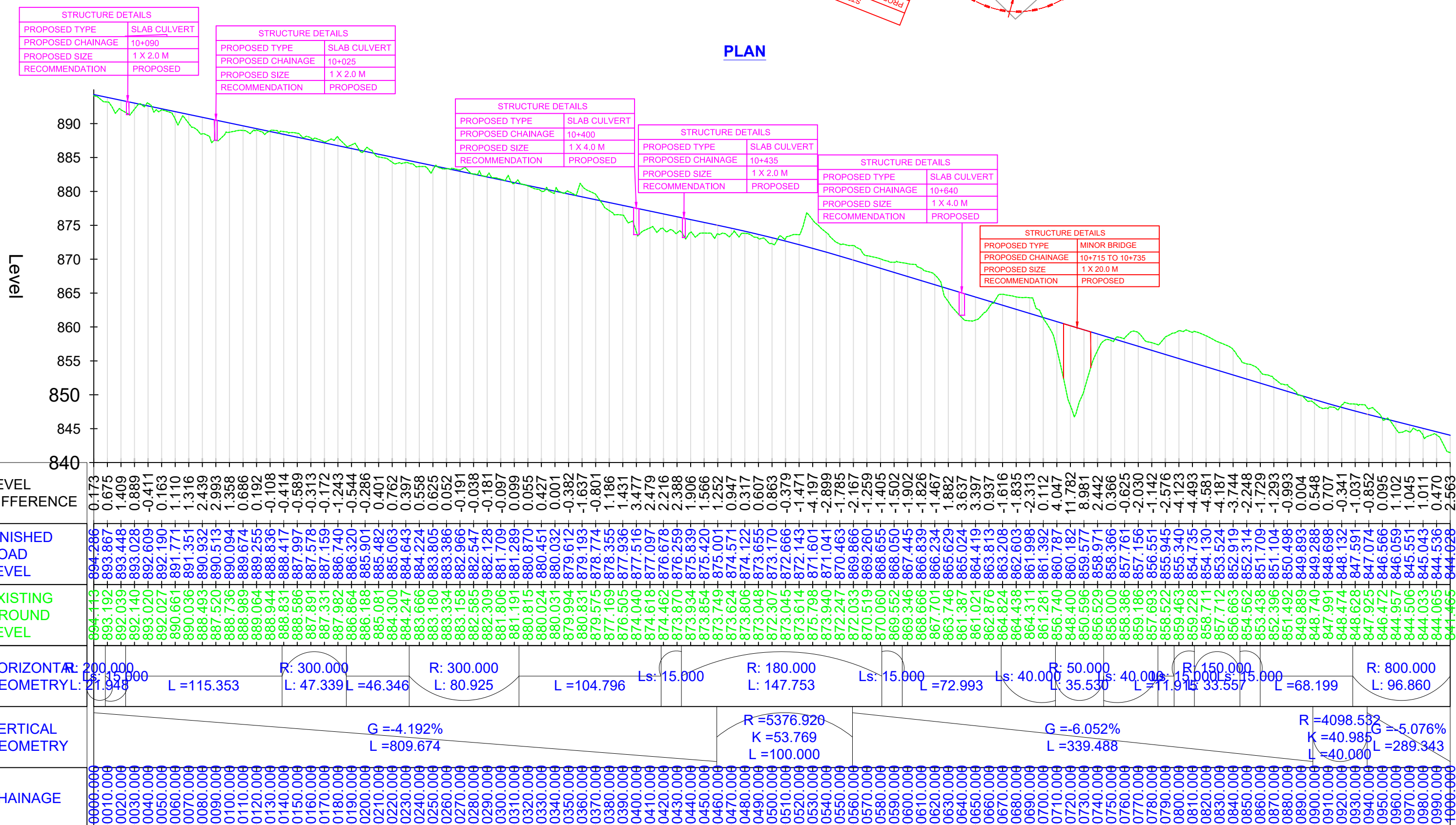
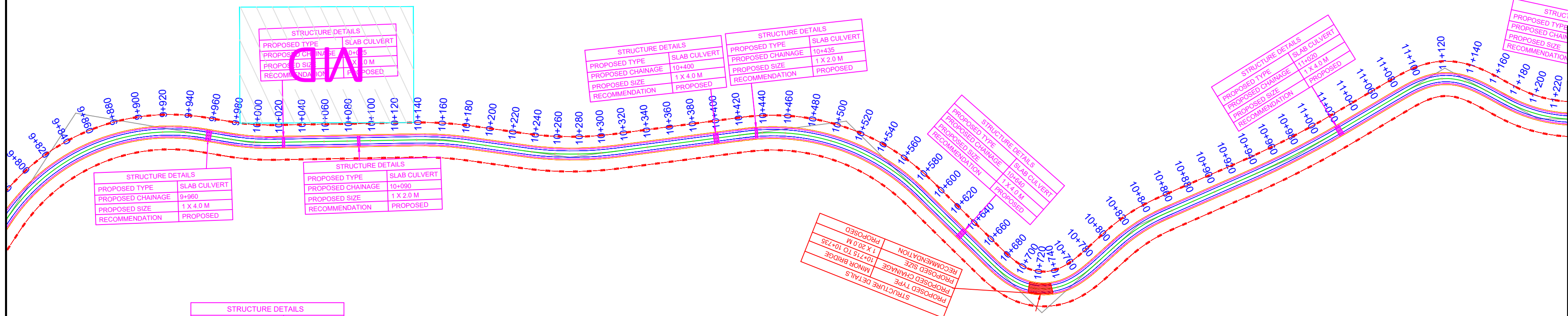


LEGENDS	
SURVEY	
ROAD CENTER LINE	---
ROAD EDGE LINE	---
SHOULDER EDGE LINE	---
COMPOUND WALL	---
DRAIN LINE	---
GAS PIPE LINE	---
HT LINE	---
ELECTRIC LINE OR POLE	---
RIVER/NALLAH	---
PROPOSED ROW	---
EXISTING ROW	---
LIGHT POLE	---
TREE	---
STRUCTURE	---
RAILWAY TRACK	---
CULVERT	---
BRIDGE	---
KM STONE	---
HAND PUMP	---
WELL	---
GATE	---
JUNCTION	---
LEGENDS	
PLAN	
CENTER LINE	---
CARRIAGEWAY	---
HARD SHOULDER	---
SOFT SHOULDER	---
DRAIN	---
RETAINING WALL	---
BREAST WALL	---
PARAPET WALL	---
PROPOSED ROW	---
EXISTING ROW	---
LAND ACQUISITION AREA	---
EXISTING ROAD	---
PRO. SLAB CULVERT	---
PRO. VIADUCT	---
PRO. MAJOR BRIDGE	---
PROFILE	
PROPOSED RTL	---
GROUND LEVEL	---
PRO. SLAB CULVERT	---
PRO. VIADUCT	---
PRO. MAJOR BRIDGE	---
NOTATIONS	
HORIZONTAL GEOMETRY	
Δ	- DELTA ANGLE/DEFLECTION ANGLE
AC	- DELTA ANGLE/CIRCULAR CURVE
AS	- DELTA ANGLE/CIRCULAR SPIRAL
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CONSULTING ENGINEERS:		DATE		SIGN		CLIENT:		PROJECT:	
TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers		26/10/23		PDC		National Highways and Infrastructure Development Corporation Limited		CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-HUNLI 230 KM)	
DRAWN		CHECKED		DESIGN		TITLE: PLAN & PROFILE		DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS	
CHECKED		DESIGN		APPROVED		CH : 8000.000T09000.000		REV. R1	
JOB NO.: 1037		SCALE:		REV. NO.		DATE OF ISSUE		NO	
REVISION DETAILS		DRAWN		CHKD.		DES.		APRD.	

