

Appendix-9-2: Out Line Design of Water Transmission System

The Project on Rehabilitation and Recovery from Nepal
Earthquake in the Federal Democratic Republic of NEPAL

The Subproject for Rehabilitation of
Water Transmission System in Chautara

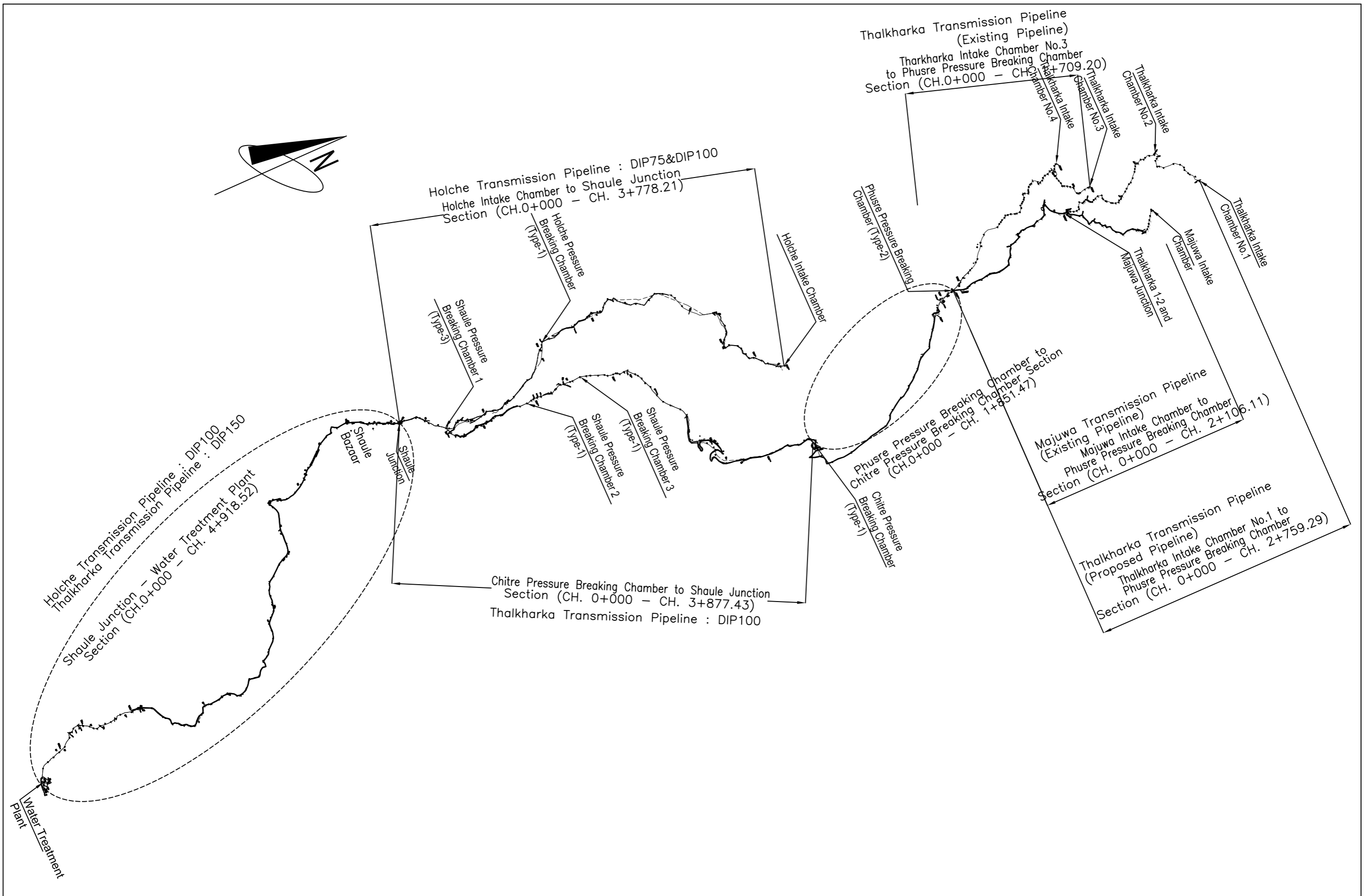
DRAWINGS

December, 2015

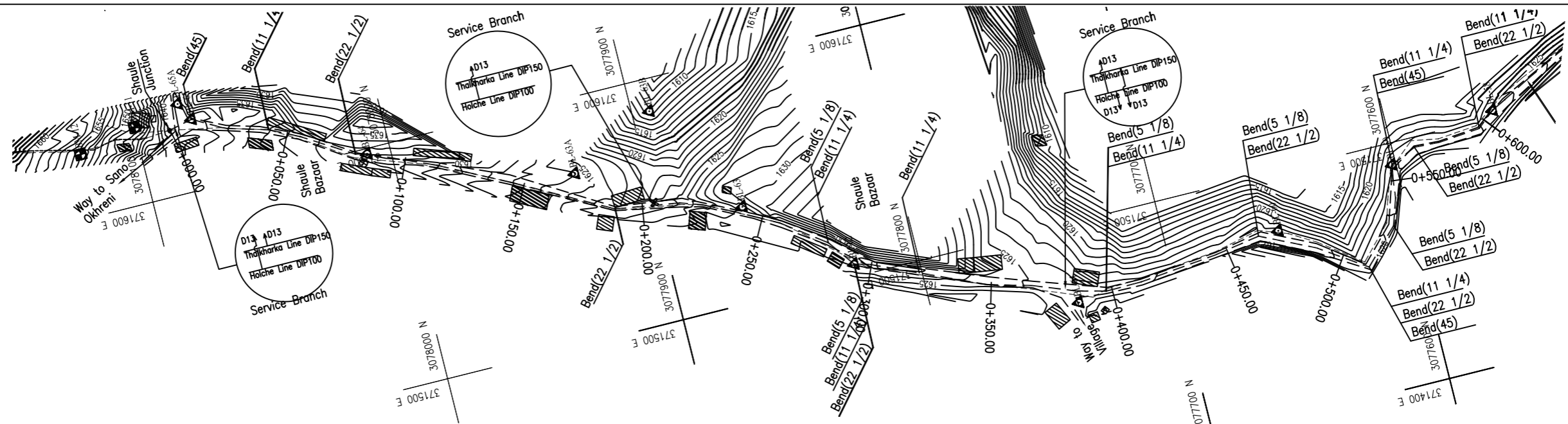
Drawing List

No	Drawing Title	Drawing No	Remarks
0	Transmission Pipeline : Overall Layout	C-0.1	
1	Transmission Pipeline : Shaule - Water Treatment Plant (1/9)	C-1.1	
2	Transmission Pipeline : Shaule - Water Treatment Plant (2/9)	C-1.2	
3	Transmission Pipeline : Shaule - Water Treatment Plant (3/9)	C-1.3	
4	Transmission Pipeline : Shaule - Water Treatment Plant (4/9)	C-1.4	
5	Transmission Pipeline : Shaule - Water Treatment Plant (5/9)	C-1.5	
6	Transmission Pipeline : Shaule - Water Treatment Plant (6/9)	C-1.6	
7	Transmission Pipeline: Shaule - Water Treatment Plant (7/9)	C-1.7	
8	Transmission Pipeline : Shaule - Water Treatment Plant (8/9)	C-1.8	
9	Transmission Pipeline : Shaule - Water Treatment Plant (9/9)	C-1.9	
10	Transmission Pipeline : Holche Intake Chamber – Shaule (1/7)	C-2.1	
11	Transmission Pipeline : Holche Intake Chamber – Shaule (2/7)	C-2.2	
12	Transmission Pipeline : Holche Intake Chamber – Shaule (3/7)	C-2.3	
13	Transmission Pipeline : Holche Intake Chamber – Shaule (4/7)	C-2.4	
14	Transmission Pipeline : Holche Intake Chamber – Shaule (5/7)	C-2.5	
15	Transmission Pipeline : Holche Intake Chamber – Shaule (6/7)	C-2.6	
16	Transmission Pipeline : Holche Intake Chamber – Shaule (7/7)	C-2.7	
17	Transmission Pipeline : Chitre Chamber - Shaule (1/7)	C-3.1	
18	Transmission Pipeline : Chitre Chamber - Shaule (2/7)	C-3.2	
19	Transmission Pipeline : Chitre Chamber - Shaule (3/7)	C-3.3	
20	Transmission Pipeline : Chitre Chamber - Shaule (4/7)	C-3.4	
21	Transmission Pipeline : Chitre Chamber - Shaule (5/7)	C-3.5	
22	Transmission Pipeline : Chitre Chamber - Shaule (6/7)	C-3.6	
23	Transmission Pipeline : Chitre Chamber - Shaule (7/7)	C-3.7	
24	Transmission Pipeline : Phusre Chamber – Chitre Chamber (1/3)	C-4.1	
25	Transmission Pipeline : Phusre Chamber – Chitre Chamber (2/3)	C-4.2	
26	Transmission Pipeline : Phusre Chamber – Chitre Chamber (3/3)	C-4.3	
27	Pressure Breaking Chamber (Type-1)	C-8.1	
28	Pressure Breaking Chamber (Type-2)	C-8.2	
29	Pressure Breaking Chamber (Type-3)	C-8.3	
30	Holche Intake Chamber	C-9.1	

No	Drawing Title	Drawing No	Remarks
31	Thalkharka Intake Chamber No.1	C-9.2	
32	Thalkharka Intake Chamber No.2	C-9.3	
33	Thalkharka Intake Chamber No.3	C-9.4	
34	Thalkharka Intake Chamber No.4	C-9.5	
35	Flow Measuring Chamber	C-9.6	
36	Standard Section for Ground Installation	C-10.1	
37	Standard Section for Underground Installation	C-10.2	
38	Washout Valves	C-10.3	
39	Air Valves & Service Branch	C-10.4	

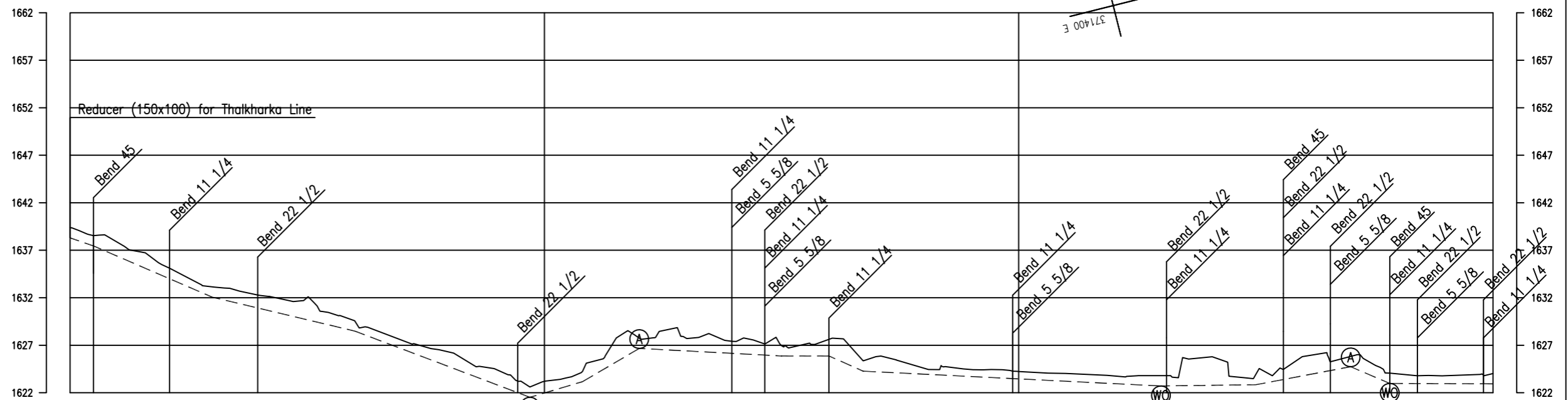


<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>		<p>SUB PROJECT PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>NOV. 2015</p>	<p>TRANSMISSION PIPELINE Overall Layout</p>	<p>C-0.1</p>
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LEGENDS:

- EXISTING ROAD
- BENCH MARK
- BASELINE
- ELECTRIC POLE
- WATER TAP
- HOUSE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- WALKING TRACK
- MAJOR CONTOUR
- MINOR CONTOUR
- AIR VALVE
- WASHOUT VALVE



GROUND LEVEL (m)	1639.389	1638.538	1637.834	1635.339	1633.143	1632.249	1632.134	1632.016	1629.582	1627.522	1626.273	1624.410	1622.607	1623.200	1624.250	1625.266	1627.746	1627.711	1627.407	1626.956	1627.621	1625.800	1624.586	1624.442	1624.236	1624.030	1623.777	1623.797	1625.749	1623.929	1625.812	1625.826	1623.979	1623.791	1624.023			
ACCUMULATED DIST. (km)	0+000.00	0+009.89	0+020.00	0+040.00	0+060.00	0+080.00	0+084.12	0+100.00	0+120.00	0+140.00	0+160.00	0+189.06	0+180.00	0+200.00	0+206.50	0+220.00	0+240.00	0+260.00	0+280.00	0+292.95	0+300.00	0+320.00	0+340.00	0+360.00	0+380.00	0+386.30	0+400.00	0+420.00	0+440.00	0+460.00	0+471.75	0+480.00	0+500.00	0+520.00	0+540.00	0+556.48	0+580.00	0+600.00
PARTIAL DIST. (km)	0.000	7.651	2.238			74.232				84.941					37.440		34.500			51.948						83.349				85.455					84.729			
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1638.304	1637.453		1632.058		1631.049	DIP150		1628.497		1621.522		1623.185		1626.661	DIP150			1625.871		1626.536	1624.273				1622.712		1622.844	DIP150		1624.741		1622.894		1622.894		1622.894	
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1638.833	1637.479		1632.084		1631.075	DIP100		1628.523		1621.548		1623.191		1626.687	DIP100			1625.897		1626.562	1624.259				1622.738		1622.870	DIP100		1624.767		1622.920		1622.920		1622.920	
STATION NO. (MEASURED CONTROL POINTP)	Shaule Junction BL-65A	BL-65				BL-64				BL-63A	Washout	BL-63B		BL-63 Air Valve		BL-62					BL-61				Washout	BL-60				Washout	BL-59 Air Valve	BL-59 Washout						

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

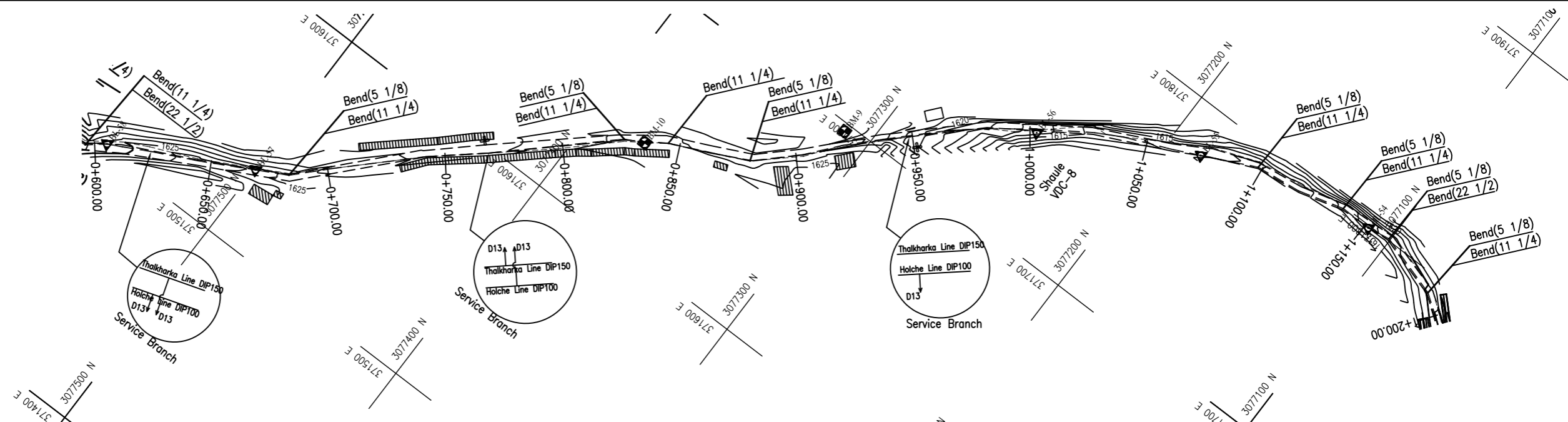
SUB PROJECT

PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

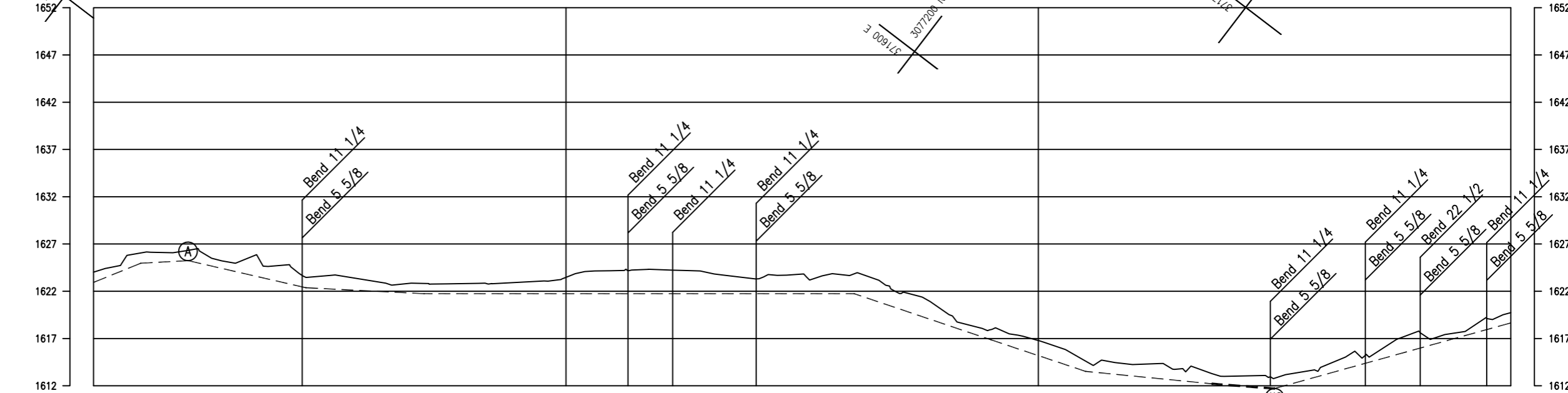
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NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (1/9)

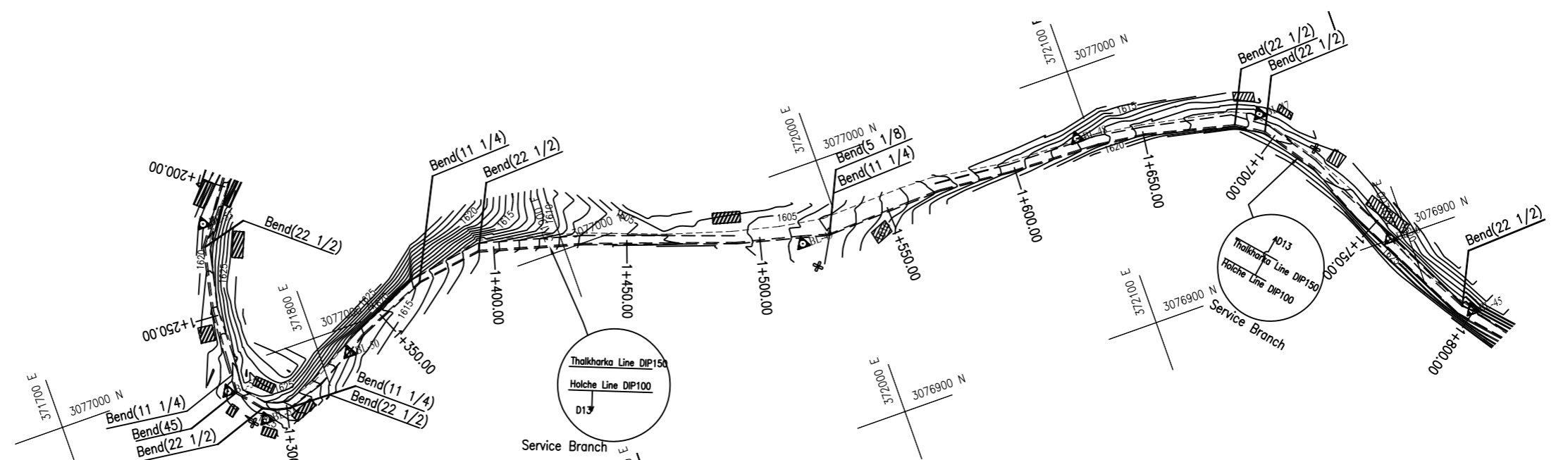
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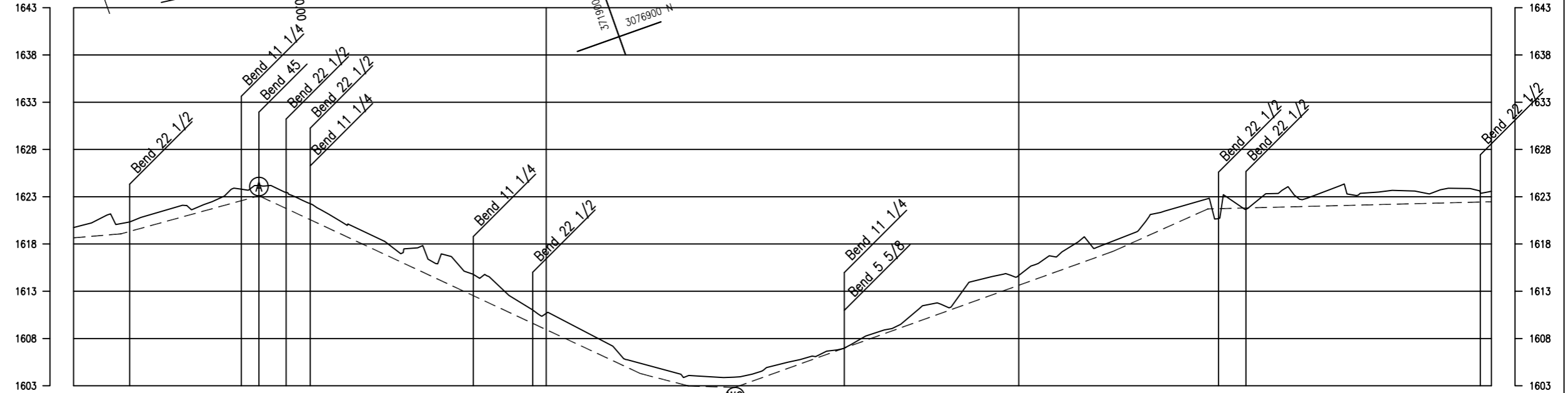
- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
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GROUND LEVEL (m)	1624.023	1626.050	1626.324	1624.960	1624.752	1623.672	1623.010	1622.824	1622.824	1622.946	1623.474	1624.177	1624.281	1623.973	1623.316	1623.815	1623.659	1621.919	1619.904	1617.944	1616.785	1614.608	1614.242	1613.790	1613.006	1612.794	1613.994	1615.035	1617.687	1617.718	1619.736					
CHAINAGE (km)	0+600.00	0+605.25	0+620.00	0+640.00	0+660.00	0+669.06	0+680.00	0+700.00	0+720.00	0+740.00	0+760.00	0+780.00	0+800.00	0+820.00	0+834.99	0+840.00	0+860.00	0+880.00	0+900.00	0+920.00	0+940.00	0+960.00	0+980.00	1+000.00	1+020.00	1+040.00	1+060.00	1+073.41	1+080.00	1+100.00	1+120.00	1+140.00	1+151.81	1+160.00	1+180.00	1+200.00
PARTIAL DIST. (km)		48.762			63.811								165.933				87.056				80.887				70.475						78.4					
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1622.894	1624.965	1625.239		1622.370	DIP150		1621.735			DIP150				1621.735		1616.859			1613.523						1611.709	DIP150								1618.651	
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1622.970	1624.991	1625.265		1622.396	DIP100		1621.761			DIP100				1622.600		1616.885			1613.549						1611.735	DIP100								1618.677	
STATION NO. (MEASURED CONTROL POINT)	BL-58		Air Valve		BL-57						BM-10						BM-9				BL-56					BL-55							BL-54			



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GROUND LEVEL (m)	1619.736	1620.157	1621.650	1622.632	1624.135	1622.285	1619.656	1617.487	1616.636	1613.566	1610.660	1608.266	1605.367	1604.058	1603.917	1605.348	1606.701	1608.653	1611.504	1614.020	1614.673	1617.423	1618.319	1621.332	1622.792	1622.396	1622.690	1623.245	1623.663	1623.812	1623.556							
CHAINAGE (km)	1+200.00	1+215.60	1+220.00	1+240.00	1+278.45	1+280.00	1+292.55	1+300.00	1+320.00	1+331.60	1+340.00	1+360.00	1+380.00	1+400.00	1+420.00	1+440.00	1+460.00	1+480.00	1+500.00	1+515.95	1+520.00	1+540.00	1+560.00	1+580.00	1+600.00	1+620.00	1+625.56	1+640.00	1+660.00	1+680.00	1+692.65	1+700.00	1+720.00	1+740.00	1+768.00	1+780.00	1+799.32	1+800.00
PARTIAL DIST. (km)		63.795			62.846		14.106			39.047								184.348				109.615				67.085								65.395			41.28	
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1618.651	1619.072			1623.050		DIP150						1604.282	1602.973	1602.826		1605.238					1617.234				1621.707				DIP150						1622.471		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1618.677	1619.098			1623.076		DIP100						1604.308	1602.999	1602.852		1605.264					1617.260				1621.733				DIP100						1622.497		
STATION NO. (MEASURED CONTROL POINT)		BL-53			BL-52 Air Valve	BL-51		BL-50									BL-49					BL-48				BL-47							BL-46				BL-45	

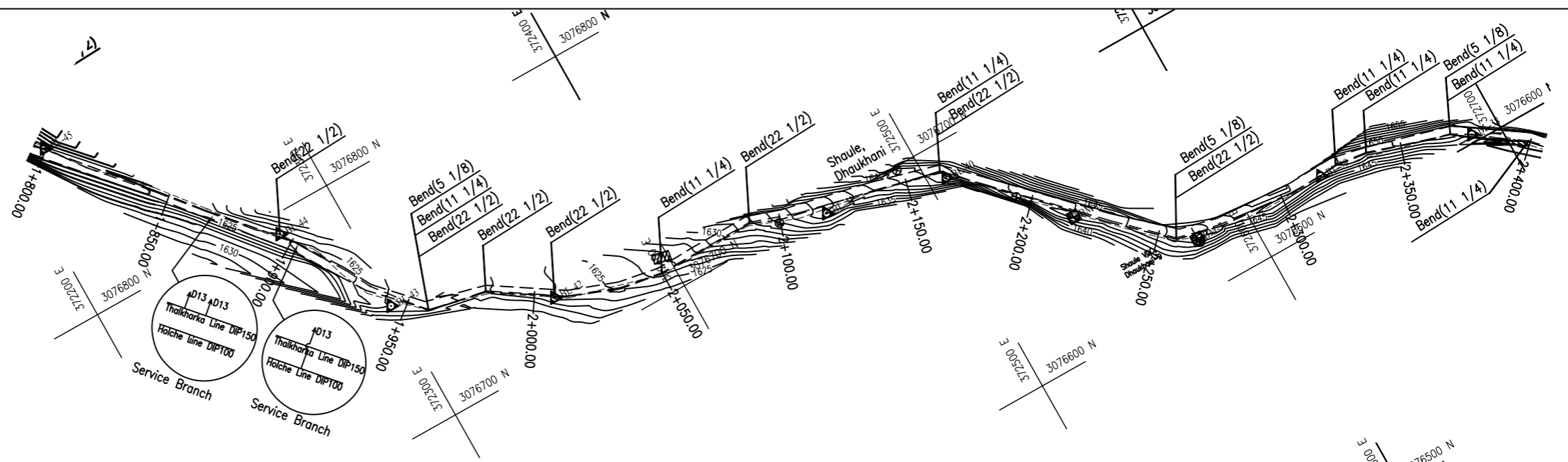
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PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

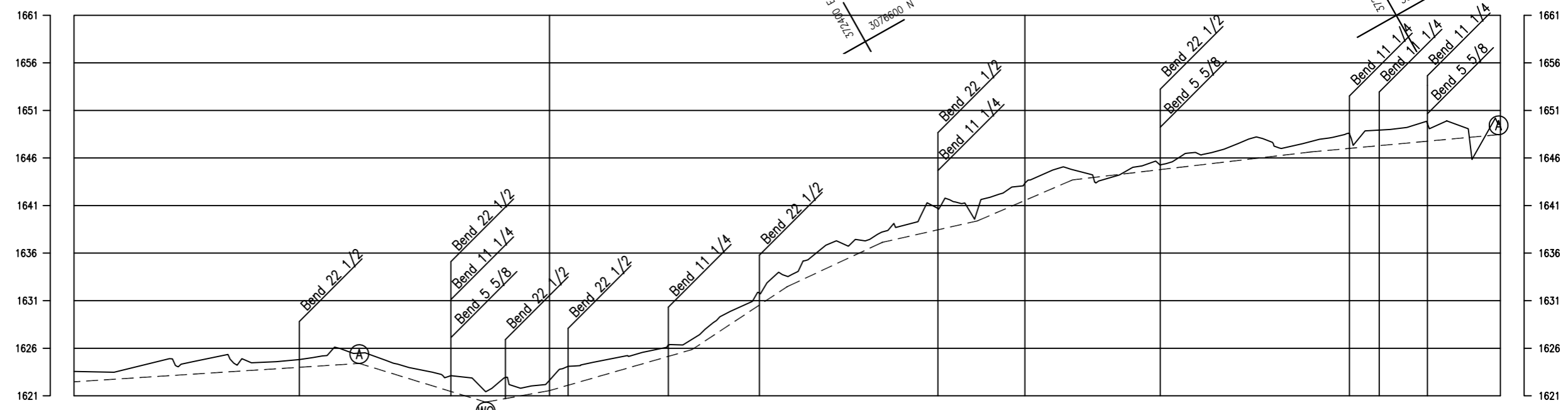
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NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (3/9)

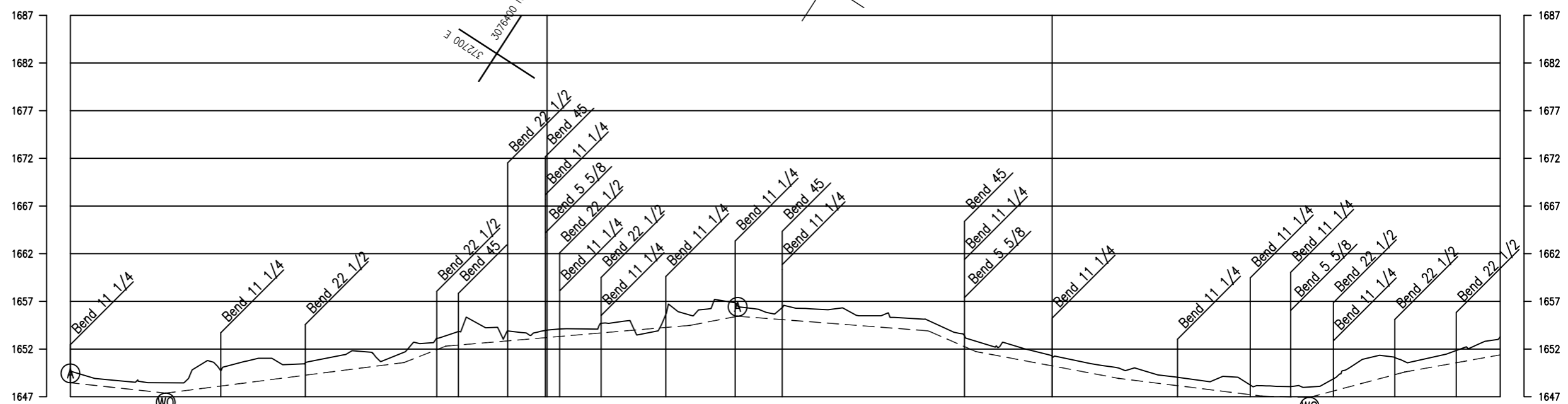
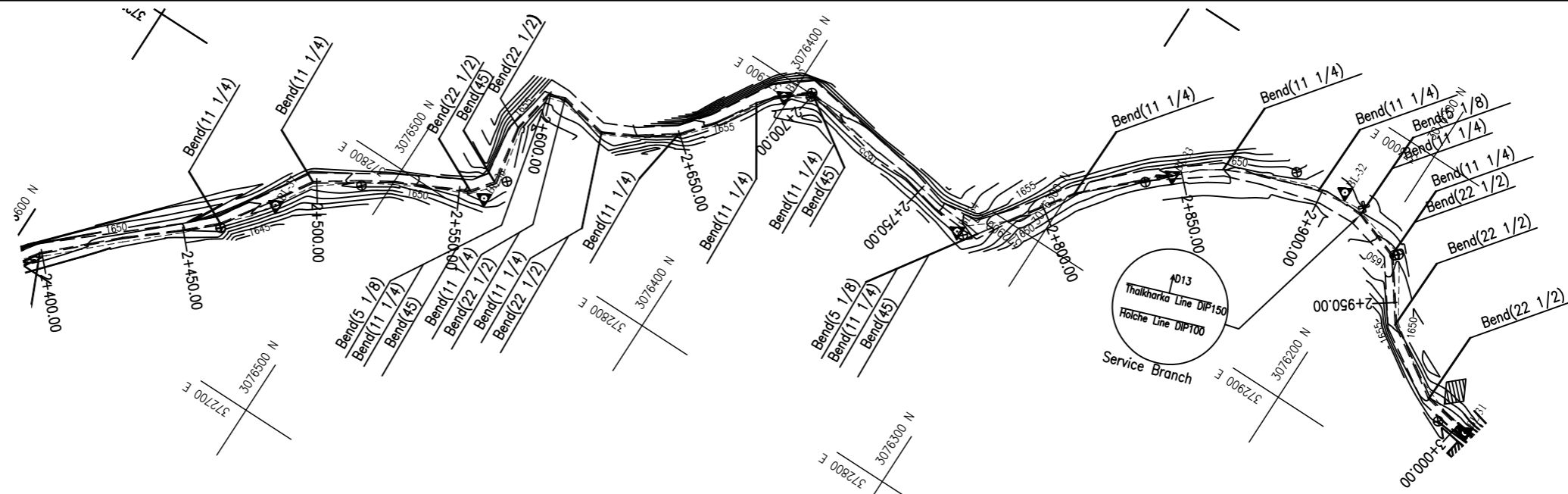
C-1.3



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
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GROUND LEVEL (m)	1623.556	1623.671	1624.892	1625.106	1624.527	1625.005	1625.488	1624.043	1623.080	1621.419	1622.685	1622.630	1624.606	1625.609	1626.947	1630.321	1633.556	1637.218	1638.219	1641.149	1640.468	1643.360	1644.779	1644.258	1645.452	1646.664	1648.042	1647.711	1647.910	1649.186	1649.667	1649.550					
CHAINAGE (km)	1+800.00	1+816.58	1+840.00	1+860.00	1+880.00	1+894.78	1+900.00	1+920.00	1+940.00	1+944.30	1+960.00	1+980.00	2+000.00	2+007.85	2+020.00	2+040.00	2+060.00	2+080.00	2+100.00	2+120.00	2+140.00	2+160.00	2+166.37	2+180.00	2+200.00	2+220.00	2+240.00	2+260.00	2+264.68	2+280.00	2+300.00	2+316.88	2+320.00	2+340.00	2+360.00	2+370.00	2+400.00
PARTIAL DIST. (km)		17.268				78.187			49.522				63.548					109.77		48.754		66.845		47.458			52.188			60.643							
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1622.471					DIP150	1624.403				1620.334		1621.545		1625.862	DIP150	1632.471		1637.134		1639.383		1643.694						DIP100	1646.626						1648.465	
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1622.497					DIP100	1624.429				1620.360		1621.571		1625.888	DIP100	1632.497		1637.160		1639.409		1643.720							DIP100	1646.652						1648.491
STATION NO. (MEASURED CONTROL POINT)		BL-45				BL-44	Air Valve	BL-43	Washout		BL-42						BL-41		BL-40				BM-8		BM-7				BL-39				BL-38		Air Valve		



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GROUND LEVEL (m)	1649.550	1648.682	1648.462	1650.615	1651.032	1650.668	1651.790	1651.667	1653.602	1653.897	1653.975	1654.094	1653.585	1655.563	1656.530	1656.548	1656.189	1655.491	1654.991	1652.817	1652.054	1650.896	1650.000	1649.177	1648.758	1648.150	1648.020	1650.562	1650.678	1651.702	1653.280				
CHAINAGE (km)	2+400.00	2+420.00	2+440.00	2+460.00	2+480.00	2+500.00	2+520.00	2+540.00	2+560.00	2+580.00	2+600.00	2+620.00	2+640.00	2+660.00	2+680.00	2+688.93	2+700.00	2+720.00	2+740.00	2+760.00	2+768.97	2+780.00	2+800.00	2+820.00	2+840.00	2+846.59	2+860.00	2+880.00	2+900.00	2+907.42	2+920.00	2+940.00	2+960.00	2+980.00	3+000.00
PARTIAL DIST. (km)					105.861				74.085						131.476						80.04				77.616			60.837							
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1648.465		1647.377						DIP150	1650.582	1652.517				1654.478	1655.445				1653.906		1651.732			1648.941			1647.065		DIP150	1646.935			1649.593	1651.403
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1648.491		1647.407						DIP100	1650.608	1652.543				1654.504	1655.471				1653.932		1651.758			1648.941			1647.091		DIP100	1646.961			1649.619	1651.429
STATION NO. (MEASURED CONTROL POINT)	Air Valve		Washout		BL-37					BL-36					Air Valve	BL-35					BL-34				BL-33				BL-32	Washout					

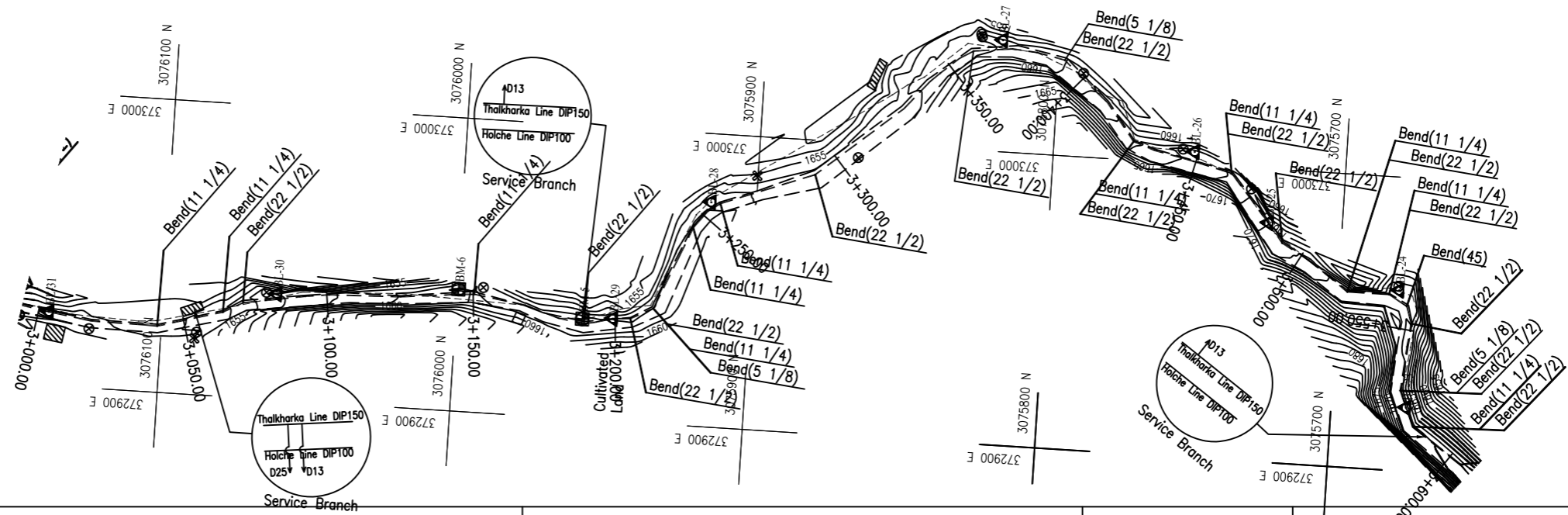
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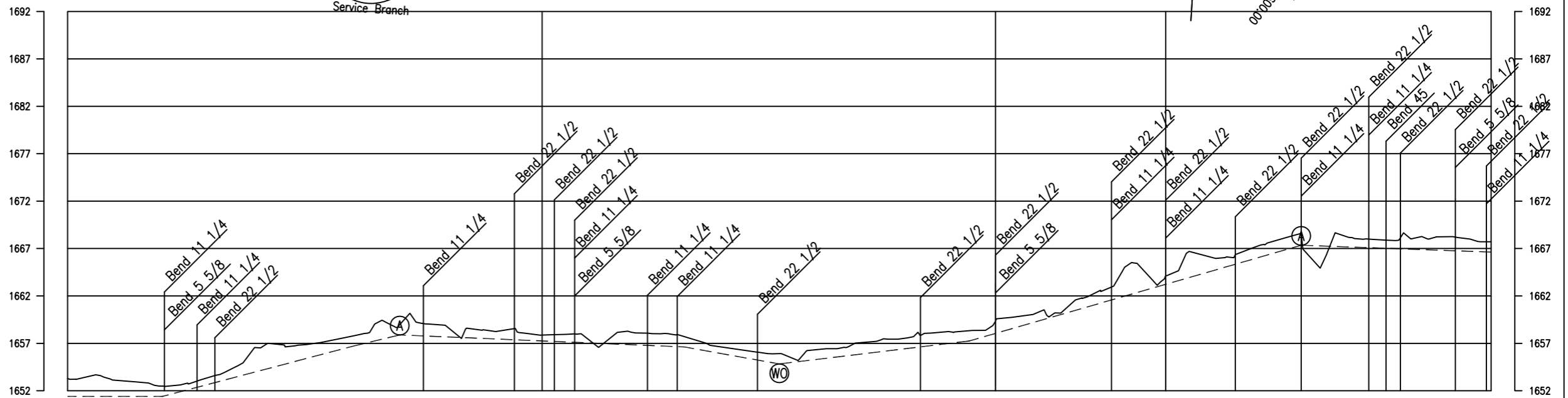
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NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (5/9)

C-1.5



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
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GROUND LEVEL (m)	1653.280	1653.110	1652.488	1653.447	1656.540	1656.859	1657.766	1658.972	1658.735	1658.257	1657.868	1657.323	1658.095	1657.703	1656.453	1655.913	1656.435	1657.189	1657.895	1658.332	1659.809	1660.494	1662.937	1663.307	1666.218	1667.110	1668.433	1668.178	1667.849	1668.237	1667.713												
CHAINAGE (km)	3+000.00	3+003.46	3+020.00	3+040.00	3+060.00	3+080.00	3+100.00	3+120.00	3+140.00	3+145.03	3+160.00	3+180.00	3+188.33	3+188.21	3+200.00	3+220.00	3+240.00	3+254.55	3+260.00	3+280.00	3+300.00	3+320.00	3+340.00	3+360.00	3+369.79	3+380.00	3+400.00	3+420.00	3+440.00	3+448.66	3+460.00	3+480.00	3+483.89	3+500.00	3+520.00	3+536.46	3+540.00	3+560.00	3+576.81	3+580.00	3+600.00		
PARTIAL DIST. (km)		96.034				79.729				61.843			43.302	10.881				55.341							115.238					78.891			35.213				52.504			40.513			
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1651.403	1651.403	1651.403		DIP150		1656.681	1657.887		1657.913				1656.618	DIP150	1654.828				1657.247																							1666.628
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1651.429	1651.429	1651.429		DIP100		1656.707	1657.887		1657.913				1656.644	DIP100	1654.854				1657.273																							1666.654
STATION NO. (MEASURED CONTROL POINT)	BL-31					BL-30			Air Valve BM-6			BM-5	BL-29		BL-28	Washout				BL-27				BL-26		BL-25										Air Valve	BL-24			BL-23			

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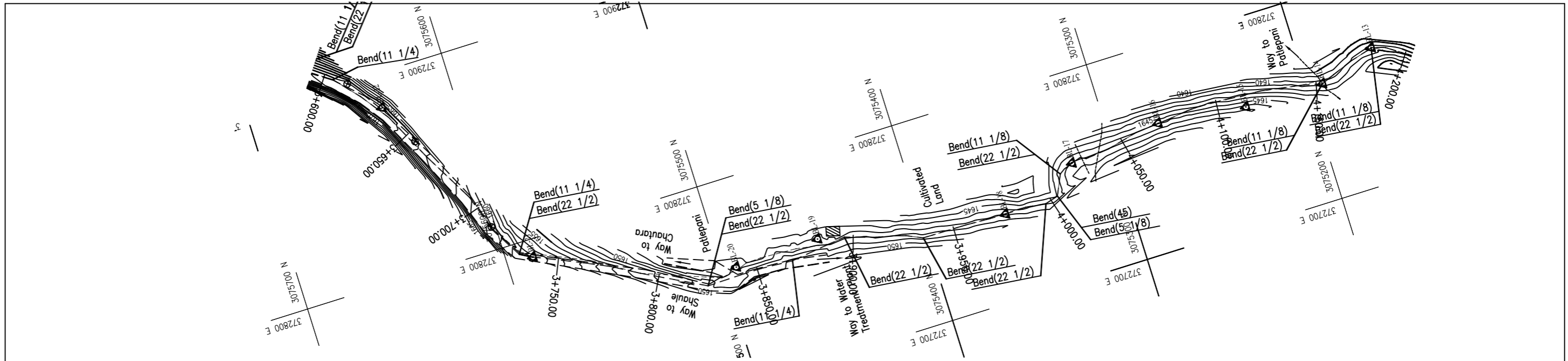
SUB PROJECT

PROJECT
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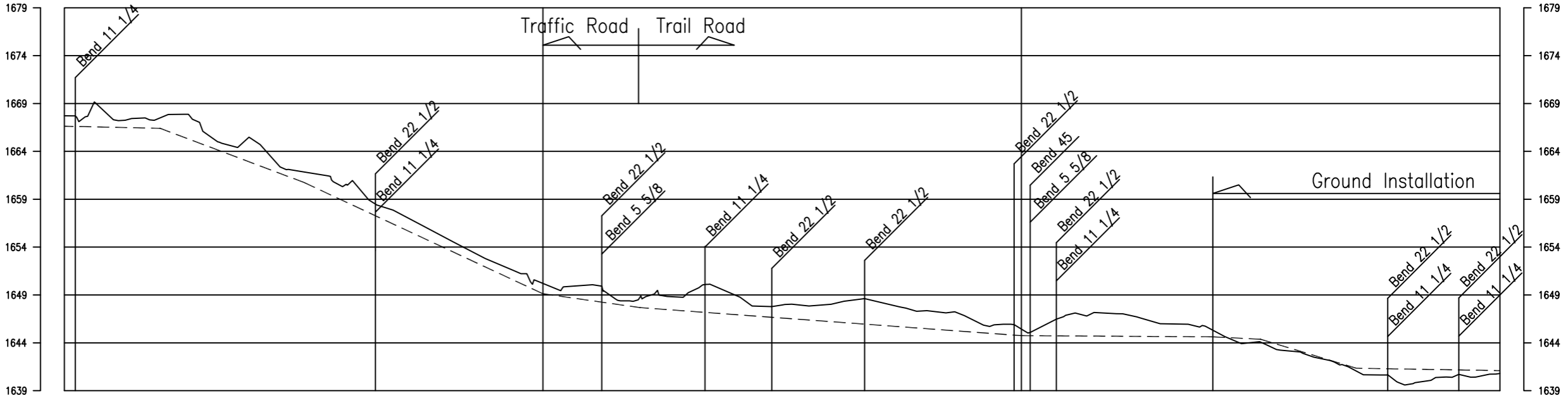
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V 1:500
NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (6/9)

C-1.6



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
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 - AIR VALVE
 - WASHOUT VALVE