← HUNLI

ITHUN BRIDGE



LEGENDS

SURVEY	
ROAD CENTER LINE	—————
ROAD EDGE LINE	—————
SHOULDER EDGE LINE	—————
COMPOUND WALL	——— ———
DRAIN LINE	——— ———
GAS PIPE LINE	——— ———
HT LINE	——— ———
ELECTRIC LINE OR POLE	——— ———
RIVER/NALLAH	~~~~~
PROPOSED ROW	——— ———
EXISTING ROW	——— ———
LIGHT POLE	⊕ ⊕ ⊕
TREE	⊕ ⊕ ⊕
STRUCTURE	——— ———
RAILWAY TRACK	——— ———
CULVERT	——— ———
BRIDGE	——— ———
KM STONE	⊕ ⊕ ⊕
HAND PUMP	⊕ ⊕ ⊕
WELL	⊕ ⊕ ⊕
GATE	⊕ ⊕ ⊕
JUNCTION	⊕ ⊕ ⊕

LEGENDS

PLAN

- CENTER LINE
- CARRIAGEWAY
- HARD SHOULDER
- SOFT SHOULDER
- DRAIN
- RETAINING WALL
- BREAST WALL
- PARAPET WALL
- PROPOSED ROW —PROW—
- EXISTING ROW
- LAND ACQUISITION AREA
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PROFILE

- PROPOSED RTL
- GROUND LEVEL
- PRO. SLAB CULVERT
- PRO. VIDUCT
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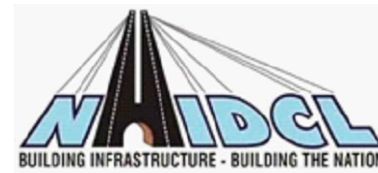
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CLIENT:



**National Highways and
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Corporation Limited**

PROJECT:	
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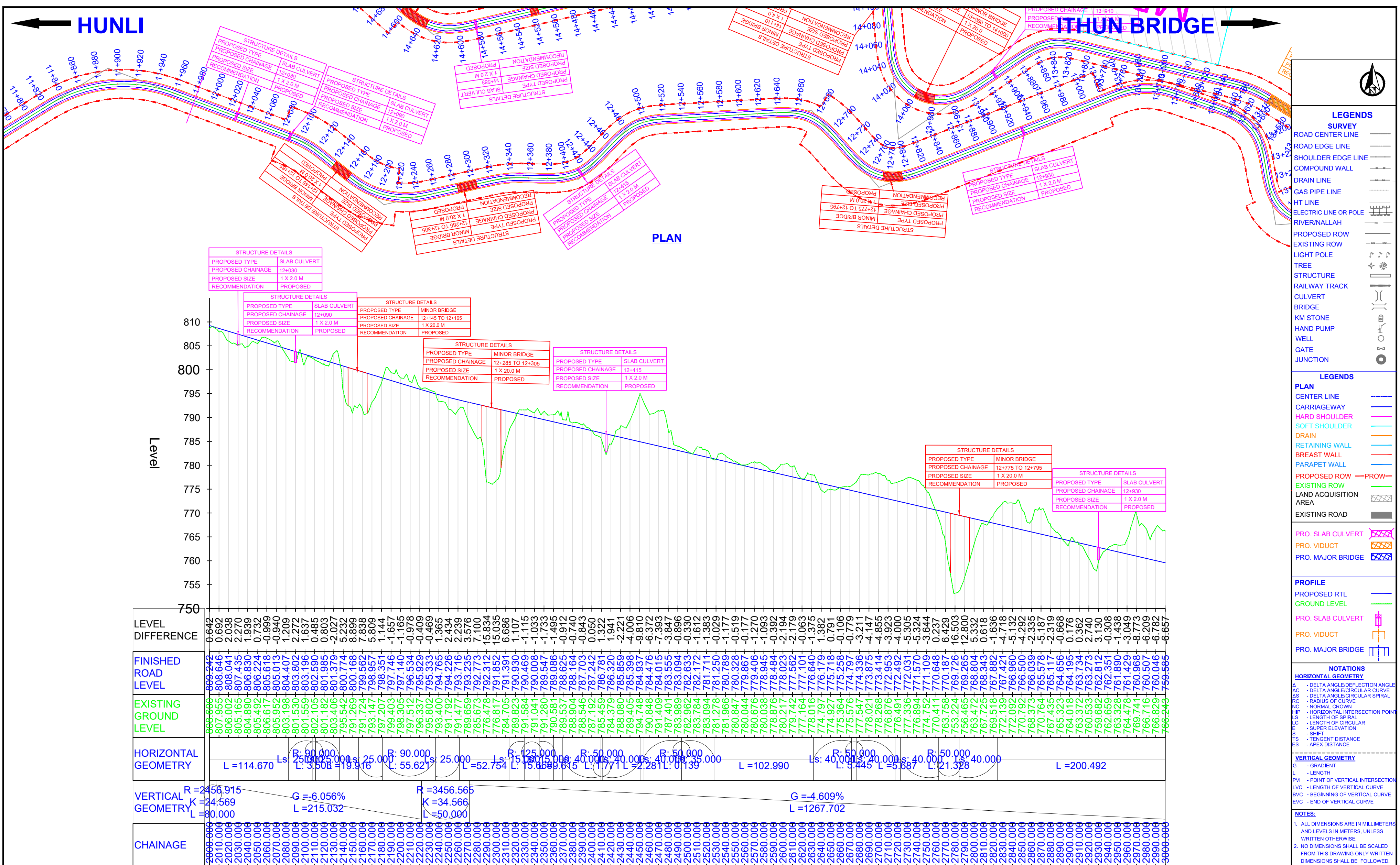
**CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE
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HUNLI 230 KM)**

PLAN & PROFILE

TITLE: CH : 10000.000TO11000.000

DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS-DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/- 11 OF 18

REV.	A2	NO
R1		



CONSULTING ENGINEERS:

TPF Engineering Pvt. Ltd.
ENGINEERING PVT. LTD.

SHAMKRI'S
ESTD 1997

CAB-05

ZOMA ENGINEERS

M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers

TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai - 400 705, India. Ph: +91 22 69063300

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DRAWN		
CHKD.		
DES.		
APRD.		

CLIENT:

NHIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

National Highways and Infrastructure Development Corporation Limited

PROJECT:

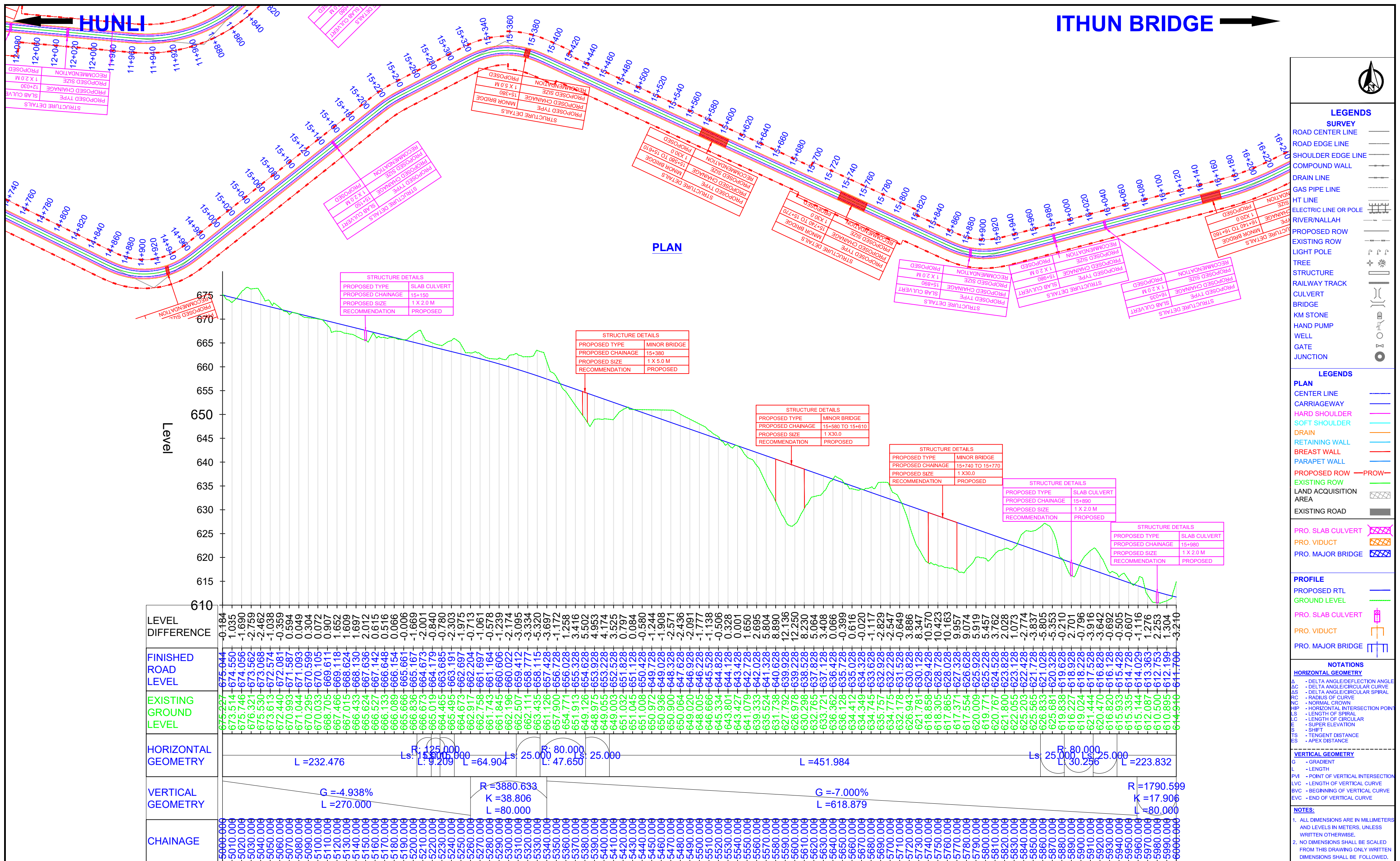
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HUNLI-ITHUN BRIDGE STRETCH

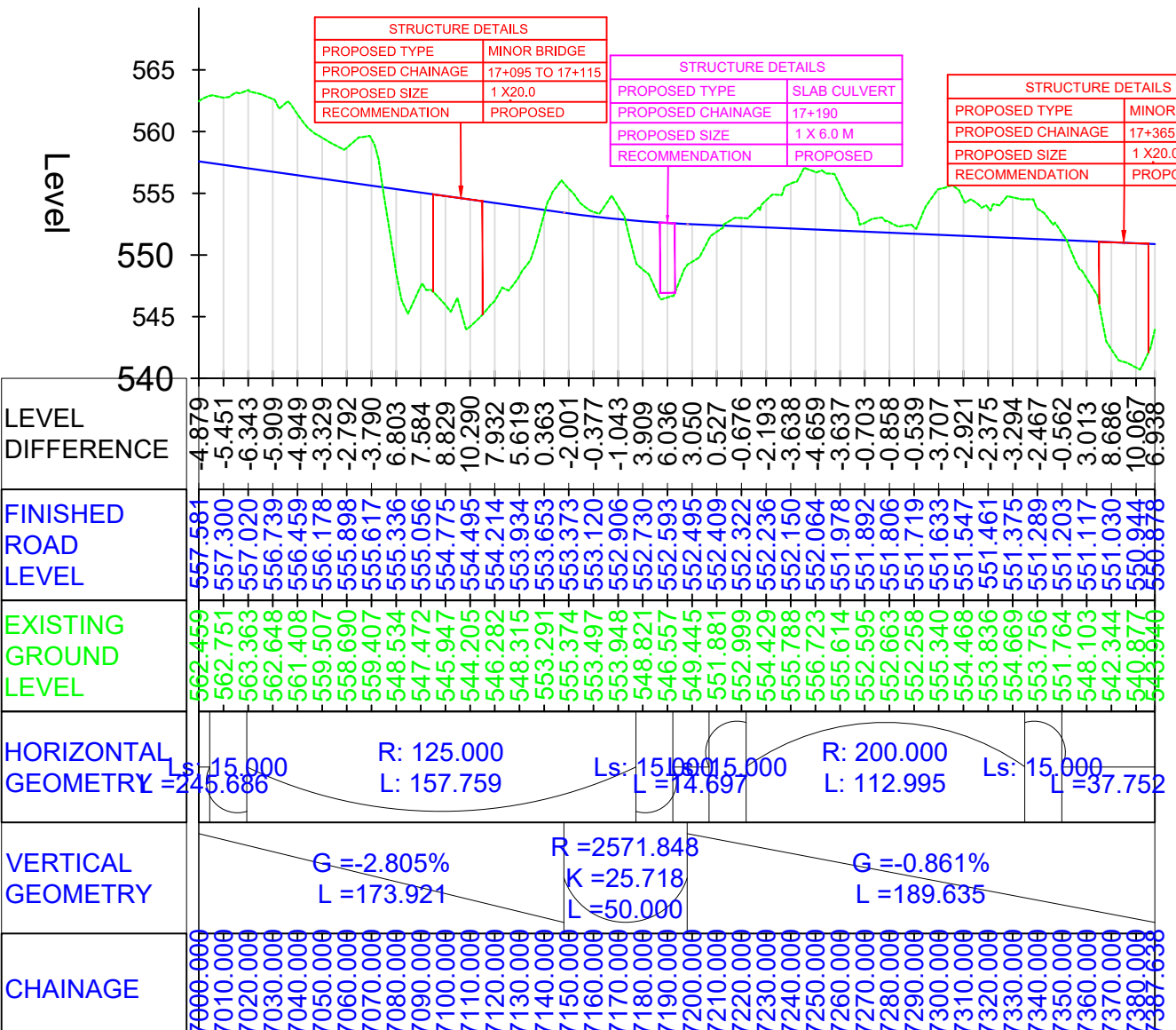
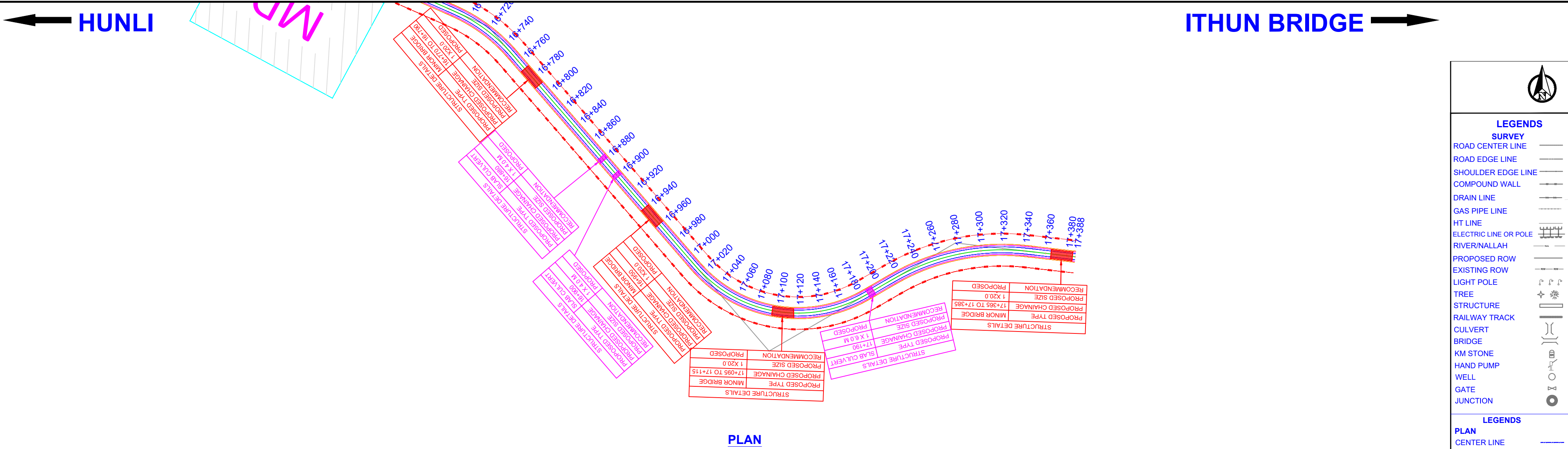
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-DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/- 13 OF 18

REV. R1 **A2** **NO**



CONSULTING ENGINEERS:		DATE		SIGN		CLIENT:		PROJECT:	
		26/10/23						CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-HUNLI 230 KM)	
M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers		DRAWN		PDC		NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED		HUNLI-ITHUN BRIDGE STRETCH	
CHECKED		NVL		DESIGN		TITLE:		PLAN & PROFILE	
DESIGN		SDS		CHECKED		CH : 15000.000 TO 16000.000		DRG. NO.:	
CHECKED		ADT		APPROVED		TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS		REV. R1	
APPROVED		DBJ		JOB NO.: 1037		DES-PLA-EST/2020-21/P3291/1037/PPD/1037001/R1/ - 16 OF 18		A2	
SCALE:		REV. NO.		DATE OF ISSUE		REVISION DETAILS		DRAWN	
SCALE:		REV. NO.		DATE OF ISSUE		DRAWN		CHKD.	
SCALE:		REV. NO.		DATE OF ISSUE		DRAWN		DES.	
SCALE:		REV. NO.		DATE OF ISSUE		DRAWN		APRD.	