GROUND LEVEL (m)	1667.713	1667.416	1667.497	1665.724	1665.015	1661.853	1660.861	1657.522	1654.882	1652.374	1650.210	1650.054	1648.541	1649.069	1649.027	1647.957	1648.018	1648.287	1647.353	1646.367	1645.435	1646.988	1647.037	1645.987	1645.320	1644.073	1642.893	1641.046	1639.613	1640.394	1640.796					
CHAINAGE (km)	3+600.00	3+620.00	3+632.17	3+640.00	3+660.00	3+680.00	3+700.00	3+720.00	3+760.00	3+780.00	3+800.00	3+820.00	3+840.00	3+860.00	3+880.00	3+900.00	3+920.00	3+940.00	3+960.00	3+976.41	3+980.00	4+000.00	4+020.00	4+022.47	4+040.00	4+060.00	4+069.73	4+080.00	4+100.00	4+113.76	4+120.00	4+140.00	4+153.12	4+160.00	4+180.00	4+200.00
PARTIAL DIST. (km)			55.26					105.335					103.092		42.737					93.073			46.058		47.264		44.03		39.357		29.72					
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1666.628		1666.412			1660.768	DIP150		1649.125		1647.456	DIP150				1644.776					1644.750			1644.635	1644.373	DIP150	1641.346							1641.096		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1666.654		1666.438			1660.794	DIP100		1649.151		1647.482	DIP100				1644.776					1644.661			1644.373	DIP100	1641.346								1641.096		
STATION NO. (MEASURED CONTROL POINT)		BL-22						BL-21					BL-20		BL-19					BL-18			BL-17		BL-16		BL-15		BL-14		BL-13					

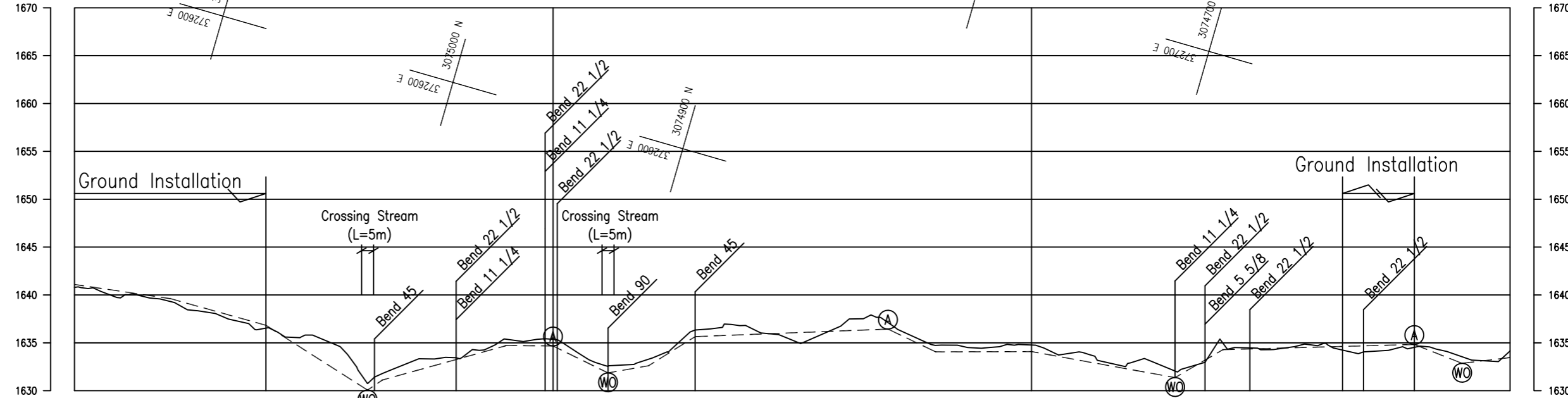
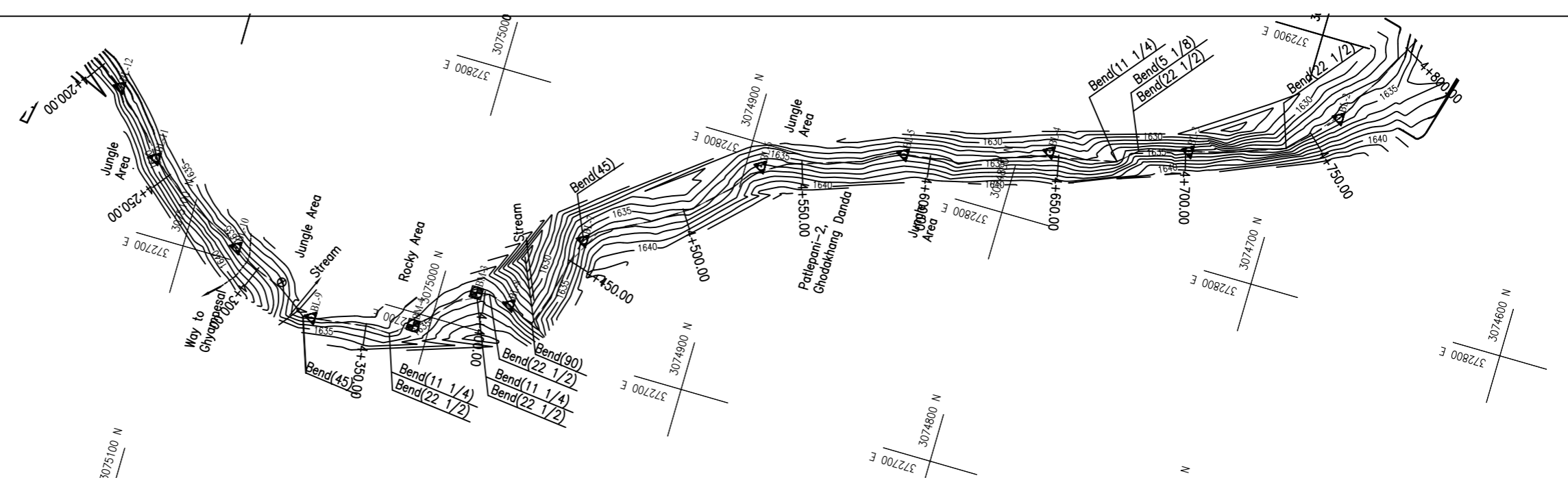
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

H 1:2000
V 1:500
NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (7/9)

C-1.7



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE

GROUND LEVEL (m)	1640.796	1639.830	1639.320	1637.939	1636.533	1635.754	1631.623	1632.940	1633.404	1635.395	1635.362	1632.762	1633.297	1636.347	1636.807	1635.279	1636.715	1637.119	1634.738	1634.457	1634.770	1634.052	1632.777	1632.054	1634.970	1634.290	1634.737	1634.070	1634.527	1633.542	1634.144																
CHAINAGE (km)	4+200.00	4+210.94	4+220.00	4+240.00	4+241.85	4+260.00	4+280.00	4+288.05	4+300.00	4+320.00	4+328.73	4+340.00	4+360.00	4+369.19	4+380.00	4+396.72	4+410.61	4+420.00	4+423.00	4+440.00	4+459.43	4+480.00	4+480.00	4+500.00	4+520.00	4+534.37	4+540.00	4+560.00	4+580.00	4+589.79	4+600.00	4+620.00	4+640.00	4+646.47	4+660.00	4+680.00	4+700.00	4+720.00	4+740.00	4+760.00	4+762.39	4+780.00	4+800.00				
PARTIAL DIST. (km)		28.102	30.711	46.399	34.444	6.236	40.463	27.532	13.889	12.382	36.438	74.933	55.424	56.678	54.72	61.199																															
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1641.096		1639.620	1635.848	DIP150	1631.223	1631.223	1634.710	1634.677	1632.362	1632.362	1635.662	DIP150	1636.434	1634.738	1634.085	1631.369	1634.285	DIP150	1634.827	1632.857	1633.459																									
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1641.096		1639.620	1635.874	DIP100	1631.223	1631.223	1634.736	1634.677	1632.362	1632.362	1635.688	DIP100	1636.460	1634.764	1634.111	1631.395	1634.311	DIP100	1634.853	1632.883	1633.465																									
STATION NO. (MEASURED CONTROL POINT)		BL-12	BL-11	BL-10	Stream	BL-9 Washout	BM-4	BM-3 Air Valve	BL-8	Stream	Washout	BL-7	BL-6 Air Valve	BL-5	BL-4	Washout	BL-3	BL-2 Air Valve	Washout																												

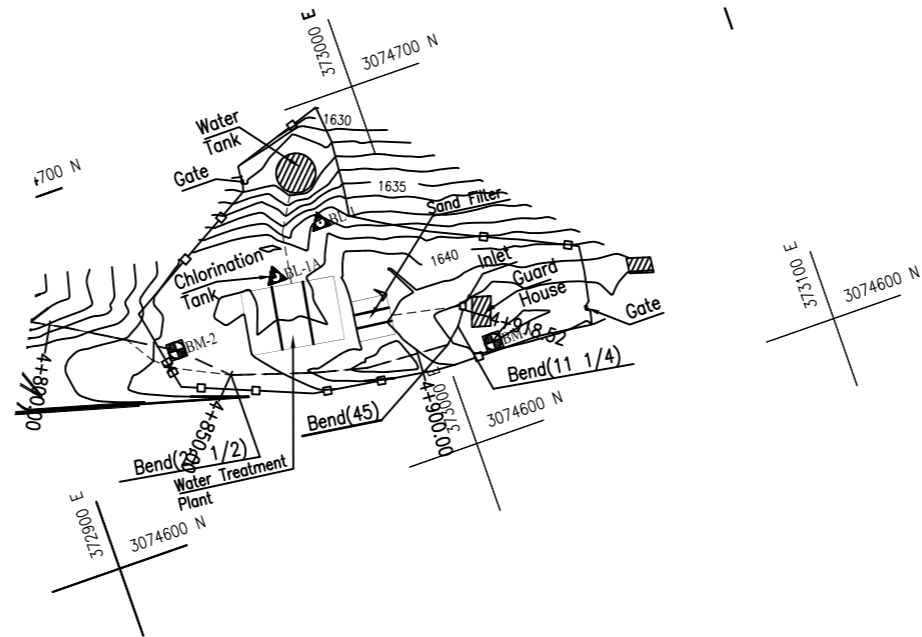
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

H 1:2000
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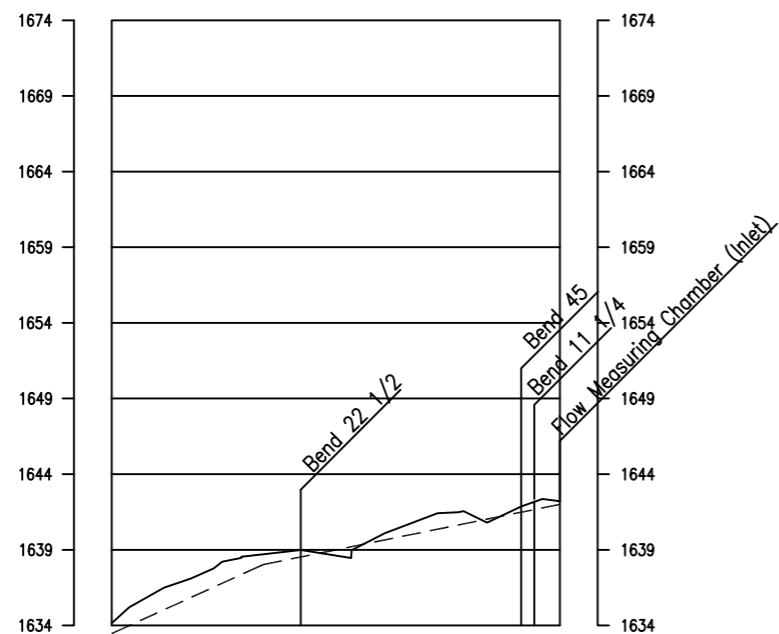
TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (8/9)

C-1.8



LEGENDS:

EXISTING ROAD	---
BENCH MARK	⊠
BASELINE	▲
ELECTRIC POLE	⊗
WATER TAP	⊗
HOUSE	▨
EXISTING PIPELINE	- - -
PROPOSED PIPELINE	- - - -
WALKING TRACK	⋯
MAJOR CONTOUR	—
MINOR CONTOUR	~
AIR VALVE	⊙
WASHOUT VALVE	⊙



GROUND LEVEL (m)	1634.144	1637.015	1638.703	1638.588	1640.835	1640.879	1642.203		
CHAINAGE (km)	4+800.00	4+820.00	4+829.19	4+834.30	4+840.00	4+860.00	4+870.00	4+900.00	4+918.52
PARTIAL DIST. (km)		66.804	5.113	28.245	14.803	34.407	6.761		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1633.459		1638.018	DIP150		1641.661	1642.003		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1633.485		1638.044	DIP100		1641.661	1642.003		
STATION NO. (MEASURED CONTROL POINT)		Fence	BM-2	BL-1A	BL-1	BM-1	Inlet		

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

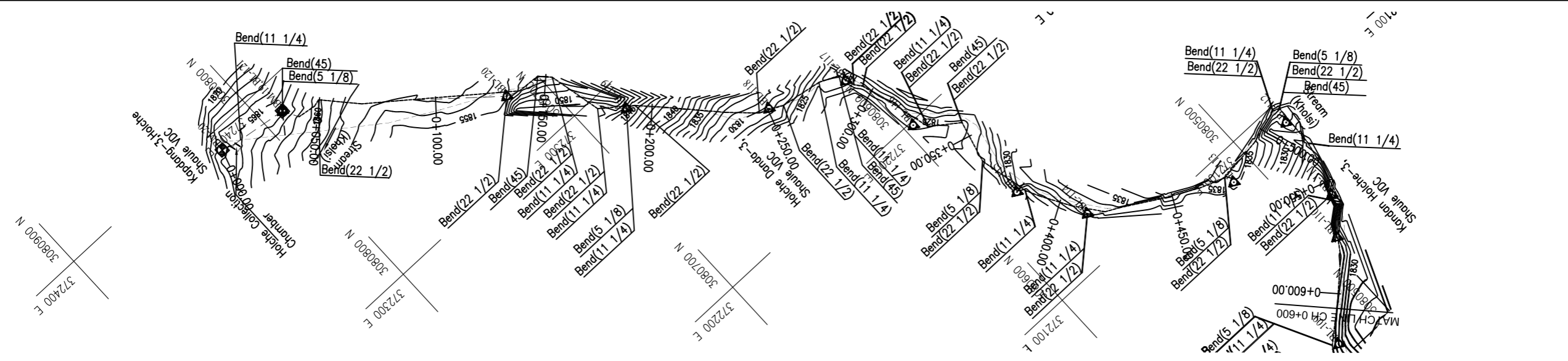
SUB PROJECT

PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

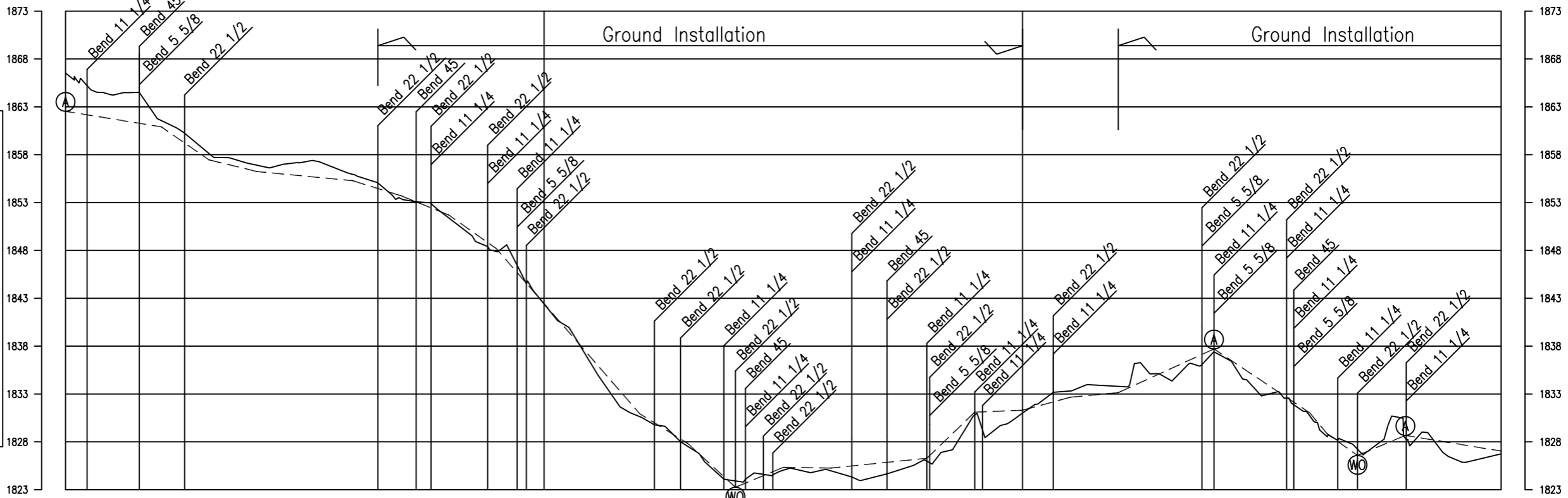
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V 1:500
NOV. 2015

TRANSMISSION PIPELINE
Shaule - Water Treatment Plant (9/9)

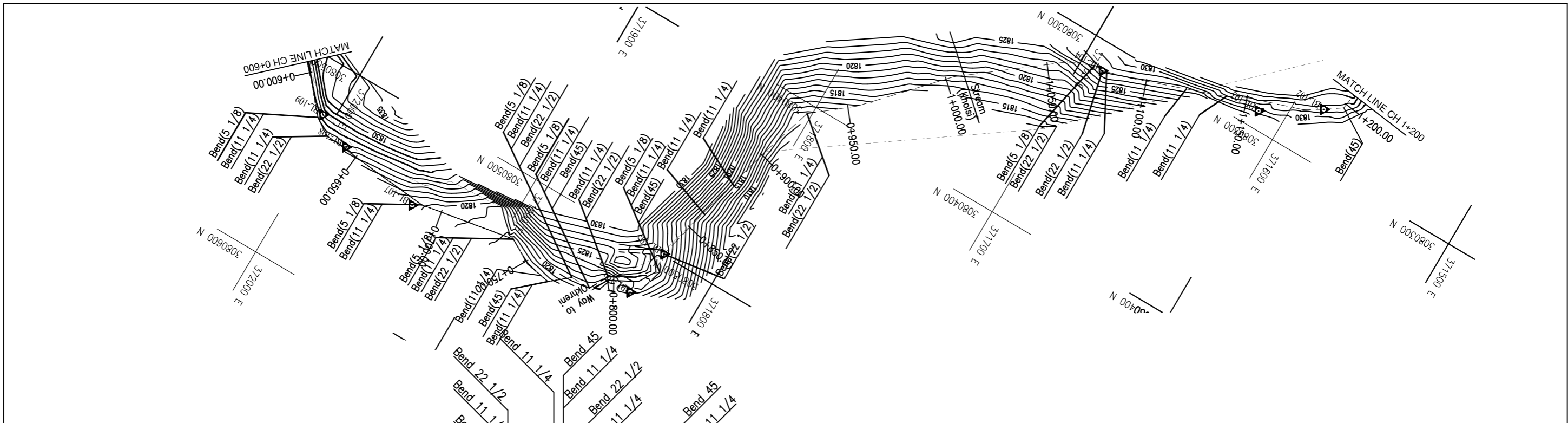
C-1.9



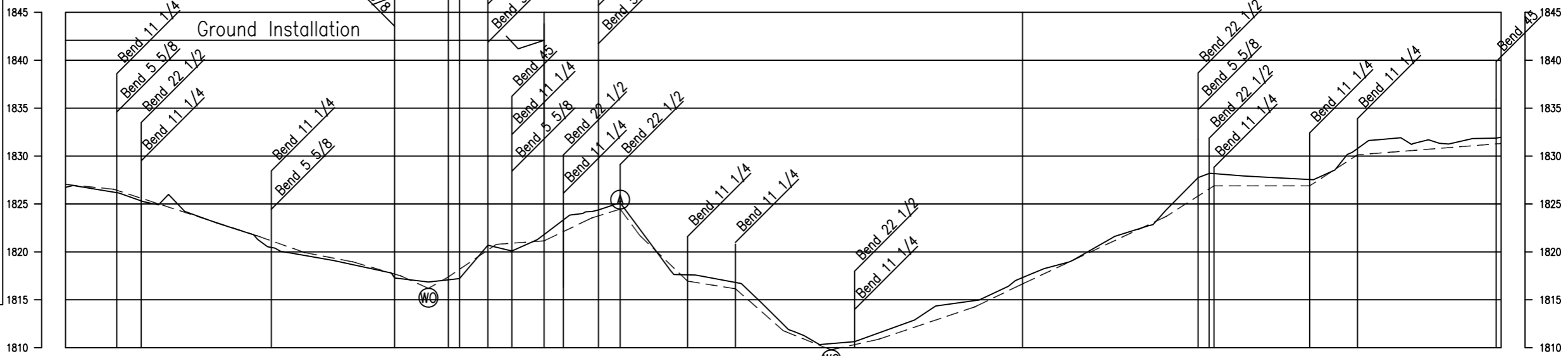
- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASILINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE



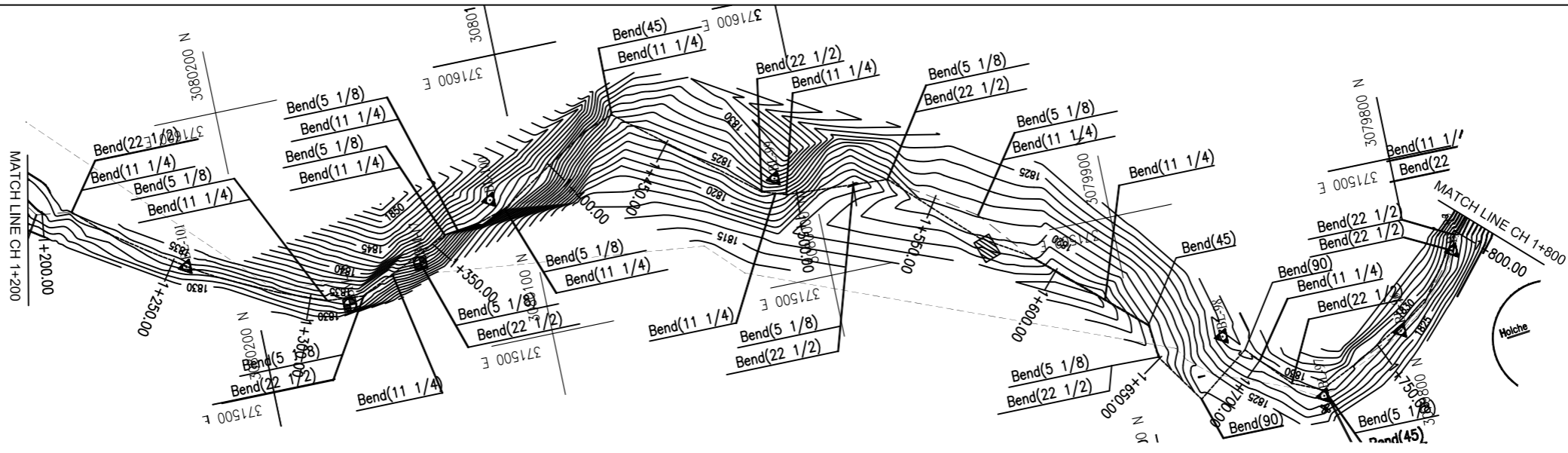
GROUND LEVEL (m)	ACCUMULATED DIST. (km)	PARTIAL DIST. (km)	PIPE CENTER LEVEL (m)	NOMINAL DIAMETER	STATION NO. (MEASURED CONTROL POINT)
1866.530	0+000.00	0.000	1862.530		BM-20
1864.236	0+020.00	5.617			Holche Collection Chamber
1861.568	0+030.82	25.2	1860.909		BM-19
1858.117	0+040.00		1857.458		BL-121
1856.900	0+080.00		1856.241	DIP100	Stream
1857.252	0+100.00		1855.287		
1855.946	0+120.00		1853.732		BL-120
1853.432	0+130.56	68.486	1851.726		
1851.426	0+140.00		1848.201		BL-119
1847.901	0+180.00	58.204	1830.737		
1842.409	0+188.76		1827.845	DIP100	BL-118
1836.020	0+200.00		1823.256		Washout
1830.637	0+240.00		1825.336		BL-117
1827.545	0+250.62	61.858	1825.284		
1823.915	0+260.00		1824.964		BL-117
1825.036	0+280.00	37.19	1823.101		BL-116
1824.442	0+287.81		1826.287		
1825.987	0+300.00		1831.305		BL-115
1830.801	0+316.13	28.32	1832.665		
1831.005	0+322.99	6.86	1833.321		BL-114
1833.321	0+340.00		1833.141		
1833.800	0+360.00		1837.708		BL-113
1834.700	0+380.00	58.76	1828.813	DIP100	Air Valve
1837.408	0+412.82	31.068	1830.736		
1832.813	0+420.00		1828.125		BL-112
1830.736	0+440.00		1827.238		Stream
1828.125	0+460.00	62.151	1828.374		Washout
1827.238	0+500.00		1828.674		BL-111
1828.374	0+520.00	43.875	1826.261		Air Valve
1828.125	0+555.98	37.13			BL-110
1827.238	0+580.00	19.602	1827.040		
1826.261	0+575.58				
1826.740	0+600.00				



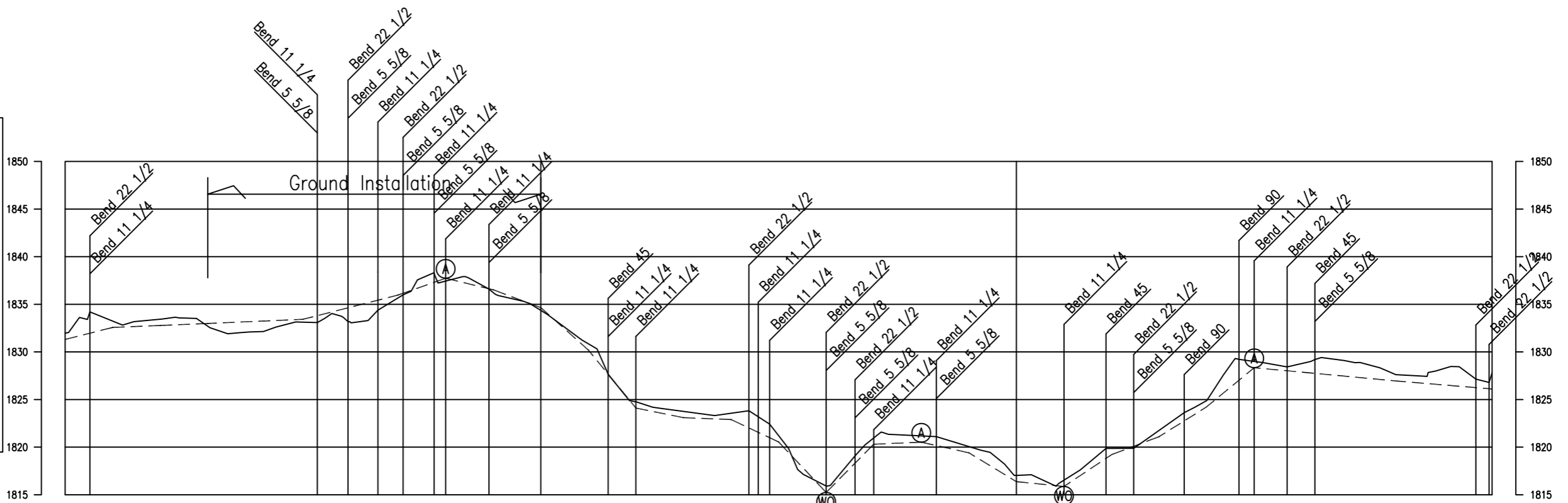
- LEGENDS:**
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 - BENCH MARK
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 - MAJOR CONTOUR
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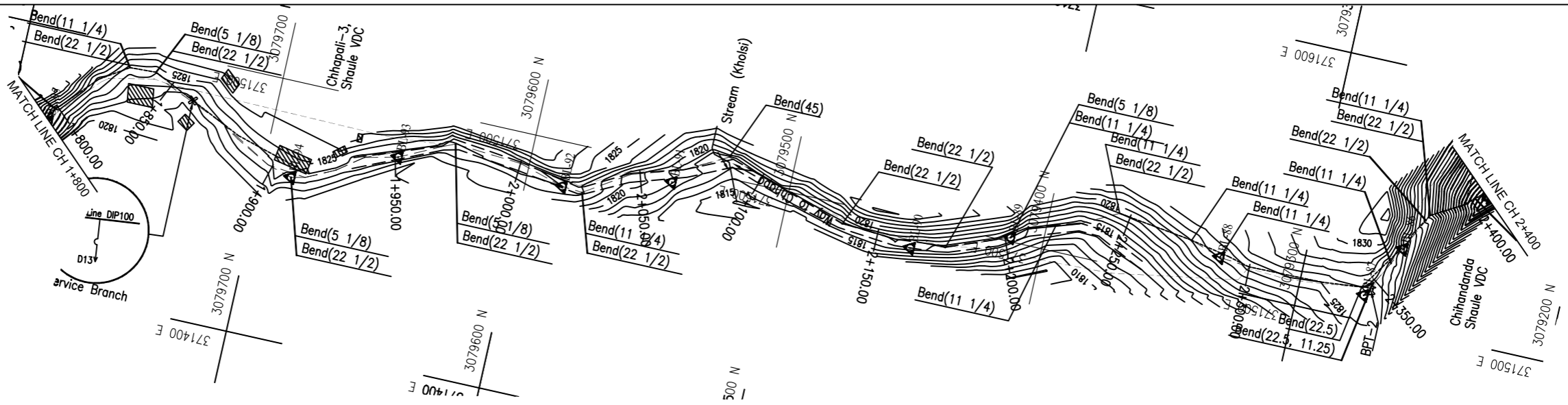
EXISTING LEVEL (m)	1826.740	1826.243	1825.205	1823.308	1821.386	1819.627	1818.669	1817.209	1816.857	1817.087	1820.486	1821.810	1824.206	1825.129	1822.377	1817.607	1816.814	1812.429	1810.426	1811.552	1813.743	1814.918	1817.320	1819.008	1821.732	1824.370	1828.173	1827.823	1827.551	1830.790	1831.624	1831.369	1831.969		
CHAINAGE (km)	0+600.00	0+620.00 0+621.40	0+640.00 0+643.04	0+660.00	0+680.00 0+686.01	0+700.00	0+720.00	0+740.00	0+751.68	0+760.00	0+780.00	0+800.00 0+808.07	0+820.00	0+831.82	0+840.00	0+860.00	0+880.00	0+900.00	0+920.00	0+940.00	0+960.00	0+980.00	1+000.00	1+009.01	1+020.00	1+040.00	1+060.00	1+077.97 1+080.00	1+100.00	1+120.00	1+140.00	1+166.88 1+168.00	1+180.00	1+188.12	1+200.00
PARTIAL DIST. (km)		45.824	21.634		42.977							122.06		23.747									177.193			66.956				78.885		31.264			
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1827.040	1826.543	1825.505		1821.686	1819.927 DIP100	1818.989	1817.509	1816.198	1817.387	1820.786	1821.151	1823.547	1824.370	1821.718	1816.948 DIP100	1816.155	1811.770	1809.767	1810.893	1814.259	1816.661			1823.711	1826.892 DIP100			1830.131				1831.310		
STATION NO. (MEASURED CONTROL POINT)	Air Valve	BL-109	BL-108		BL-107				Washout		Road Crossing	BL-106	Air Valve BL-105			DIP100		Washout				Stream			BL-104				BL-103		BL-102				



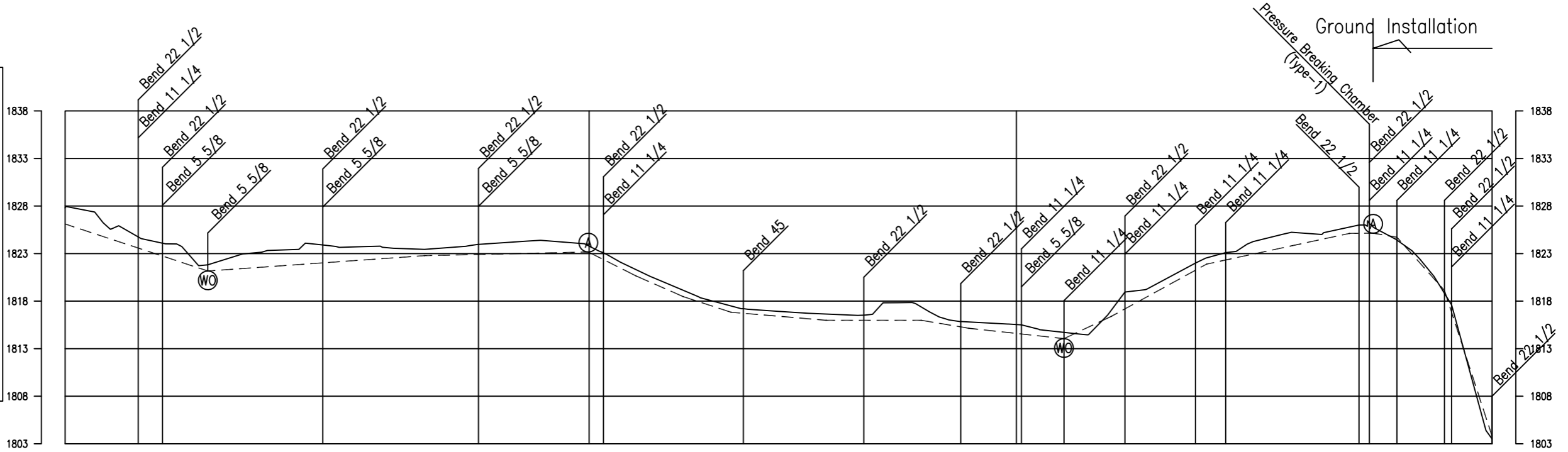
- LEGENDS:**
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 - HOUSE
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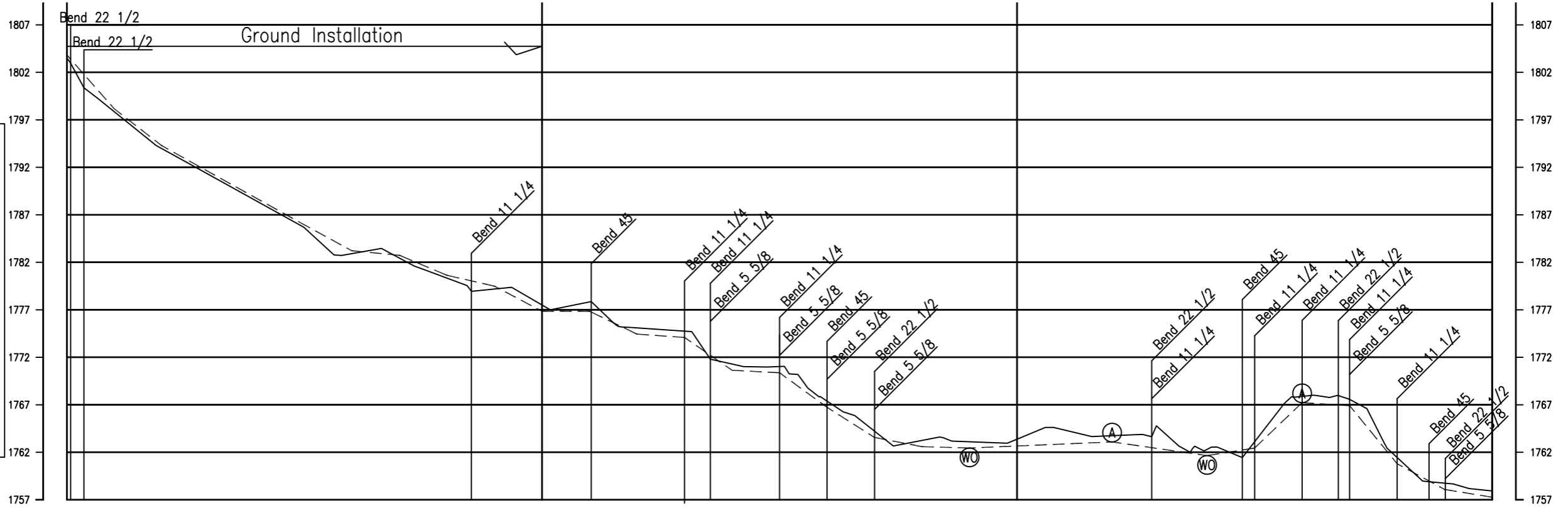
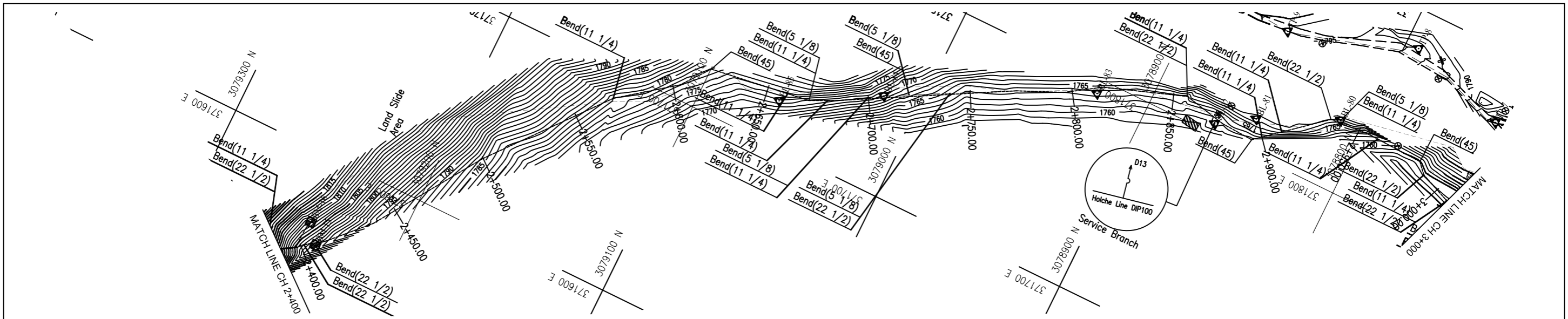
EXISTING LEVEL (m)	1831.969	1833.233	1833.435	1832.687	1832.115	1833.125	1833.103	1835.704	1837.439	1836.227	1834.358	1830.855	1824.766	1823.756	1823.560	1821.207	1815.921	1820.965	1821.181	1820.065	1817.034	1816.532	1819.871	1821.760	1824.893	1829.000	1828.778	1828.991	1827.603	1828.269	1827.795							
CHAINAGE (km)	1+200.00	1+220.00	1+240.00	1+255.14	1+260.00	1+280.00	1+300.00	1+313.79	1+320.00	1+340.00	1+360.00	1+375.14	1+380.00	1+400.00	1+420.00	1+440.00	1+460.00	1+480.00	1+491.46	1+500.00	1+520.00	1+540.00	1+560.00	1+580.00	1+600.00	1+620.00	1+640.00	1+660.00	1+680.00	1+691.92	1+700.00	1+720.00	1+725.50	1+740.00	1+760.00	1+780.00	1+793.19	1+800.00
PARTIAL DIST. (km)				67.018				58.653		28.312		33.038				116.315											200.461		33.584		34.044				33.643			
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1831.310	1832.574	1832.776	1832.776		1833.325	DIP100	1836.694	1837.739	1836.527	1834.658	1830.196	1824.107	1823.097	1822.901	1820.548	1815.262	1820.306	1820.522	1819.406	1816.375	1815.873	1819.212	1821.101	1824.234	1828.341			1826.944				1826.109					
STATION NO. (MEASURED CONTROL POINT)				BL-101			BM-18	BM-17	Air Valve	BL-100				BL-99	Wasuout		Air Valve			Wasuout			BL-98	Air Valve	BL-97	BL-96					BL-95						Air Valve	



- LEGENDS:**
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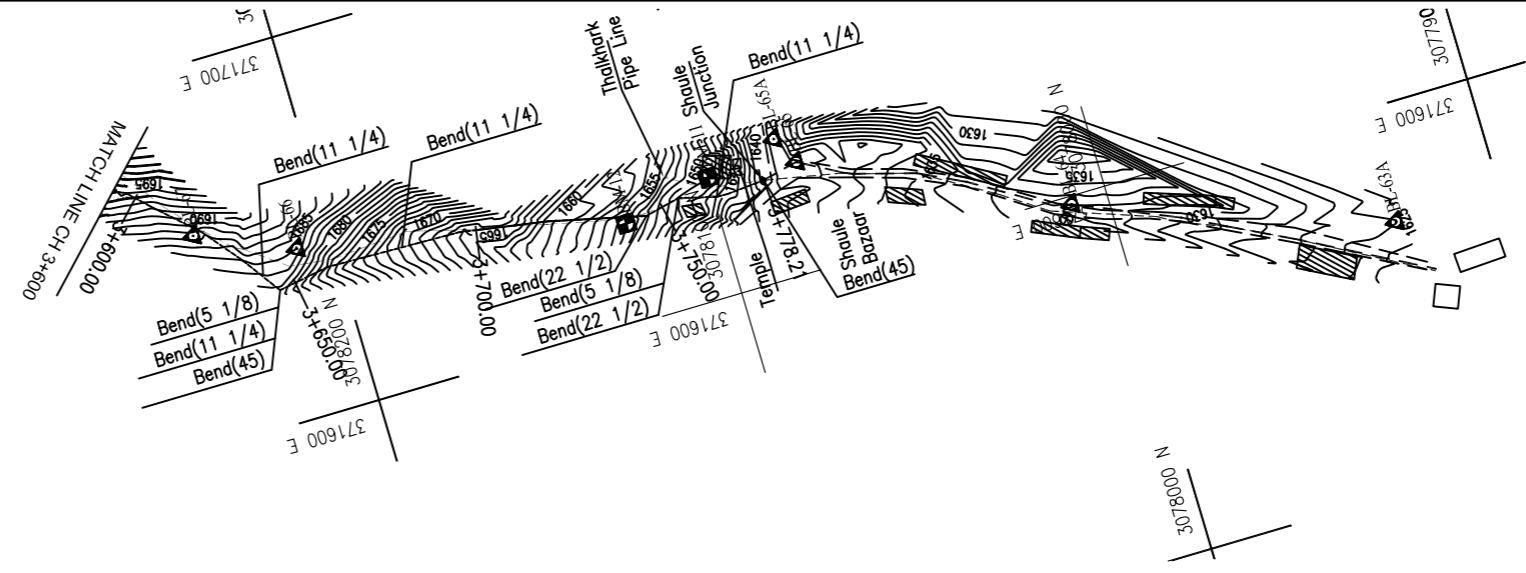
EXISTING LEVEL (m)	1827.795	1825.648	1824.141	1821.829	1823.090	1823.859	1823.692	1823.543	1823.440	1823.600	1824.069	1824.397	1823.827	1821.316	1819.125	1817.491	1816.928	1816.646	1816.754	1817.385	1815.806	1815.541	1814.717	1817.070	1819.951	1822.553	1824.292	1825.161	1825.780	1825.931	1824.425	1818.814	1803.509			
CHAINAGE (km)	1+800.00	1+820.00	1+840.00	1+860.00	1+880.00	1+900.00	1+908.34	1+920.00	1+940.00	1+951.07	1+960.00	1+980.00	2+000.00	2+020.00	2+040.00	2+060.00	2+080.00	2+100.00	2+120.00	2+140.00	2+160.00	2+183.50	2+180.00	2+200.00	2+220.00	2+240.00	2+260.00	2+288.02	2+300.00	2+320.00	2+340.00	2+347.19	2+360.00	2+366.34	2+380.00	2+400.00
PARTIAL DIST. (km)							115.154			42.728				67.342		43.585	20.635			80.867		38.63					85.893		58.037	3.134		19.147				
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1826.109			1821.170	DIP100					1822.781				1823.168	1820.657	1818.466	1816.832	DIP100		1815.987	1815.147	1814.882		1814.058	1816.411	DIP100	1821.894			1825.121	1825.272	1824.725	DIP75	1819.114	1803.809	
STATION NO. (MEASURED CONTROL POINT)				Washout			BL-94			BL-93		Air Valve		BL-92		BL-91	Stream			BL-90		BL-89	Washout			BL-88			BL-87	BPT-2		BL-86				



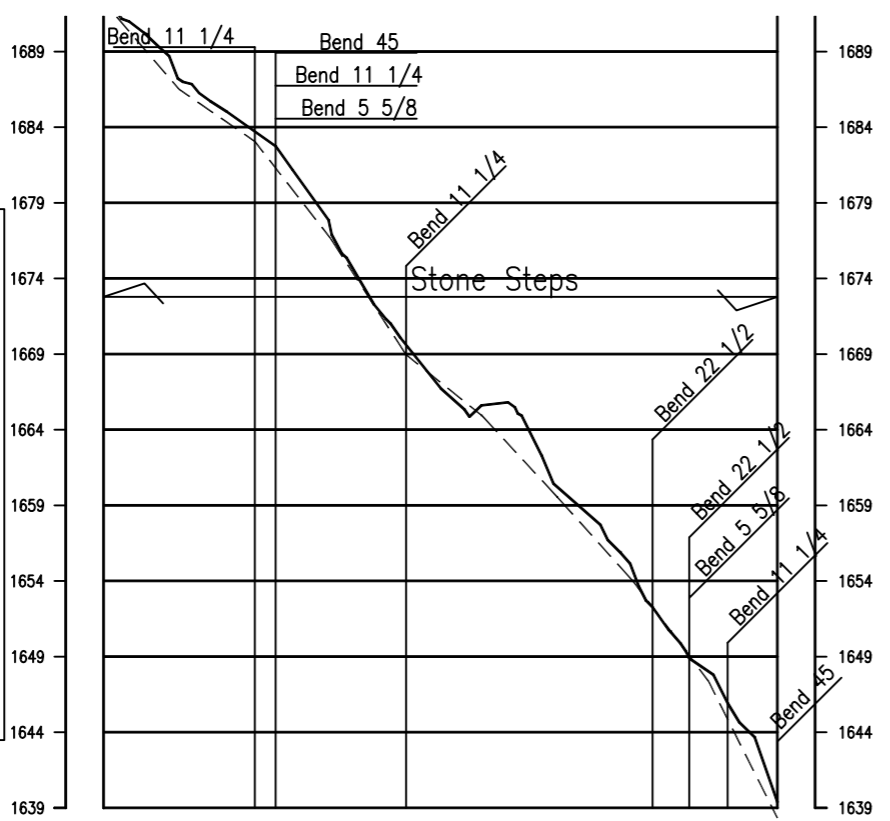
LEGENDS:

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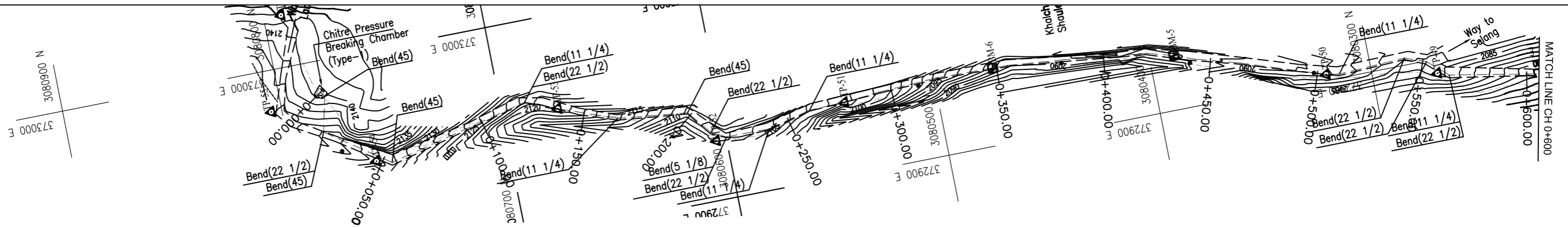
EXISTING LEVEL (m)	1803.509	1797.843	1793.965	1791.195	1788.425	1785.636	1782.911	1782.438	1780.329	1779.189	1777.506	1777.826	1775.100	1774.750	1771.293	1771.032	1767.390	1764.220	1763.251	1763.109	1763.384	1764.339	1763.747	1764.486	1762.310	1763.109	1767.883	1767.568	1761.457	1758.749	1757.928			
CHAINAGE (km)	2+400.00	2+407.14	2+420.00	2+440.00	2+460.00	2+480.00	2+500.00	2+520.00	2+540.00	2+560.00	2+580.00	2+600.00	2+620.00	2+640.00	2+660.00	2+700.00	2+707.70	2+720.00	2+740.00	2+760.00	2+780.00	2+800.00	2+811.91	2+820.00	2+840.00	2+860.00	2+875.50	2+880.00	2+900.00	2+920.00	2+940.00	2+960.00	2+980.00	3+000.00
PARTIAL DIST. (km)	38.059	2.741													249.88	50.678					104.212			63.587	24.012		40.194							
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1803.809	1798.143	1794.285			DIP75	1785.936	1783.211	1782.738	1780.629	1779.489	1776.847	1776.847	1774.441	1774.091	DIP75	1770.634	1770.373	1776.731	1763.561	1762.592	1762.450	1762.725		1763.088	1763.680	1761.651	1762.450	DIP75	1767.224	1766.909	1760.798	1758.090	1757.269
STATION NO. (MEASURED CONTROL POINT)	BM-16	BM-15													BL-85		BL-84						BL-83		BL-82		BL-81		BL-80					