LEGENDS	
SURVEY	
ROAD CENTER LINE	---
ROAD EDGE LINE	---
SHOULDER EDGE LINE	---
COMPOUND WALL	---
DRAIN LINE	---
GAS PIPE LINE	---
HT LINE	---
ELECTRIC LINE OR POLE	---
RIVER/NALLAH	---
PROPOSED ROW	---
EXISTING ROW	---
LIGHT POLE	---
TREE	---
STRUCTURE	
RAILWAY TRACK	---
CULVERT	---
BRIDGE	---
KM STONE	---
HAND PUMP	---
WELL	---
GATE	---
JUNCTION	---
LEGENDS	
PLAN	
CENTER LINE	---
CARRIAGEWAY	---
HARD SHOULDER	---
SOFT SHOULDER	---
DRAIN	---
RETAINING WALL	---
BREAST WALL	---
PARAPET WALL	---
PROPOSED ROW	---
EXISTING ROW	---
LAND ACQUISITION AREA	---
EXISTING ROAD	---
PRO. SLAB CULVERT	---
PRO. VIADUCT	---
PRO. MAJOR BRIDGE	---
PROFILE	
PROPOSED RTL	---
GROUND LEVEL	---
PRO. SLAB CULVERT	---
PRO. VIADUCT	---
PRO. MAJOR BRIDGE	---
NOTATIONS	
HORIZONTAL GEOMETRY	
Δ	- DELTA ANGLE/DEFLECTION ANGLE
ΔC	- DELTA ANGLE/CIRCULAR CURVE
ΔS	- DELTA ANGLE/CIRCULAR SPIRAL
RC	- RADIUS OF CURVE
NC	- NORMAL CROWN
HIP	- HORIZONTAL INTERSECTION POINT
LS	- LENGTH OF SPIRAL
LC	- LENGTH OF CIRCULAR
E	- SUPER ELEVATION
S	- SHIFT
TS	- TANGENT DISTANCE
ES	- APEX DISTANCE
VERTICAL GEOMETRY	
G	- GRADIENT
L	- LENGTH
PVI	- POINT OF VERTICAL INTERSECTION
LVC	- LENGTH OF VERTICAL CURVE
BVC	- BEGINNING OF VERTICAL CURVE
EVC	- END OF VERTICAL CURVE
NOTES:	
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS, UNLESS WRITTEN OTHERWISE.	
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.	

CONSULTING ENGINEERS:  TPF ENGINEERING PVT. LTD.  SIAMKRISHI SINCE 1997  CAS-05  ZOMA ENGINEERS M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai – 400 705, India. Ph: +91 22 69063300		DATE	26/10/23	SIGN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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JUNCTION DRAWINGS

HUNLI JUNCTION

ITHUN BRIDGE

STRUCTURE DETAILS	
PROPOSED TYPE	SLAB CULVERT
PROPOSED CHAINAGE	0+50
PROPOSED SIZE	1 X 5.0 M
RECOMMENDATION	PROPOSED

LEGENDS

SURVEY

ROAD CENTER LINE	
ROAD EDGE LINE	
SHOULDER EDGE LINE	
COMPOUND WALL	
DRAIN LINE	
GAS PIPE LINE	
HT LINE	
ELECTRIC LINE OR POLE	
RIVER/NALLAH	
PROPOSED ROW	
EXISTING ROW	
LIGHT POLE	
TREE	
STRUCTURE	
RAILWAY TRACK	
CULVERT	
BRIDGE	
KM STONE	
HAND PUMP	
WELL	
GATE	
JUNCTION	

LEGENDS

PLAN

CENTER LINE
CARRIAGEWAY
HARD SHOULDER
SOFT SHOULDER
DRAIN
RETAINING WALL
BREAST WALL
PARAPET WALL
PROPOSED ROW —PROW—
EXISTING ROW
LAND ACQUISITION AREA
EXISTING ROAD

PRO. SLAB CULVERT	
PRO. VIDUCT	
PRO. MAJOR BRIDGE	

PROFILE



PROPOSED RTL
GROUND LEVEL
PRO. SLAB CULVERT
PRO. VIDUCT
PRO. MAJOR BRIDGE

NOTES:

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CONSULTING ENGINEERS



**M/s TPF Engineering Pvt. Ltd. In association with
M/s Zoma Engineers**

TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Parvel Highway, Vashi, Navi Mumbai – 400 705, India. Ph: +91 22 69063300

DATE	26/10/23	SIGN
DRAWN	PDC	
CHECKED	NVL	
DESIGN	SDS	
CHECKED	ADT	
APPROVED	DBJ	

JOB NO.: 1037

SCALE

REV.
NO

DATE OF ISSUE

REVISION DETAILS

DRAWN

CHK

D

AF

Infr

CLIENT:



**National Highways and
Infrastructure Development
Corporation Limited**

PROJECT

**CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE
FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL
PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-
HUNLI 230 KM)**

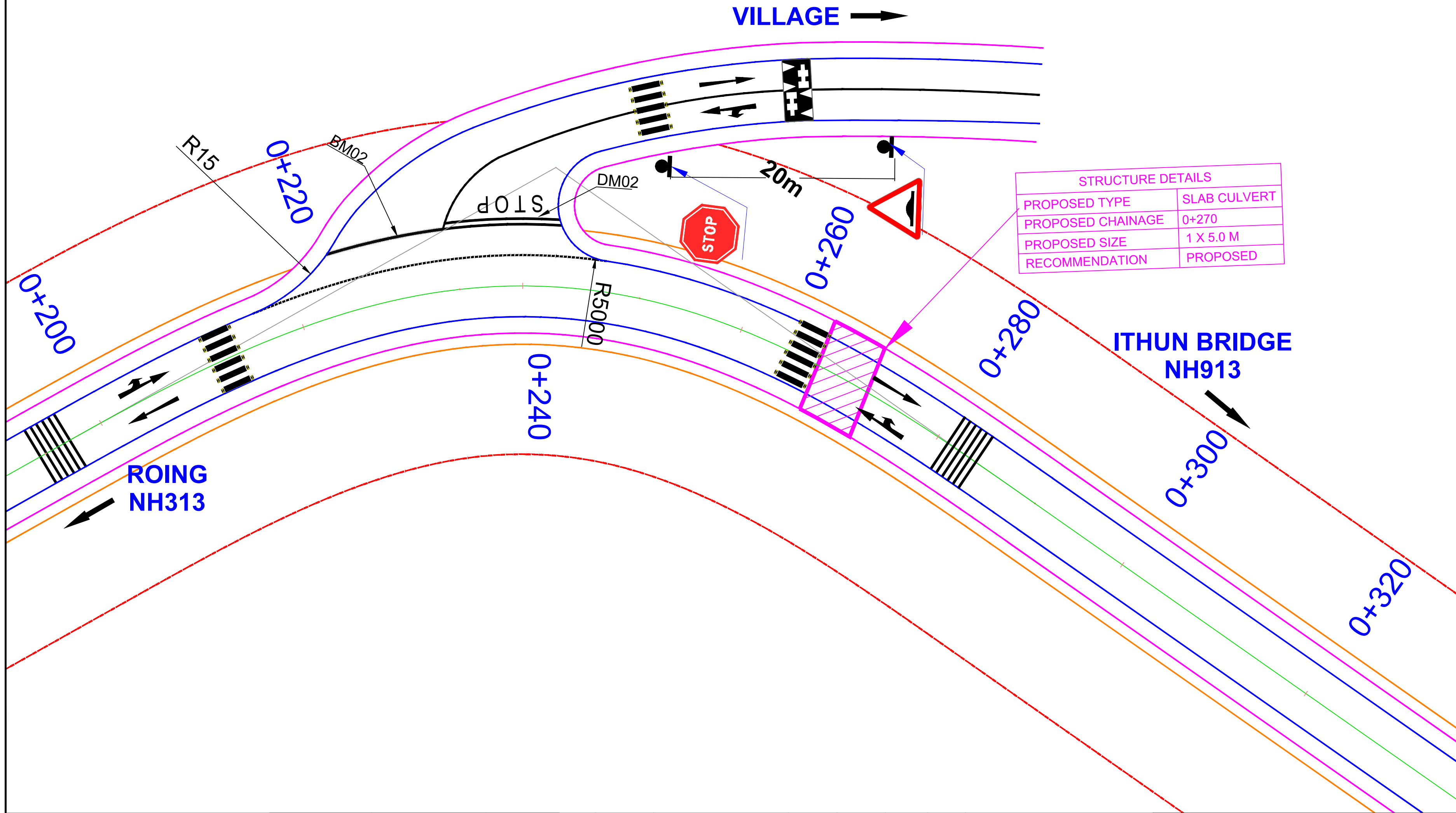
TITLE:	HUNLI JUNCTION CH : 00.000TO1000.000
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DRG. NO.:TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS
-DES-PLA-EST/2020-21/P3291/1037/JUNCTIONS/1037001/R1/ -01 OF 04