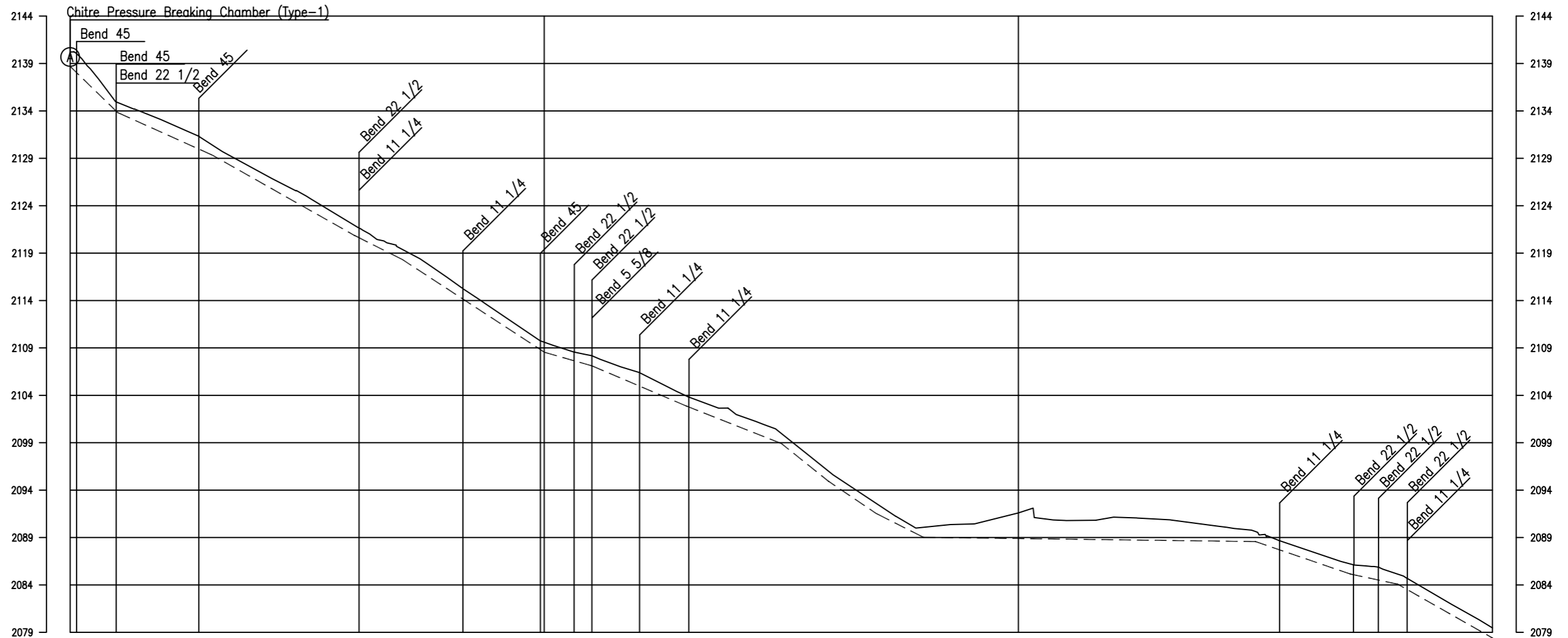
- LEGENDS:**
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 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE



EXISTING LEVEL (m)	1692.953	1687.159	1683.720	1677.316	1669.617	1665.609	1660.210	1654.655	1648.025	1639.389
CHAINAGE (km)	3+600.00	3+628.00	3+640.00	3+654.34	3+660.00	3+680.00	3+700.00	3+720.00	3+739.76	3+760.00
PARTIAL DIST. (km)		28.00	12.00	14.34	6.00	20.00	20.00	20.00	18.76	20.00
PIPE CENTER LEVEL (m)	1692.294	1686.500	1683.061	1676.657	1668.958	1664.950	1659.551	1653.996	1647.366	1638.330
NOMINAL DIAMETER					DIP100					
STATION NO. (MEASURED CONTROL POINT)		BL-67		BL-66				BM-12	BM-11	Shaula Junction



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE



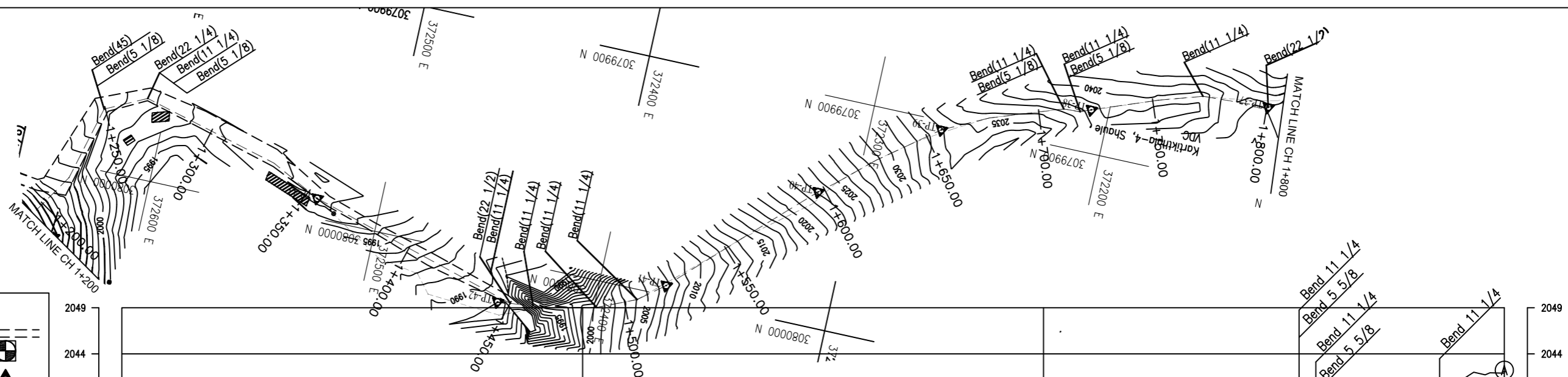
EXISTING LEVEL (m)	2140.205	2134.887	2132.899	2130.391	2127.560	2124.955	2121.915	2119.403	2116.265	2112.840	2109.601	2108.181	2106.410	2103.923	2102.168	2099.978	2095.979	2092.601	2090.080	2090.421	2091.591	2090.795	2091.140	2090.920	2090.331	2089.633	2087.633	2086.211	2085.141	2082.360	2079.464					
CHAINAGE (km)	0+000.00	0+020.00	0+040.00	0+060.00	0+080.00	0+100.00	0+120.00	0+140.00	0+160.00	0+180.00	0+200.00	0+216.02	0+220.00	0+240.00	0+260.00	0+280.00	0+300.00	0+320.00	0+340.00	0+348.25	0+360.00	0+380.00	0+400.00	0+420.00	0+432.82	0+440.00	0+460.00	0+480.00	0+500.00	0+504.12	0+520.00	0+540.00	0+558.94	0+560.00	0+580.00	0+600.00
PARTIAL DIST. (km)	0.000		47.376					90.240				78.402			61.516					70.718				84.570		71.299					54.814					
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	2138.696	2133.828		2129.332	DIP100			2120.856	2118.344		2108.542	2107.122		2102.864	DIP100		2098.919	2094.920	2091.542		2089.021					2088.574	DIP100		2085.152	2084.082			2078.405			
STATION NO. (MEASURED CONTROL POINT)	Chitre Collection Chamber		TP-54					TP-53				TP-52			TP-51					BM-6					BM-5		TP-50				TP-49					

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

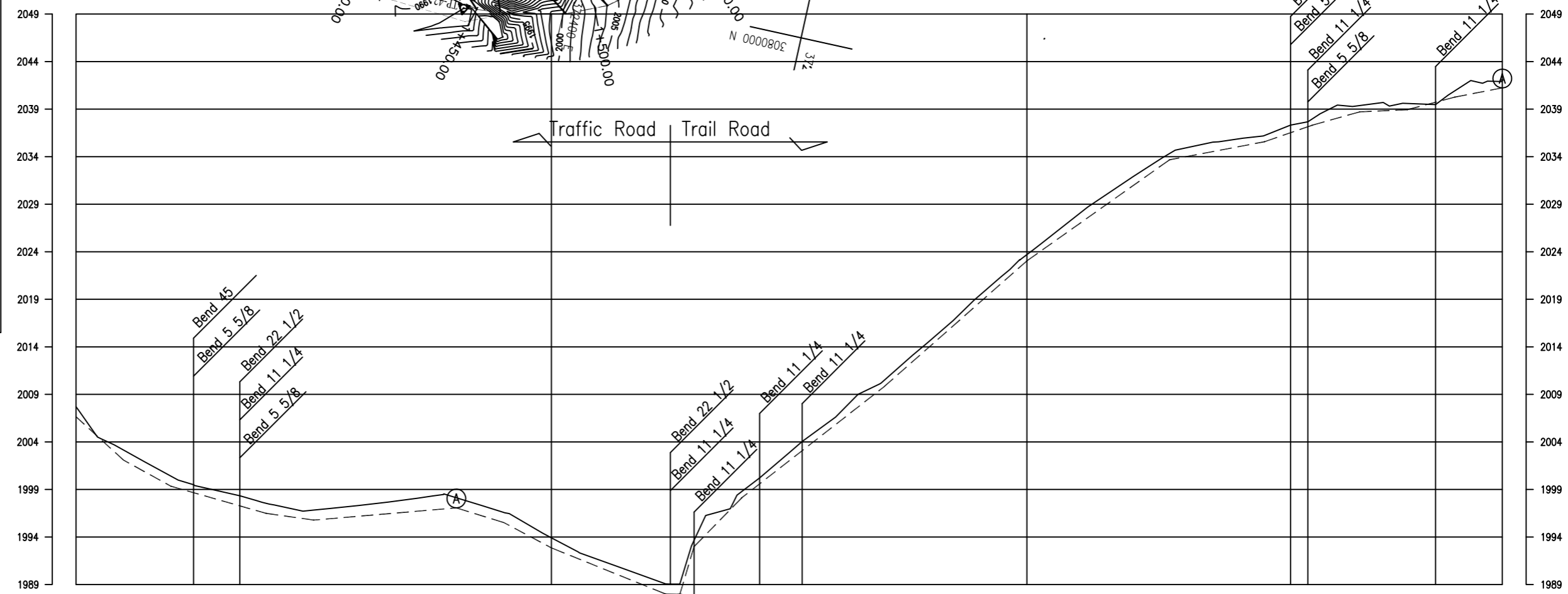
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NOV. 2015
TRANSMISSION PIPELINE
Chitre Chamber - Shaule (1/7)

C-3.1



LEGENDS:

- EXISTING ROAD
- BENCH MARK
- BASELINE
- ELECTRIC POLE
- WATER TAP
- HOUSE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- WALKING TRACK
- MAJOR CONTOUR
- MINOR CONTOUR
- AIR VALVE
- WASHOUT VALVE



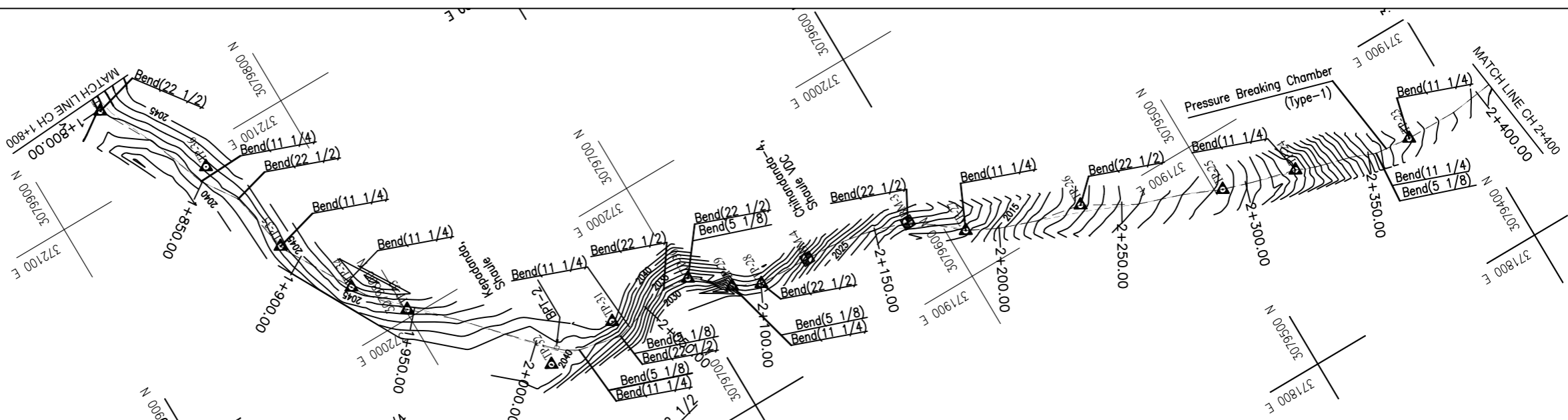
EXISTING LEVEL (m)	2007.705	2003.143	2000.393	1998.842	1997.544	1996.836	1997.353	1997.972	1998.122	1996.573	1993.914	1991.598	1989.794	1989.046	1993.645	1998.771	2002.870	2006.723	2010.479	2014.824	2019.392	2023.698	2027.599	2031.117	2034.328	2035.548	2036.231	2037.964	2039.371	2039.596	2040.920	2041.895		
CHAINAGE (km)	1+200.00	1+220.00	1+240.00	1+260.00	1+280.00	1+300.00	1+320.00	1+340.00	1+354.68	1+360.00	1+380.00	1+400.00	1+420.00	1+440.00	1+444.88	1+460.00	1+480.00	1+500.00	1+519.55	1+520.00	1+540.00	1+560.00	1+580.00	1+600.00	1+640.00	1+656.98	1+680.00	1+700.00	1+720.00	1+740.00	1+760.00	1+780.00	1+800.00	
PARTIAL DIST. (km)									171.361					90.204					74.660						77.463		56.966			66.069				
PIPE CENTER LEVEL (m)	2006.646	2002.084	999.334		1996.485	1995.779			1997.063		1995.514			1988.367	1992.966	1998.112					2009.820			2023.039		2033.669		2035.572	2037.305	2038.712	2038.937	2040.261	2041.236	
NOMINAL DIAMETER				DIP100												DIP100										DIP100								
STATION NO. (MEASURED CONTROL POINT)									TP-43					Road Crossing TP-42										TP-40			TP-39							
									Air Valve						Wasuohit																			

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

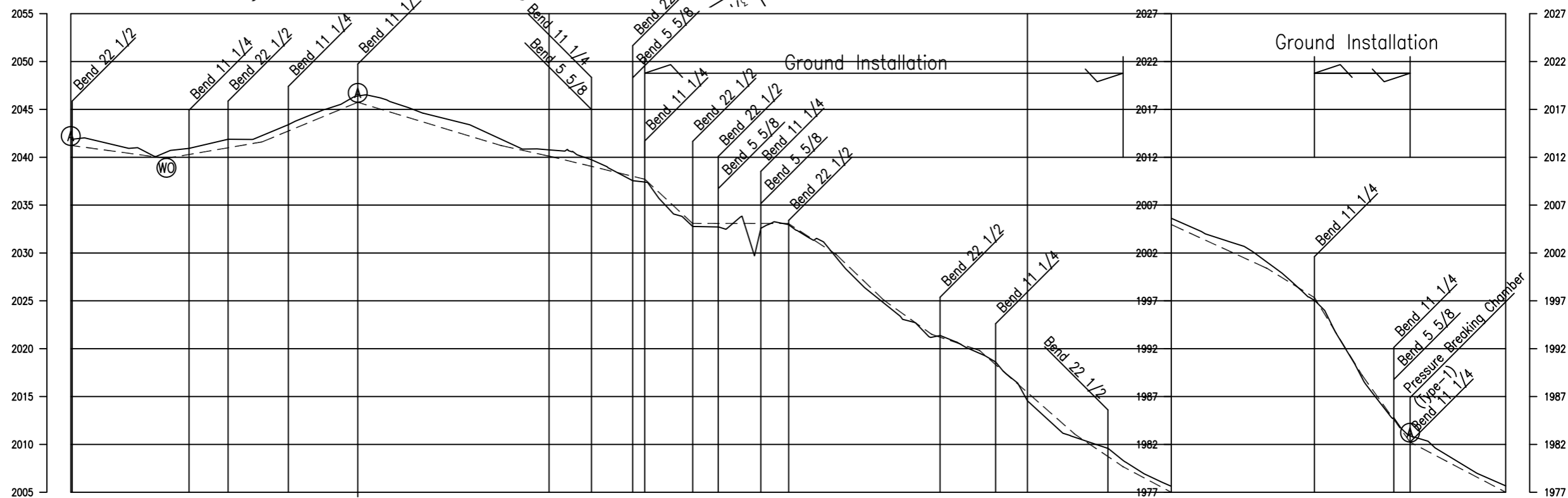
SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

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NOV. 2015
TRANSMISSION PIPELINE
Chitre Chamber - Shaule (3/7)

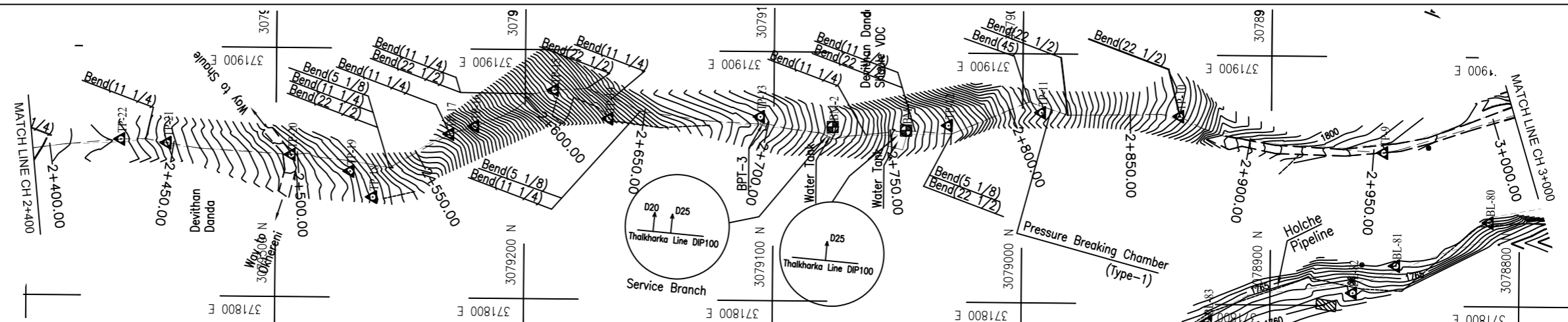
C-3.3



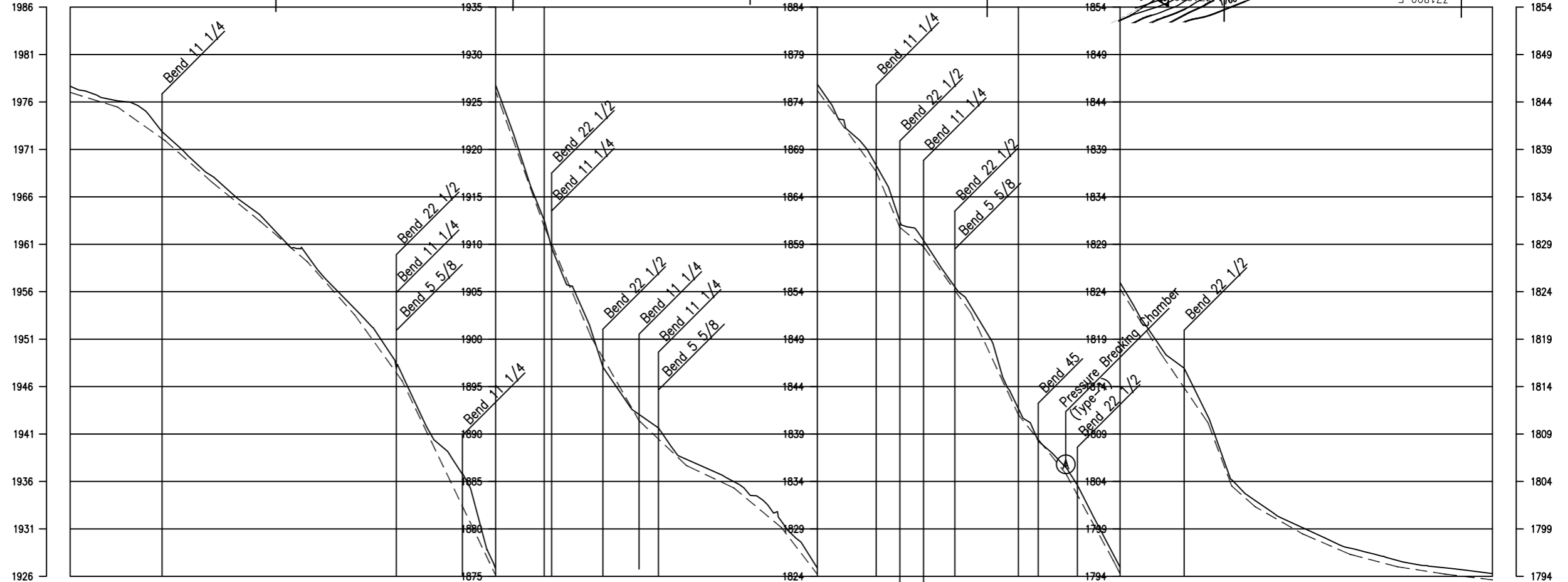
- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
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 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE



EXISTING LEVEL (m)	2041.895	2041.175	2040.543	2041.540	2042.264	2044.384	2046.401	2045.283	2043.816	2041.873	2040.772	2039.484	2037.407	2032.783	2033.757	2032.968	2029.549	2024.762	2021.199	2019.510	2014.563	2010.735	2008.332	2005.643	2003.540	2001.075	1997.045	1988.909	1982.901	1980.192	1977.665	
CHAINAGE (km)	1+800.00 1+800.61	1+820.00	1+840.00 1+847.29	1+860.00	1+880.00	1+890.96 1+900.00	1+920.00 1+923.43	1+940.00 1+947.28	1+960.00	1+980.00	2+000.00	2+007.77	2+020.00	2+033.59 2+040.00	2+060.00	2+070.70 2+080.00	2+088.52 2+100.00	2+120.00 2+120.82	2+140.00	2+160.00 2+163.47	2+180.00 2+186.71	2+200.00	2+220.00	2+233.64 2+240.00	2+260.00	2+280.00	2+290.56 2+300.00	2+320.00 2+320.44	2+340.00	2+360.00 2+367.53	2+380.00	2+400.00
PARTIAL DIST. (km)	77.469		46.680			43.677	32.464	23.856				60.484	25.820		37.118	17.819	11.653	20.644		42.650	23.235		46.932			56.926	29.873		47.096			
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	2041.236		2039.884		2041.605		2044.342	2043.224		2040.814			2037.707		2033.268		2033.268	2029.849		2021.499	2019.810		2010.076		2004.984		2000.416	1997.345	1989.209	1982.242		1977.006
STATION NO. (MEASURED CONTROL POINT)	TP-37		Washout TP-36		TP-35		Air Valve TP-34	TP-33				BPT-2 TP-32	TP-31		TP-30	TP-29	TP-28	BM-4		BM-3	TP-27		TP-26			TP-25	TP-24		PBC (1) TP-23			



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
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 - WASHOUT VALVE



EXISTING LEVEL (m)	CHAINAGE (km)	PARTIAL DIST. (km)	PIPE CENTER LEVEL (m)	NOMINAL DIAMETER	STATION NO. (MEASURED CONTROL POINT)
1977.665	2+400.00		1977.006		
1976.123	2+420.00		1975.464		TP-22
1972.595	2+428.60	61.071	1971.936		TP-21
1968.172	2+440.00	18.760	1967.513		
1964.113	2+447.36		1963.454		Road Edge
1959.831	2+460.00	46.744	1959.172		TP-20 (Road Edge)
1954.223	2+494.11	3.447	1953.564	DIP100	
1947.279	2+500.00	24.754	1946.620		TP-19
1938.870	2+533.08	10.775	1946.620		TP-18
1926.422	2+540.00		1938.870		TP-17
1912.533	2+560.00	32.376	1912.533		TP-16
1900.765	2+565.46	10.403	1911.874		TP-15
1892.069	2+575.86	35.964	1900.106		
1887.332	2+580.00		1891.410		TP-14
1884.975	2+600.00	26.303	1886.673		
1880.810	2+611.83		1884.316		TP-13
1874.156	2+620.00	58.437	1880.151	DIP100	BPT-3
1867.325	2+638.13	1.166	1866.667		BM-2 Water Tank
1861.443	2+660.00		1866.667		Water Tank
1859.390	2+720.00	26.965	1861.443		BM-1
1852.431	2+724.70		1858.731		TP-12
1841.683	2+740.00		1851.772		
1835.483	2+773.22	16.866	1841.024		TP-11
1826.165	2+780.00	41.402	1834.824		PBC (1)
1818.183	2+814.62		1825.506		
1810.833	2+820.00		1817.524		TP-10
1804.182	2+860.00	55.326	1810.174		
1801.976	2+869.95		1803.523		
1799.120	2+880.00		1801.317	DIP100	
1796.969	2+900.00		1798.461		
1795.662	2+920.00		1796.310		TP-9
1794.896	2+940.00		1795.003		
1794.287	2+954.12	84.168	1794.237		
	2+960.00		1793.628		
	2+980.00				
	3+000.00				

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

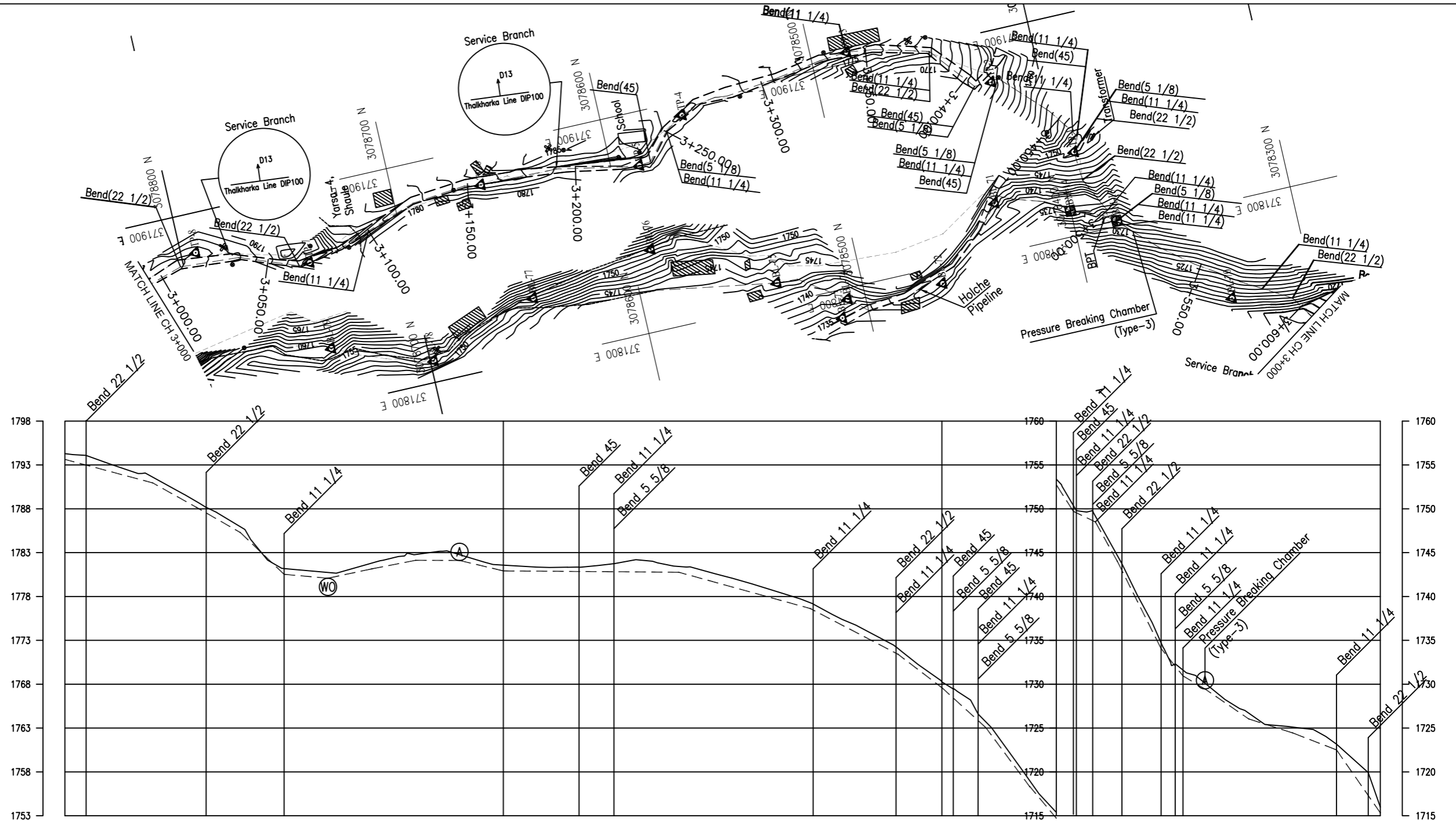
SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

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NOV. 2015

TRANSMISSION PIPELINE
Chitre Chamber - Shaule (5/7)

C-3.5

- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
 - WASHOUT VALVE



EXISTING LEVEL (m)	1794.287	1793.154	1791.615	1788.825	1785.953	1781.187	1780.741	1781.810	1782.784	1782.766	1781.577	1781.317	1781.455	1782.180	1781.424	1780.362	1778.924	1777.283	1774.812	1772.071	1766.265	1763.721	1757.027	1750.364	1749.164	1744.679	1734.720	1731.599	1730.120	1726.694	1725.109	1723.167	1715.985										
CHAINAGE (km)	3+000.00	3+020.00	3+040.00	3+060.00	3+069.39	3+080.00	3+100.00	3+120.00	3+140.00	3+156.13	3+160.00	3+180.00	3+200.00	3+220.00	3+229.18	3+240.00	3+260.00	3+280.45	3+280.00	3+300.00	3+320.00	3+340.00	3+341.27	3+360.00	3+380.00	3+400.00	3+413.09	3+420.00	3+440.00	3+460.00	3+461.65	3+468.80	3+480.00	3+489.65	3+500.00	3+506.43	3+520.00	3+540.00	3+560.00	3+568.83	3+580.00	3+600.00	
PARTIAL DIST. (km)		63.404			51.868						86.742				73.054			31.266				80.816					71.827				48.557	7.145		20.853		11.598	5.186				62.402		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	1793.628		1790.956	DIP100	1785.294	1780.528	1780.082	1781.151	1782.125	1782.107	1780.918			1776.624	1771.412	1767.606	1763.062	1756.368	1749.705	1748.505	1744.020	1734.061	1730.940	1729.461	1726.035	1724.450	1722.508	1715.326															
STATION NO. (MEASURED CONTROL POINT)		TP-8			TP-7		Washout		TP-6	Air Valve		TP-5		TP-4				TP-3			TP-2		Transformer	TP-1	BM-14	BPT	BM-13	PBC (3)															

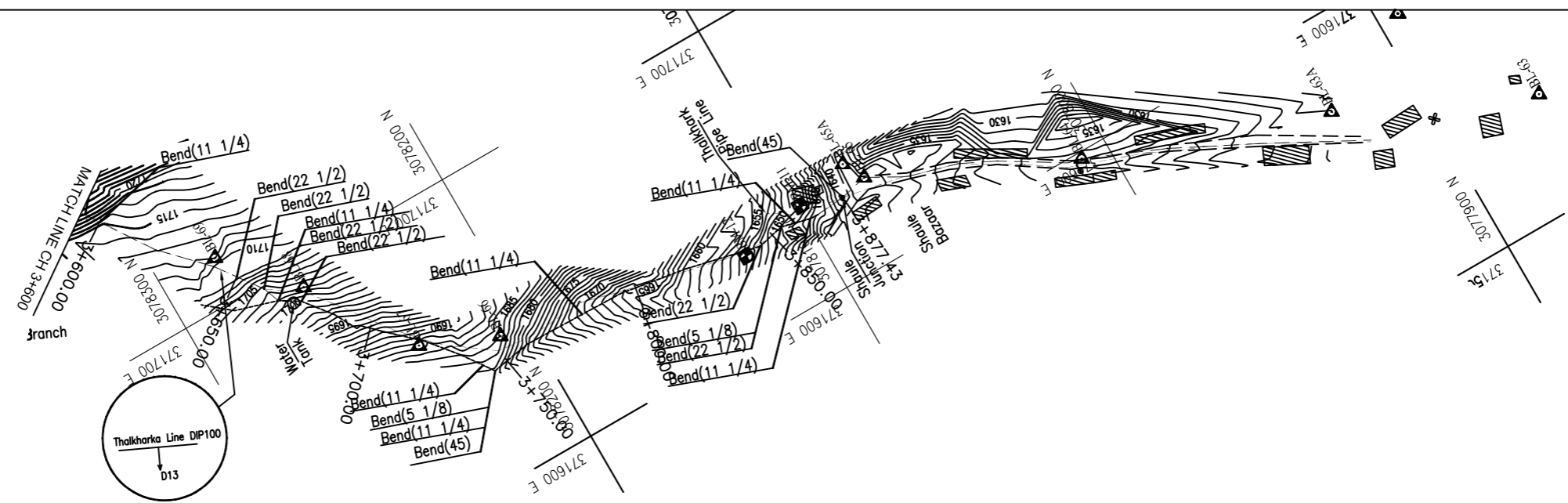
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

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NOV. 2015

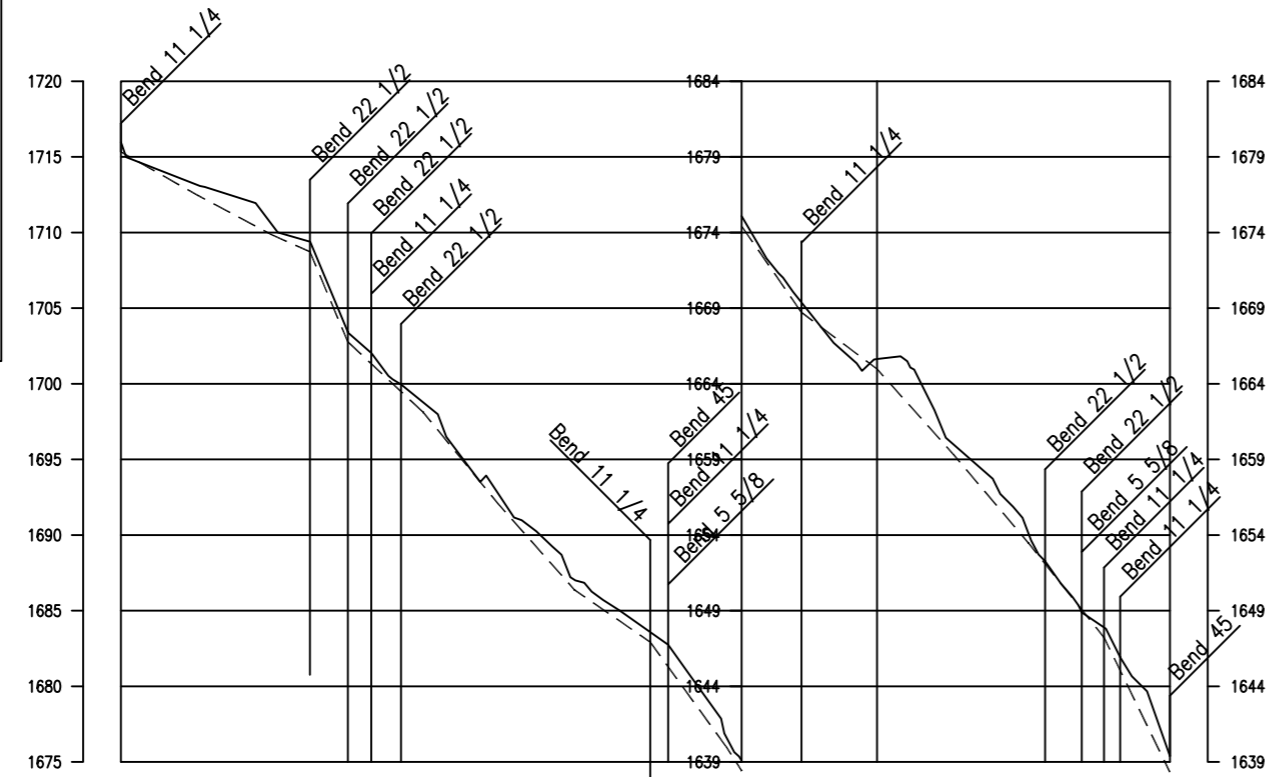
TRANSMISSION PIPELINE
Chitre Chamber - Shaule (6/7)

C-3.6



LEGENDS:

EXISTING ROAD	
BENCH MARK	
BASELINE	
ELECTRIC POLE	
WATER TAP	
HOUSE	
EXISTING PIPELINE	
PROPOSED PIPELINE	
WALKING TRACK	
MAJOR CONTOUR	
MINOR CONTOUR	
AIR VALVE	
WASHOUT VALVE	



EXISTING LEVEL (m)	1715.985	1713.159	1710.496	1709.389	1703.436	1698.764	1692.659	1687.030	1682.582	1676.693	1669.372	1665.632	1660.039	1654.142	1647.893	1639.389				
CHAINAGE (km)	3+600.00	3+620.00	3+640.00	3+641.10	3+660.00	3+674.15	3+680.00	3+700.00	3+720.00	3+740.00	3+753.56	3+760.00	3+780.00	3+800.00	3+820.00	3+838.08	3+840.00	3+860.00	3+862.16	3+877.43
PARTIAL DIST. (km)			72.266			33.054			43.292		36.200				85.420			23.18		15.273
PIPE CENTER LEVEL (m)	1715.326	1712.500	1709.837	1708.730	1702.777	1698.105	1692.000	1686.371	1682.923	1676.034	1668.713	1664.973	1659.380	1653.483	1647.234	1638.330				
NOMINAL DIAMETER						DIP100														
STATION NO. (MEASURED CONTROL POINT)			BL-69			BL-68		BL-67		BL-66				BM-12		BM-11	Shoule Junction			

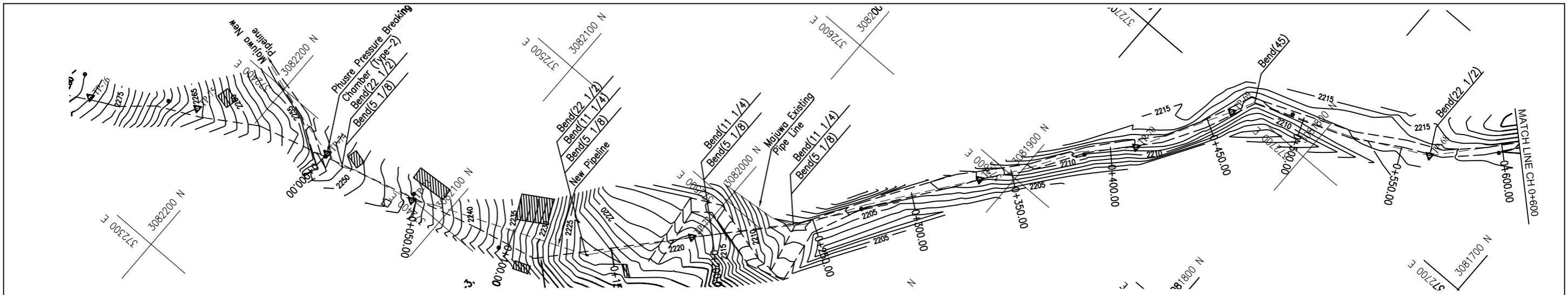
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

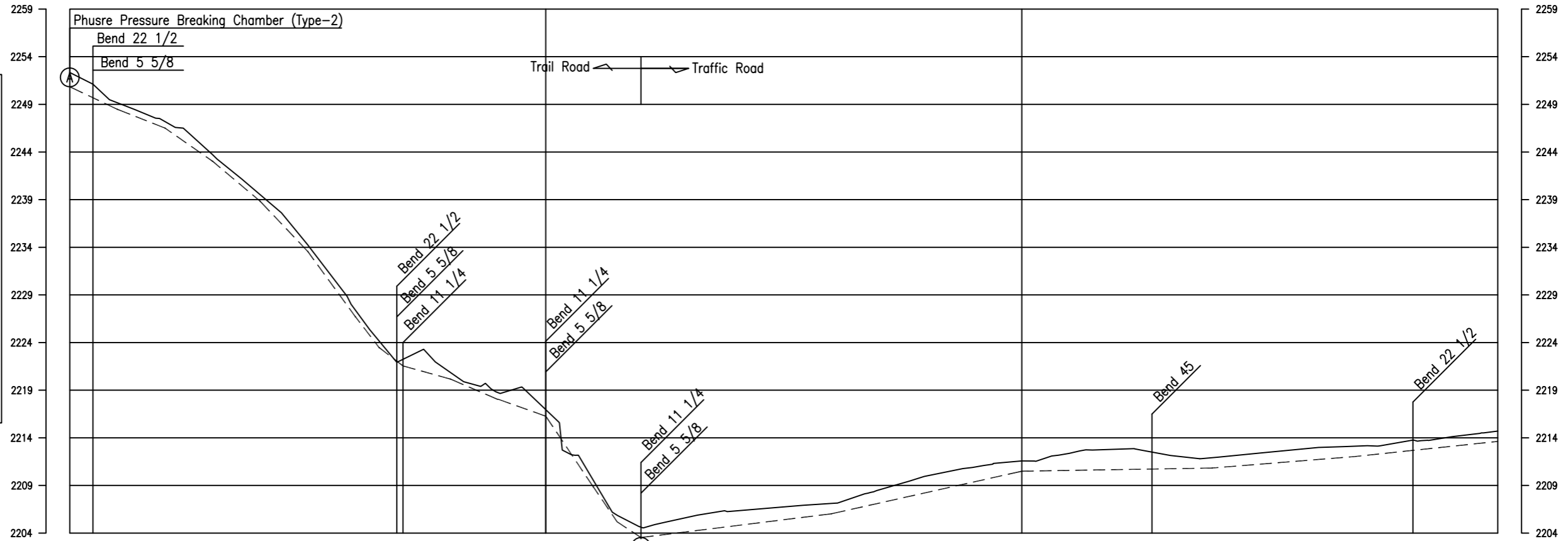
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NOV. 2015

TRANSMISSION PIPELINE
Chitre Chamber - Shoule (7/7)

C-3.7



- LEGENDS:**
- EXISTING ROAD
 - BENCH MARK
 - BASELINE
 - ELECTRIC POLE
 - WATER TAP
 - HOUSE
 - EXISTING PIPELINE
 - PROPOSED PIPELINE
 - WALKING TRACK
 - MAJOR CONTOUR
 - MINOR CONTOUR
 - AIR VALVE
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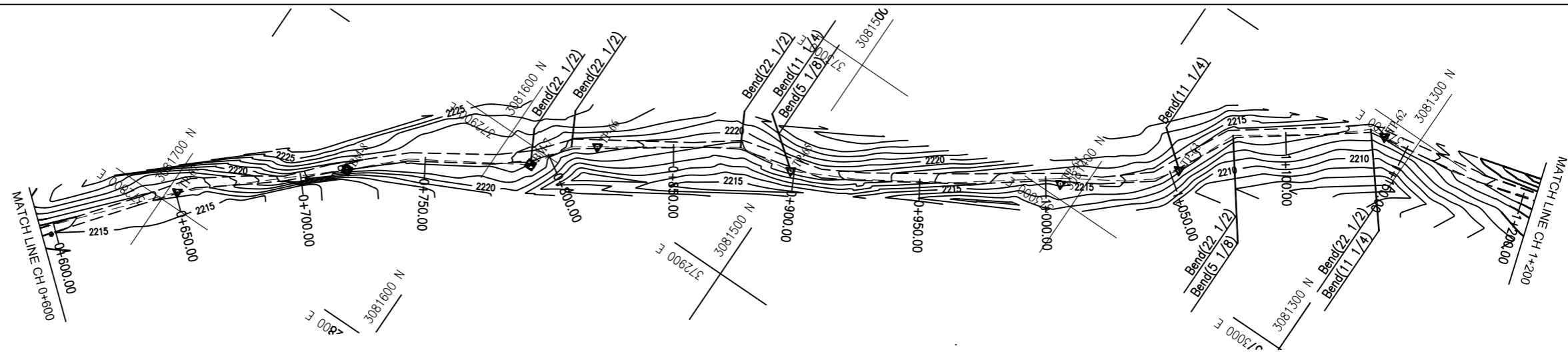
EXISTING LEVEL (m)	2252.348	2249.165	2247.198	2243.718	2239.514	2234.247	2227.404	2224.155	2222.237	2220.847	2218.736	2216.957	2209.528	2205.864	2204.623	2205.682	2206.337	2206.753	2207.111	2208.536	2209.996	2210.923	2211.579	2212.369	2212.801	2212.263	2211.915	2212.404	2212.876	2213.122	2213.573	2214.087	2214.709						
CHAINAGE (km)	0+000.00	0+020.00	0+040.00	0+047.89	0+060.00	0+080.00	0+100.00	0+120.00	0+140.00	0+160.00	0+174.63	0+180.00	0+189.91	0+200.00	0+206.93	0+213.67	0+220.00	0+240.00	0+260.00	0+280.00	0+300.00	0+320.00	0+334.02	0+340.00	0+360.00	0+380.00	0+400.00	0+412.60	0+420.00	0+440.00	0+460.00	0+480.00	0+500.00	0+520.00	0+540.00	0+560.00	0+564.35	0+580.00	0+600.00
PARTIAL DIST. (km)	0.000		47.890								126.738	6.216	9.062	17.025	6.757						120.327			78.583		49.859									101.888				
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	2250.848	2248.480	2246.513	2243.033	DIP 150	2238.829	2233.562	2226.719	2223.347	2221.237	2220.162	2218.051	2216.272	2213.67	2208.843	2205.179	2203.538	DIP 150	2206.026					2210.494		78.583		49.859				2210.830	DIP 150					2213.624	
STATION NO. (MEASURED CONTROL POINT)	TP-74 Junction of Pipeline and Mojuna			TP-73								Road Edge	Road Edge	TP-72	Road Edge	Road Edge	Washout				TP-71				TP-70		TP-69								TP-68				

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

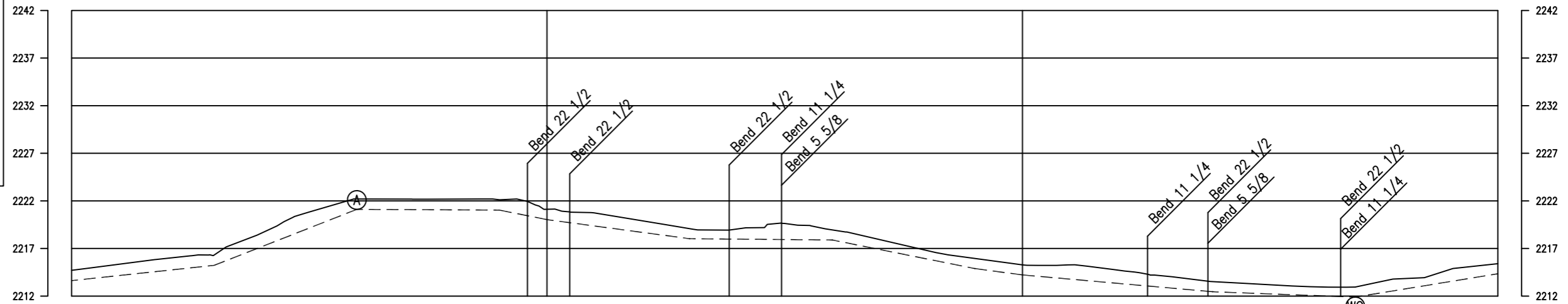
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DEC. 2015
TRANSMISSION PIPELINE
Phusre Chamber - Chitre Chamber (1/3)

C-4.1



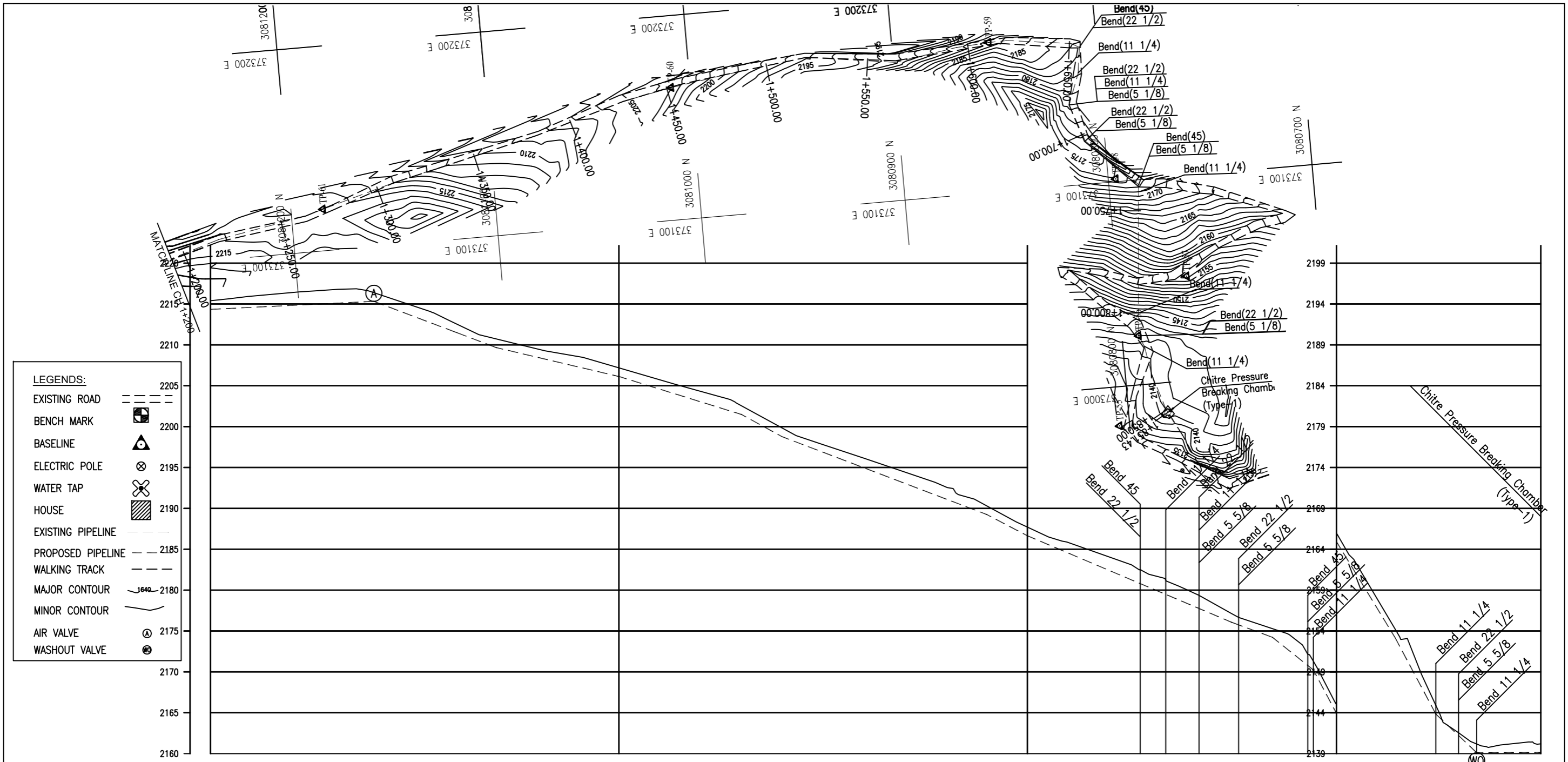
LEGENDS:

- EXISTING ROAD
- BENCH MARK
- BASELINE
- ELECTRIC POLE
- WATER TAP
- HOUSE
- EXISTING PIPELINE
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- WASHOUT VALVE



EXISTING LEVEL (m)	2214.709	2215.348	2215.963	2216.318	2218.629	2220.836	2222.194	2222.188	2222.190	2222.118	2221.117	2220.736	2219.912	2219.086	2219.052	2219.632	2218.953	2217.931	2216.774	2215.952	2215.284	2215.280	2214.736	2214.100	2213.517	2213.249	2212.991	2212.949	2213.835	2214.811	2215.407									
CHAINAGE (km)	0+600.00	0+620.00	0+640.00	0+650.65	0+660.00	0+680.00	0+700.00	0+718.57	0+720.00	0+740.00	0+760.00	0+780.00	0+791.78	0+800.00	0+818.88	0+820.00	0+840.00	0+860.00	0+880.00	0+888.67	0+888.80	0+920.00	0+940.00	0+960.00	0+980.00	1+000.00	1+005.72	1+020.00	1+040.00	1+053.66	1+060.00	1+080.00	1+100.00	1+120.00	1+140.00	1+140.82	1+160.00	1+180.00	1+200.00	
PARTIAL DIST. (km)				86.301				67.921					73.213		28.101				78.791							47.944									86.358					
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	2213.824			2215.233	DIP150		2221.109			2221.033		2220.032		DIP100		2218.027			2217.894			2214.893	2214.225	107.047							2212.458	DIP100		2211.890			2214.348			
STATION NO. (MEASURED CONTROL POINT)				TP-67			BM-8 Air Valve					BM-7			TP-66				TP-65				TP-64			TP-63								Washout TP-62						

THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL	SUB PROJECT PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA	H 1:2000 V 1:500 DEC. 2015	TRANSMISSION PIPELINE Phusre Chamber - Chitre Chamber (2/3)	C-4.2

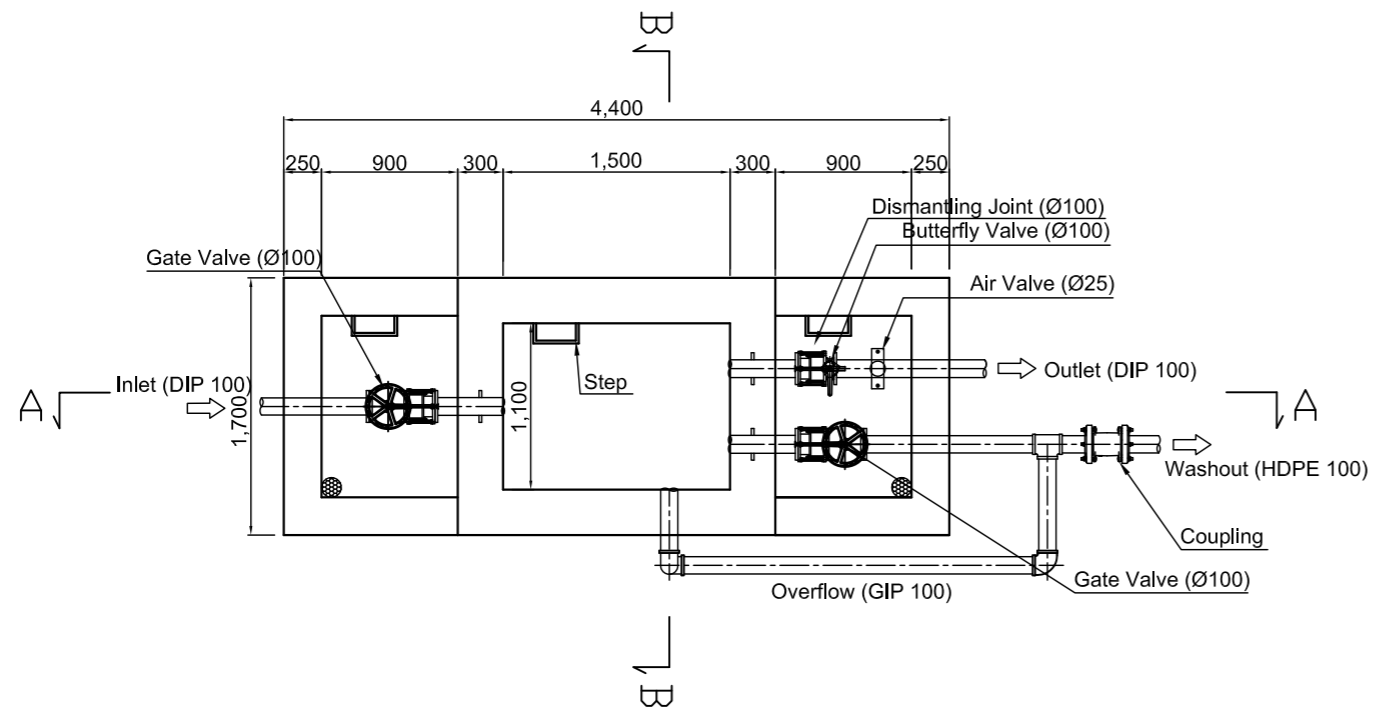


LEGENDS:

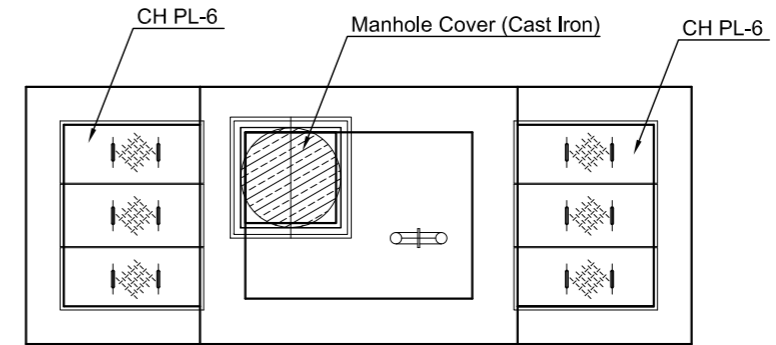
EXISTING ROAD	---
BENCH MARK	⊠
BASELINE	▲
ELECTRIC POLE	⊗
WATER TAP	⊕
HOUSE	▨
EXISTING PIPELINE	---
PROPOSED PIPELINE	---
WALKING TRACK	---
MAJOR CONTOUR	—
MINOR CONTOUR	—
AIR VALVE	⊙
WASHOUT VALVE	⊙

EXISTING LEVEL (m)	2215.407	2215.957	2216.406	2216.757	2216.386	2214.717	2212.616	2210.726	2209.509	2208.581	2207.193	2205.732	2204.319	2202.548	2199.819	2197.801	2196.141	2194.443	2192.635	2190.324	2187.711	2185.827	2184.066	2181.908	2179.825	2177.128	2175.290	2171.304	2162.688	2154.263	2144.899	2140.176	2140.282	2140.205						
CHAINAGE (km)	1+200.00	1+220.00	1+240.00	1+260.00	1+271.46	1+280.00	1+300.00	1+320.00	1+340.00	1+360.00	1+400.00	1+420.00	1+440.00	1+452.08	1+460.00	1+480.00	1+500.00	1+520.00	1+540.00	1+560.00	1+580.00	1+600.00	1+610.32	1+620.00	1+640.00	1+660.00	1+680.00	1+700.00	1+720.00	1+726.66	1+738.20	1+748.00	1+760.00	1+780.00	1+800.00	1+811.14	1+820.00	1+840.00	1+848.57	1+857.43
PARTIAL DIST. (km)					131.439									180.617								158.245							116.338	11.537		43.757		29.182			37.431	2.863		
PIPE CENTER LEVEL (m) NOMINAL DIAMETER	2174.348				2215.327 DIP100		2211.557	2209.667			2206.134			2201.489	2198.760 DIP100					2189.265	2186.652						2176.069	2174.231			2170.245 DIP100	2155.204	2143.840			2139.117		2139.546		
STATION NO. (MEASURED CONTROL POINT)					TP-61 Air Valve									TP-60								TP-59						TP-58 Road Edge					TP-57		TP-56 Washout			TP-55 Chitre Collection Chamber		

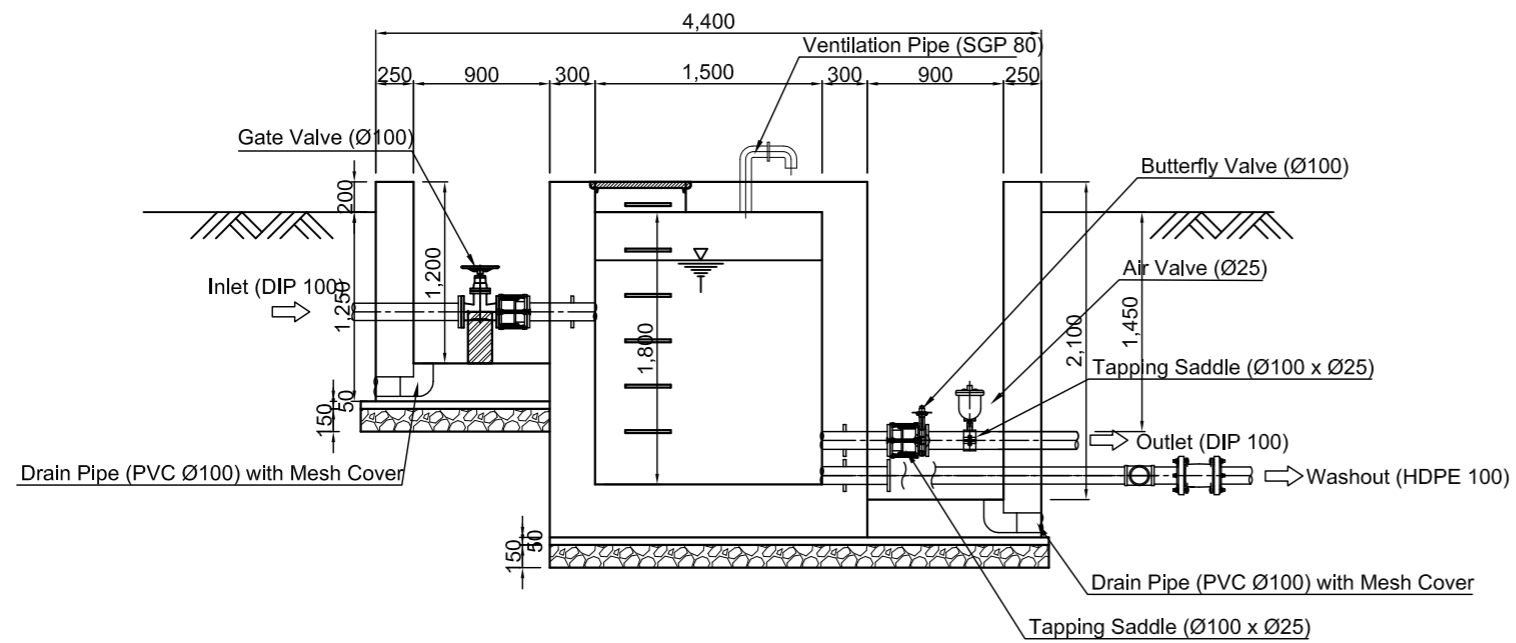
THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL	SUB PROJECT PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA	H 1:2000 V 1:500 DEC. 2015	TRANSMISSION PIPELINE Phusre Chamber - Chitre Chamber (3/3)	C-4.3



PLAN



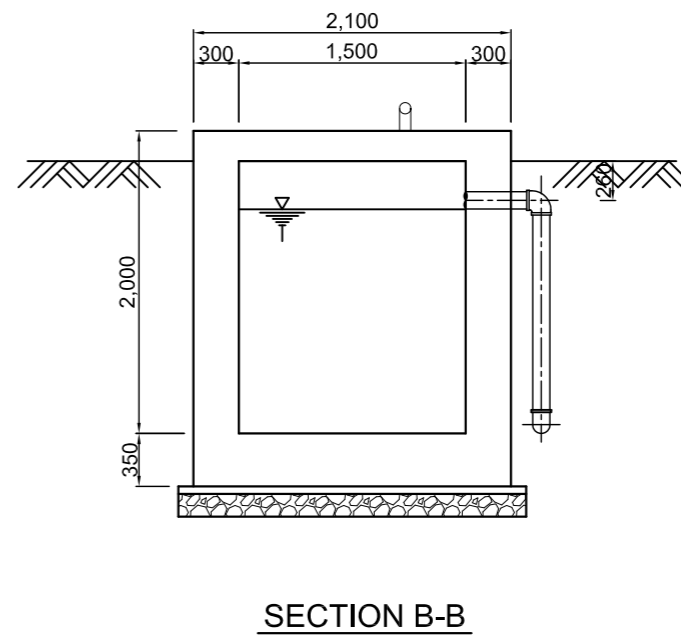
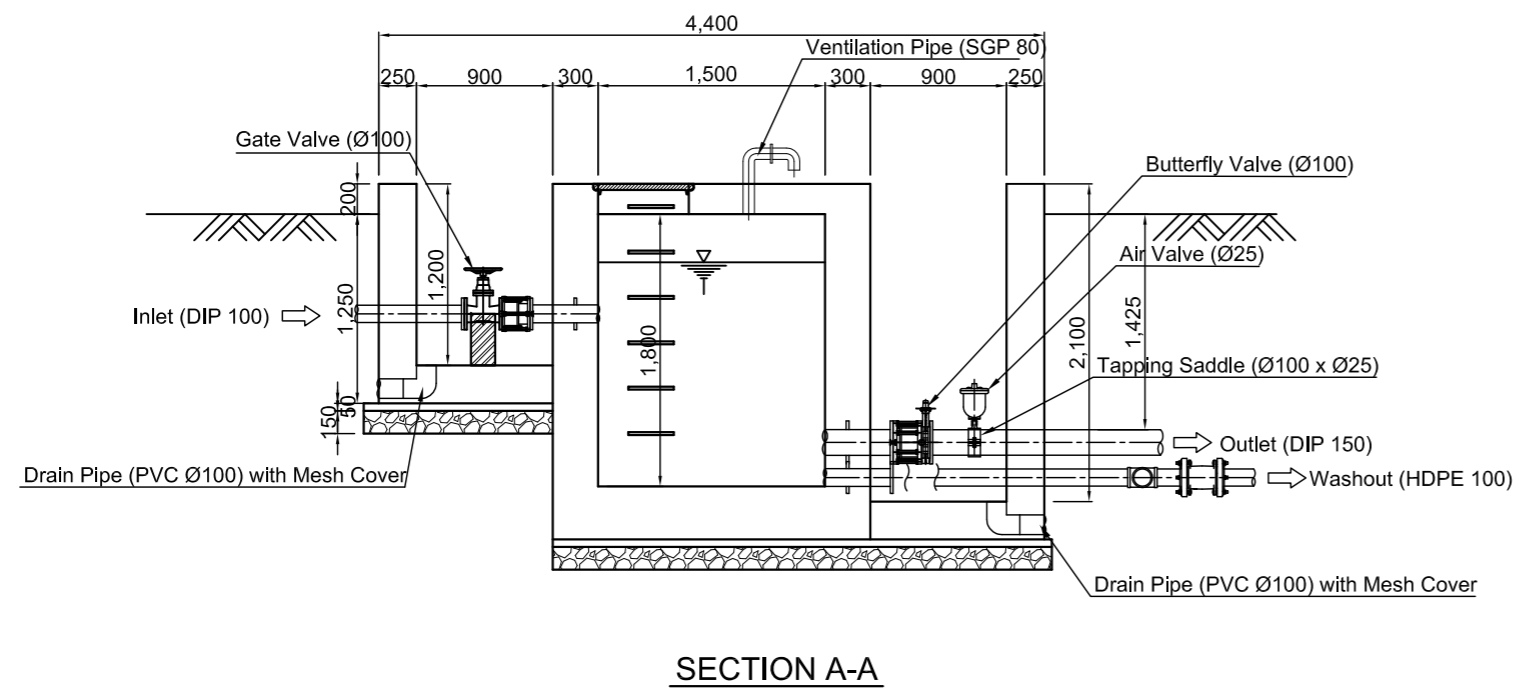
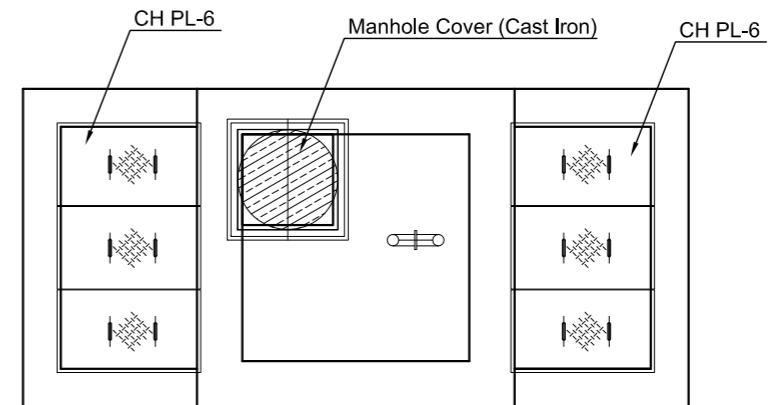
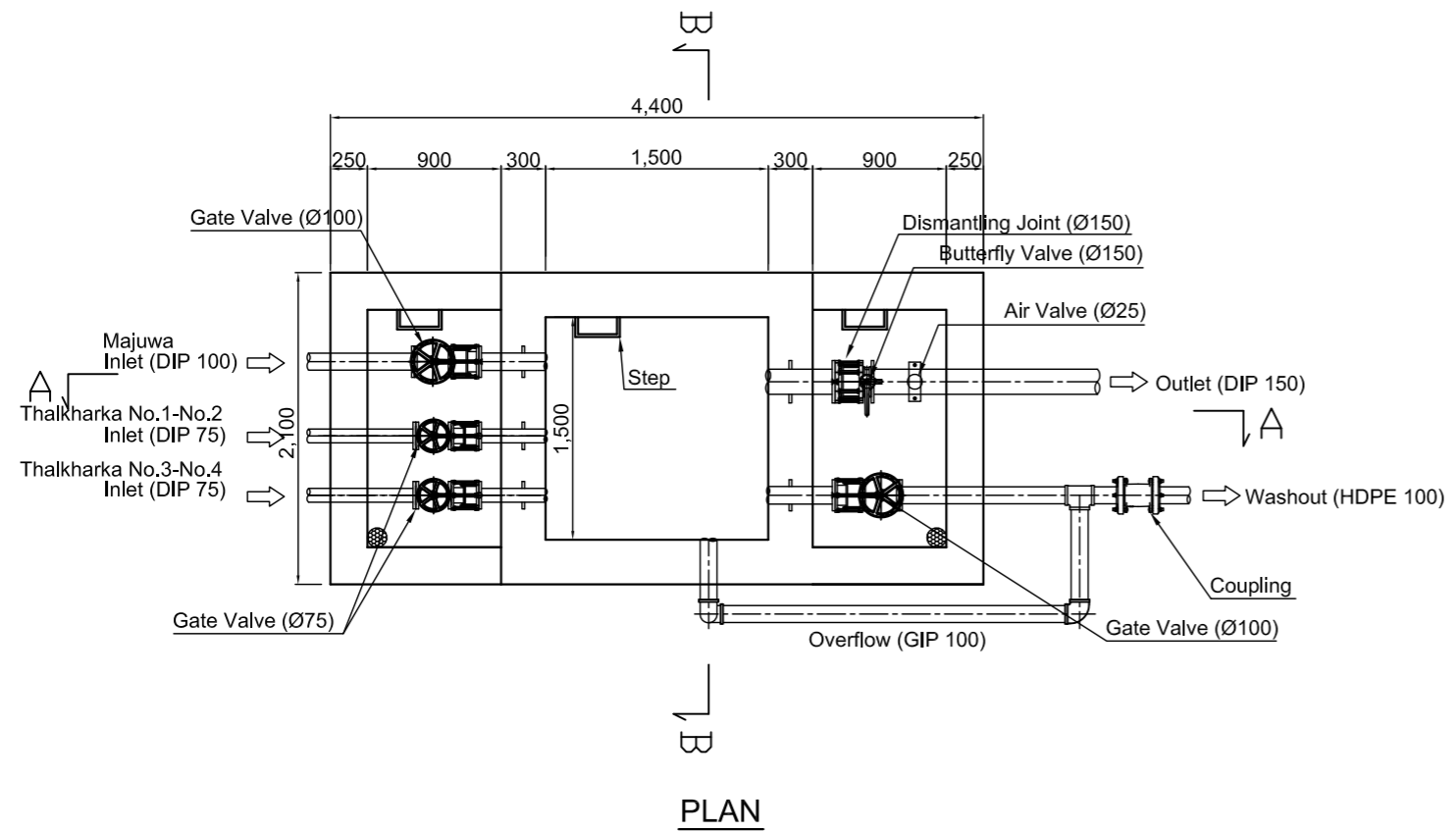
SECTION A-A



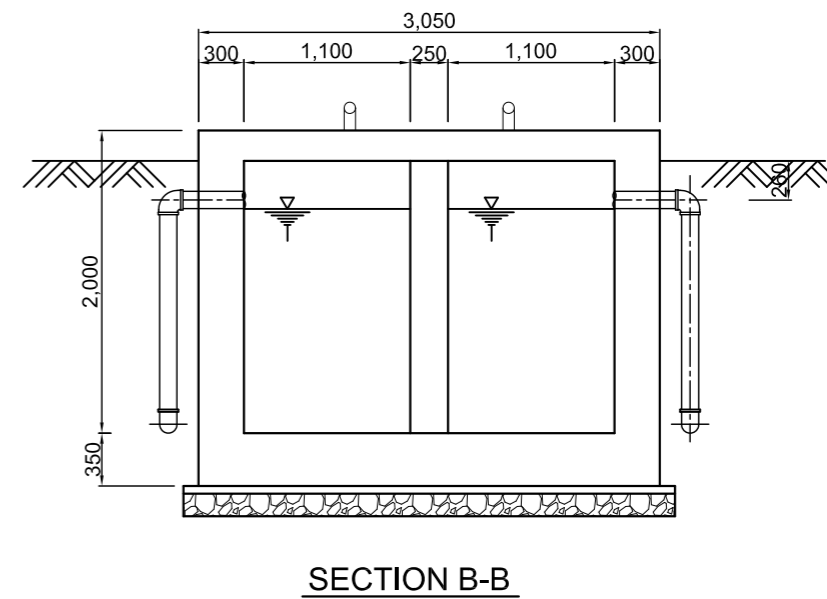
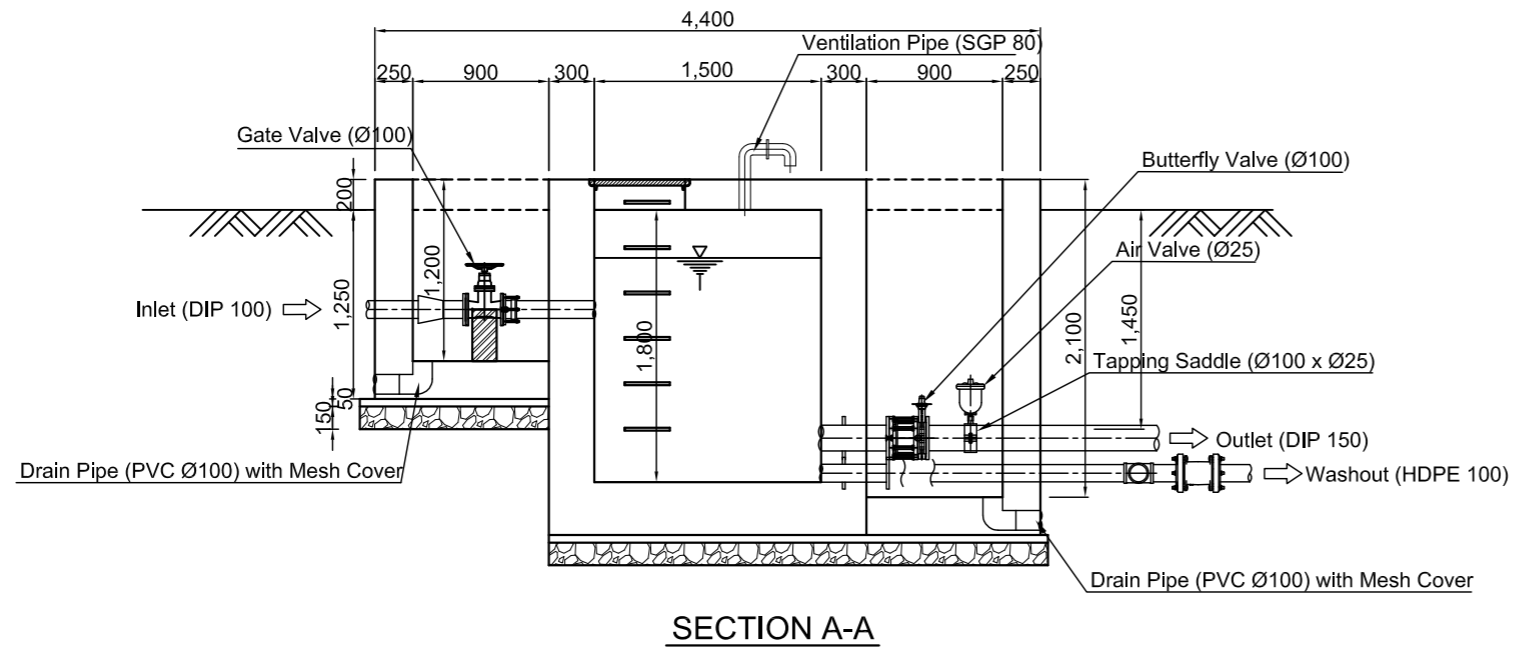
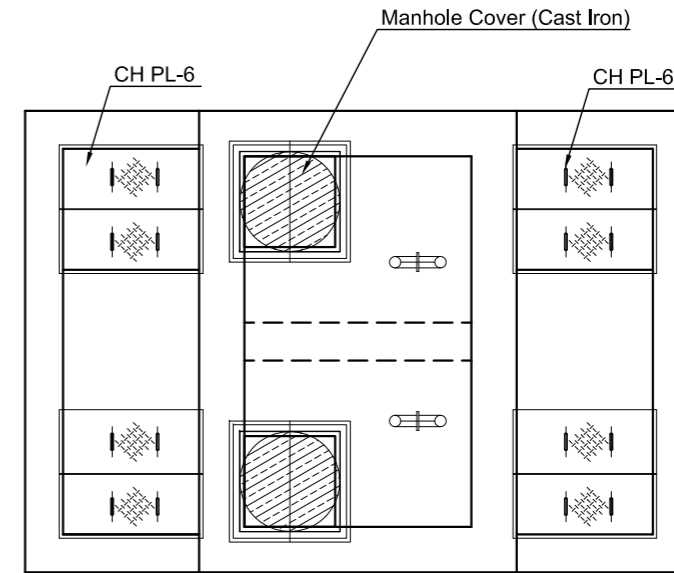
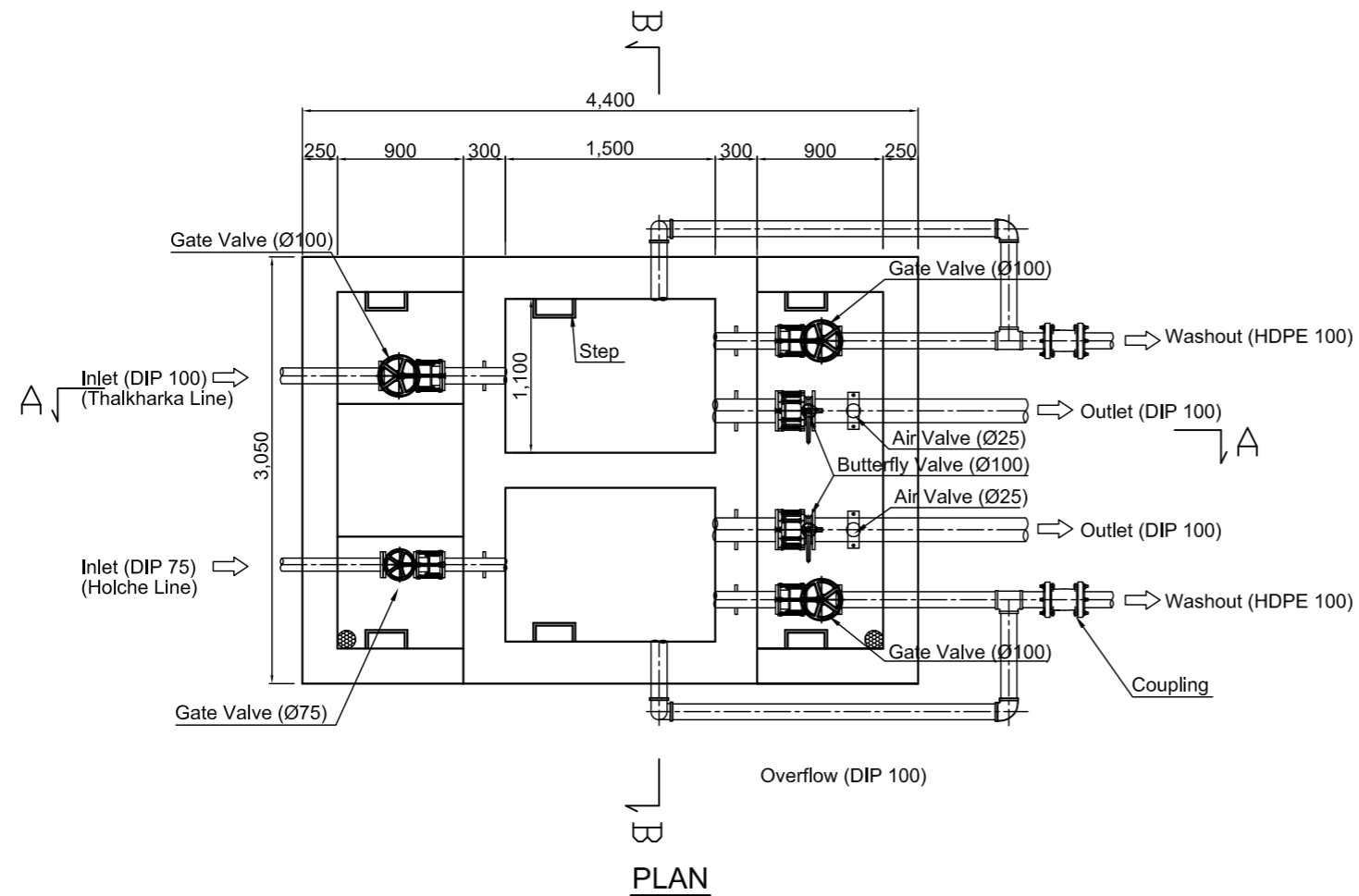
SECTION B-B

Note: The outlet diameter of the Holche Pressure Breaking Chamber shall be of 75mm.

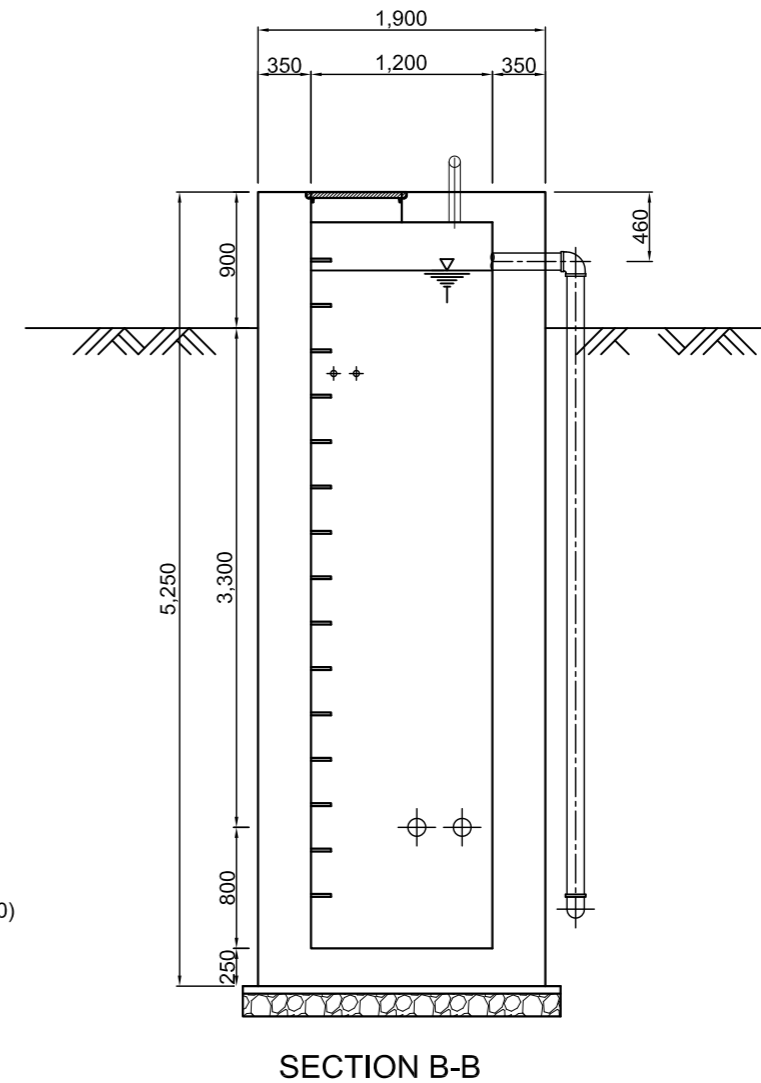
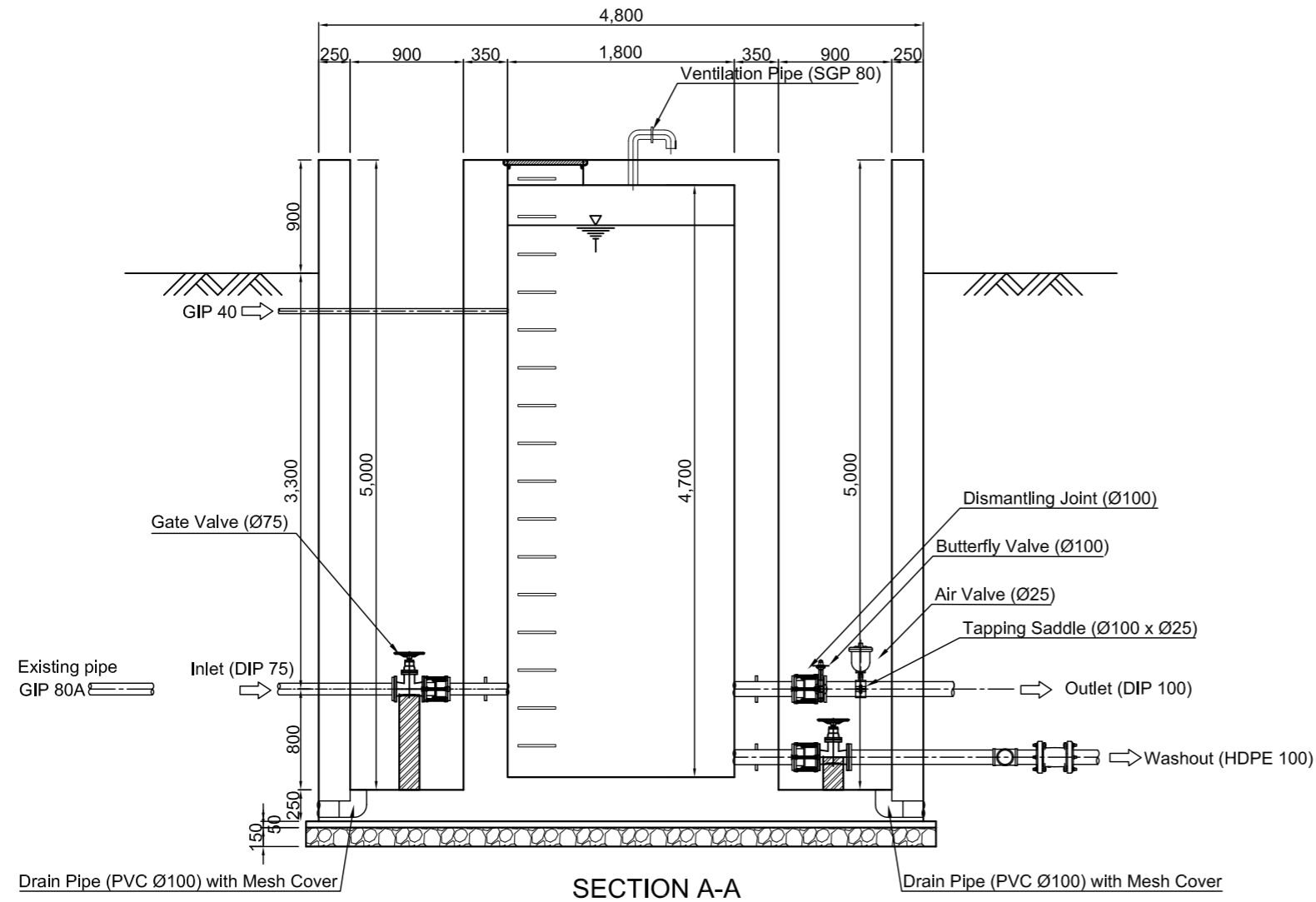
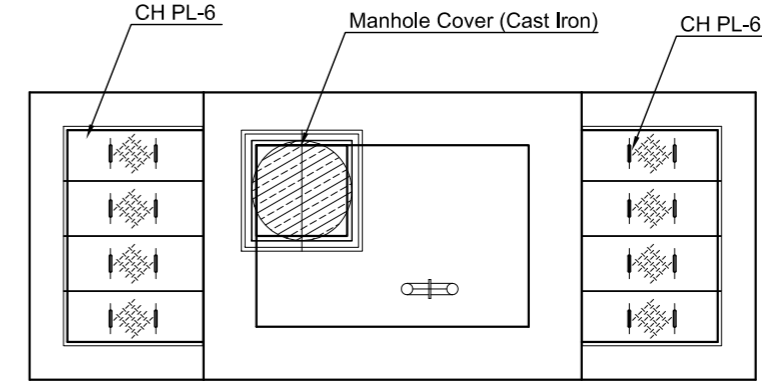
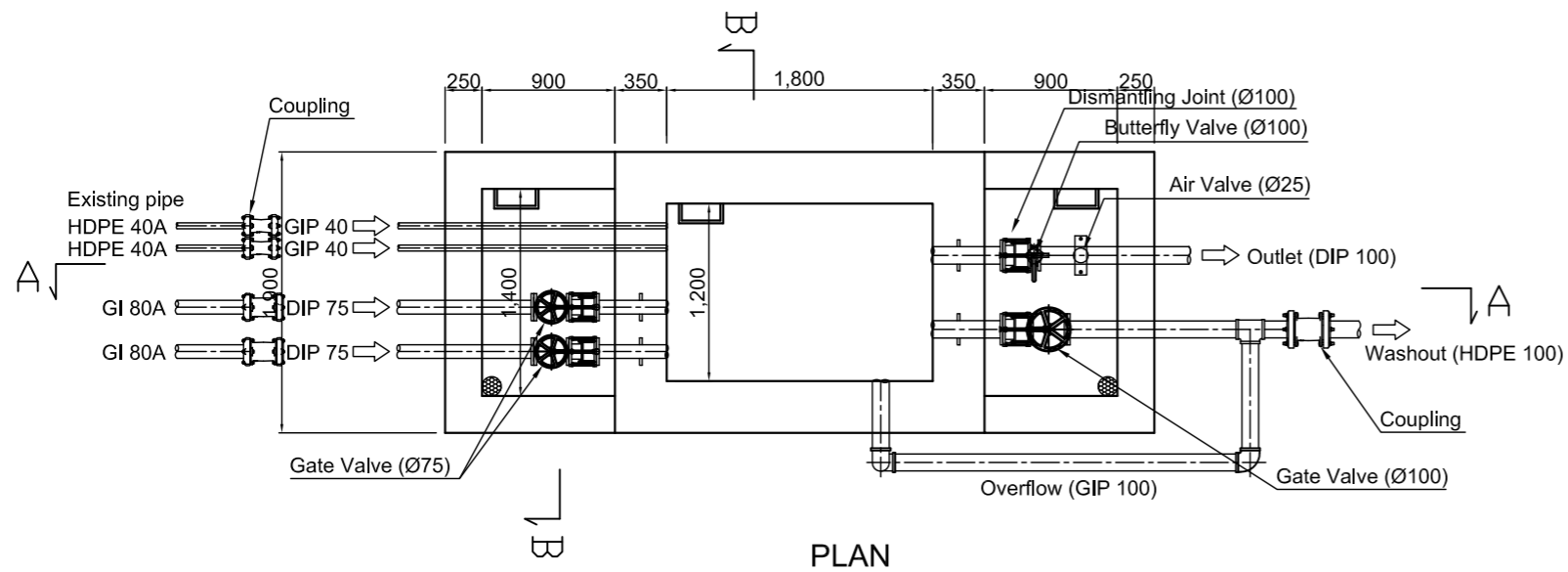
<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p>SUB PROJECT</p> <p>PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>PRESSURE BREAKING CHAMBER (TYPE-1)</p>	<p>FIG NO C-8.1</p>
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<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p><small>SUB PROJECT</small> PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>PRESSURE BREAKING CHAMBER (TYPE-2)</p>	<p><small>DRG NO</small> C-8.2</p>
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<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p>SUB PROJECT</p>	<p>PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>PRESSURE BREAKING CHAMBER (TYPE-3)</p>	<p>FIG NO C-8.3</p>
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THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT

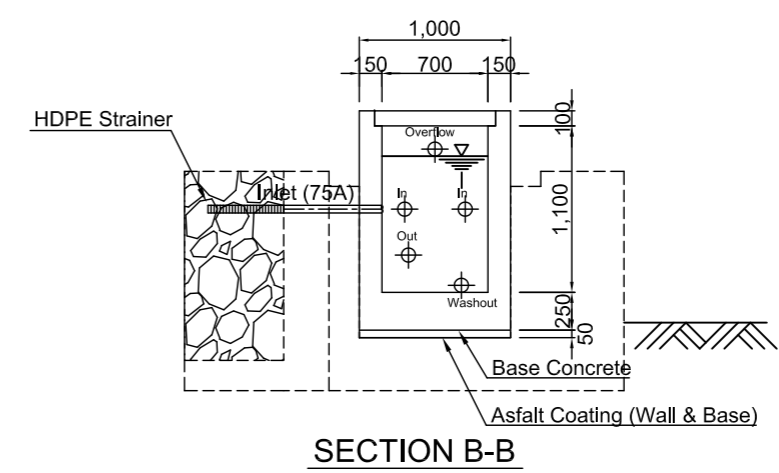
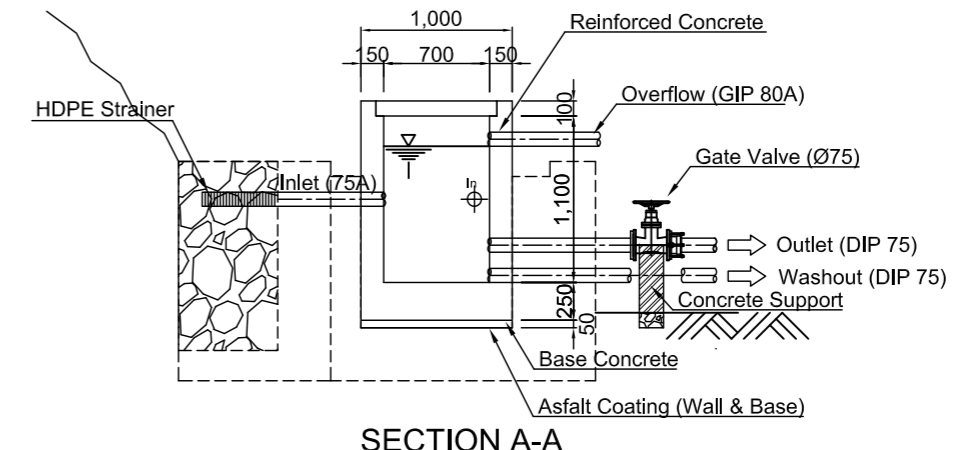
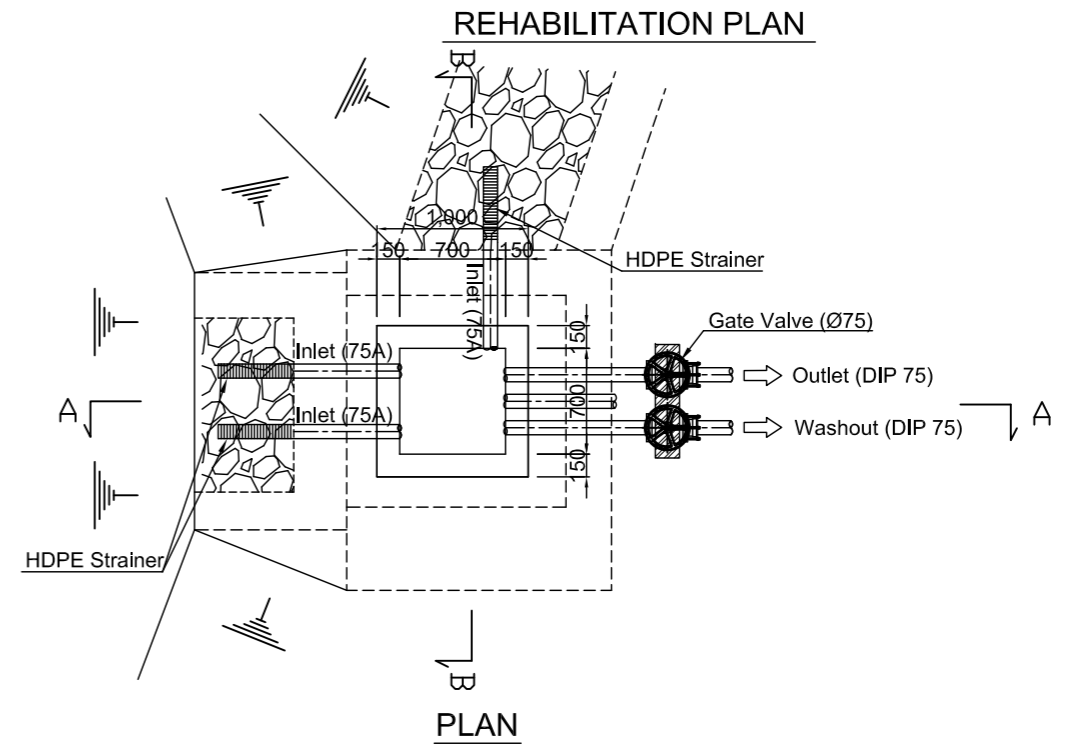
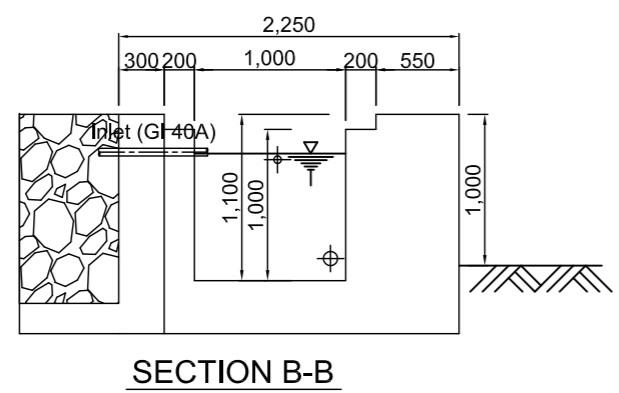
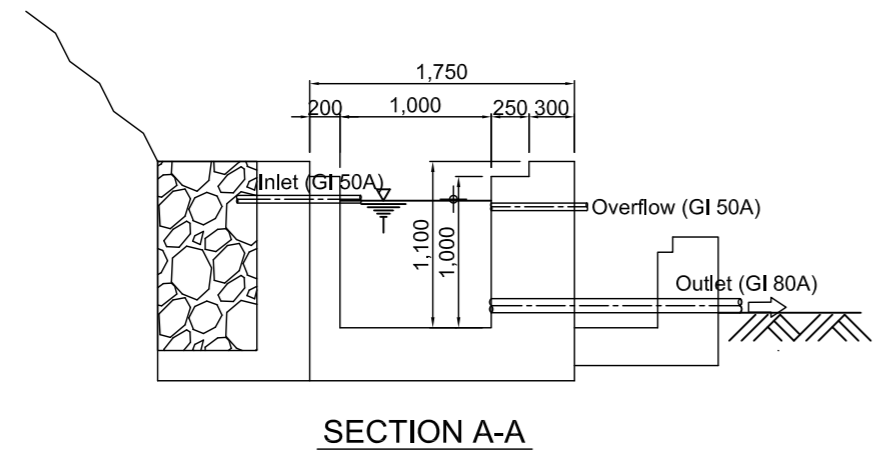
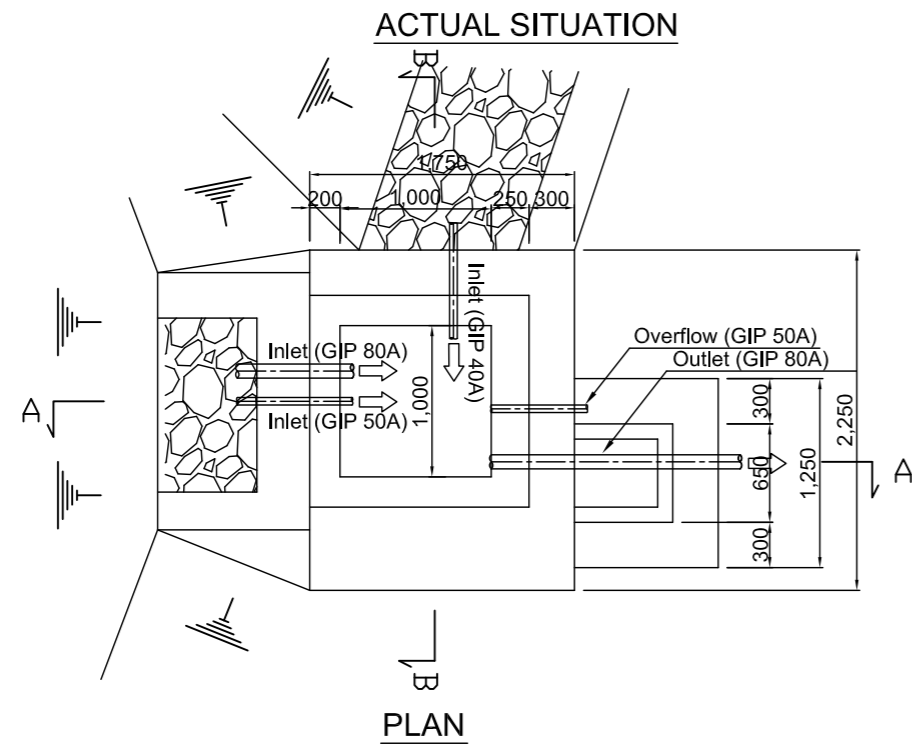
PROJECT
FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA

1/50
DEC. 2015

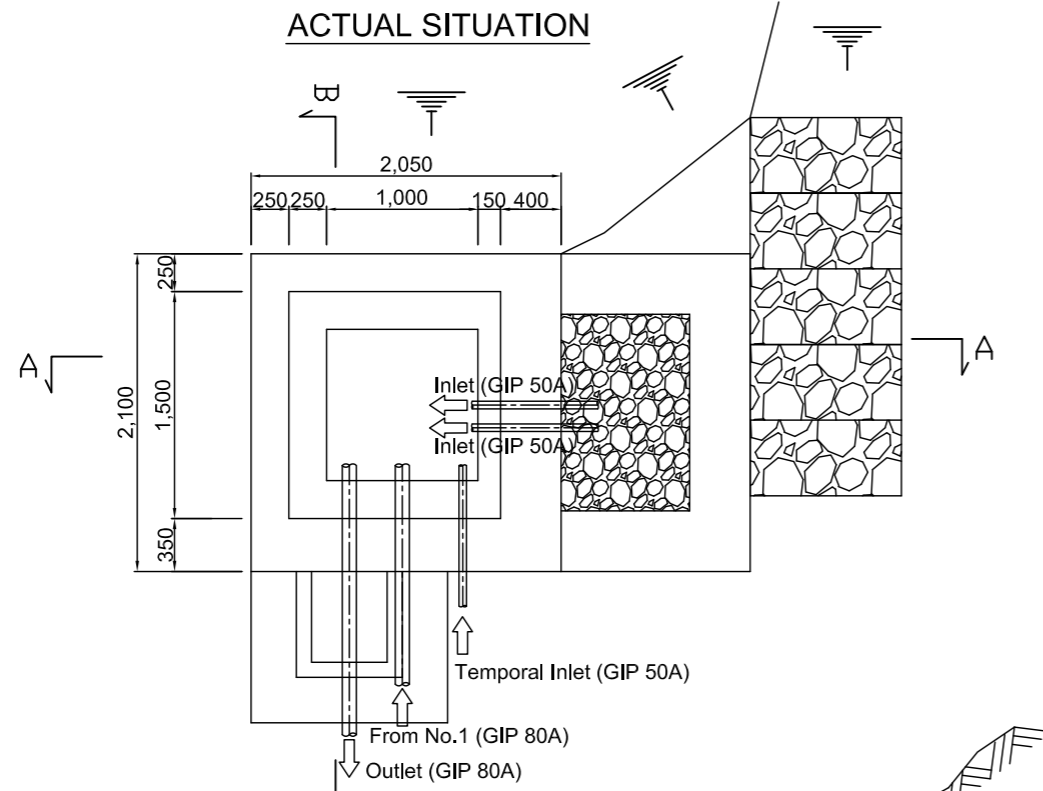
HOLCHE INTAKE CHAMBER

DWG NO

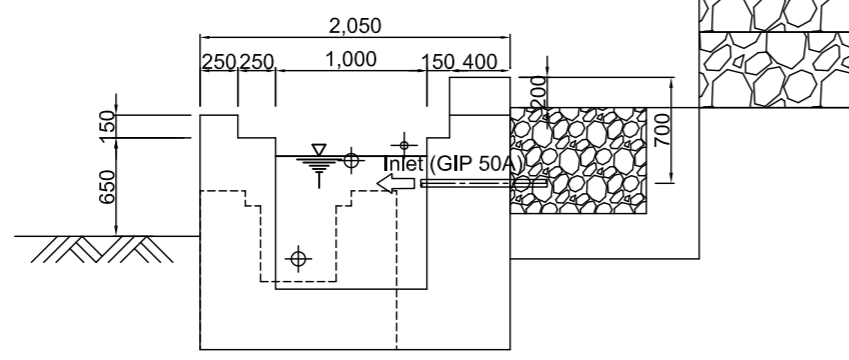
C-9.1



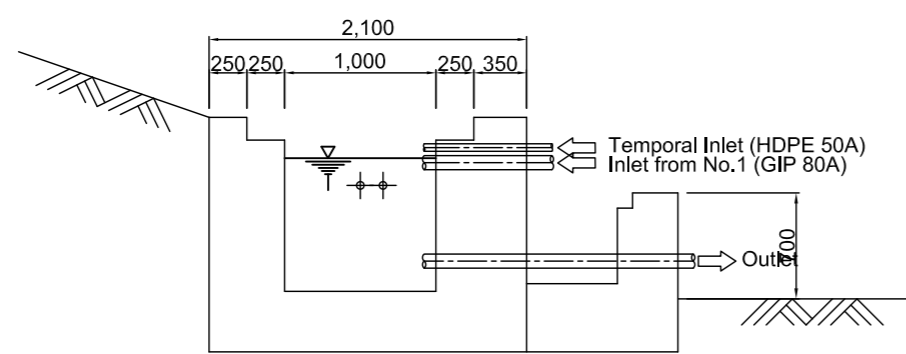
<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p><small>SUB PROJECT</small> PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>THALKHARKA INTAKE CHAMBER No.1</p>	<p><small>FIG NO</small> C-9.2</p>
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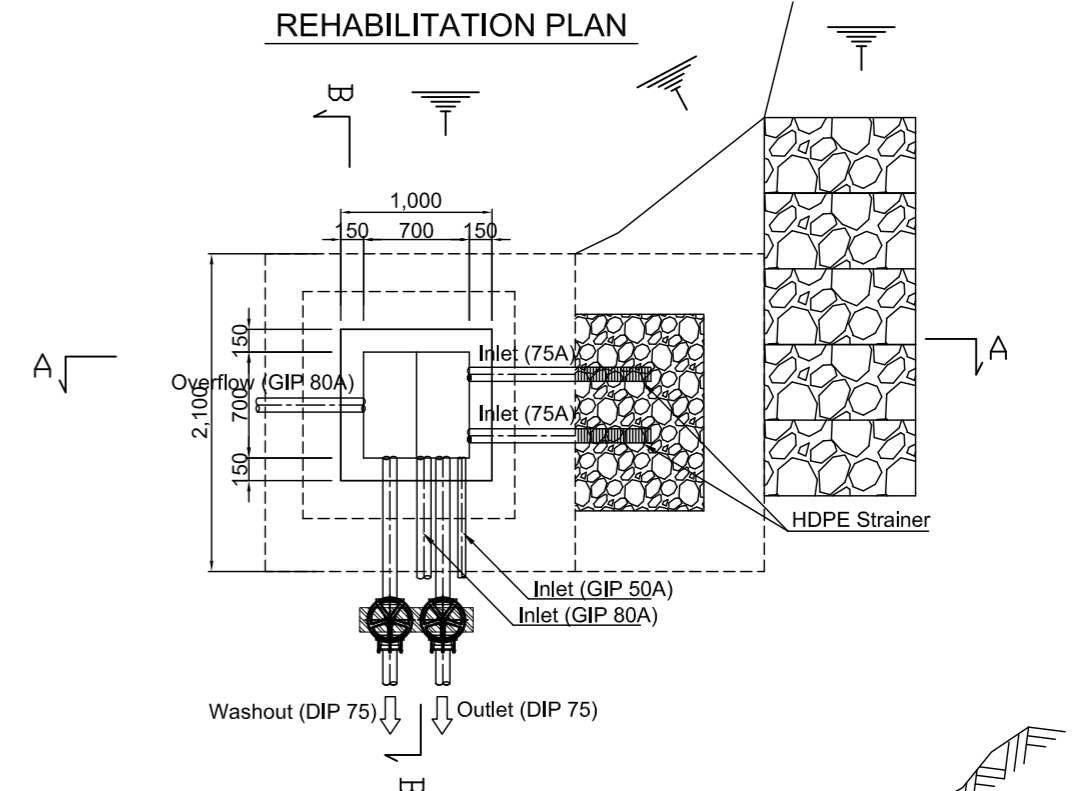
PLAN



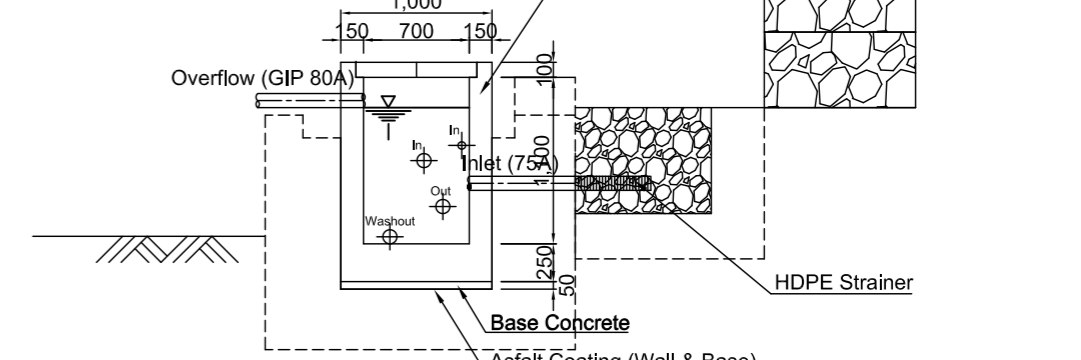
SECTION A-A



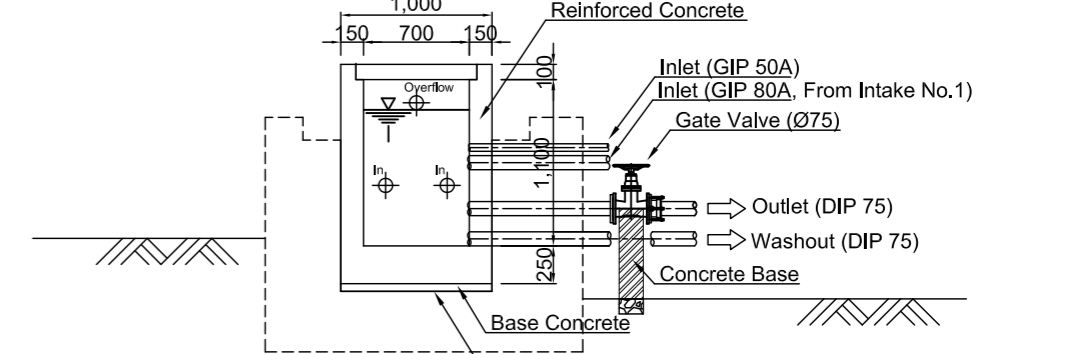
SECTION B-B



PLAN



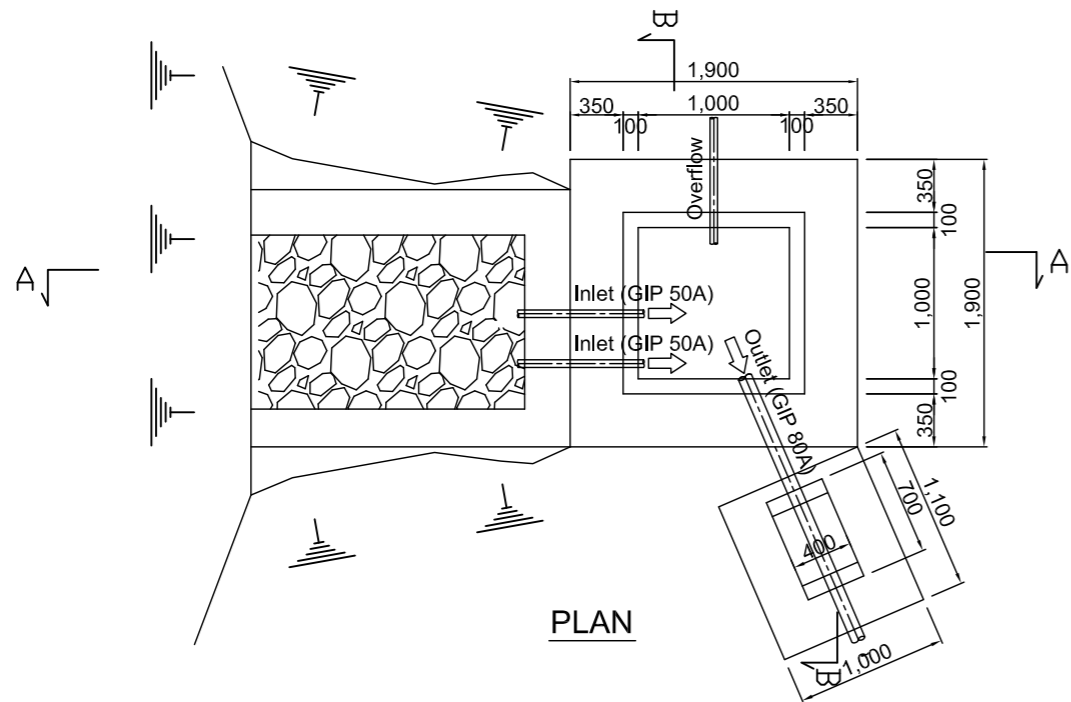
SECTION A-A



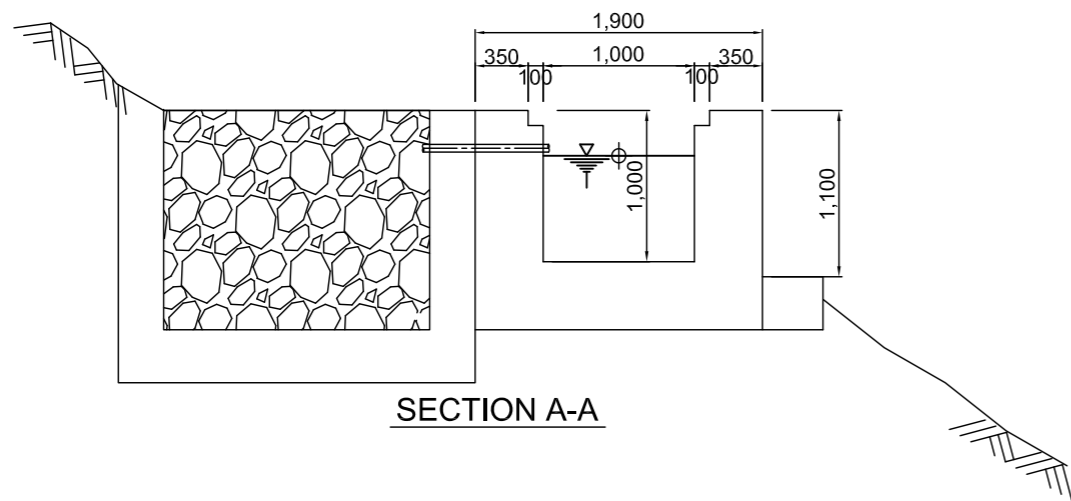
SECTION B-B

<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p>SUB PROJECT</p>	<p>PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>THALKHARKA INTAKE CHAMBER No.2</p>	<p>DWG NO C-9.3</p>
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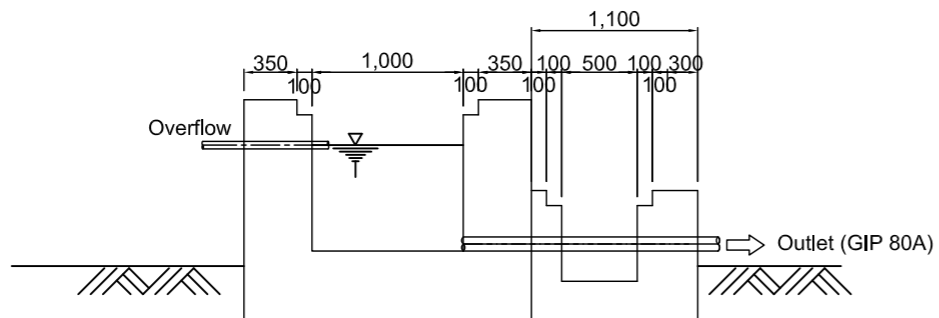
ACTUAL SITUATION



PLAN

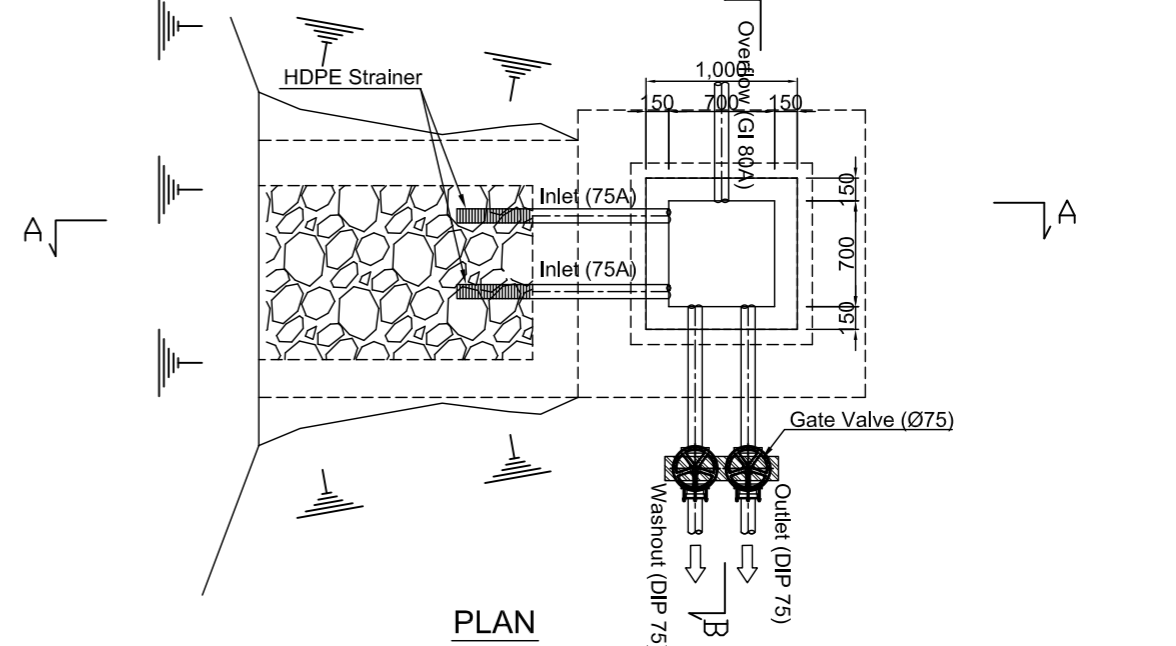


SECTION A-A

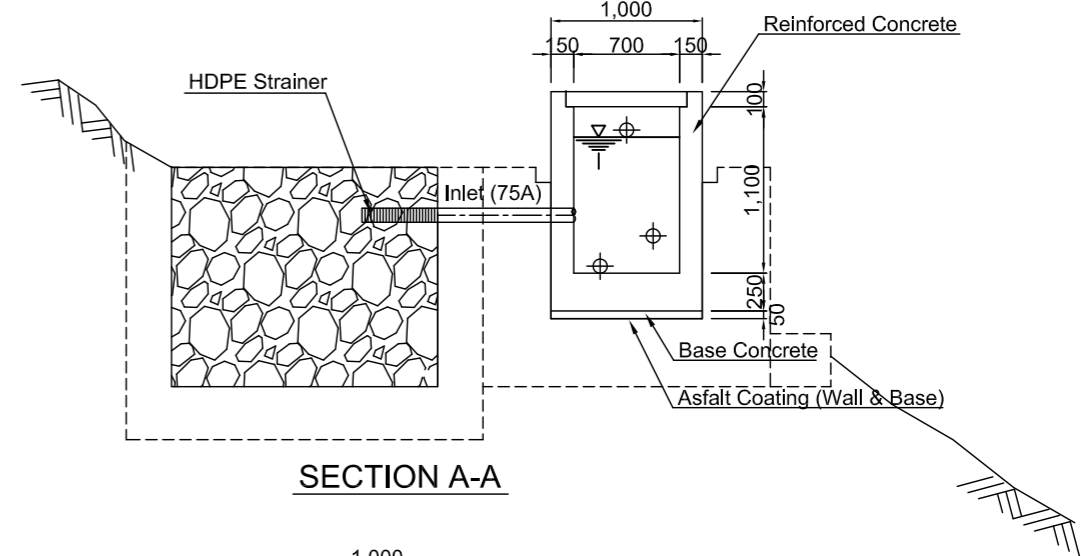


SECTION B-B

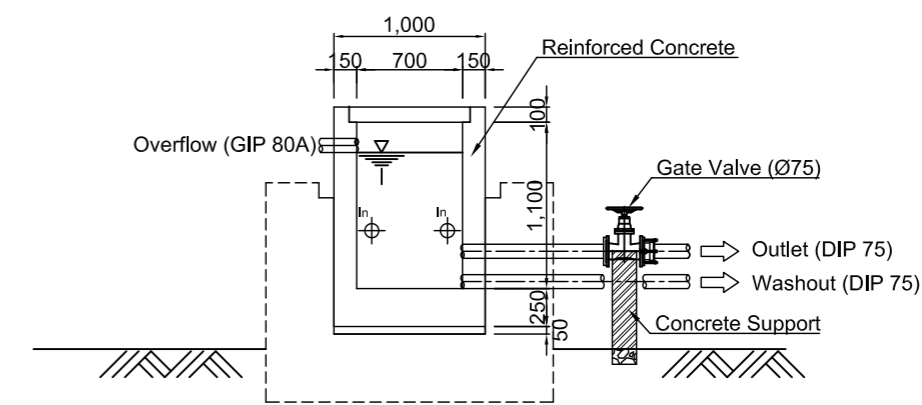
REHABILITATION PLAN



PLAN



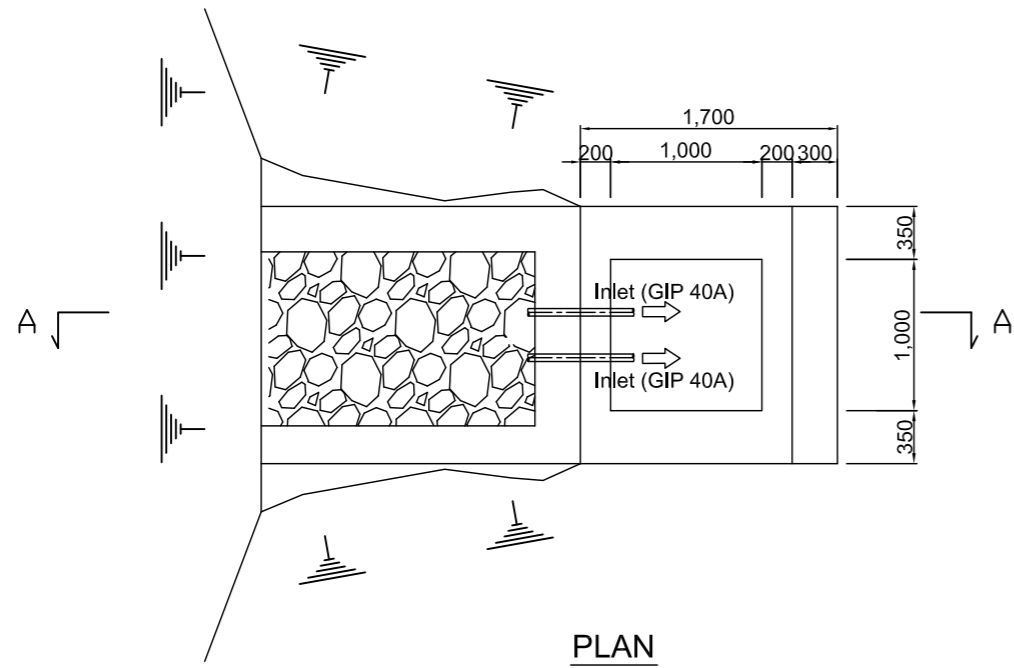
SECTION A-A



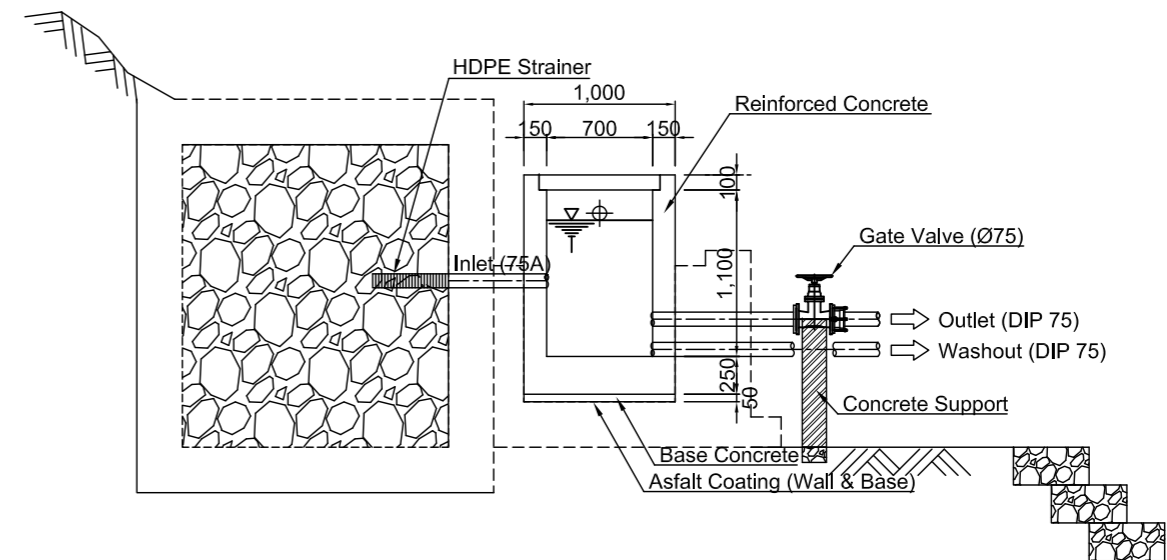
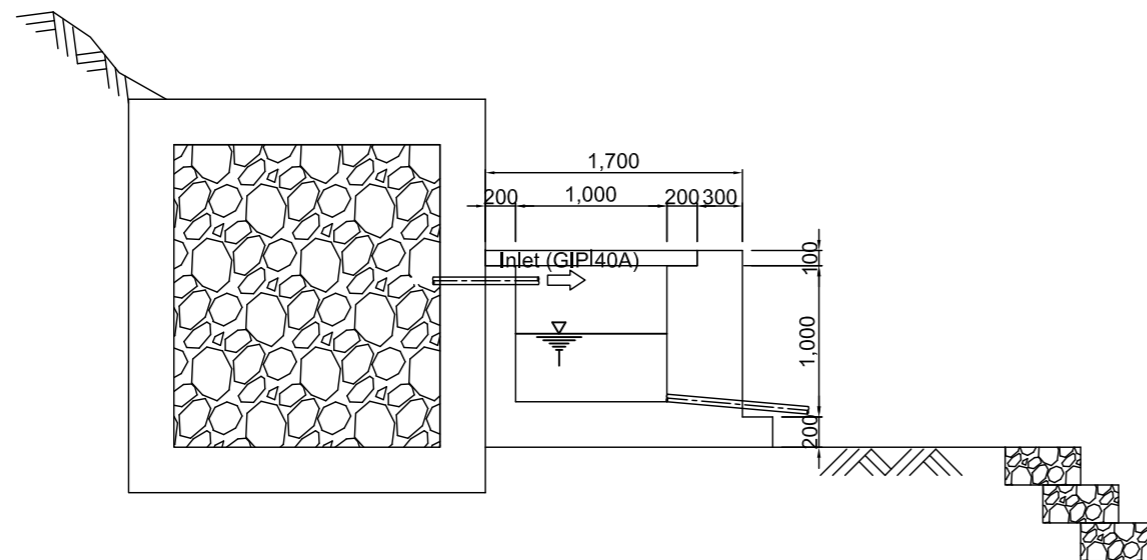
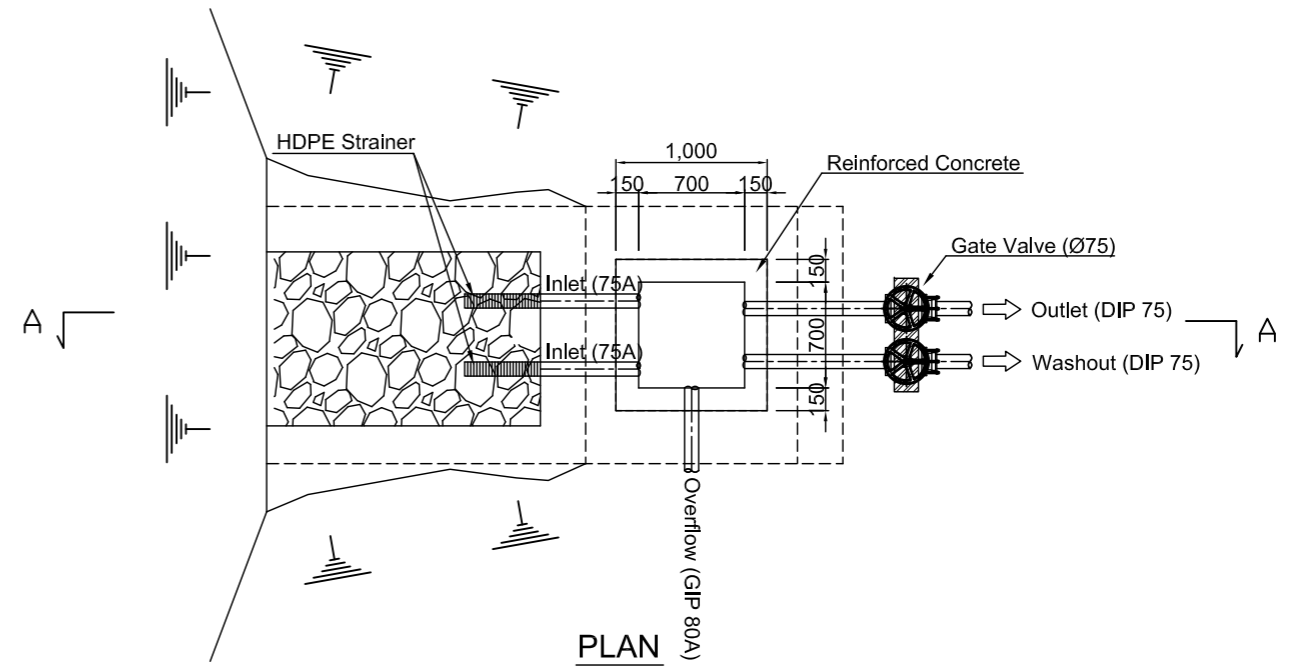
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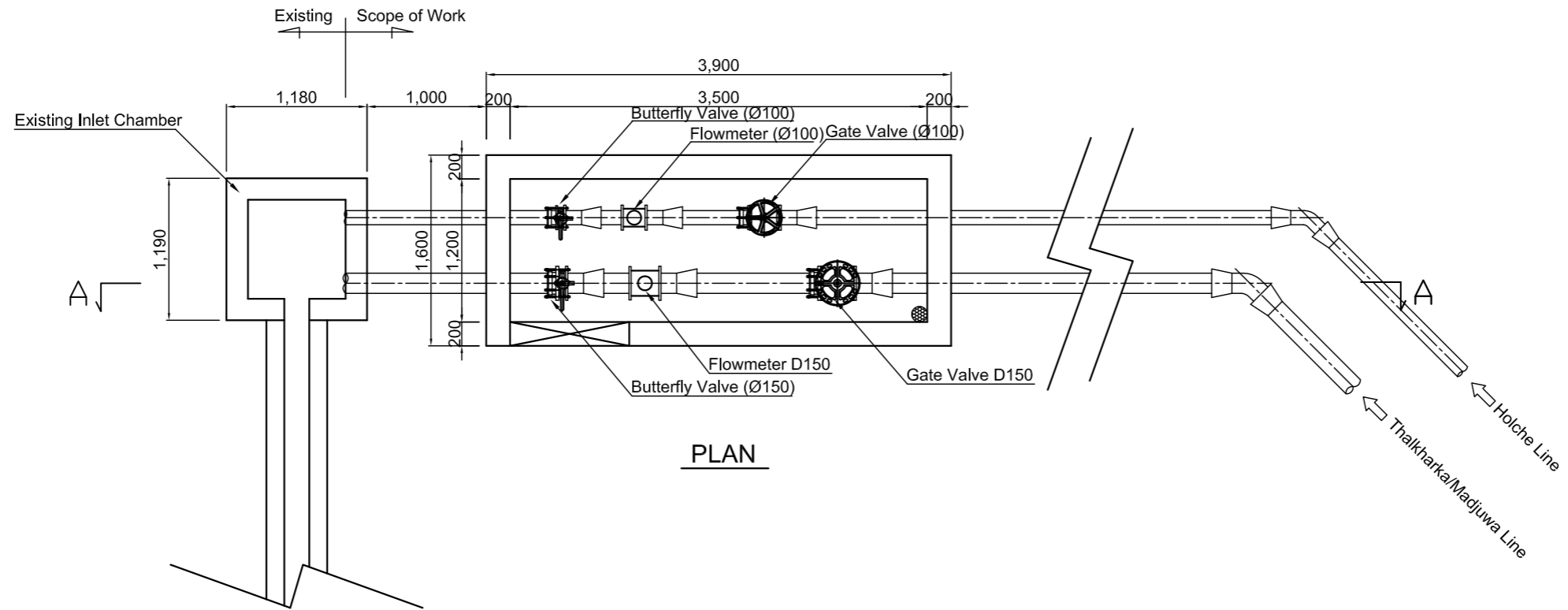
<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p>SUB PROJECT</p>	<p>PROJECT FOR REHABILITATION OF WATER TRANSMISSION SYSTEM IN CHAUTARA</p>	<p>1/50 DEC. 2015</p>	<p>THALKHARKA INTAKE CHAMBER No.3</p>	<p>C-9.4</p>
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ACTUAL SITUATION

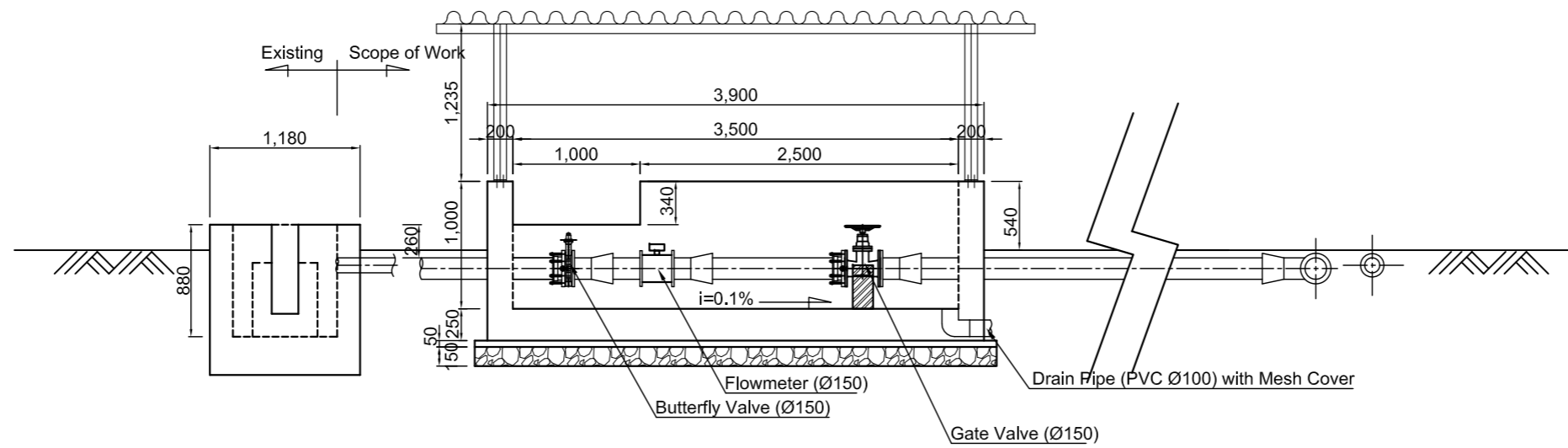


REHABILITATION PLAN





PLAN

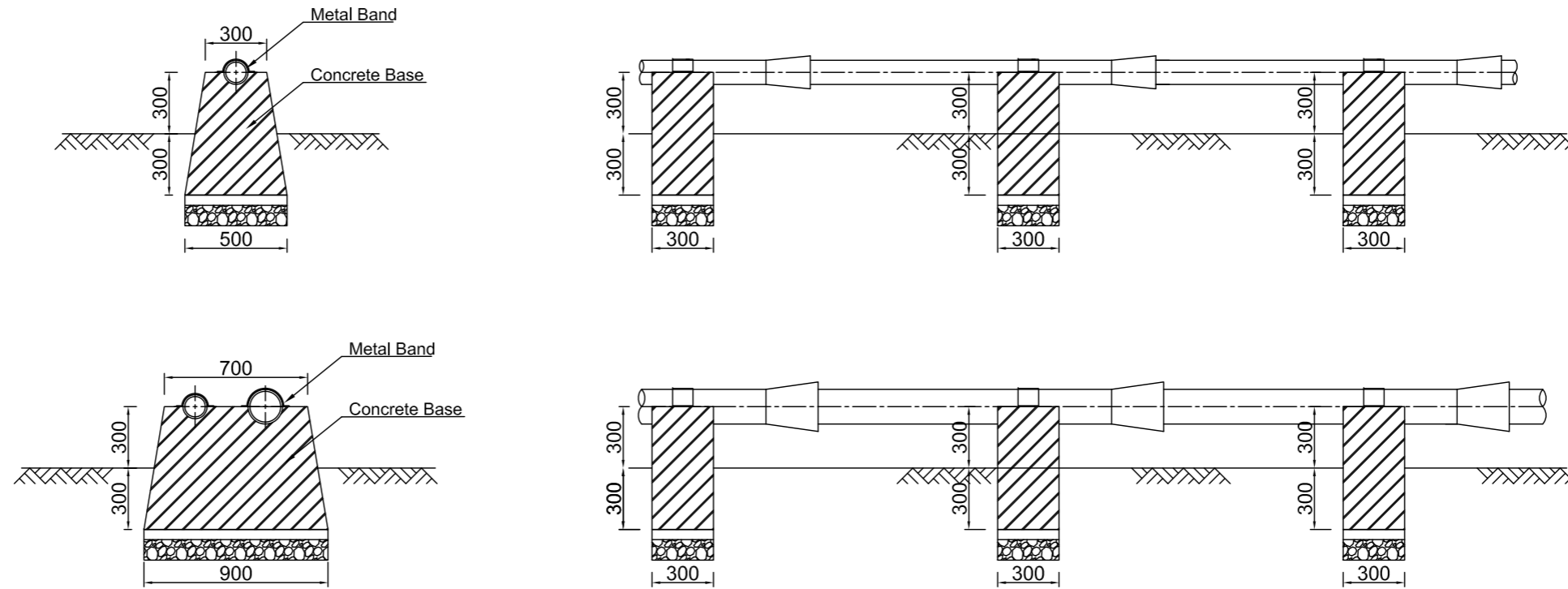


SECTION A-A

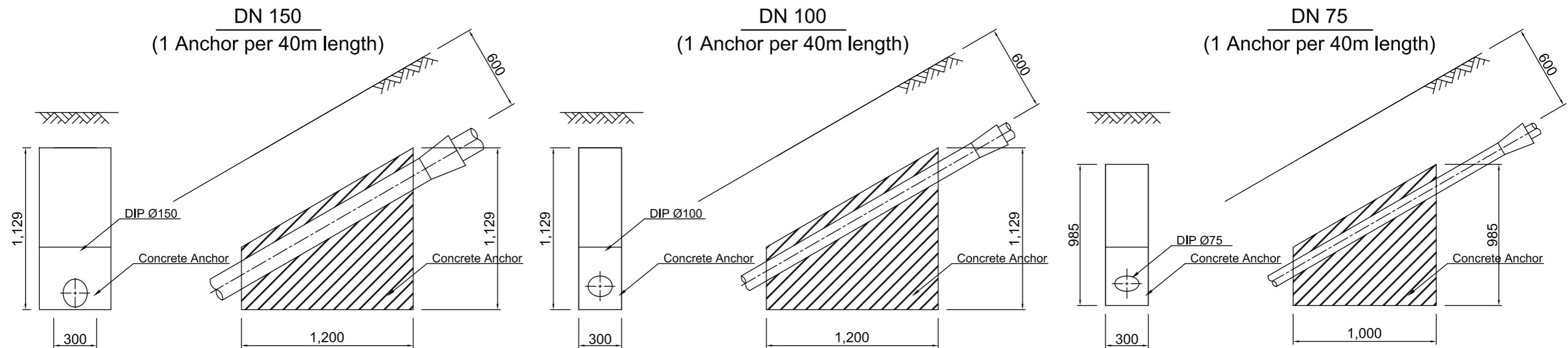
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STANDARD SECTION FOR PIPE INSTALLATION