REV.

2	NO
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MINOR JUNCTION - I

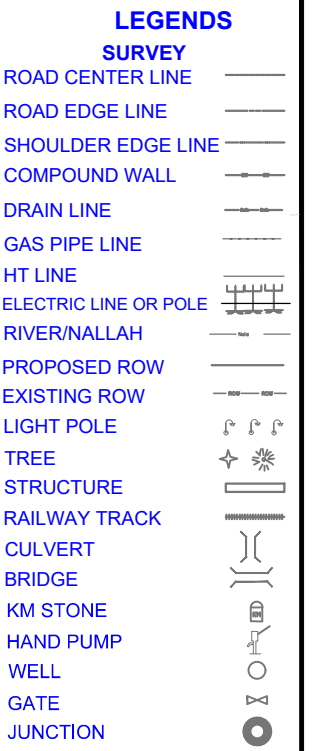


STRUCTURE DETAILS	
PROPOSED TYPE	SLAB CULVERT
PROPOSED CHAINAGE	0+270
PROPOSED SIZE	1 X 5.0 M
RECOMMENDATION	PROPOSED

LEGENDS	
SURVEY	
ROAD CENTER LINE	---
ROAD EDGE LINE	---
SHOULDER EDGE LINE	---
COMPOUND WALL	---
DRAIN LINE	---
GAS PIPE LINE	---
HT LINE	---
ELECTRIC LINE OR POLE	---
RIVER/NALLAH	---
PROPOSED ROW	---
EXISTING ROW	---
LIGHT POLE	---
TREE	---
STRUCTURE	---
RAILWAY TRACK	---
CULVERT	---
BRIDGE	---
KM STONE	---
HAND PUMP	---
WELL	---
GATE	---
JUNCTION	---
LEGENDS	
PLAN	
CENTER LINE	---
CARRIAGEWAY	---
HARD SHOULDER	---
SOFT SHOULDER	---
DRAIN	---
RETAINING WALL	---
BREAST WALL	---
PARAPET WALL	---
PROPOSED ROW	---
EXISTING ROW	---
LAND ACQUISITION AREA	---
EXISTING ROAD	---
PRO. SLAB CULVERT	---
PRO. VIDUCT	---
PRO. MAJOR BRIDGE	---
PROFILE	
PROPOSED RTL	---
GROUND LEVEL	---
PRO. SLAB CULVERT	---
PRO. VIDUCT	---
PRO. MAJOR BRIDGE	---

NOTES:
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CONSULTING ENGINEERS: TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai - 400 705, India. Ph: +91 22 69063300		DATE 26/10/23 DRAWN PDC CHECKED NVL DESIGN SDS CHECKED ADT APPROVED DBJ JOB NO.: 1037		SIGN SCALE: 	REV. NO. 	DATE OF ISSUE 	REVISION DETAILS	DRAWN	CHKD.	DES.	APRD.	CLIENT: National Highways and Infrastructure Development Corporation Limited	PROJECT: CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-HUNLI 230 KM) HUNLI-ITHUN BRIDGE STRETCH TITLE: MINOR JUNCTION - I CH : 00.0000TO1000.000 DRG. NO.: TPFEPL/NHIDCL-24/DPR-Nafra-to-Vijaynagar-Pkg-6-Arunachal-Pradesh/TRANS-DES-PLA-EST/2020-21/P3291/1037/JUNCTIONS/1037001/R1/- 02 OF 04	REV. R1	A2	NO
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LEGENDS

PLAN	
CENTER LINE	
CARRIAGEWAY	
HARD SHOULDER	
SOFT SHOULDER	
DRAIN	
RETAINING WALL	
BREAST WALL	
PARAPET WALL	
PROPOSED ROW	
EXISTING ROW	
LAND ACQUISITION AREA	
EXISTING ROAD	