TRAIL ROAD

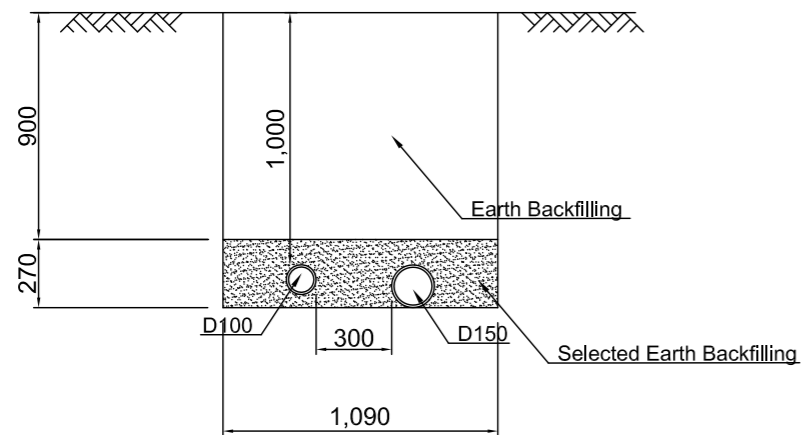
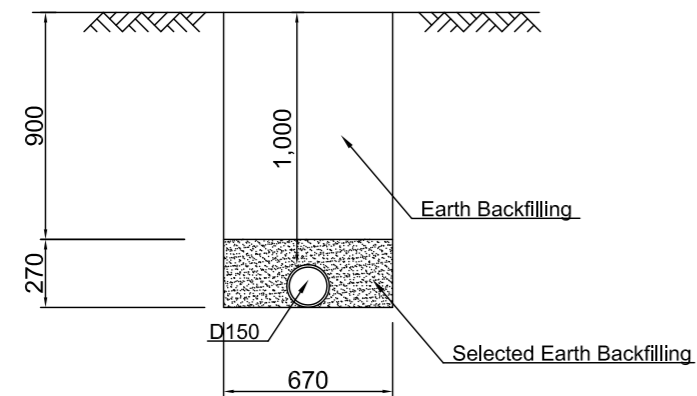
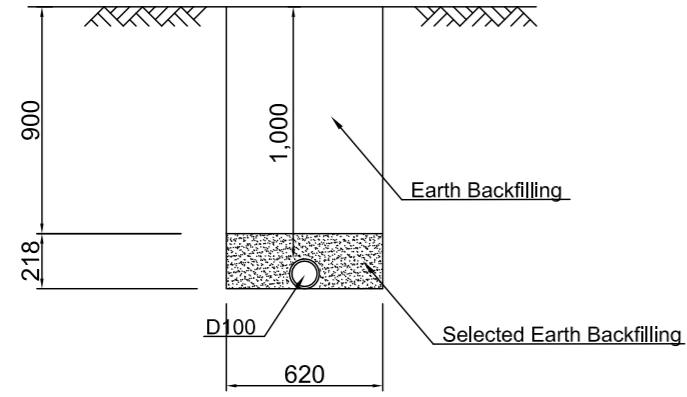


TRAIL ROAD WITH SLOPE ($i > 20^\circ$)

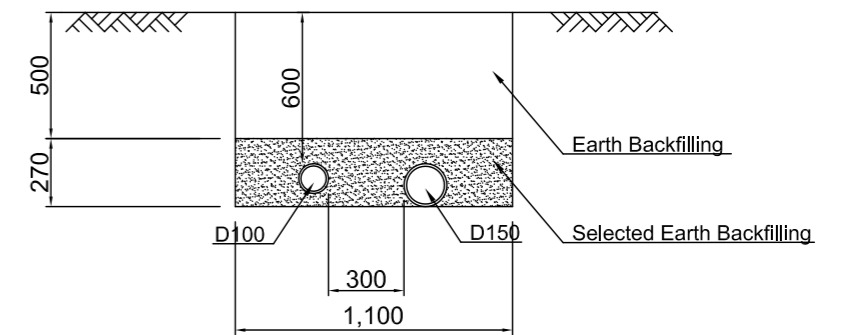
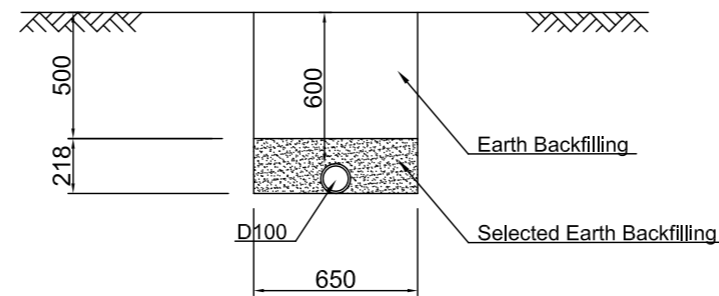
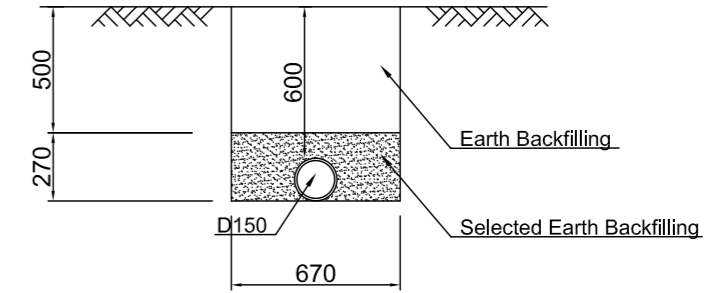
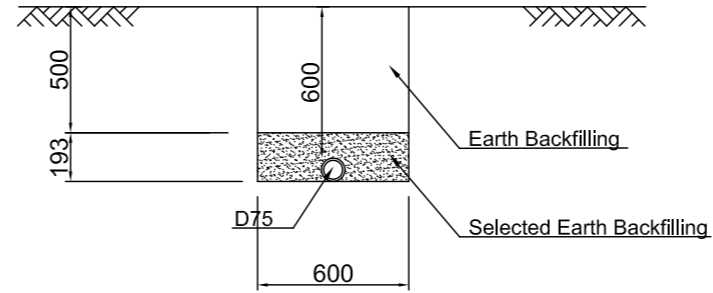


STANDARD SECTION FOR PIPE INSTALLATION

TRAFFIC ROAD



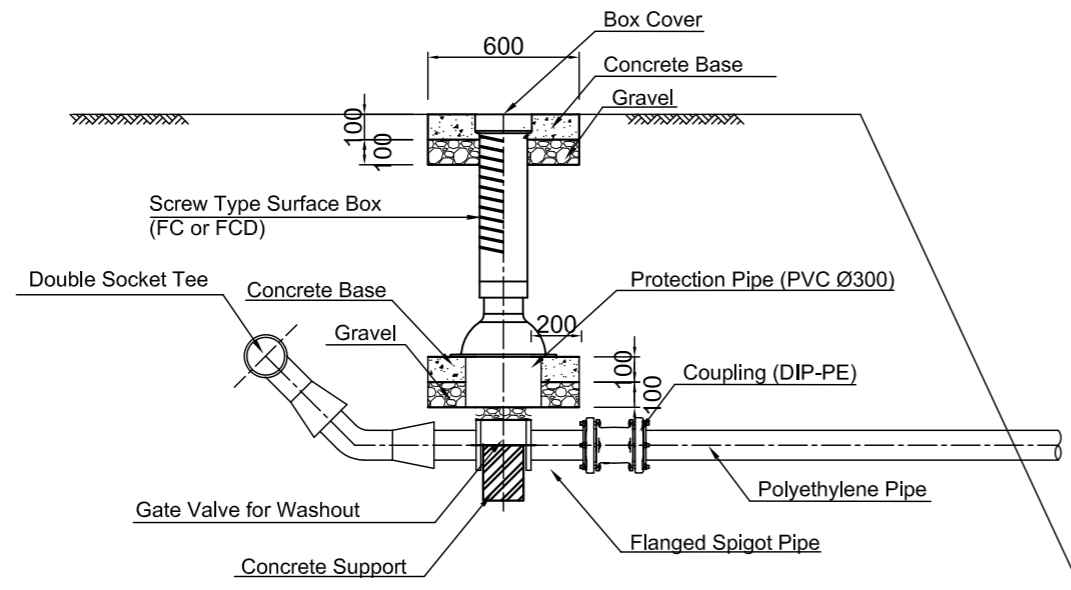
TRAIL ROAD



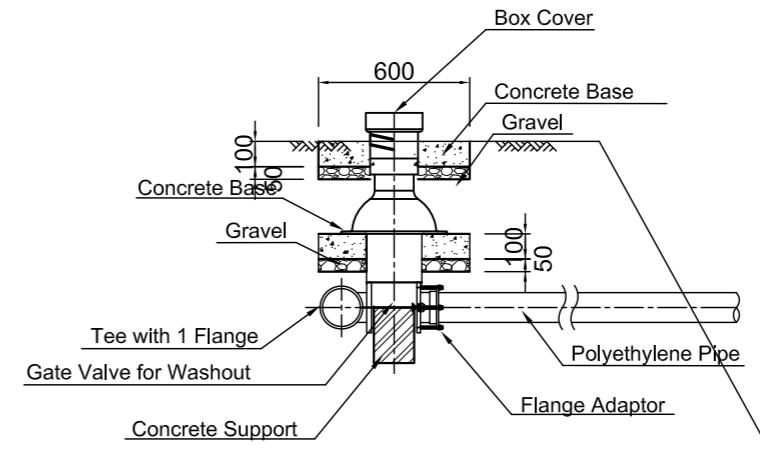
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WASHOUT VALVE

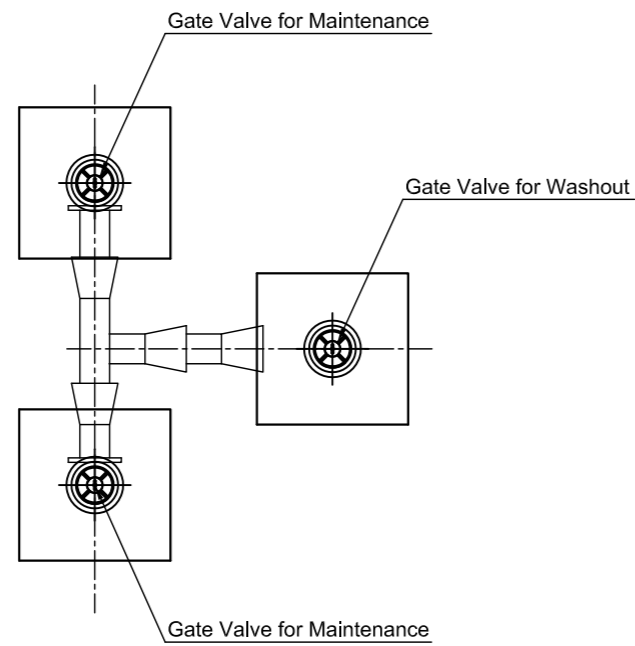
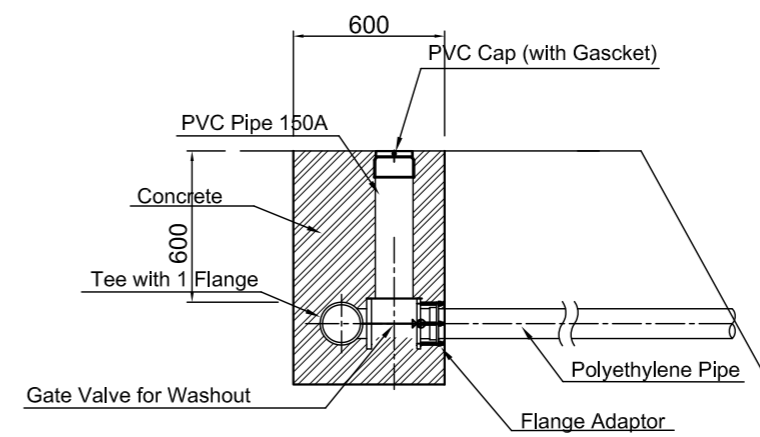
FOR TRAFFIC ROAD



FOR TRAIL ROAD

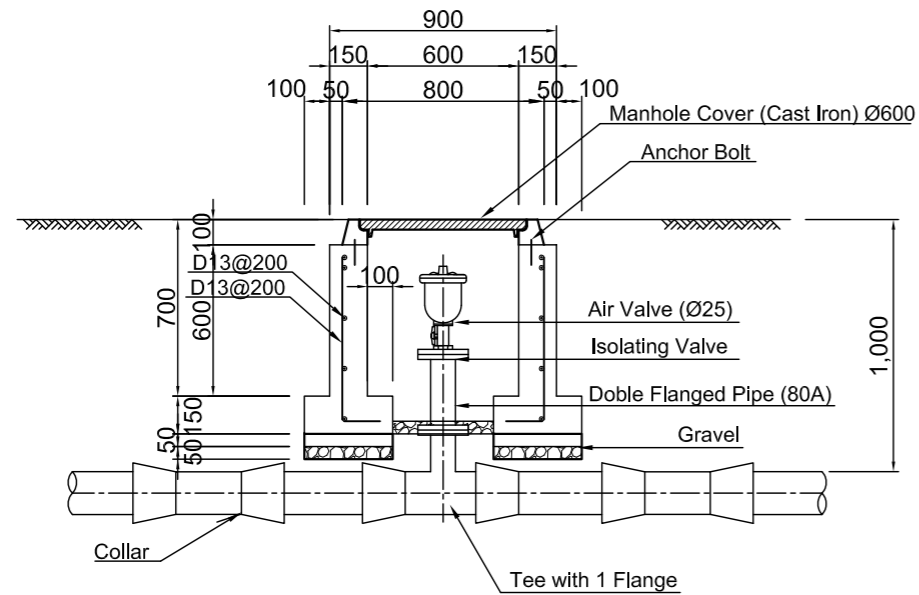


FOR STREAM SECTION

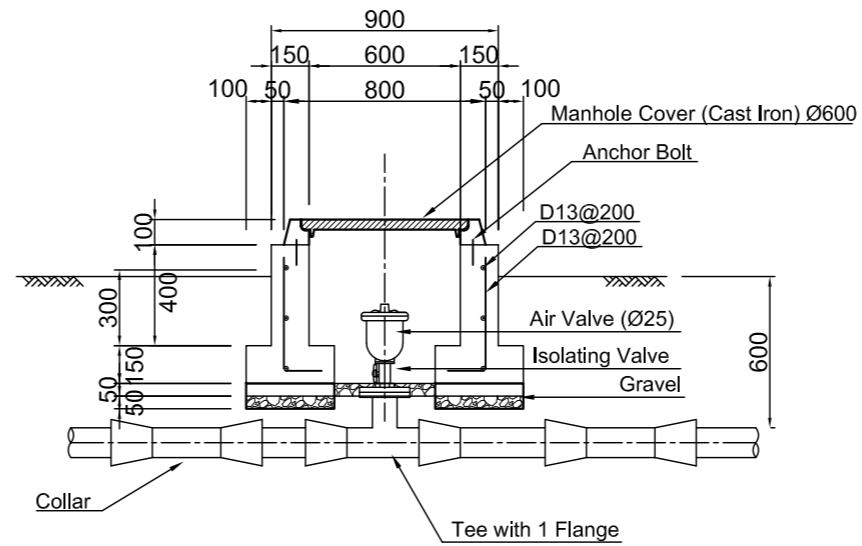


AIR RELIEF VALVE

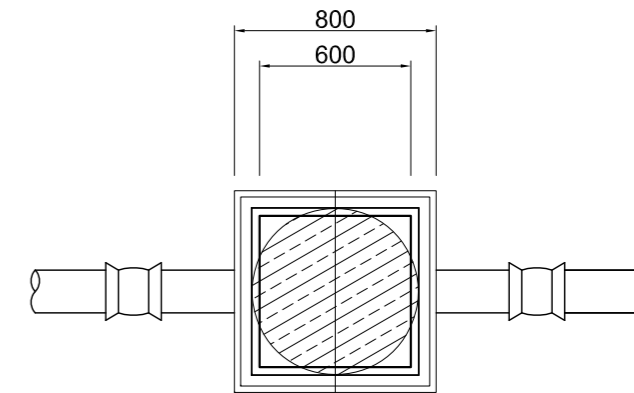
FOR TRAFFIC ROAD



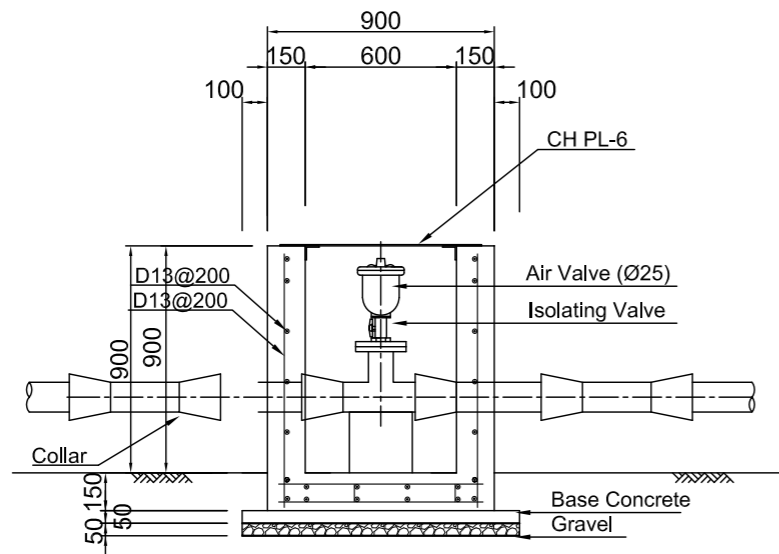
FOR TRAIL ROAD



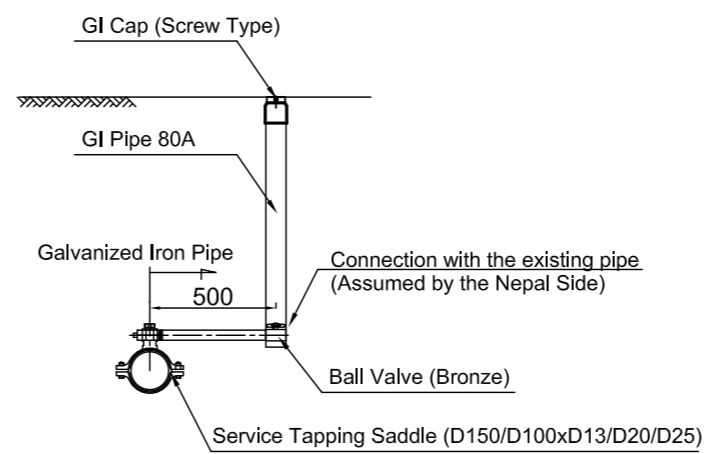
BOX COVER



FOR GROUND INSTALLATION



BRANCH CONNECTION FOR PUBLIC TAP



Appendix-9-3: Out Line Design of Bridge

The Subproject of Bridge Construction along
Barhakilo-Barpak Road

The Project on Rehabilitation and Recovery from Nepal
Earthquake in the Federal Democratic Republic of NEPAL

The Subproject of Bridge Construction along
Barhakilo-Barpak Road

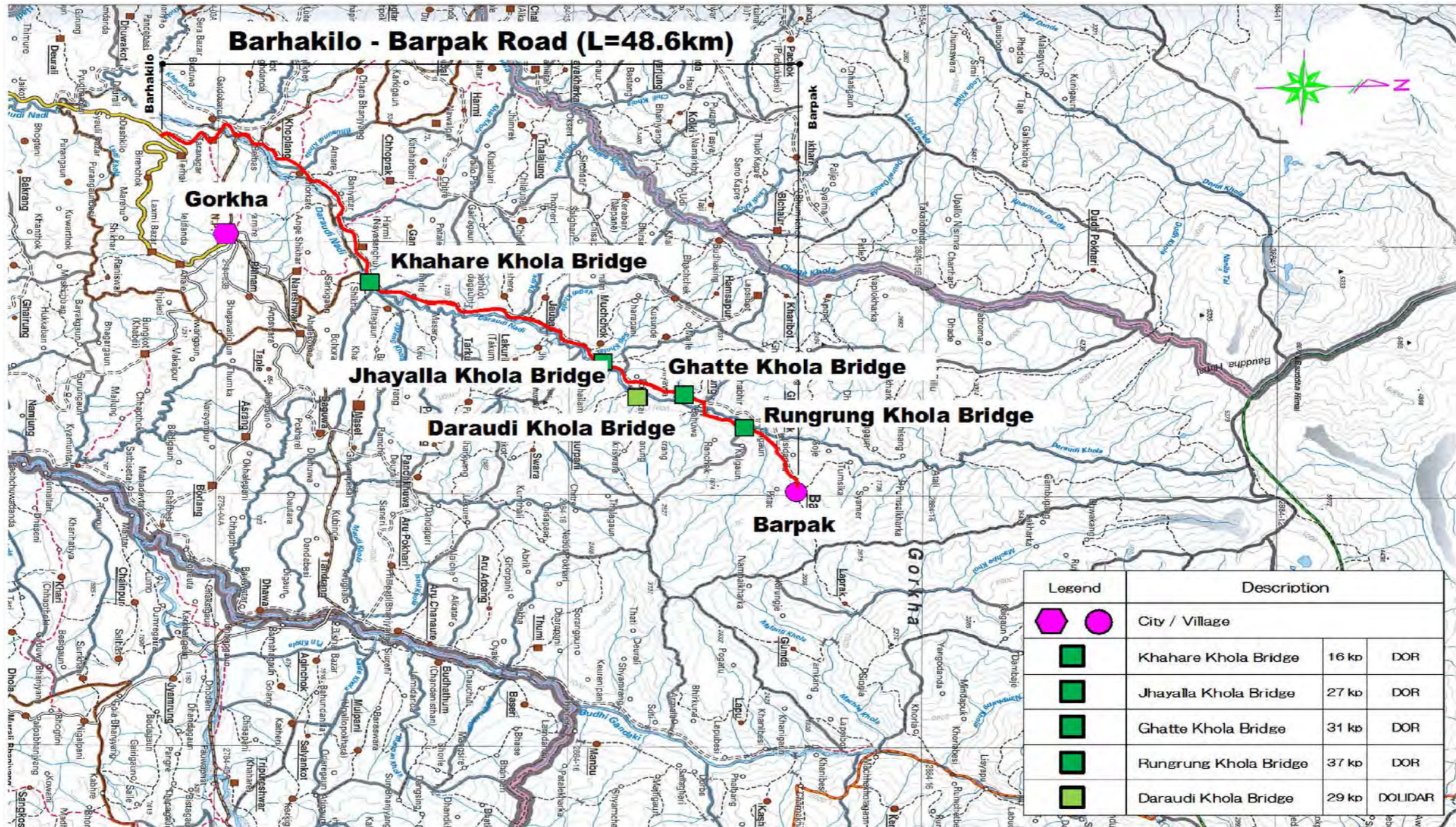
DRAWINGS

December, 2015

Drawing List

Sheet No	Drawing Title	Drawing No	Remarks
1	Location Map	D-1	
Khahare Khola bridge			16 kp, DOR
2	Plan of Khahare Kohala Bridge	D-2	
3	Profile of Khahare Kohola Bridge	D-3	
4-5	Corss sections of Khahare Kohora Bridge	D-4	
6	General View of Khahare Kohora Bridge	D-5	
Jhayalla Khola bridge			27 kp, DOR
7	Plan of Jhayalla Kohala Bridge	D-6	
8	Profile of Jhayalla Kohola Bridge	D-7	
9-11	Corss sections of Jhayalla Kohora Bridge	D-8	
12	General View of Jhahare Kohora Bridge	D-9	
Ghatte Khola bridge			31 kp, DOR
13	Plan of Ghatte Kohala Bridge	D-10	
14	Profile of Ghatte Kohola Bridge	D-11	
15-16	Corss sections of Ghatte Kohora Bridge	D-12	
17	General View of Ghatte Kohora Bridge	D-13	

Sheet No	Drawing Title	Drawing No	Remarks
Rangrung Khola bridge			37 kp, DOR
18	Plan of Rangrung Kohala Bridge	D-14	
19	Profile of Rangrung Kohola Bridge	D-15	
20-21	Corss sections of Rangrung Kohora Bridge	D-16	
22	General View of Rangrung Kohora Bridge	D-17	
Daraudi Khola bridge			29 kp, DOLIDAR
23	Plan of Daraudi Kohala Bridge	D-18	
24	Profile of Daraudi Kohola Bridge	D-19	
25-28	Corss sections of Daraudi Kohora Bridge	D-20	
29	General View of Daraudi Kohora Bridge	D-21	



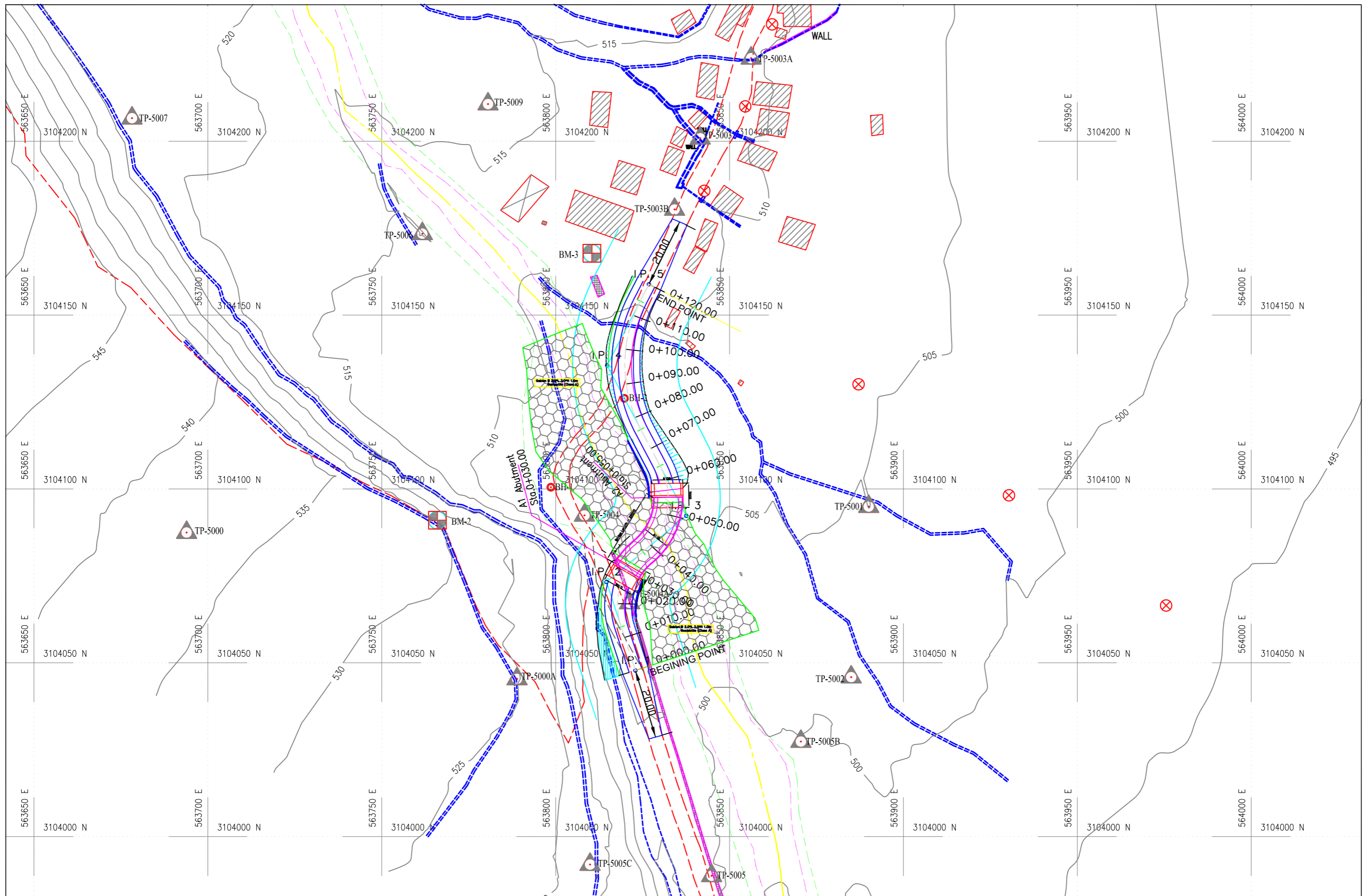
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
-
DEC. 2015

LOCATION MAP OF
THE PROJCT

DWG. NO.
D-1
SHEET. NO.
1



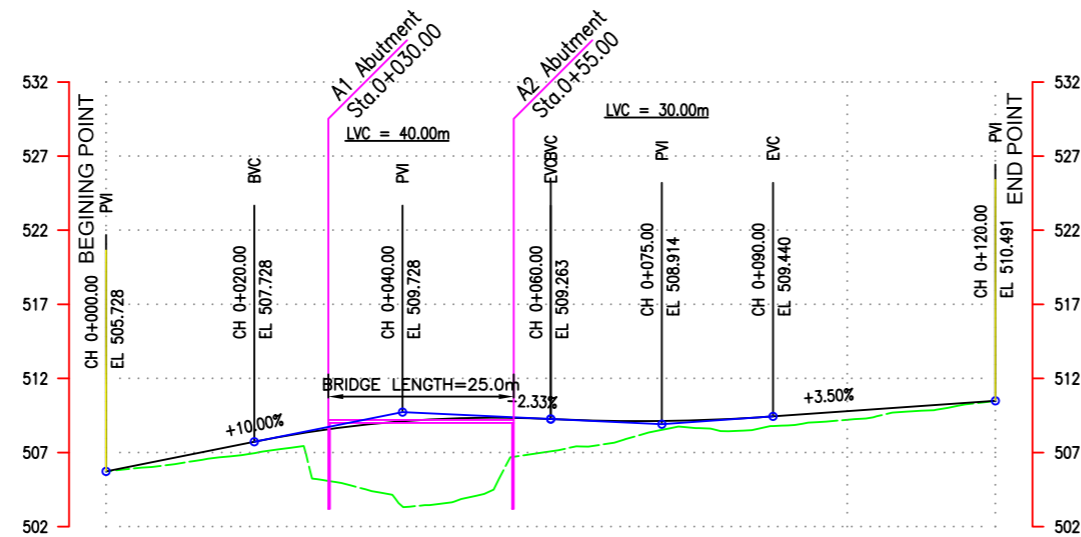
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
 1:1000
 DEC. 2015

PLAN OF KHAHARE KHOLA
BRIDGE

DWG. NO.
 D-2
 SHEET. NO.
 2



DESIGN LEVEL (m)	505.728	506.278	507.728	508.574	509.112	509.341	509.263	509.127	508.186	509.440	509.790	510.141	510.491
EXISTING LEVEL (m)	505.728	506.279	506.956	505.085	503.355	504.088	507.080	507.890	508.644	508.790	509.212	509.819	510.491
CHAINAGE (km)	0+000.00	0+010.00	0+020.00	0+030.00	0+040.00	0+050.00	0+060.00	0+070.00	0+080.00	0+090.00	0+100.00	0+110.00	0+120.00
HORIZONTAL ALIGNMENT	RIGHT	IP-01		IP-02		IP-03		IP-04		IP-05			
	LEFT	R=0.00	R=20.00	R=20.00	R=40.00	R=0.00							

CHAINAGE : 0+000.00 - 0+120.00

IP.No	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
1	563822.933	3104047.767	341-56-34	0.000	00-00-00	0.000	0.000	0.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
2	563814.625	3104073.250	50-19-21	26.803	68-22-57	13.588	20.000	4.179	23.870	0+013.22	0+025.16	0+037.09	0+026.81
3	563837.570	3104092.284	332-14-42	29.812	78-04-37	16.218	20.000	5.749	27.254	0+037.10	0+050.73	0+064.35	0+053.32
4	563814.813	3104135.529	27-11-34	48.867	54-56-47	20.799	40.000	5.084	38.360	0+076.20	0+095.38	0+114.56	0+097.00
5	563826.804	3104158.868	00-00-00	26.239	00-00-00	0.000	0.000	0.000	0.000	0+120.00	0+120.00	0+120.00	0+120.00

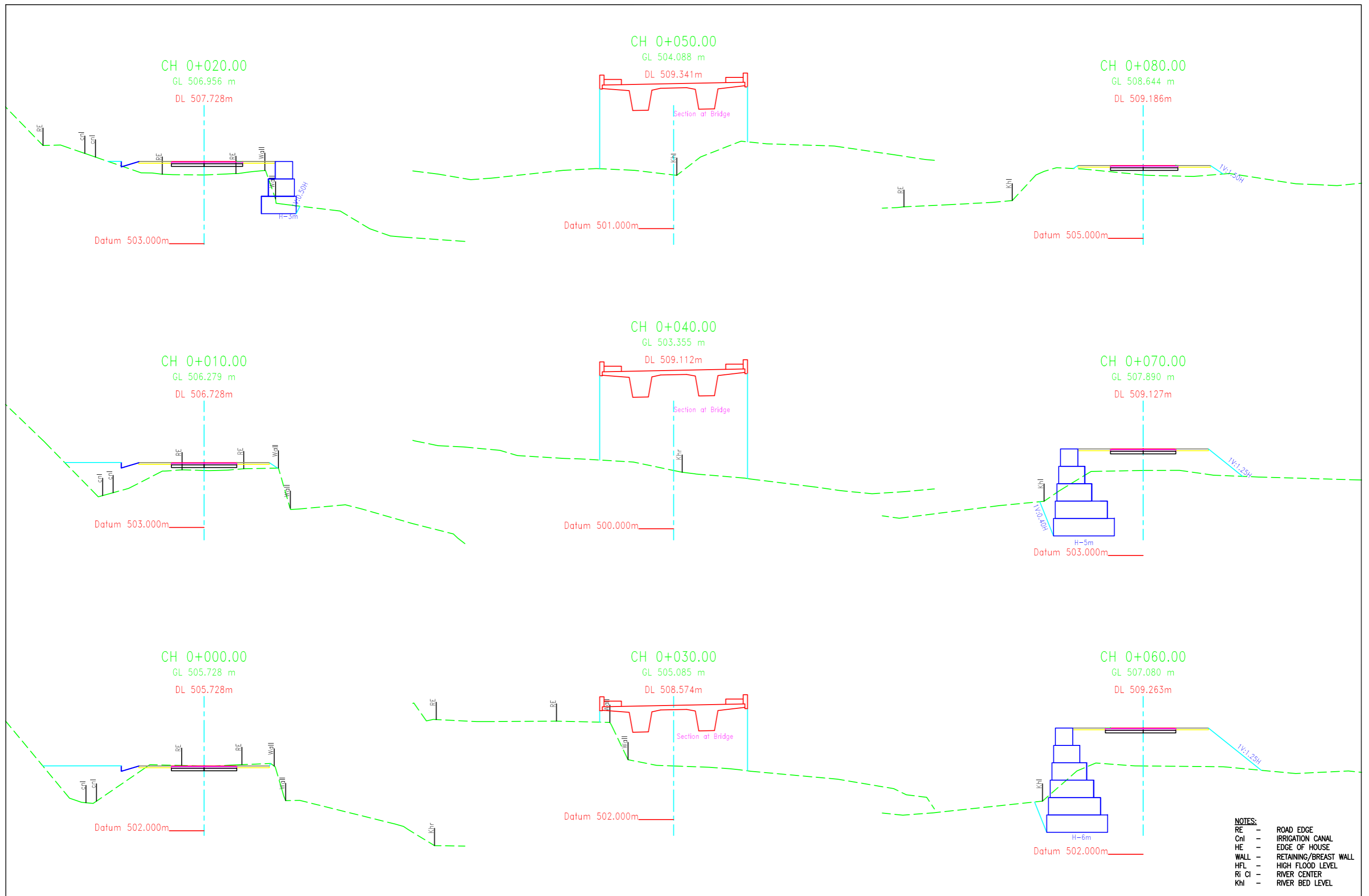
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
H 1:1000
V 1:500
DEC. 2015

PROFILE OF KHAHARE
KHOLA BRIDGE

DWG. NO.
D-3
SHEET. NO.
3



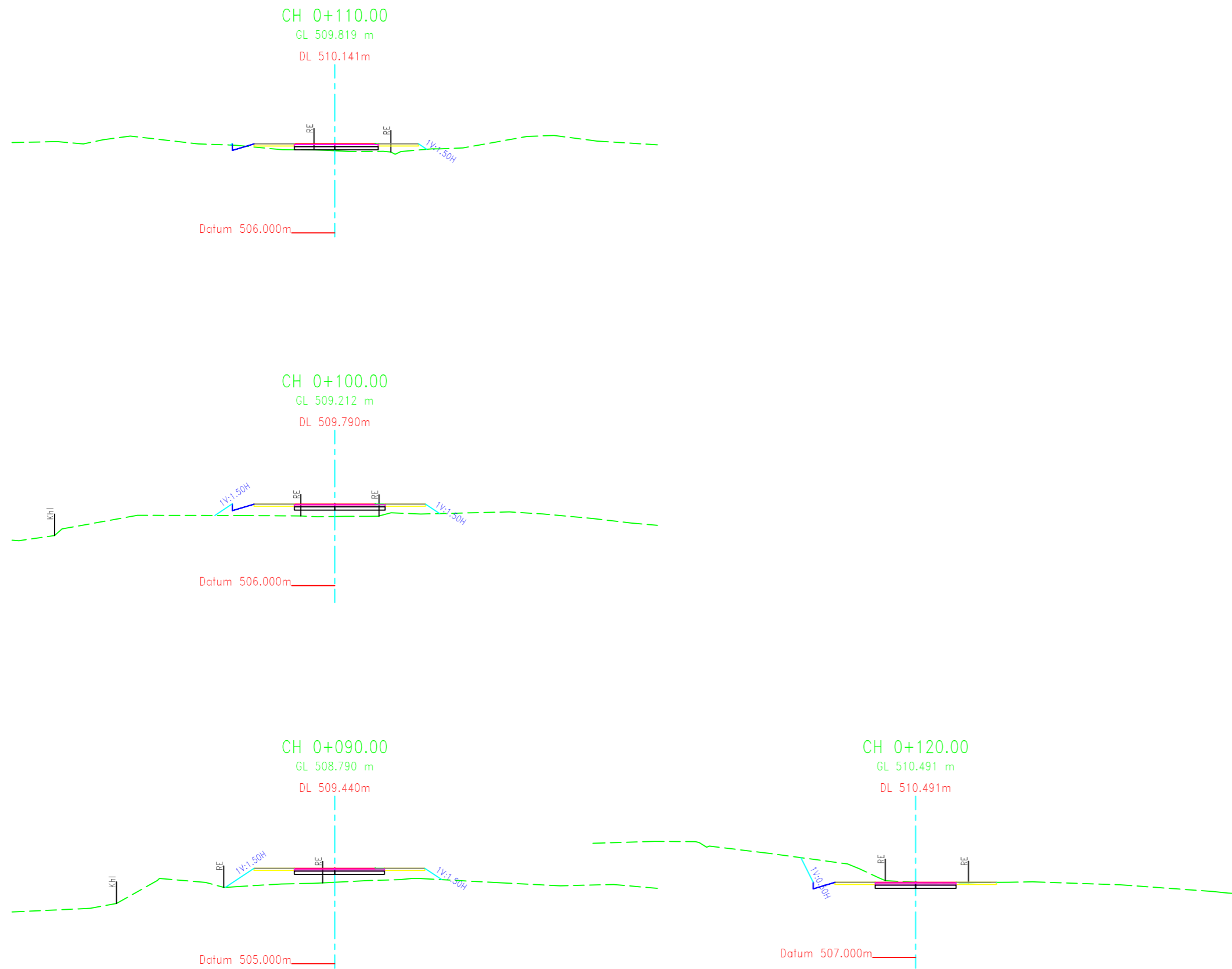
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK RE,
GORKHA DISTRICT

SCALE
1:200
DEC. 2015

CROSS SECTIONS OF
KHAHARE KHOLA BRIDGE

DWG. NO.
D-4
SHEET. NO.
4



- NOTES:**
- RE - ROAD EDGE
 - Cnl - IRRIGATION CANAL
 - HE - EDGE OF HOUSE
 - WALL - RETAINING/BREAST WALL
 - HFL - HIGH FLOOD LEVEL
 - Ri Ci - RIVER CENTER
 - Khi - RIVER BED LEVEL

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK RE,
GORKHA DISTRICT

SCALE
1:200
DEC. 2015

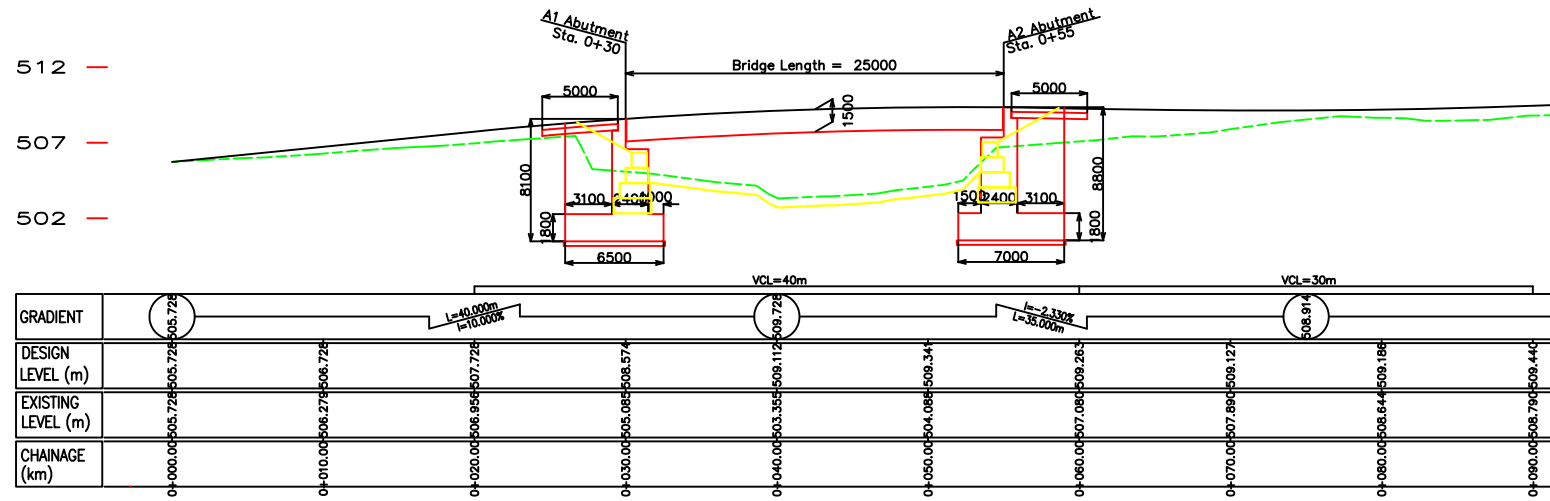
CROSS SECTIONS OF
KHAHARE KHOLA BRIDGE

DWG. NO.
D-4
SHEET. NO.
5

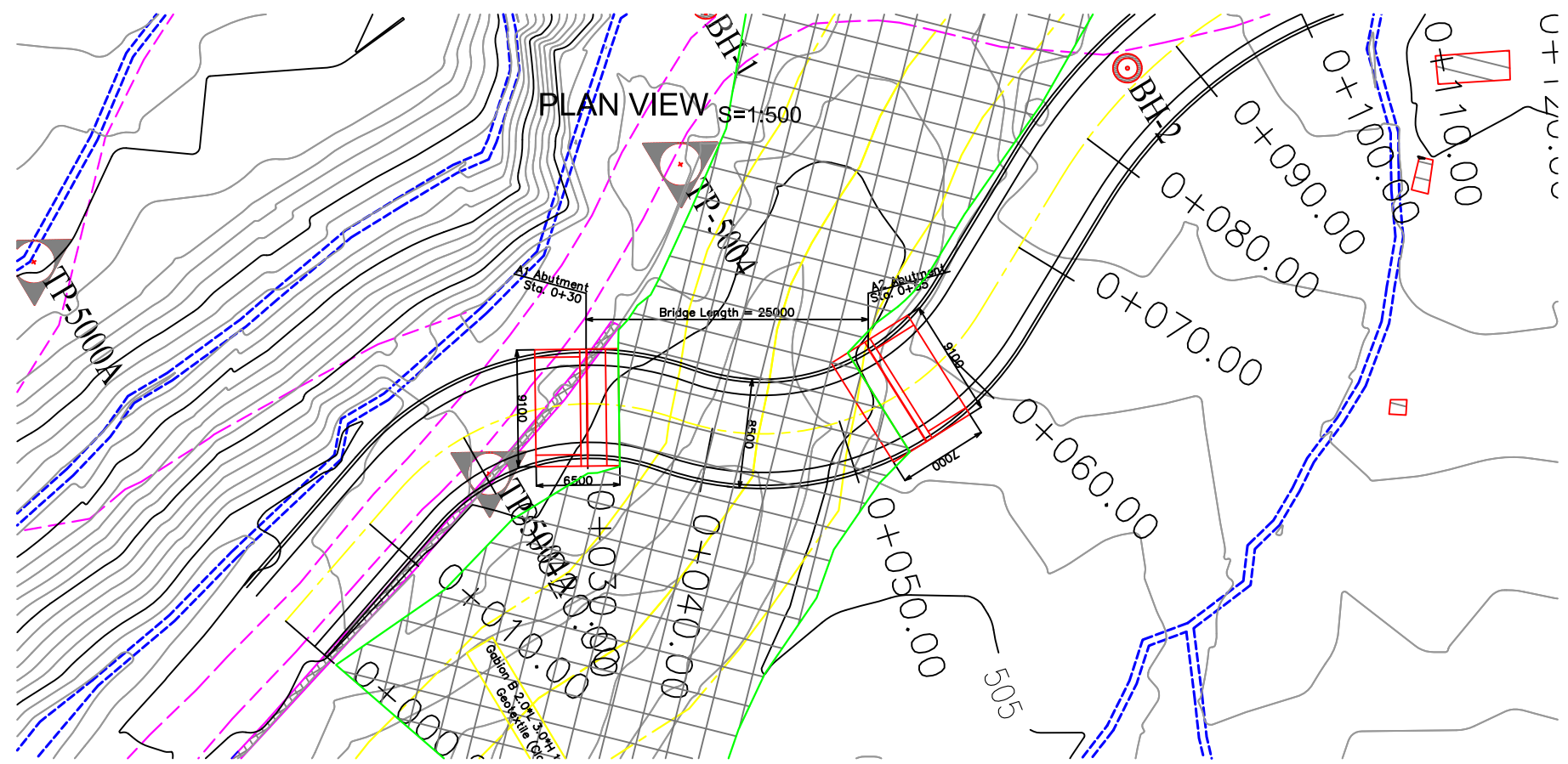
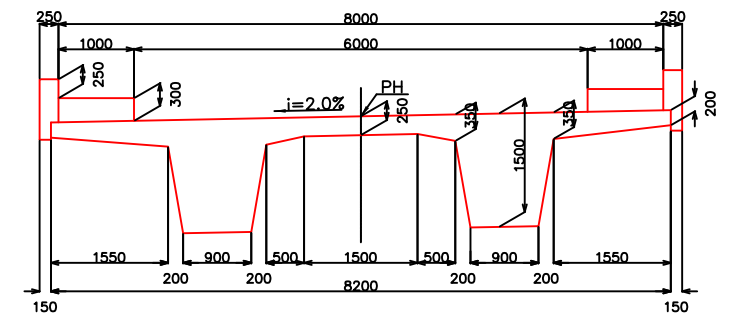
532 -
527 -
522 -
517 -
512 -
507 -
502 -

GENERAL VIEW OF KHAHARE KHOLA BRIDGE

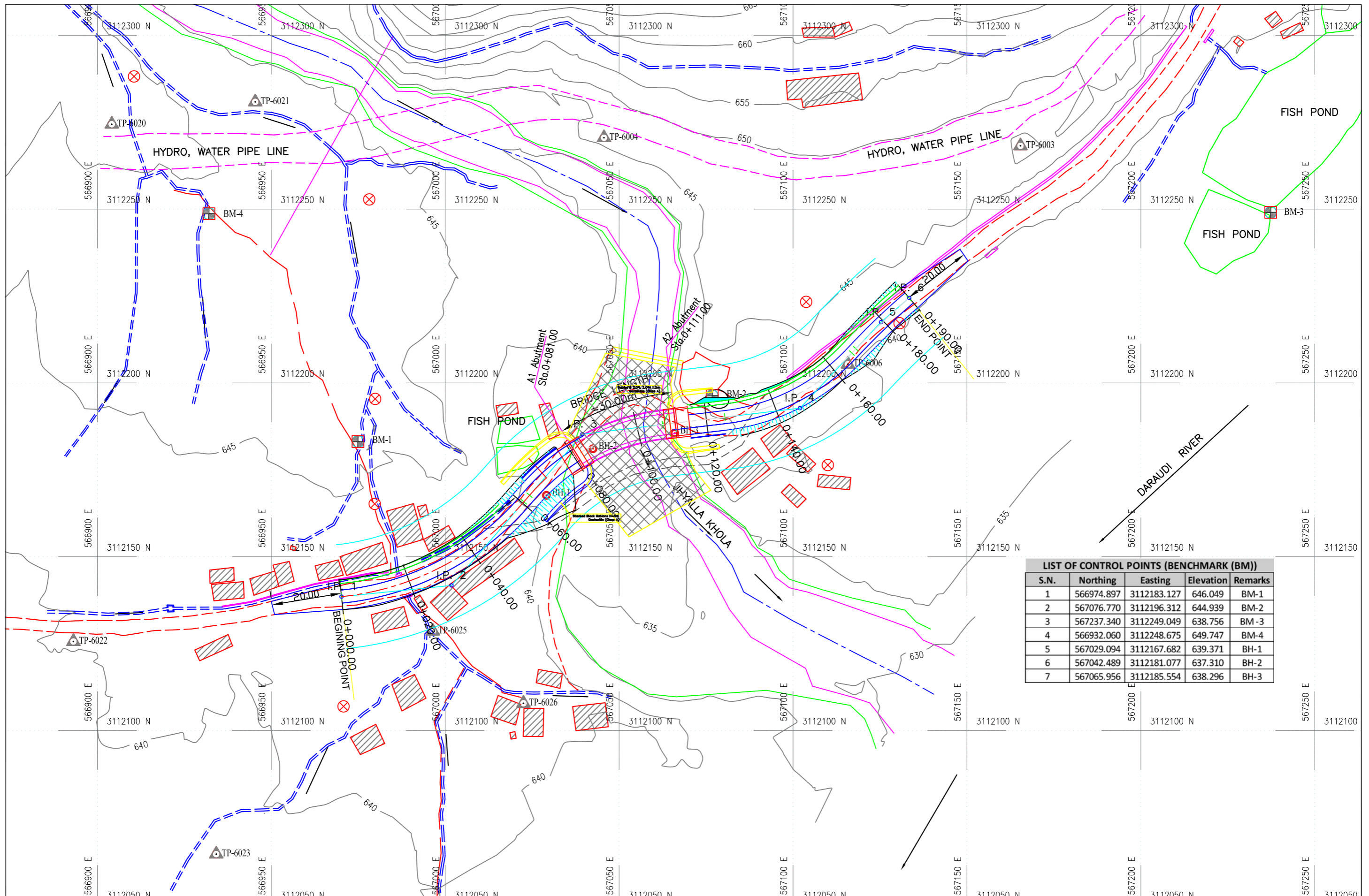
SIDE VIEW S=1:500



TYPICAL CROSS SECTION S=1:100



<p style="text-align: center;">THE PROJECT</p> <p style="text-align: center;">ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>	<p style="text-align: center;">SUB PROJECT</p> <p style="text-align: center;">CONSTRUCTION OF BRIDGES ALONG BARHAKILO - BARPAK ROAD</p>	<p style="text-align: center;">H:1/1000 V:1/500</p>	<p style="text-align: center;">GENERAL VIEW OF KHAHARE KHOLA BRIDGE</p>	<p style="text-align: center;">DWG. NO. D-5</p>
		<p style="text-align: center;">DEC. 2015</p>		<p style="text-align: center;">SHEET. NO. 6</p>



LIST OF CONTROL POINTS (BENCHMARK (BM))				
S.N.	Northing	Easting	Elevation	Remarks
1	566974.897	3112183.127	646.049	BM-1
2	567076.770	3112196.312	644.939	BM-2
3	567237.340	3112249.049	638.756	BM-3
4	566932.060	3112248.675	649.747	BM-4
5	567029.094	3112167.682	639.371	BH-1
6	567042.489	3112181.077	637.310	BH-2
7	567065.956	3112185.554	638.296	BH-3

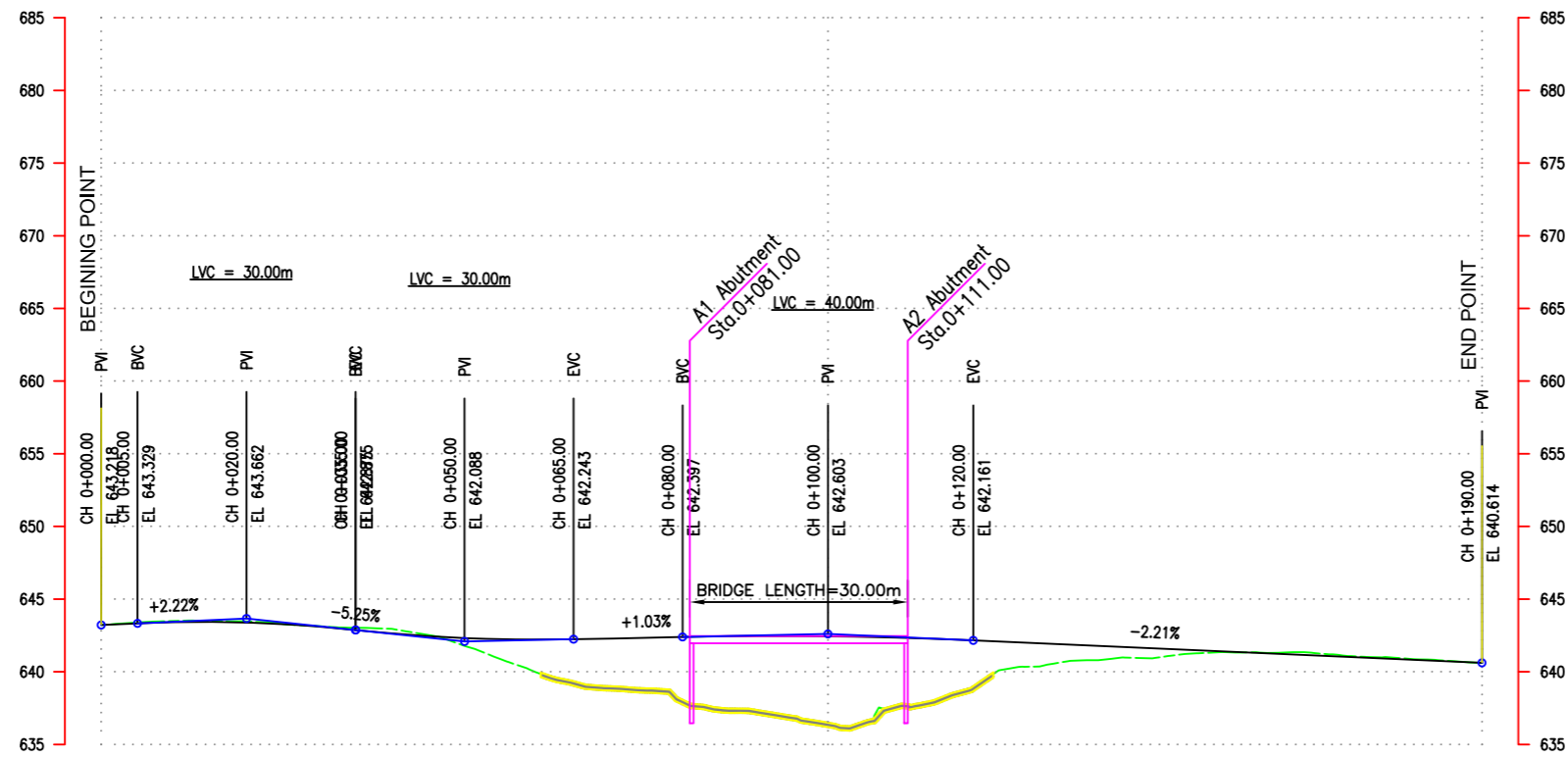
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

SCALE
 1:1000
 DEC. 2015

PLAN OF JHAYALLA KHOLA
BRIDGE

DWG. NO.
 D-6
 SHEET. NO.
 7



DESIGN LEVEL (m)	643.218	643.409	643.382	643.106	642.639	642.323	642.217	642.294	642.397	642.459	642.441	642.341	642.161	641.940	641.719	641.498	641.277	641.056	640.835	640.614
EXISTING LEVEL (m)	643.218	643.494	643.461	643.133	642.951	641.783	639.935	638.908	637.988	637.286	636.399	637.691	638.895	640.469	640.952	641.251	641.319	641.173	640.892	640.614
CHAINAGE (km)	0+000.00	0+010.00	0+020.00	0+030.00	0+040.00	0+050.00	0+060.00	0+070.00	0+080.00	0+090.00	0+100.00	0+110.00	0+120.00	0+130.00	0+140.00	0+150.00	0+160.00	0+170.00	0+180.00	0+190.00
HORIZONTAL ALIGNMENT	RIGHT	IP-01 R=0.00																		
	LEFT	IP-02 R=80.00																		
		IP-03 R=60.00																		
		IP-04 R=60.00																		
		IP-05 R=200.00																		
		IP-06 R=0.00																		

CHAINAGE : 0+000.00 - 0+190.00

IP.No	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
1	566970.184	3112138.538	84-12-04	0.000	00-00-00	0.000	0.000	0.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
2	567001.812	3112141.750	40-51-31	31.791	43-20-39	31.791	80.000	6.085	60.520	0+000.00	0+030.26	0+060.52	0+031.79
3	567039.438	3112185.250	83-09-50	57.515	42-18-25	23.217	60.000	4.335	44.304	0+063.03	0+085.18	0+107.33	0+086.25
4	567102.000	3112192.750	43-17-06	63.010	39-52-40	21.766	60.000	3.826	41.760	0+125.36	0+146.24	0+167.12	0+147.13
5	567125.312	3112217.501	49-19-54	34.001	06-02-40	10.560	200.000	0.279	21.100	0+168.80	0+179.35	0+189.90	0+179.36
6	567133.400	3112224.450	00-00-00	10.663	00-00-00	0.000	0.000	0.000	0.000	0+190.00	0+190.00	0+190.00	0+190.00

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

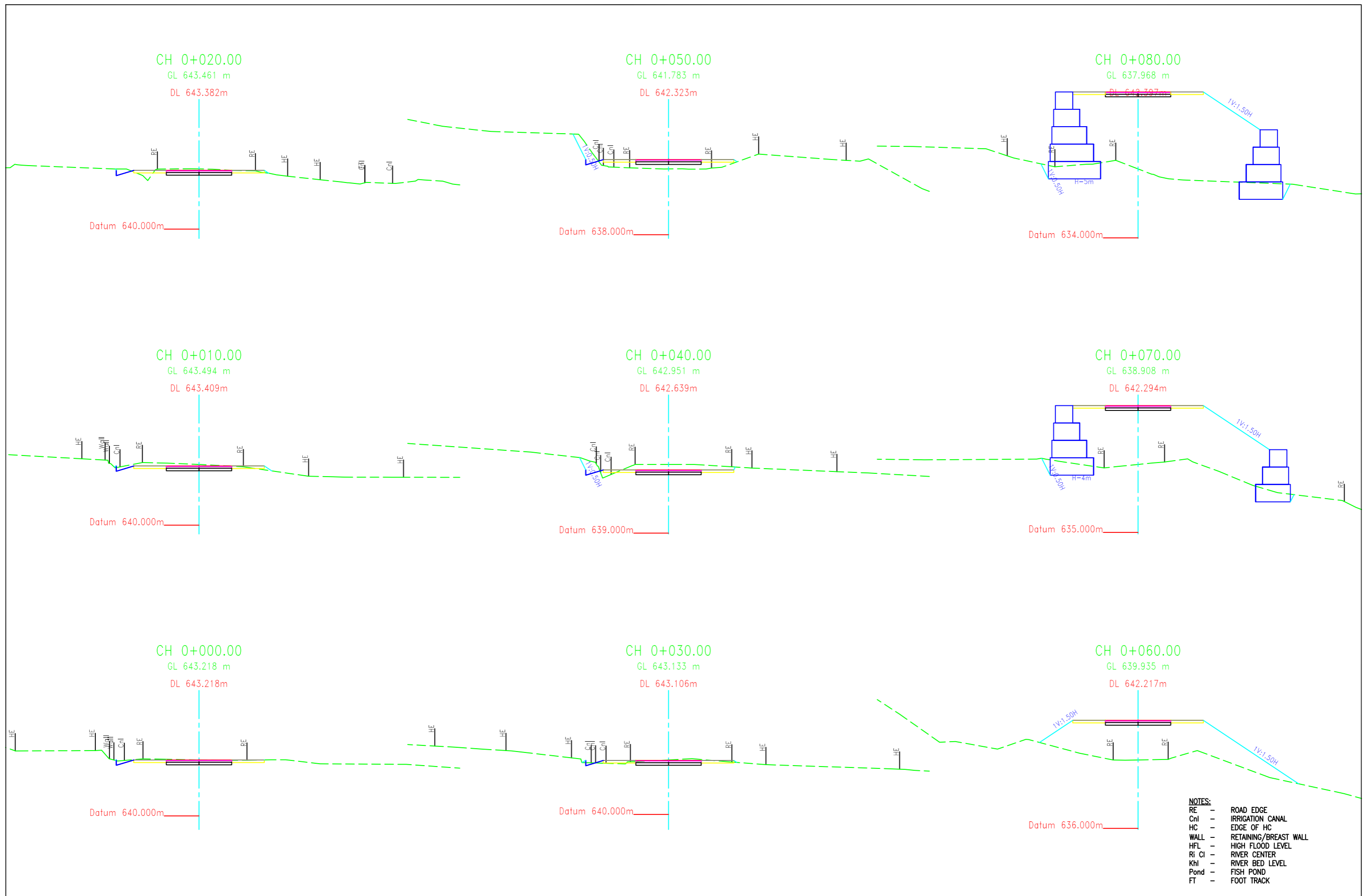
SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
H 1:1000
V 1:500
DEC. 2015

PROFILE OF JHAYALLA
KHOLA BRIDGE

DWG. NO.
D-7

SHEET. NO.
8



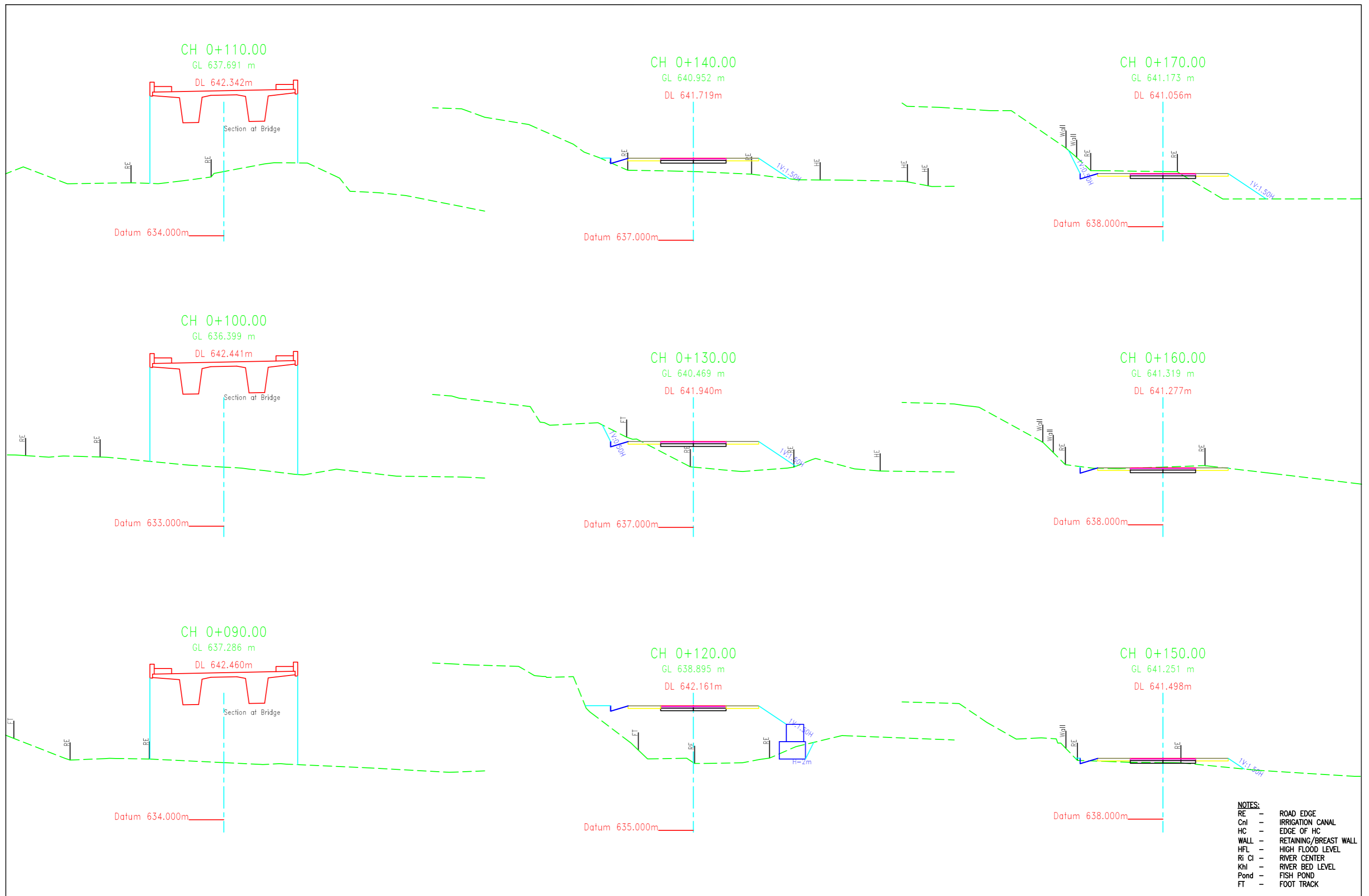
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK RE,
GORKHA DISTRICT

SCALE
1:200
DEC. 2015

CROSS SECTIONS OF
JHAYALLA KHOLA BRIDGE

DWG. NO.
D-8
SHEET. NO.
9



- NOTES:**
- RE - ROAD EDGE
 - Cnl - IRRIGATION CANAL
 - HC - EDGE OF HC
 - WALL - RETAINING/BREAST WALL
 - HFL - HIGH FLOOD LEVEL
 - Ri, Cl - RIVER CENTER
 - Kh - RIVER BED LEVEL
 - Pond - FISH POND
 - FT - FOOT TRACK

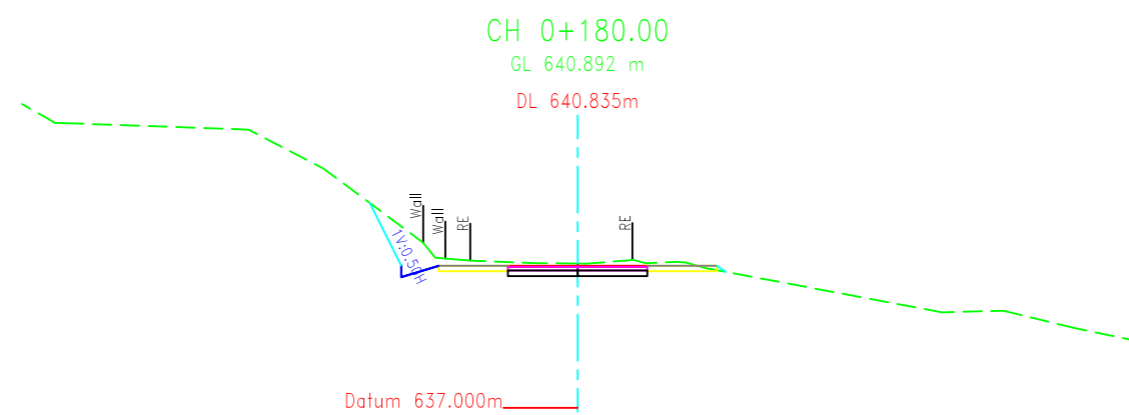
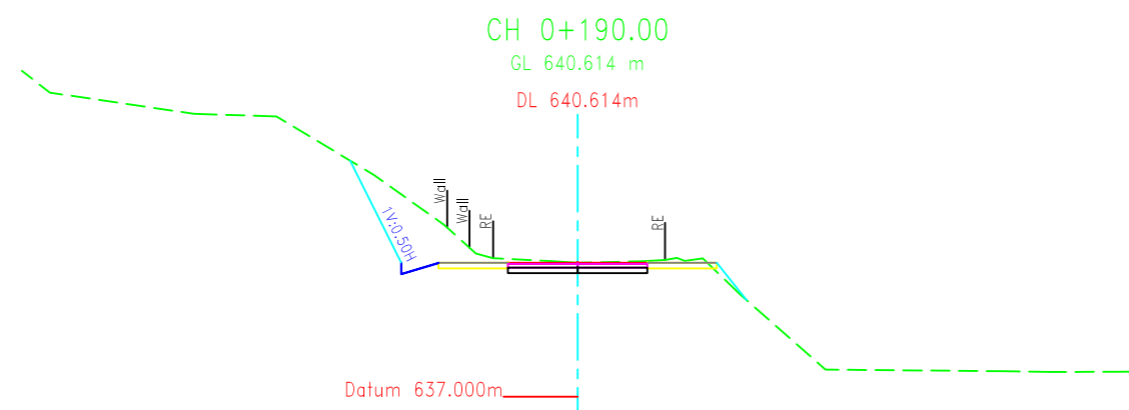
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK RE,
 GORKHA DISTRICT

SCALE
 H 1:1000
 V 1:500
 DEC. 2015

CROSS SECTIONS OF
JHAYALLA KHOLA BRIDGE

DWG. NO.
 D-8
 SHEET. NO.
 10



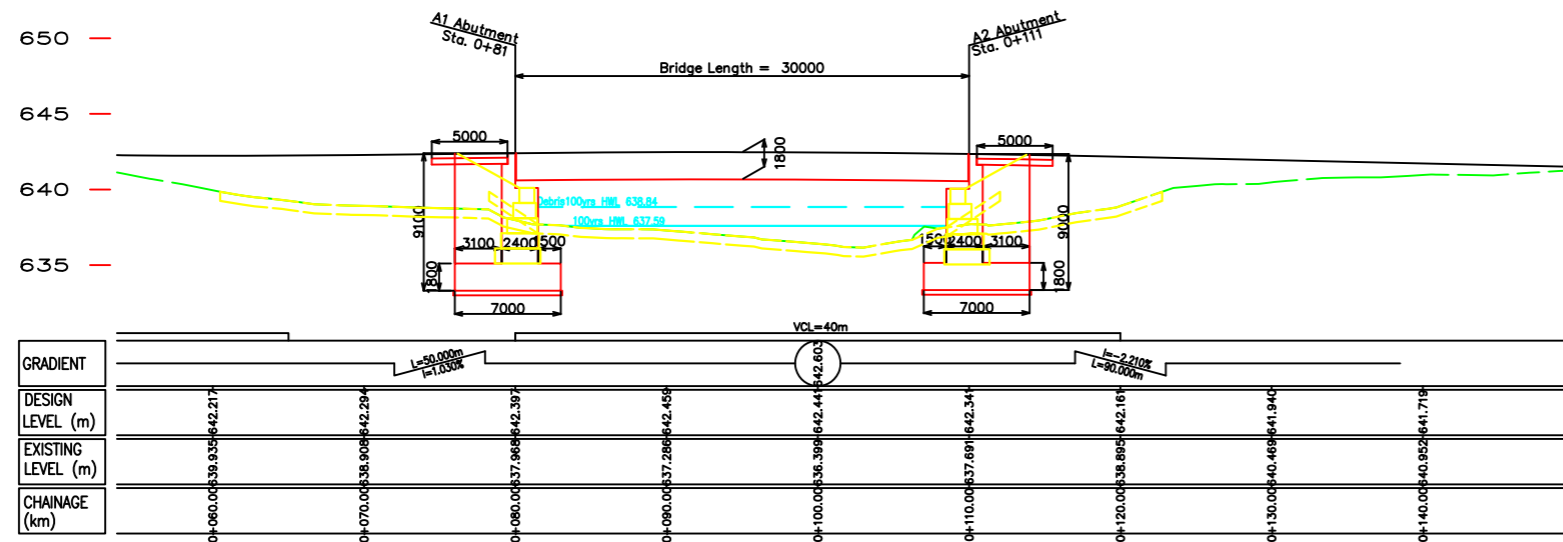
- NOTES:**
- RE - ROAD EDGE
 - Cnl - IRRIGATION CANAL
 - HC - EDGE OF HC
 - WALL - RETAINING/BREAST WALL
 - HFL - HIGH FLOOD LEVEL
 - Ri Cl - RIVER CENTER
 - Khl - RIVER BED LEVEL
 - Pond - FISH POND
 - FT - FOOT TRACK

<p align="center">THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>		<p>SUB PROJECT: THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION OF BRIDGES ON BARHAKILO-BARPAK RE, GORKHA DISTRICT</p>	<p>SCALE H 1:1000 V 1:500 DEC. 2015</p>	<p align="center">CROSS SECTIONS OF JHAYALLA KHOLA BRIDGE</p>	<p>DWG. NO. D-8 SHEET. NO. 11</p>
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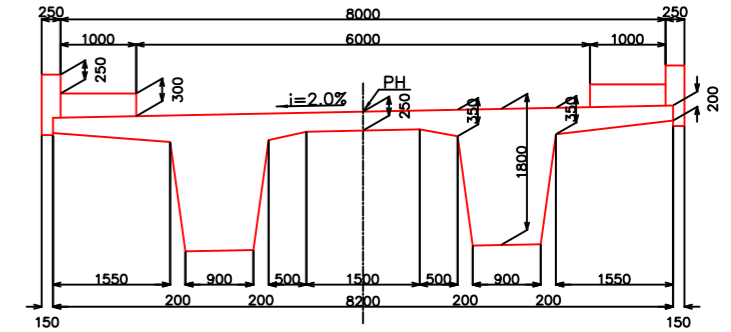
670 —
665 —
660 —
655 —
650 —
645 —
640 —
635 —

GENERAL VIEW OF JHYALLA KHOLA BRIDGE

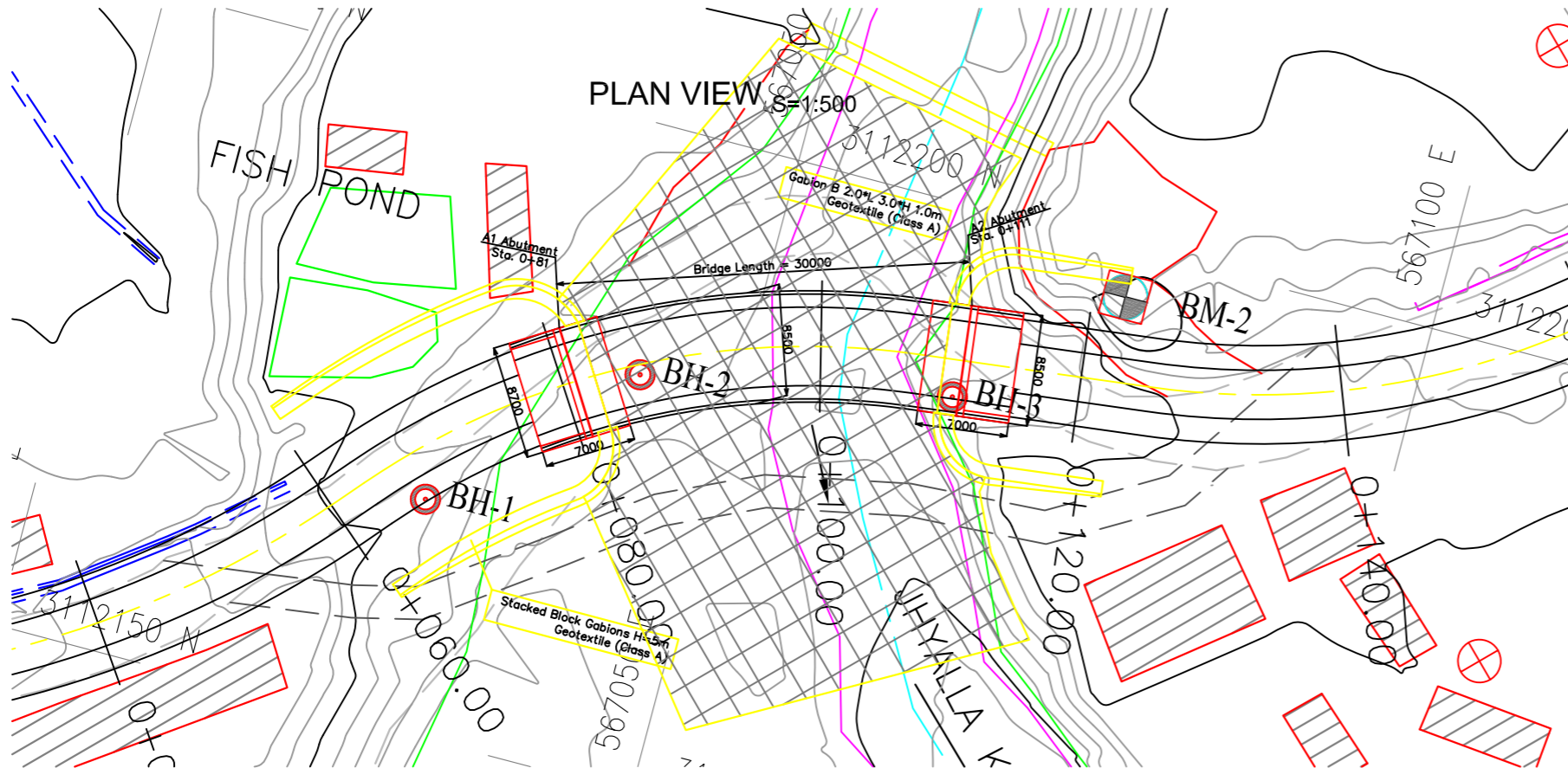
SIDE VIEW S=1:500



TYPICAL CROSS SECTION S=1:100



PLAN VIEW S=1:500

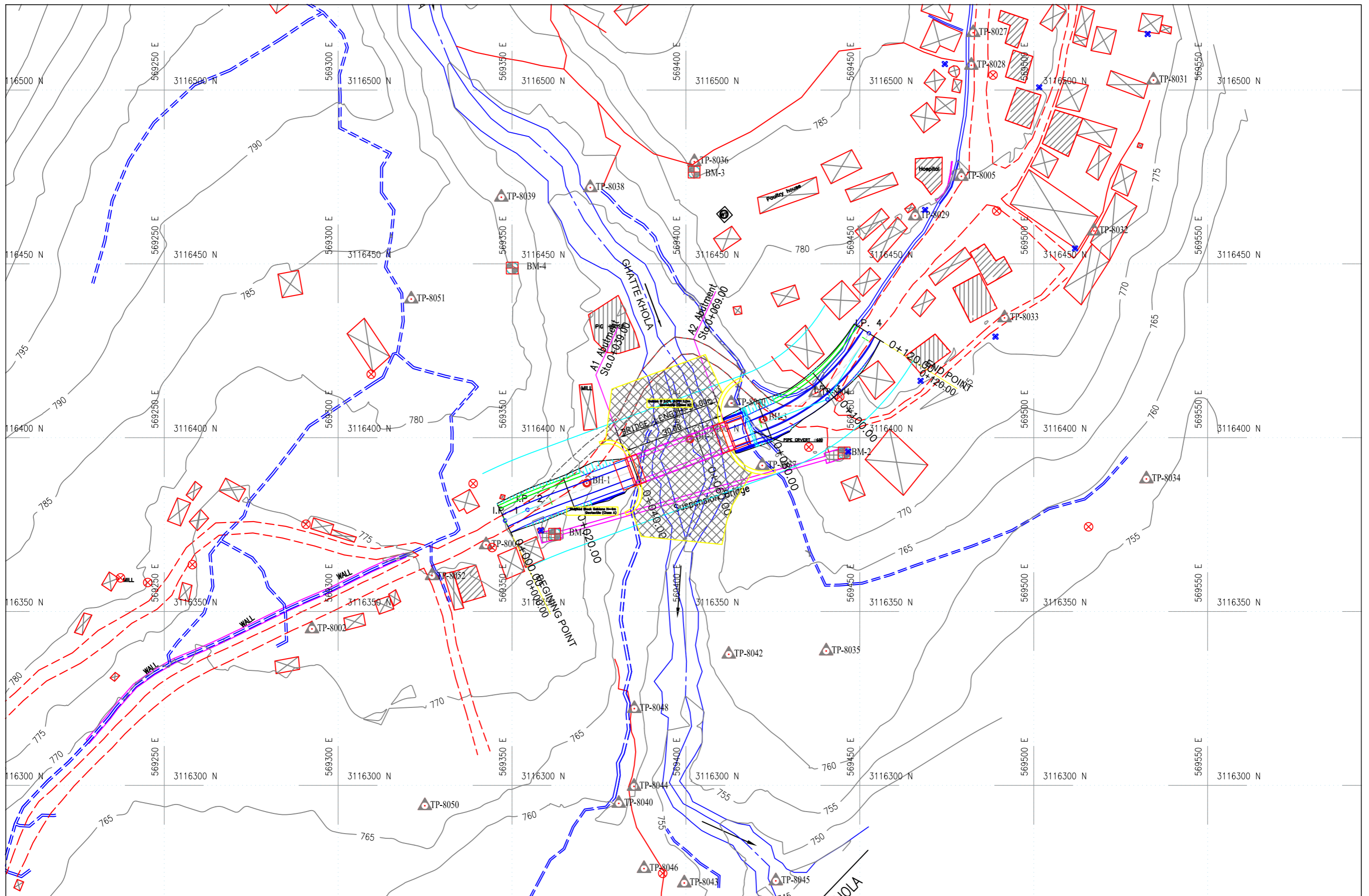


THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
CONSTRUCTION OF BRIDGES ALONG BARHAKILO - BARPAK ROAD

H:1/1000
V:1/500
DEC. 2015
GENERAL VIEW OF GHATTE
KHOLA BRIDGE

DWG NO
D-9
SHEET. NO.
12



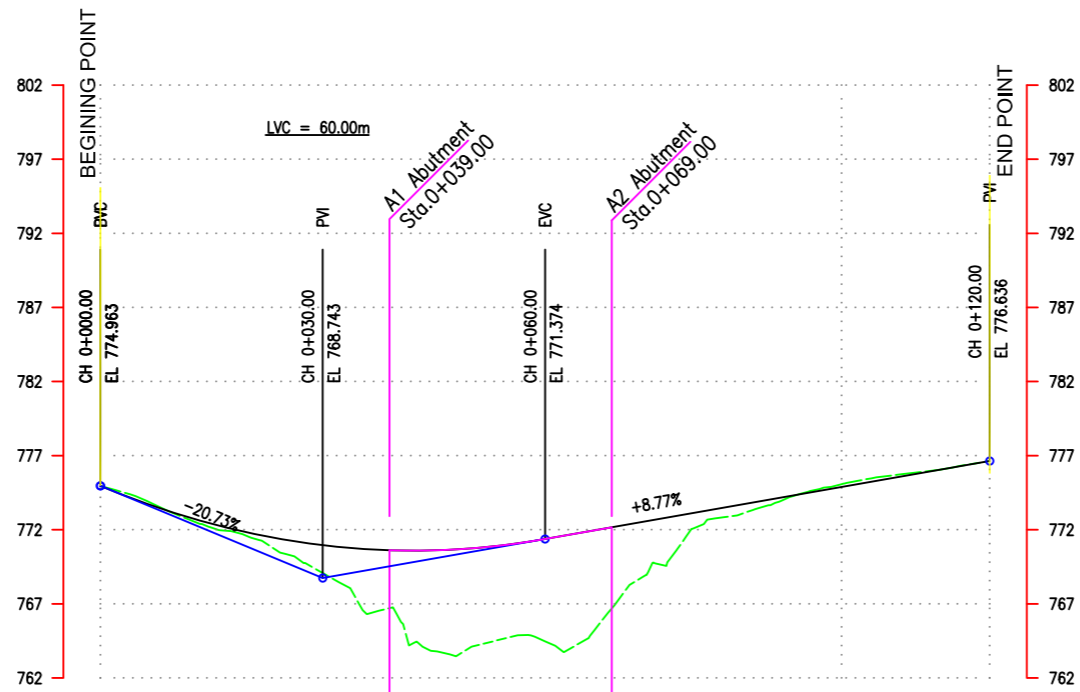
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

SCALE
 1:1000
 DEC. 2015

PLAN OF GAHTTE KHOLA
BRIDGE

DWG. NO.
 D-10
 SHEET. NO.
 13



DESIGN LEVEL (m)	774.963	773.136	771.800	770.956	770.603	770.743	771.374	772.251	773.128	774.005	774.882	775.759	776.636
EXISTING LEVEL (m)	774.963	773.079	771.530	769.078	766.287	764.082	764.472	767.341	772.092	773.638	775.077	775.853	776.636
CHAINAGE (km)	0+000.00	0+010.00	0+020.00	0+030.00	0+040.00	0+050.00	0+060.00	0+070.00	0+080.00	0+090.00	0+100.00	0+110.00	0+120.00

CHAINAGE : 0+000.00 - 0+120.00

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

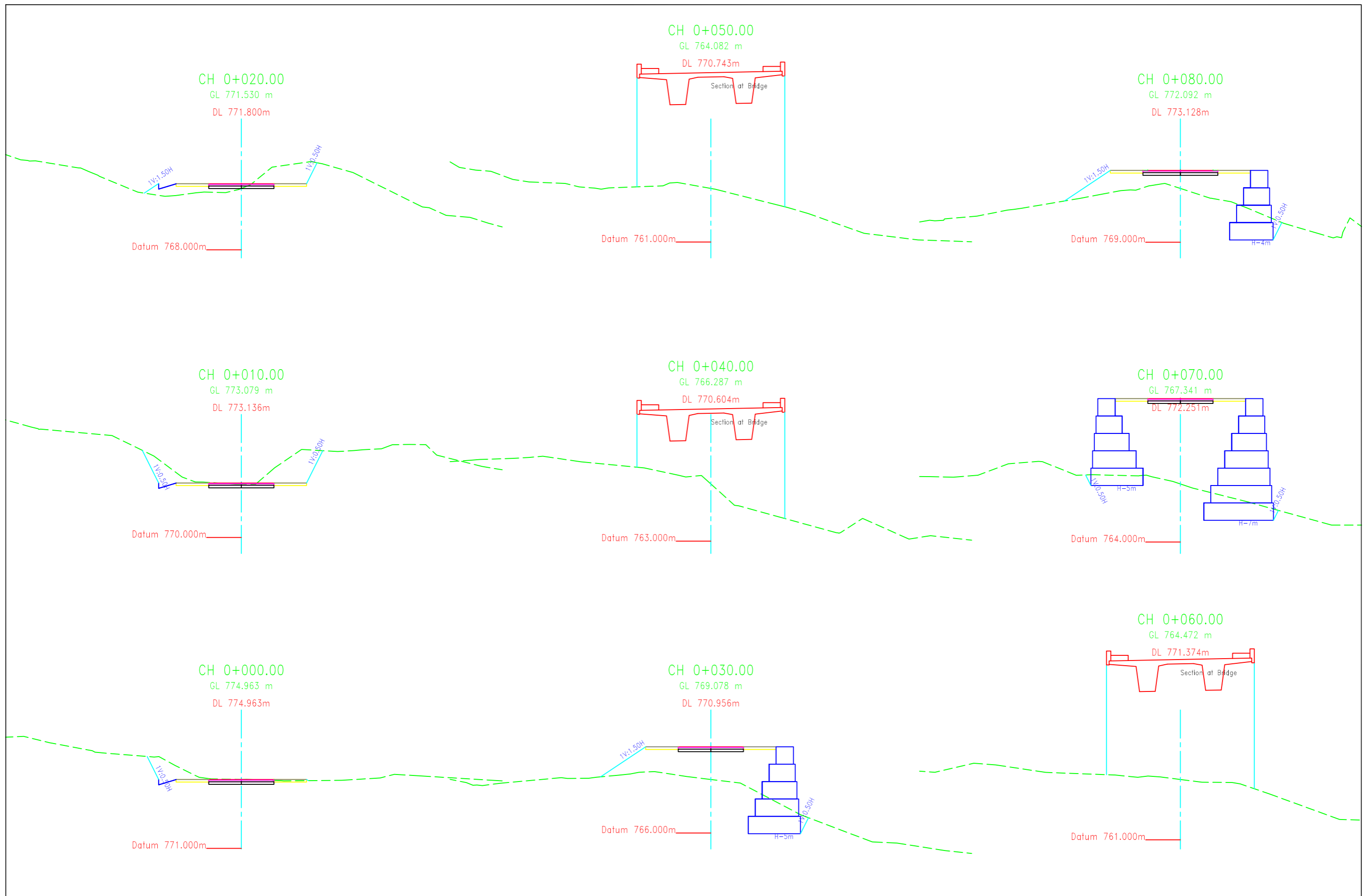
SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
H 1:1000
V 1:500
DEC. 2015

PROFILE OF GAHTTE
KHOLA BRIDGE

DWG. NO.
D-11

SHEET. NO.
14



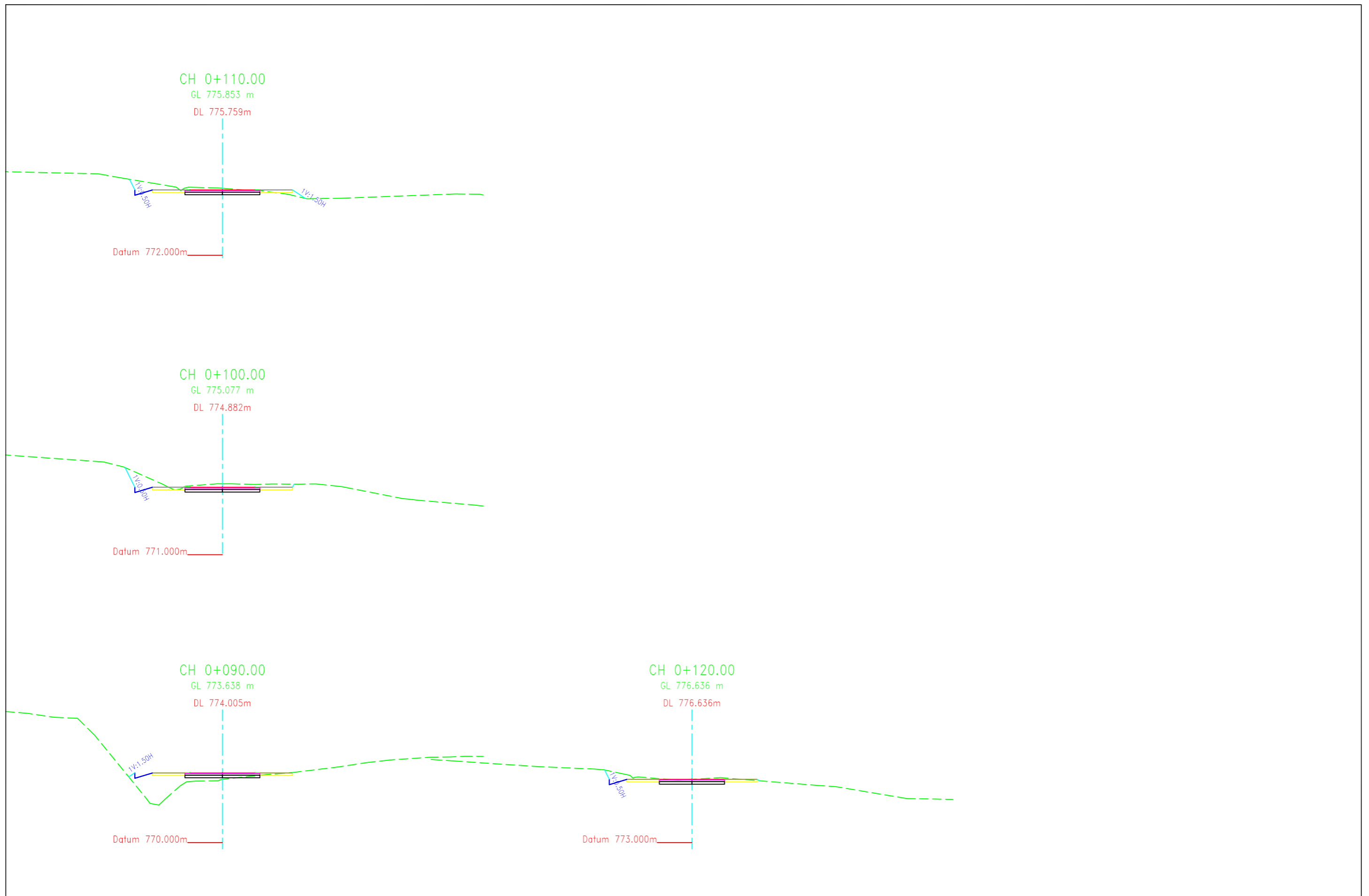
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