PROFILE

PROPOSED RTL 

GROUND LEVEL 

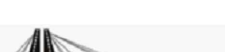
PRO. SLAB CULVERT 

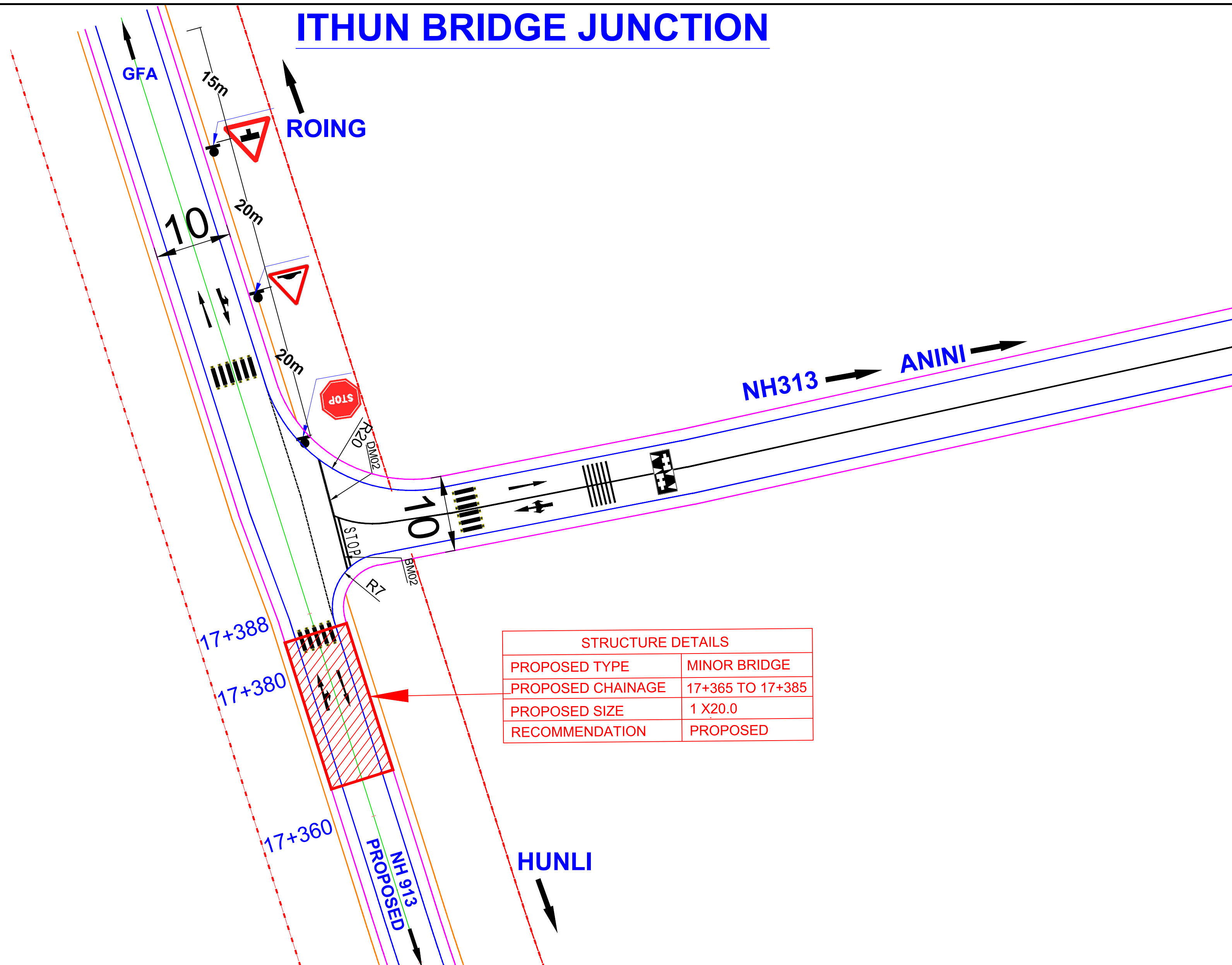
PRO. VIDUCT 

PRO. MAJOR BRIDGE 

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LEGENDS

SURVEY	
ROAD CENTER LINE	
ROAD EDGE LINE	
SHOULDER EDGE LINE	
COMPOUND WALL	
DRAIN LINE	
Gas PIPE LINE	
HT LINE	
ELECTRIC LINE OR POLE	
RIVER/NALLAH	
PROPOSED ROW	
EXISTING ROW	
LIGHT POLE	
TREE	
STRUCTURE	
RAILWAY TRACK	
CULVERT	
BRIDGE	
KM STONE	
HAND PUMP	
WELL	
GATE	
JUNCTION	

LEGENDS

PLAN	
CENTER LINE	
CARRIAGEWAY	
HARD SHOULDER	
SOFT SHOULDER	
DRAIN	
RETAINING WALL	
BREAST WALL	
PARAPET WALL	
PROPOSED ROW	
EXISTING ROW	
LAND ACQUISITION AREA	
EXISTING ROAD	

PRO. SLAB CULVERT 

PRO. VIDUCT 

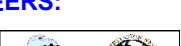
PRO. MAJOR BRIDGE 

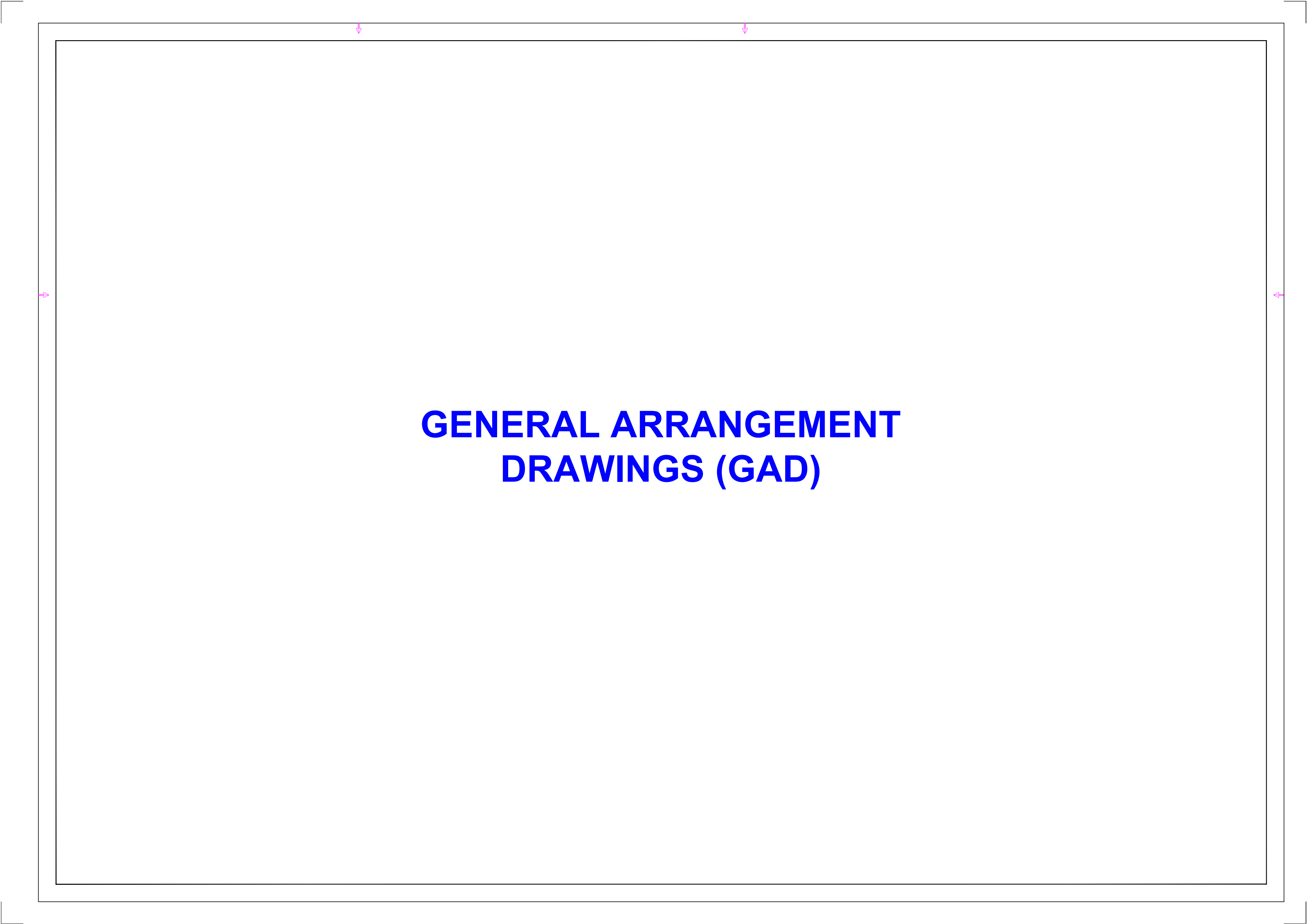
PROFILE	
PROPOSED RTL	
GROUND LEVEL	
PRO. SLAB CULVERT	
PRO. VIDUCT	
PRO. MAJOR BRIDGE	

NOTES:

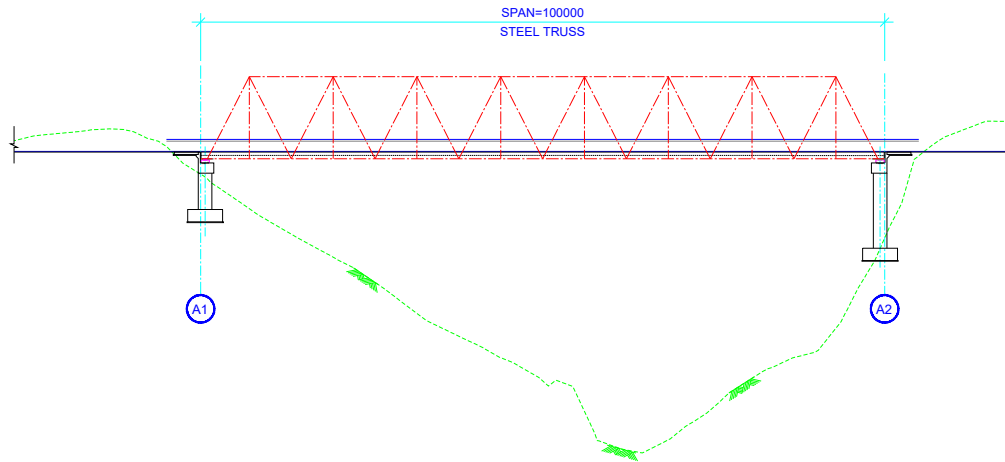
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STRUCTURE DETAILS	
PROPOSED TYPE	MINOR BRIDGE
PROPOSED CHAINAGE	17+365 TO 17+385
PROPOSED SIZE	1 X20.0
RECOMMENDATION	PROPOSED

CONSULTING ENGINEERS:  TPF ENGINEERING PVT. LTD.  SHAMKRISHNA ENGINEERING PVT. LTD.  ZOMA ENGINEERS M/s TPF Engineering Pvt. Ltd. In association with M/s Zoma Engineers TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot No. 12, Sector 18, Opp. Sanpada Railway Station, Sion-Panvel Highway, Vashi, Navi Mumbai – 400 705, India. Ph: +91 22 69063300.										DATE 26/10/23 SIGN <
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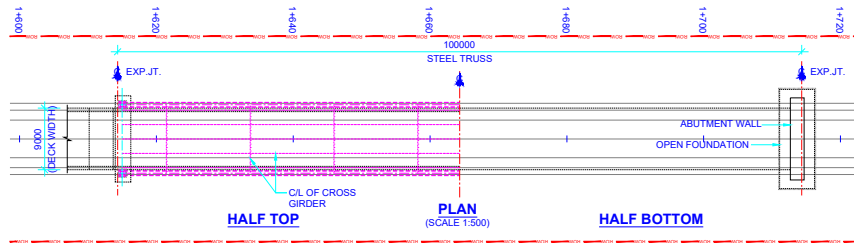
GENERAL ARRANGEMENT DRAWINGS (GAD)



DATUM=1170

LEVEL DIFFERENCE	-1.846	5.887	12.173	18.021	24.997	30.021	35.124	43.497	37.115	30.744	22.134	0.676	-4.271
FINISHED ROAD LEVEL	1218.419	1218.526	1218.632	1218.738	1218.845	1218.951	1219.057	1219.164	1219.270	1219.377	1219.483	1219.589	1219.696
EXISTING GROUND LEVEL	1220.265	1212.638	1205.459	1200.716	1193.848	1188.930	1183.934	1175.657	1182.156	1188.633	1197.349	1219.914	1223.966
CHAINAGE	1610.000	1620.000	1630.000	1640.000	1650.000	1660.000	1670.000	1680.000	1690.000	1700.000	1710.000	1720.000	1730.000

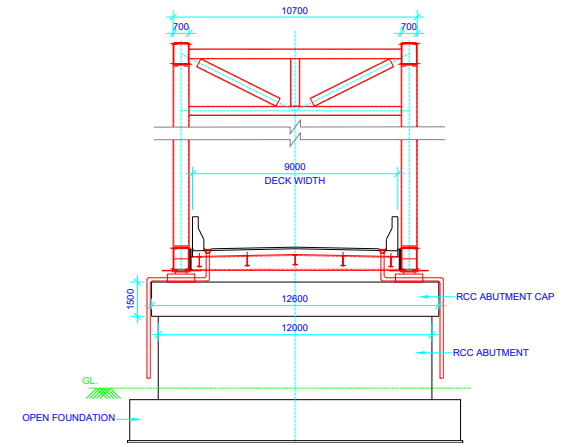
SECTIONAL ELEVATION A-A
(SCALE 1:500)



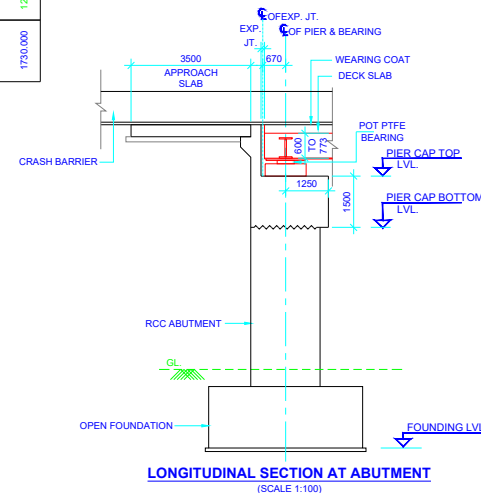
HALF TOP

PLAN
(SCALE 1:500)

HALF BOTTOM



TRANSVERSE SECTION AT ABUTMENT
(SCALE 1:150)



LONGITUDINAL SECTION AT ABUTMENT
(SCALE 1:100)

FOR ESTIMATION PURPOSE ONLY

NOTES:

- ALL DIMENSIONS ARE IN MM AND LEVELS IN METRES UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED NO DIMENSION ARE TO BE SCALED.
- PROPOSED BRIDGE IS DESIGNED FOR THE FOLLOWING COMBINATION OF LIVE LOAD CONFORMING TO IRC 6:2017, CLASS 70R, CLASS 'A' LOADING. SPECIAL VEHICLE WHICHEVER GOVERNS
- THE LOAD DUE TO SERVICE LINES ARE CONSIDERED 0.1TM ON BOTH SIDE.
- GRADE OF CONCRETE SHALL BE AS FOLLOWS :
 - FOR LEVELING COURSE : M10
 - FOR SUPERSTRUCTURE (GIRDER & DECK SLAB) : M40
 - FOR SUB-STRUCTURE (PIER & PIER CAP) : M40
 - FOR FOUNDATION
- OPEN FOUNDATION : M35
- CRASH BARRIER : M40
- APPROACH SLAB: M30
- GRADE OF CRS STEEL SHALL BE FE-500D (HYSD) AS PER IS:1786 WITH LATEST AMENDMENTS
- WEARING COAT OF BITUMINOUS CONCRETE 75MM THK.
- BACK FILL BEHIND RETURN WALL/RE WALL SHOULD CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC: 78 HAVING PROPERTIES $C = 0$, $\phi \geq 30^\circ$, $\gamma_D = 20 \text{ KN/M}^3$.
- STRIP SEAL TYPE EXPANSION JOINT SHALL BE PROVIDED.
- POT-PTFE BEARING SHALL BE ADOPTED
- REFER SEPARATE DRAWING FOR REINFORCEMENT DETAILS & RE WALL
- IF ANY LOOSE PATCHES BELOW FOUNDING LEVEL, THE SOIL SHOULD BE REPLACED BY GRANULAR MATERIAL, WITH THICKNESS NOT EXCEEDING 300MM.
- FRL AS WELL AS CAMBER GIVEN IN THE DRAWING SHALL BE VERIFIED WITH HIGHWAY PLAN & PROFILE DRAWINGS BEFORE EXECUTION.
- EXPOSURE CONDITION MODERATE EXPOSURE.
- SEISMIC ZONE CONSIDERED IS ZONE-V
- THE DIMENSIONS OF VARIOUS MEMBERS, TYPE OF FOUNDATION & FOUNDING LEVEL SHOWN ARE TENTATIVE & MAY GET CHANGED DURING DETAILED DESIGN. HOWEVER OBLIGATORY PROVISIONS GIVEN IN TENDER DOCUMENT SHALL BE MAINTAINED.
- DESIGN CRITERIA:
 - DESIGN SHALL BE ACCORDING TO THE FOLLOWING CODES (LATEST EDITION)
 - IRC: 5:2015 - FOR GENERAL DESIGN FEATURES
 - IRC: 6:2017 - FOR LOADS AND STRESSES
 - IRC: 112:2020
 - IRC: 78:2014- FOR SUBSTRUCTURE AND FOUNDATIONS
 - IRC 83-(PART III)-2018- FOR POT-PTFE BEARINGS
- ALL INDIVIDUAL MEMBER COMPONENTS ARE BUILT-UP WITH WELDED CONSTRUCTION.
- ALL BOLTS SHALL BE OF BEARING TYPE OF PROPERTY CLASS 8.8 / 10.9 CONFORMING TO IS : 1367 PART III - 2002, IS : 3757 & IS : 4000-1992 UNLESS NOTED OTHERWISE.
- GRADE OF STRUCTURAL STEEL E-450

CONSULTING ENGINEERS:



M/s TPF Engineering Pvt. Ltd. In association with
M/s Zoma Engineers

TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot
No. 12, Sector 18, Opp. Sanpada Railway Station,
Sion-Parel Highway, Vashi, Navi Mumbai - 400 705,
India. Ph: +91 22 69083300

DATE

08.12.2023

SIGN

DRAWN

RSP

CHECKED

NVL

DESIGN

GRN

CHECKED

ADT

APPROVED

DBJ

JOB NO.: 1037

SCALE:

REV. NO.

DATE OF ISSUE

REVISION DETAILS

DRAWN

CHKD.

DES.

APRD.



CLIENT:



National Highways and
Infrastructure Development
Corporation Limited

PROJECT:

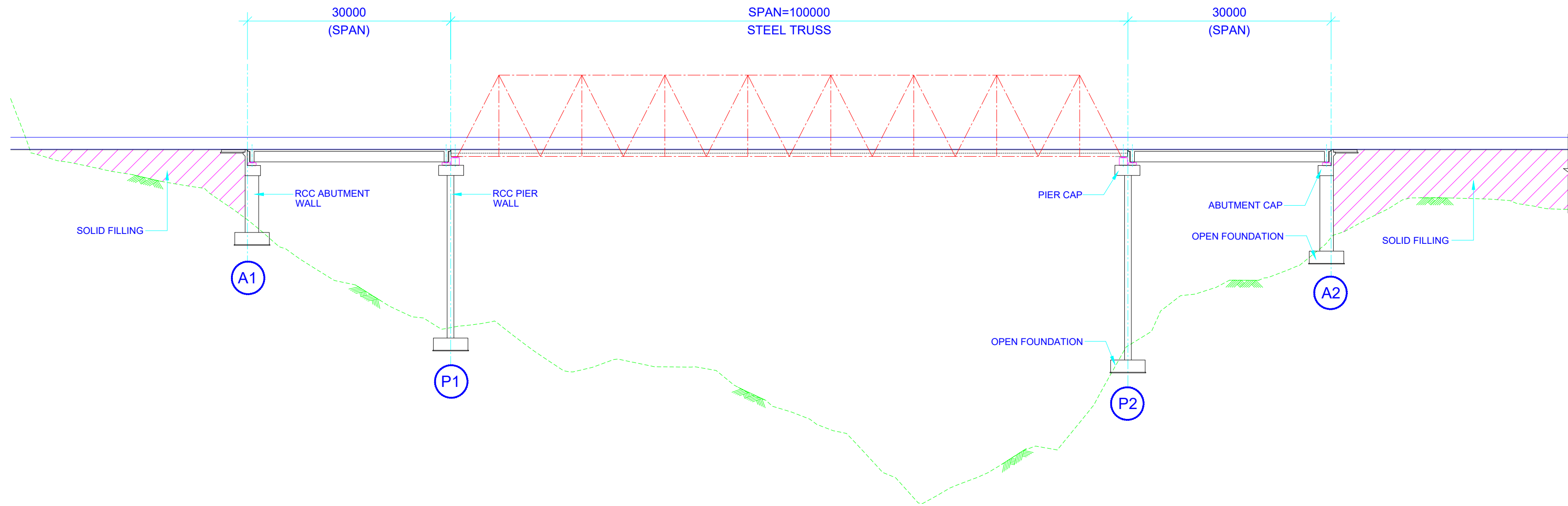
CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE
FRONTIER HIGHWAY FROM NAFRA TO VIJANAGAR IN THE STATE OF ARUNACHAL
PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-
HUNLI 230 KM)

HUNLI-ITHUN BRIDGE STRETCH

TITLE: GENERAL ARRANGEMENT DRAWING OF VIADUCT (STEEL TRUSS)
AT CH. 1+665

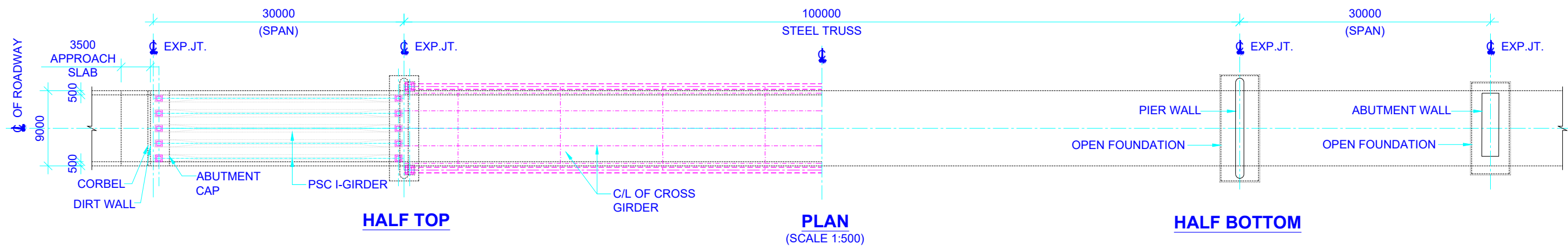
DRG. NO.: TPFELN/HIDCL-24/DPR-NAFRA-TO-VIJAYNAGAR-PKG-6-ARUNACHAL-
PRADESH/TRANS-DES-PLA-EST/2020-21/P3291/1037/SIGNAGES/VIADUCT-001

REV. R0 A2 NO



DATUM=685																			
LEVEL DIFFERENCE	-6.122	3.135	4.700	6.920	14.043	18.913	23.426	23.807	29.281	28.270	28.937	32.829	36.831	43.592	44.427	38.840	31.809	17.504	12.734
FINISHED ROAD LEVEL	740.687	740.226	739.765	739.304	738.843	738.382	737.921	737.460	736.999	736.538	736.077	735.616	735.155	734.694	734.233	733.772	733.311	732.850	732.389
EXISTING GROUND LEVEL	746.808	737.091	735.065	732.384	724.800	719.468	714.495	713.653	707.718	708.268	707.140	702.787	698.325	691.102	689.820	694.984	701.617	715.549	719.969
CHAINAGE	13410.000	13420.000	13430.000	13440.000	13450.000	13460.000	13470.000	13480.000	13490.000	13500.000	13510.000	13520.000	13530.000	13540.000	13550.000	13560.000	13570.000	13580.000	13590.000

SECTIONAL ELEVATION
(SCALE 1:500)



HALF TOP

PLAN
(SCALE 1:500)

HALF BOTTOM

CONSULTING ENGINEERS:



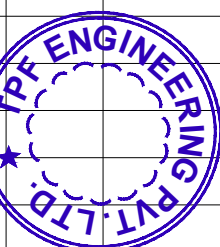
M/s TPF Engineering Pvt. Ltd. In association with
M/s Zoma Engineers

TPF Engineering Pvt. Ltd., 1401, Rupa Sapphire, Plot
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India. Ph: +91 22 69063300

DATE	13.12.2023	SIGN
DRAWN	RSP	
CHECKED	NVL	
DESIGN	GRN	
CHECKED	ADT	
APPROVED	DBJ	

JOB NO.: 1037

SCALE:



REV. NO.

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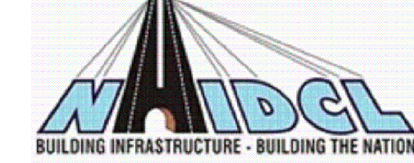
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CONSULTANCY SERVICES FOR PREPERING OF DPR OF 2 LANING OF PROPOSE
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PRADESH IN PACKAGES (PACKAGE06-MIGGING-TUTING-ZIDO AND SINGA ANELIH-
HUNLI 230 KM) **HUNLI-ITHUN BRIDGE STRETCH**

TITLE: GENERAL ARRANGEMENT DRAWING OF VIADUCT (STEEL TRUSS)
AT CH. 13+525

DRG. NO.: TPFELNHNIDCL-24/DPR-NAFRA-TO-VIJAYNAGAR-PKG-6-ARUNACHAL-PRADESH/
TRANS-DES-PLA-EST/2020-21/P3291/1037/SIGNAGES/VIADUCT-002 (SHEET 1 OF 2)

REV. R0 A2 NO