SCALE
 1:200
 DEC 2015

CROSS SECTIONS OF
GHATTE KHOLA BRIDGE

DWG. NO.
 D-12
 SHEET. NO.
 15



THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
1:200
DEC. 2015

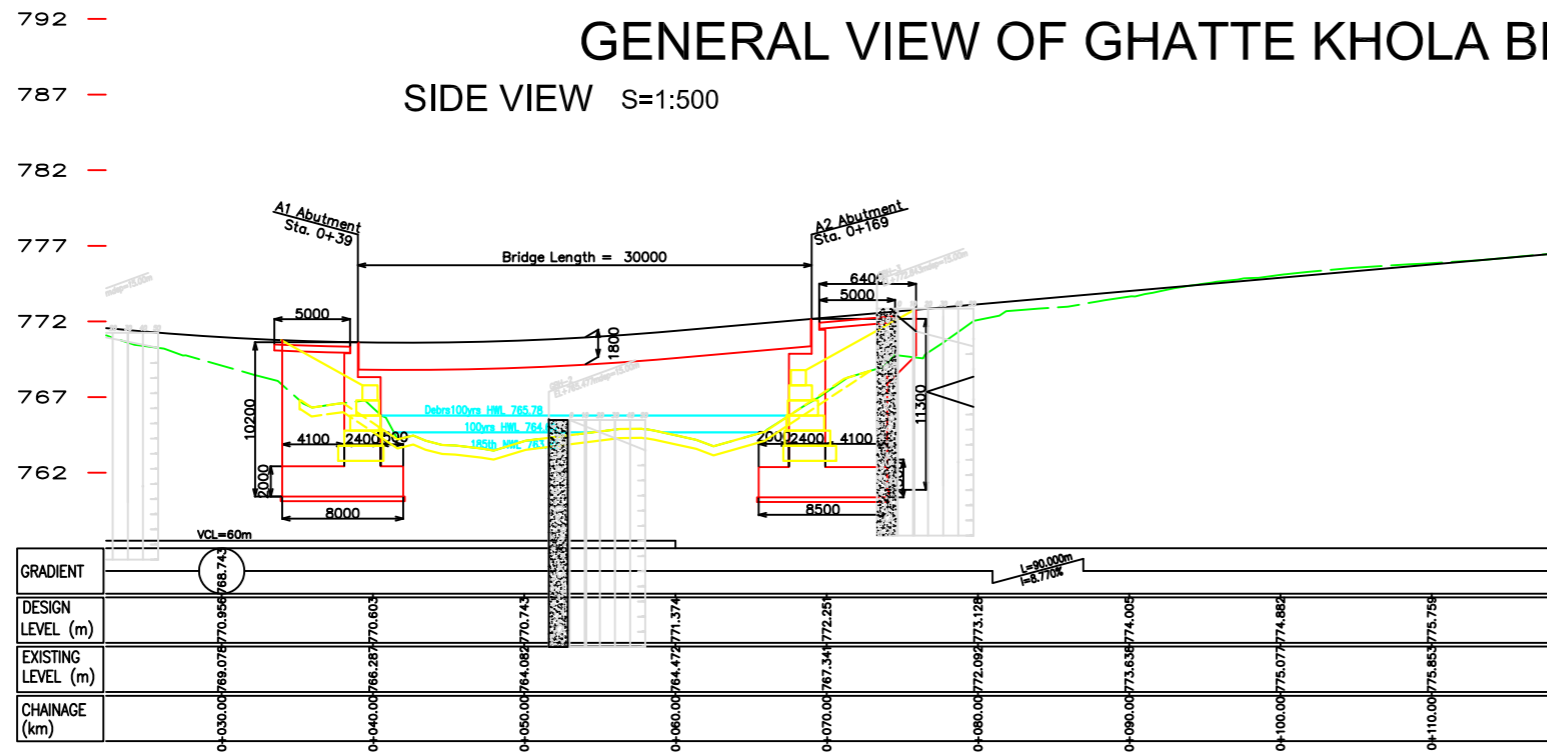
CROSS SECTIONS OF
GHATTE KHOLA BRIDGE

DWG. NO.
D-12
SHEET. NO.
16

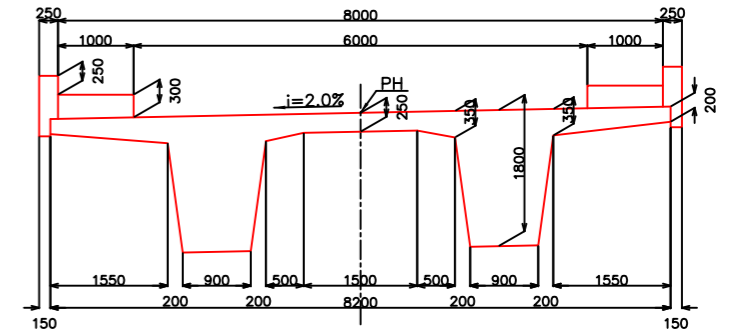
16250 N

GENERAL VIEW OF GHATTE KHOLA BRIDGE

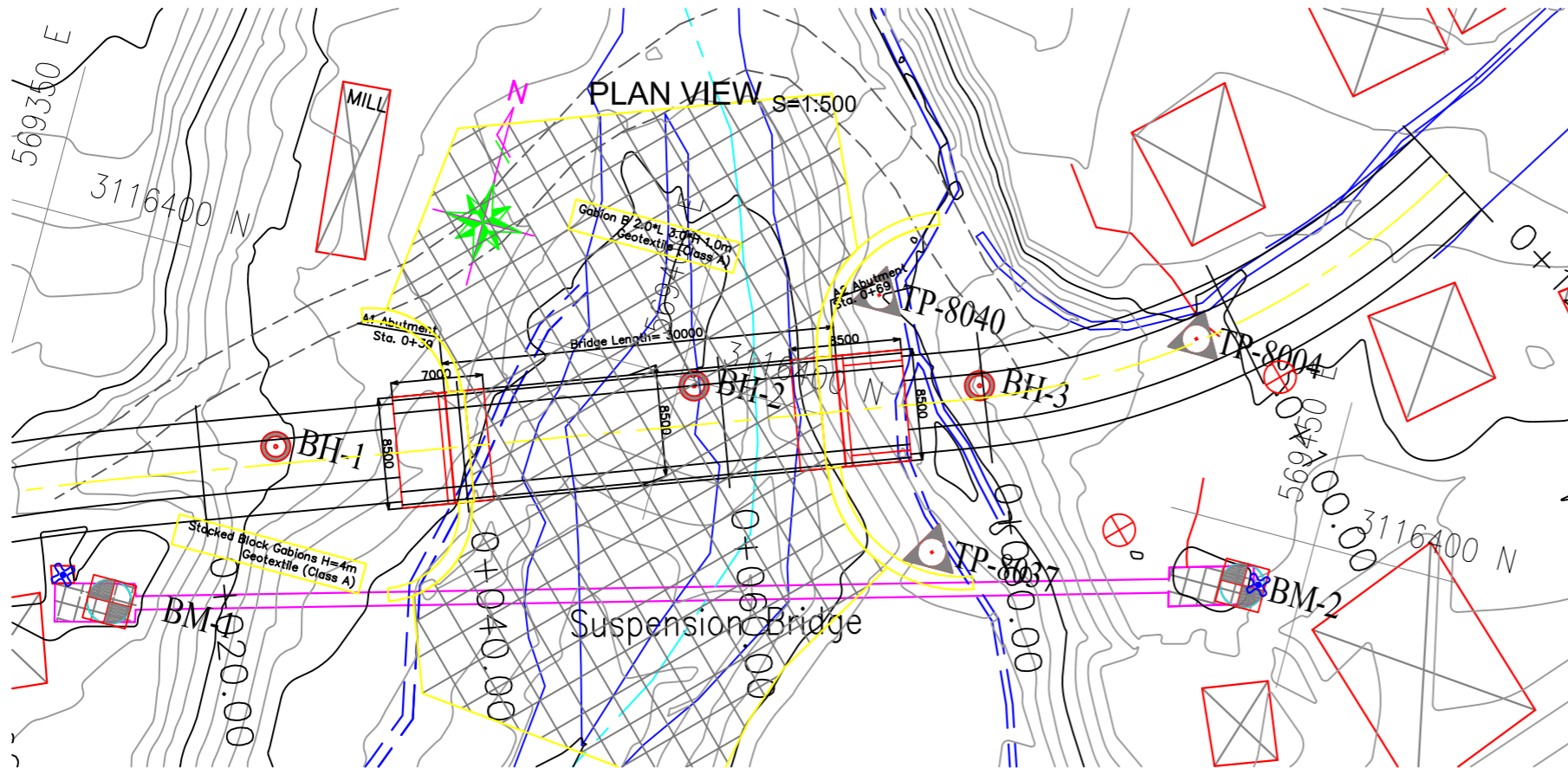
SIDE VIEW S=1:500



TYPICAL CROSS SECTION S=1:100



16200 N

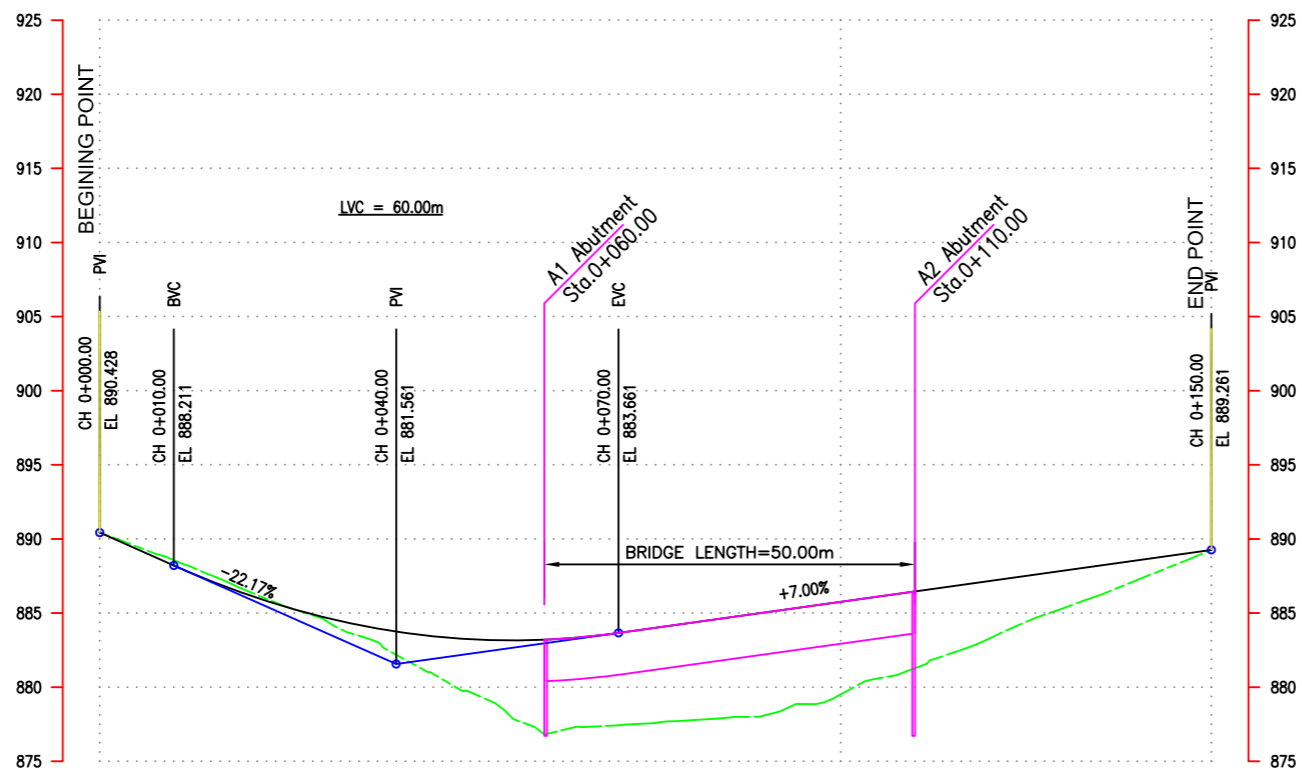


THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
CONSTRUCTION OF BRIDGES ALONG BARHAKILO - BARPAK ROAD

H:1/1000
V:1/500
DEC. 2015
GENERAL VIEW OF GHATTE
KHOLA BRIDGE

DWG NO
D-13
SHEET. NO.
17



DESIGN LEVEL (m)	890.428	888.211	886.238	884.750	883.748	883.233	883.204	883.661	884.361	885.061	885.761	886.461	887.161	887.861	888.561	889.261
EXISTING LEVEL (m)	890.428	886.572	886.468	884.646	882.188	879.664	876.814	877.429	877.771	878.132	879.515	881.280	883.272	885.323	887.235	889.261
CHAINAGE (km)	0+000.00	0+010.00	0+020.00	0+030.00	0+040.00	0+050.00	0+060.00	0+070.00	0+080.00	0+090.00	0+100.00	0+110.00	0+120.00	0+130.00	0+140.00	0+150.00
HORIZONTAL ALIGNMENT	RIGHT	IP-02 R=200.00														
	LEFT	IP-01 R=0.00														

CHAINAGE : 0+000.00 - 0+150.00

IP.No	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE				
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP	
1	570386.500	3119019.500	83-14-52	0.000	00-00-00	0.000	0.000	0.000	0.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
2	570475.188	3119030.000	101-18-14	89.307	18-03-14	31.773	200.000	2.508	63.020	0+057.53	0+089.04	0+120.55	0+089.30	
3	570535.220	3119018.000	00-00-00	61.220	00-00-00	0.000	200.000	0.000	0.000	0+150.00	0+150.00	0+150.00	0+150.00	

THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

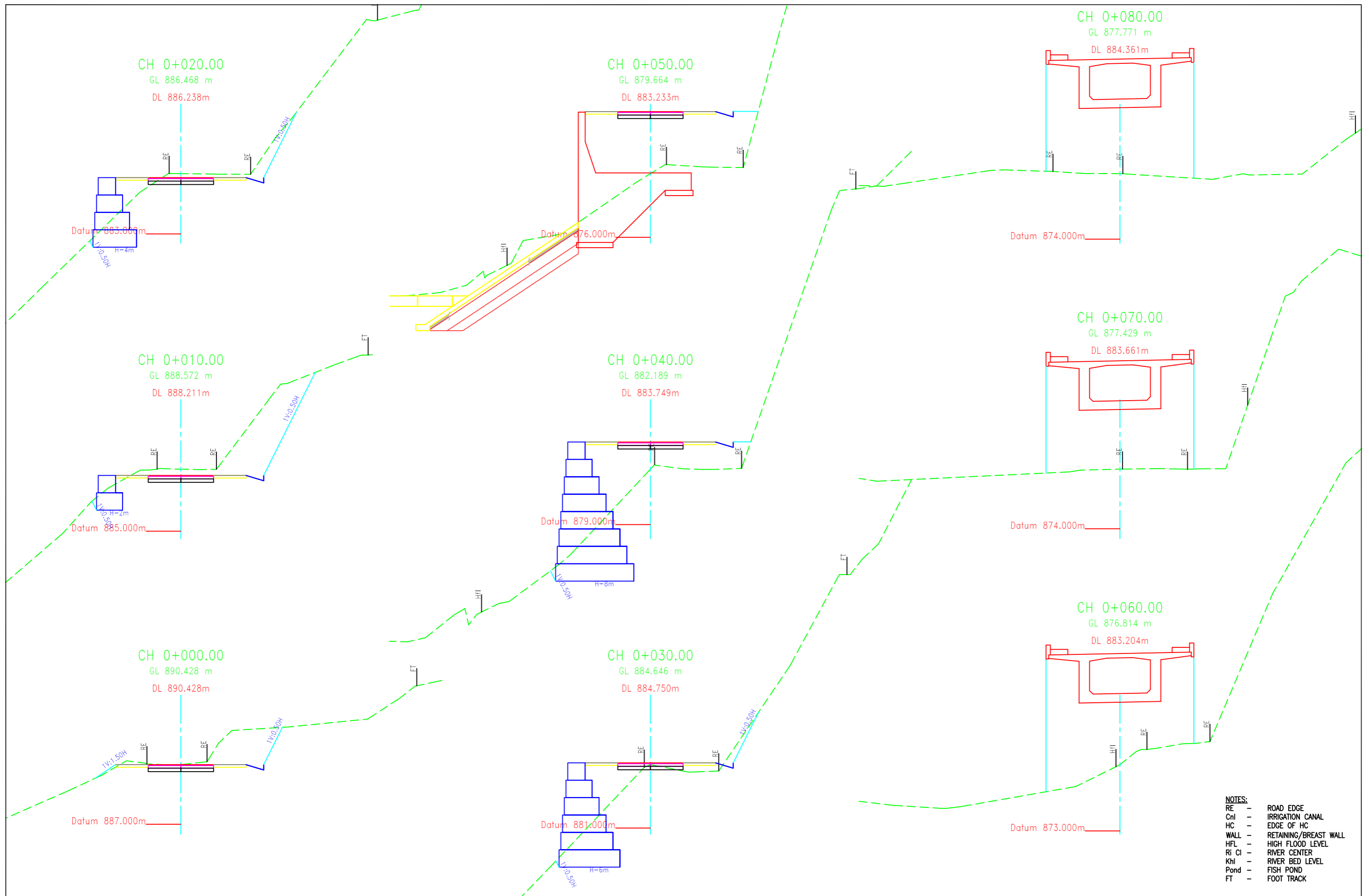
SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
H 1:1000
V 1:500
DEC. 2015

PROFILE OF RANGRUNG
KHOLA BRIDGE

DWG. NO.
D-15

SHEET. NO.
19



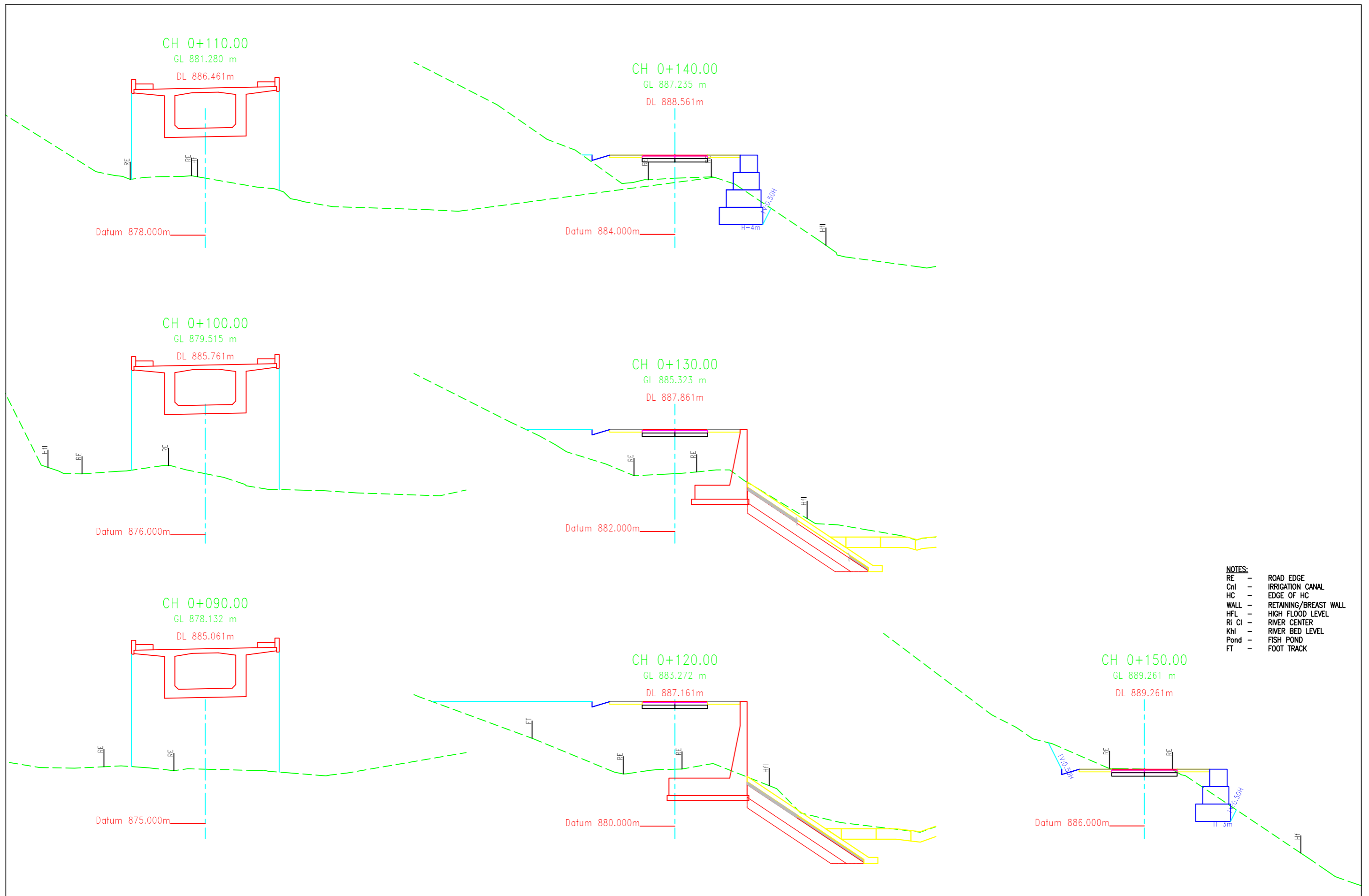
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

SCALE
H 1:1000
V 1:500
DEC. 2015

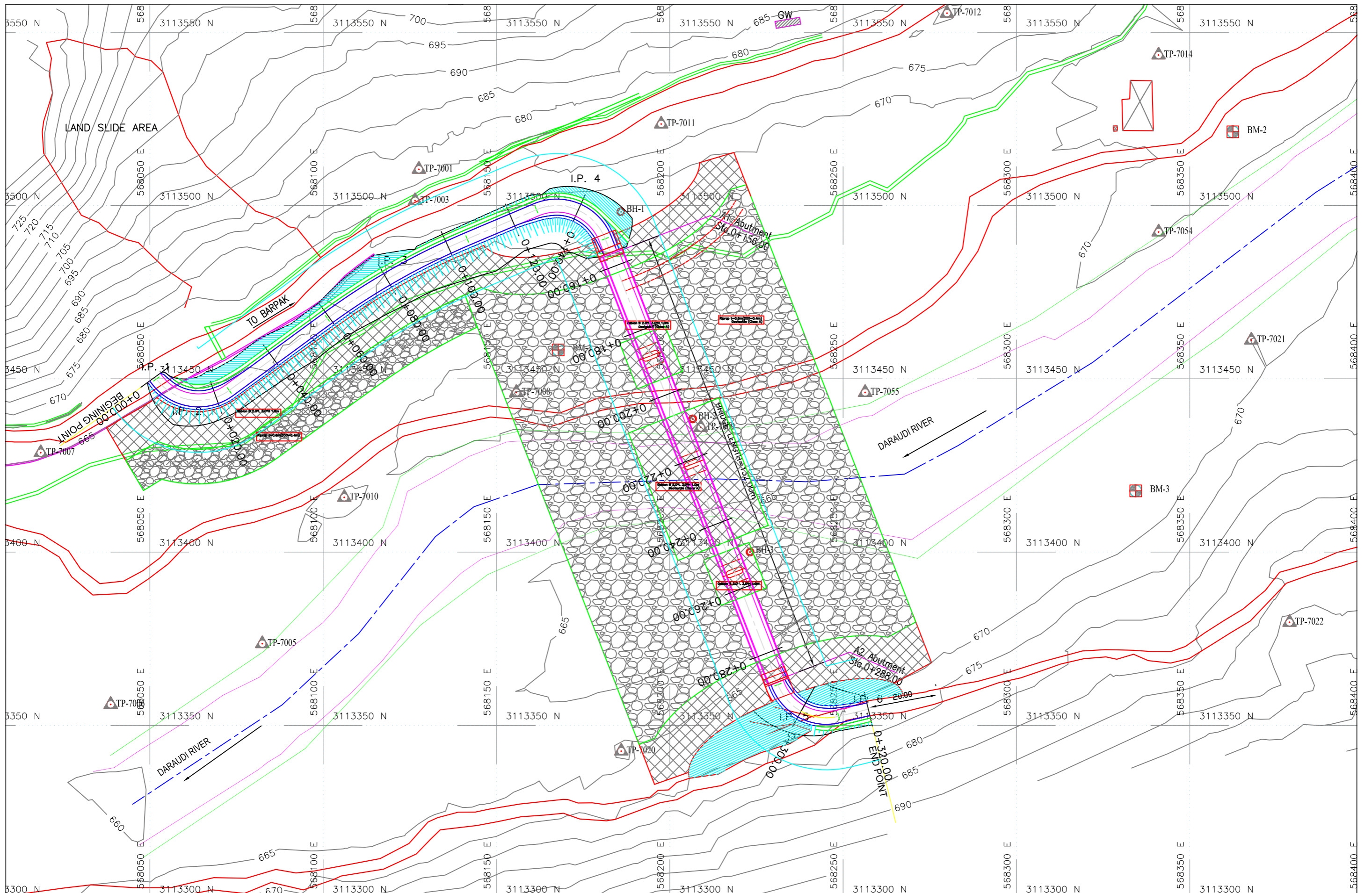
**CROSS SECTIONS OF
RANGRUNG KHOLA BRIDGE**

DWG. NO.
D-16
SHEET. NO.
20



- NOTES:**
- RE - ROAD EDGE
 - Cnl - IRRIGATION CANAL
 - HC - EDGE OF HC
 - WALL - RETAINING/BREAST WALL
 - HFL - HIGH FLOOD LEVEL
 - Ri Ci - RIVER CENTER
 - KhI - RIVER BED LEVEL
 - Pond - FISH POND
 - FT - FOOT TRACK

<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>		<p>SUB PROJECT: THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION OF BRIDGES ON BARHAKILO-BARPAK ROAD, GORKHA DISTRICT</p>	<p>SCALE H 1:1000 V 1:500 DEC. 2015</p>	<p>CROSS SECTIONS OF RANGRUNG KHOLA BRIDGE</p>	<p>DWG. NO. D-16 SHEET. NO. 21</p>
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THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

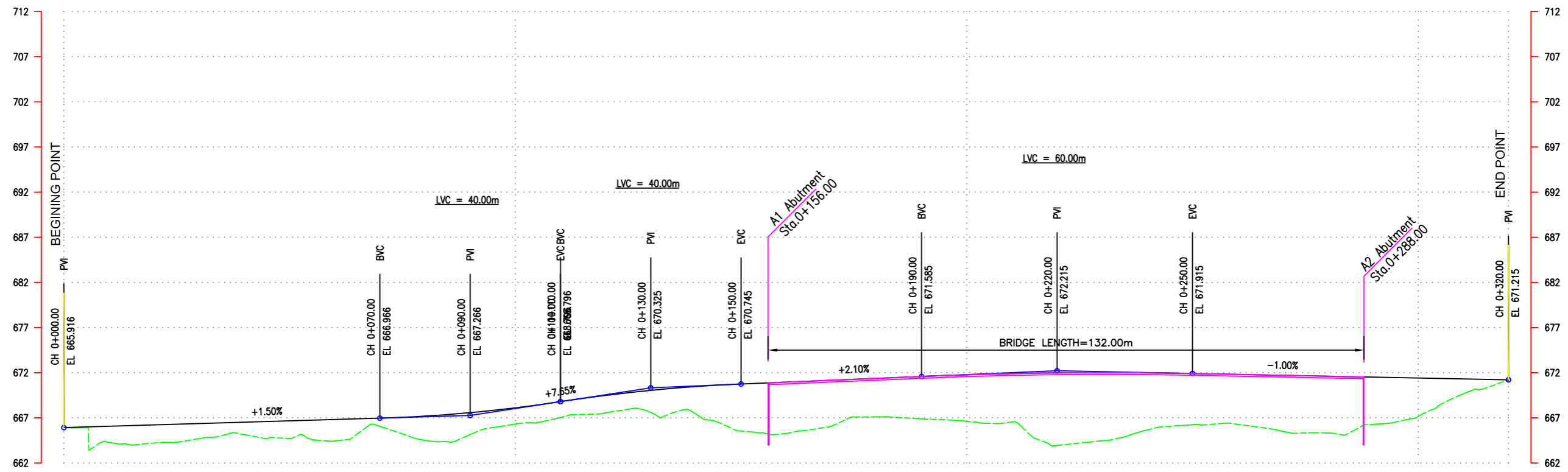
SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

SCALE
 1:1000
 DEC. 2015

**PLAN OF DARAUDI KHOLA
 BRIDGE**

DWG. NO.
 D-18
SHEET. NO.
 23

9-3-25

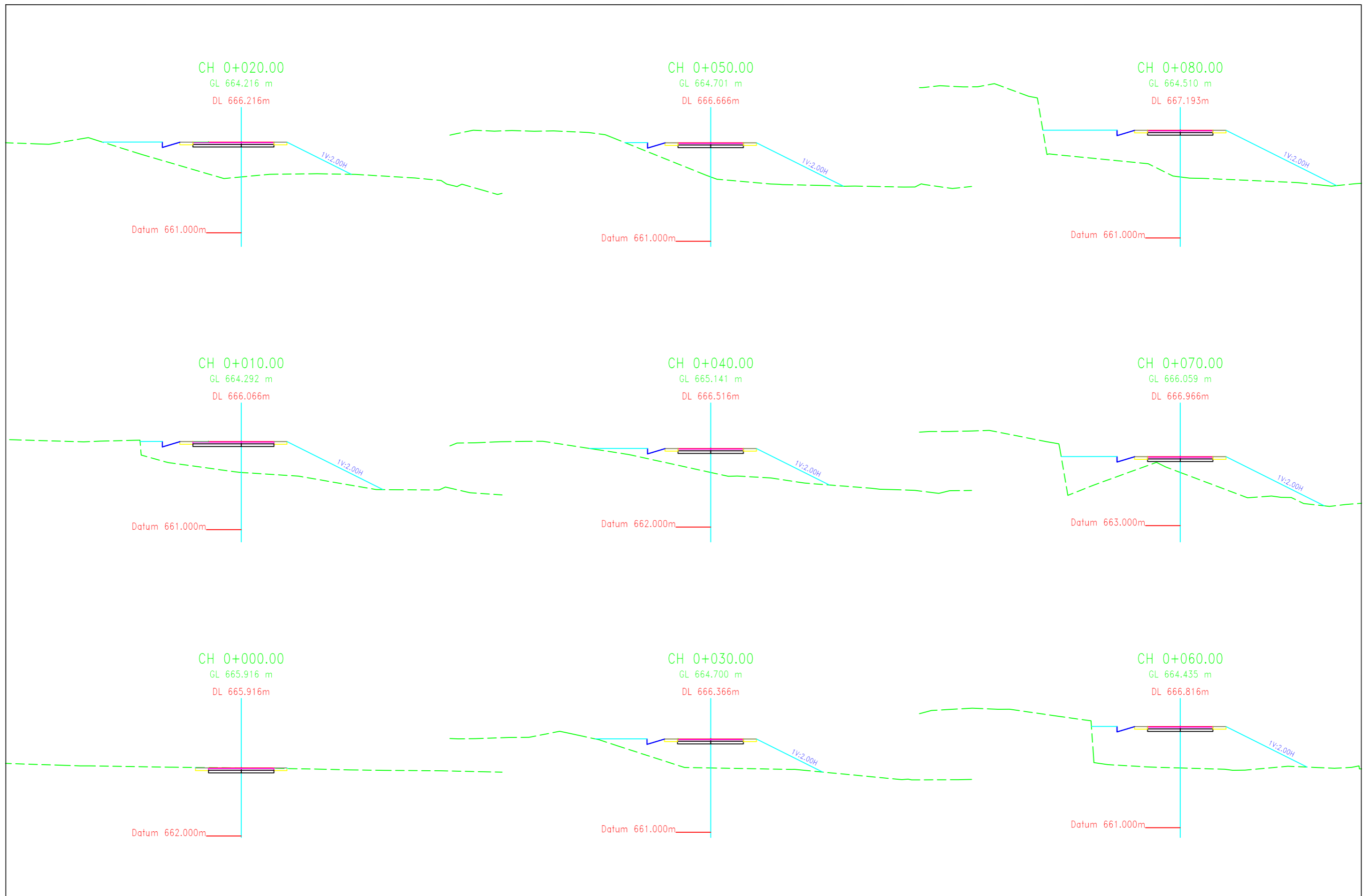


DESIGN LEVEL (m)	665.916	666.066	666.216	666.366	666.516	666.666	666.816	666.966	667.193	667.573	668.108	668.796	669.491	670.048	670.466	670.745	670.965	671.165	671.375	671.585	671.769	671.902	671.983	672.012	671.989	671.915	671.815	671.715	671.615	671.515	671.415	671.315	671.215	
EXISTING LEVEL (m)	665.916	664.292	664.216	664.700	665.141	664.701	664.435	666.059	664.510	665.144	666.312	667.036	667.551	667.605	667.420	665.538	665.274	666.061	667.107	666.882	666.612	666.546	663.939	664.459	665.670	666.238	666.279	665.501	665.320	666.285	667.139	669.665	671.215	
CHAINAGE (km)	0+000.00	0+010.00	0+020.00	0+030.00	0+040.00	0+050.00	0+060.00	0+070.00	0+080.00	0+090.00	0+100.00	0+110.00	0+120.00	0+130.00	0+140.00	0+150.00	0+160.00	0+170.00	0+180.00	0+190.00	0+200.00	0+210.00	0+220.00	0+230.00	0+240.00	0+250.00	0+260.00	0+270.00	0+280.00	0+290.00	0+300.00	0+310.00	0+320.00	
HORIZONTAL ALIGNMENT	RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT		LEFT		RIGHT	
	IP-01	IP-02	IP-03	IP-04	IP-05	IP-06																												
	R=0.00	R=15.00	R=200.00	R=15.00	R=0.00	R=15.00																												

CHAINAGE : 0+000.00 - 0+320.00

IP.No	CO-ORDINATES(m)		WCB (D-M-S)	DIST (m)	DEF. ANG (D-M-S)	TAN. LEN. (m)	SIMPLE CURVE DATA			CHAINAGE			
	EASTING	NORTHING					R (m)	E (m)	LC (m)	BC	MC	EC	IP
1	568051.500	3113450.500	144-02-22	0.000	00-00-00	0.000	0.000	0.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
2	568060.750	3113437.750	53-44-35	15.752	90-17-53	15.078	15.000	6.269	23.640	0+000.67	0+012.49	0+024.31	0+015.75
3	568120.062	3113481.250	67-03-40	73.554	13-18-55	23.345	200.000	1.358	46.480	0+059.44	0+082.68	0+105.92	0+082.79
4	568175.788	3113504.834	158-49-55	60.511	91-46-14	15.471	15.000	6.549	24.026	0+127.62	0+139.64	0+151.65	0+143.09
5	568235.938	3113349.500	76-26-17	166.573	82-23-28	13.130	15.000	4.934	21.570	0+289.62	0+300.41	0+311.19	0+302.75
6	568257.263	3113354.644	00-00-00	21.937	00-00-00	0.000	0.000	0.000	0.000	0+320.00	0+320.00	0+320.00	0+320.00

THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL	SUB PROJECT: THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION OF BRIDGES ON BARHAKILO-BARPAK ROAD, GORKHA DISTRICT	SCALE H 1:1000 V 1:500 DEC. 2015	PROFILE OF DARAUDI KHOLA BRIDGE	DWG. NO. D-19 SHEET. NO. 24
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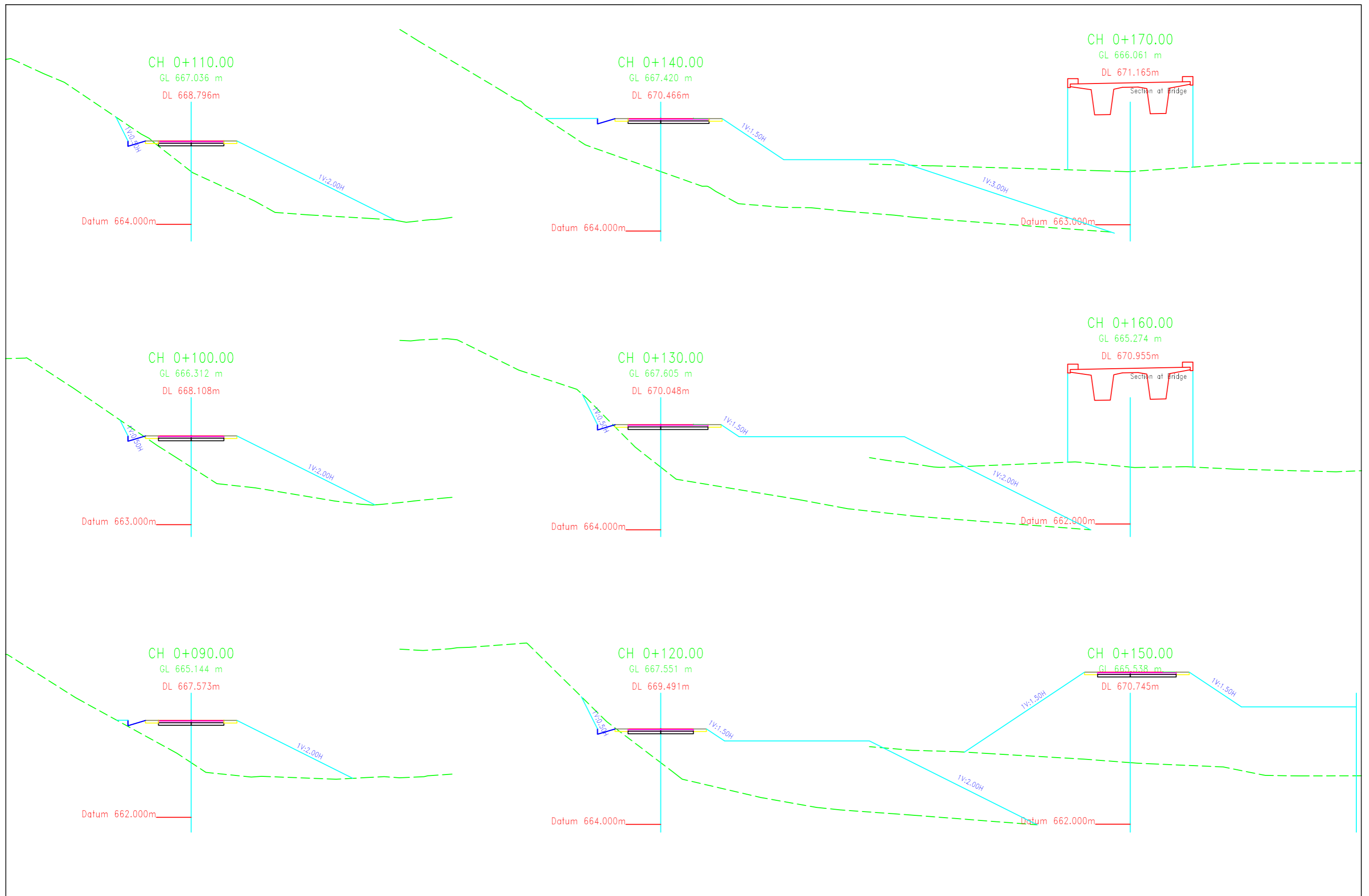
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

SCALE
 1:200
 DEC. 2015

CROSS SECTIONS OF
DARAUDI KHOLA BRIDGE
(MAIN DARAUDI KHOLA BRIDGE)

DWG. NO.
 D-20
 SHEET. NO.
 25



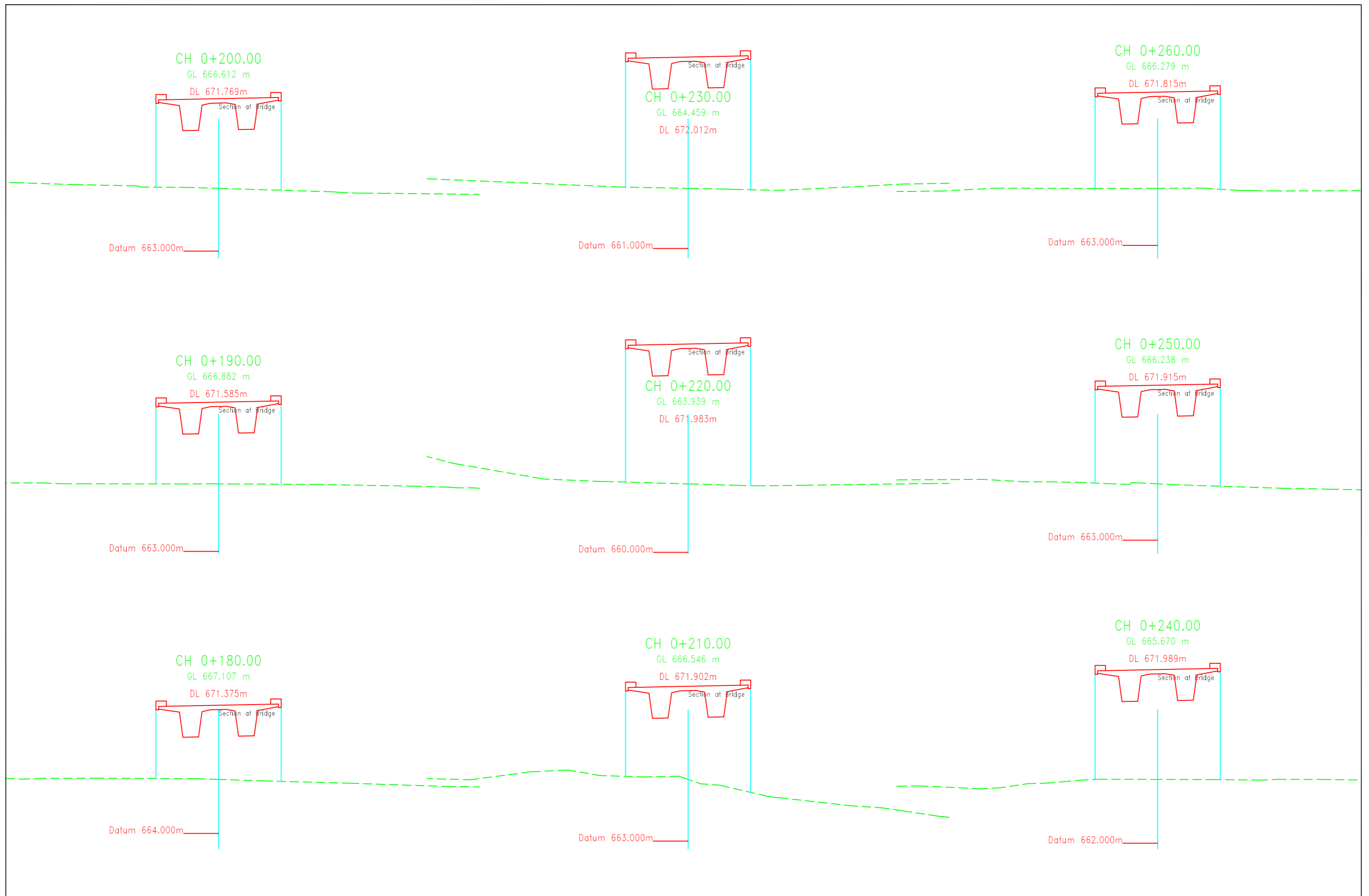
THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
 THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
 OF BRIDGES ON BARHAKILO-BARPAK ROAD,
 GORKHA DISTRICT

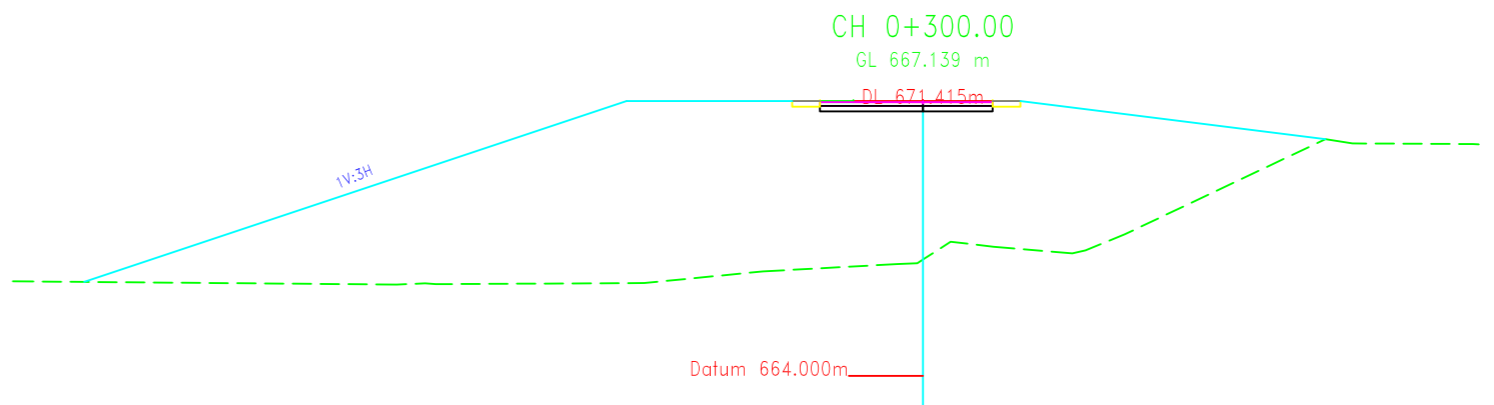
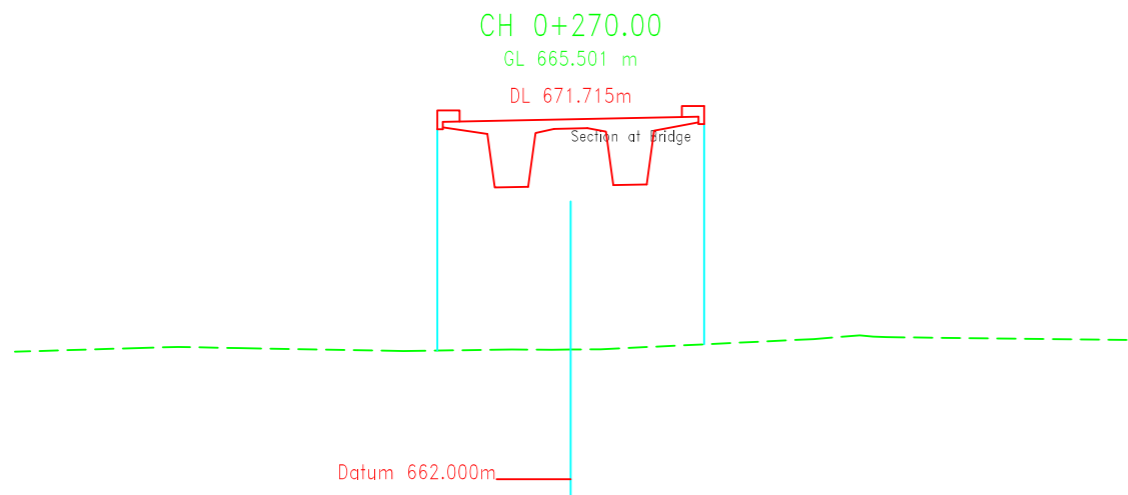
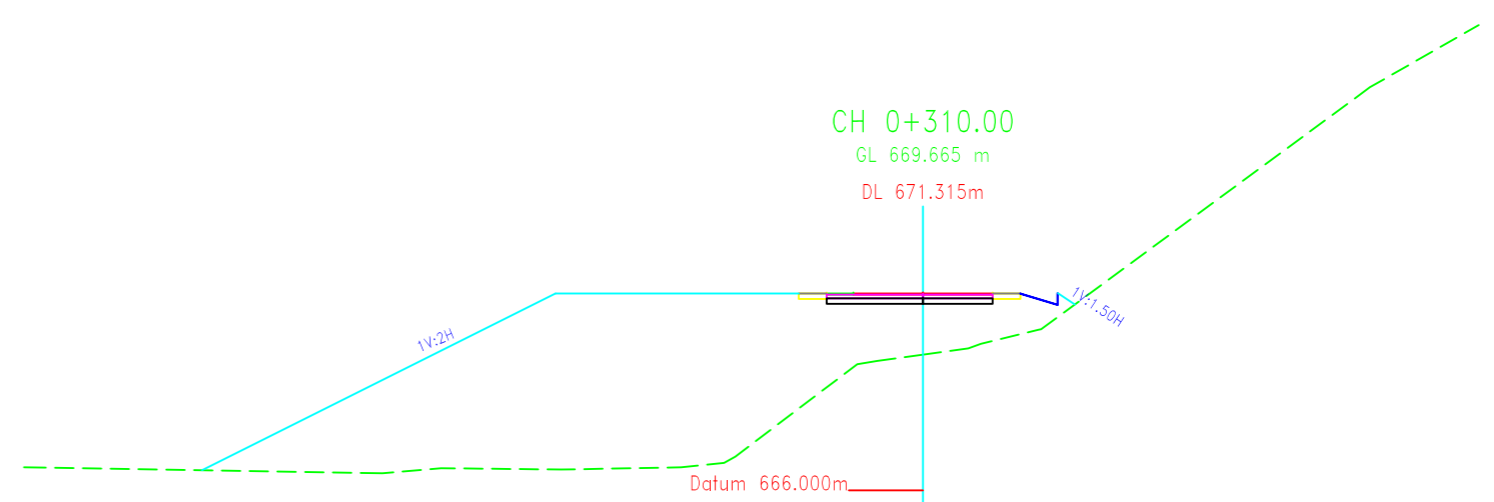
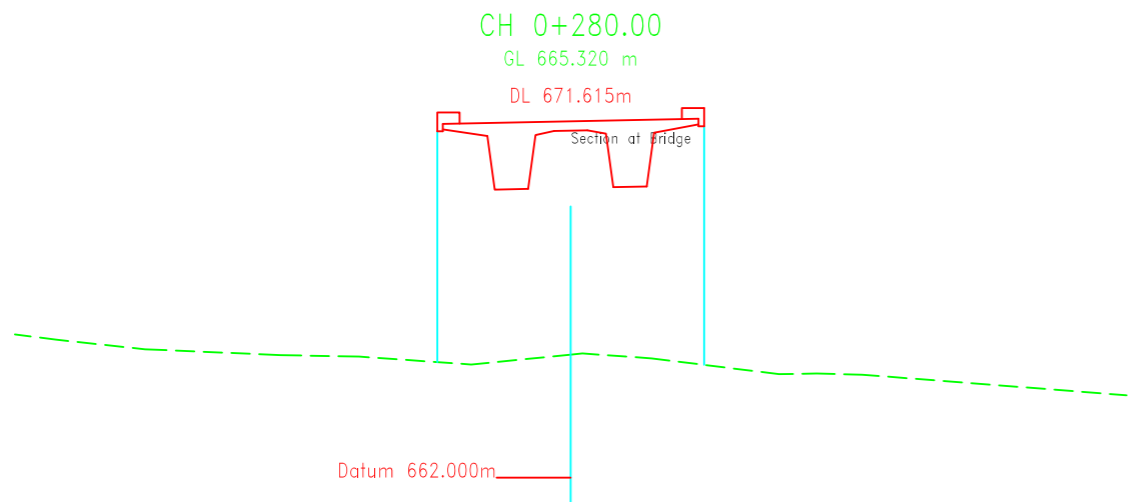
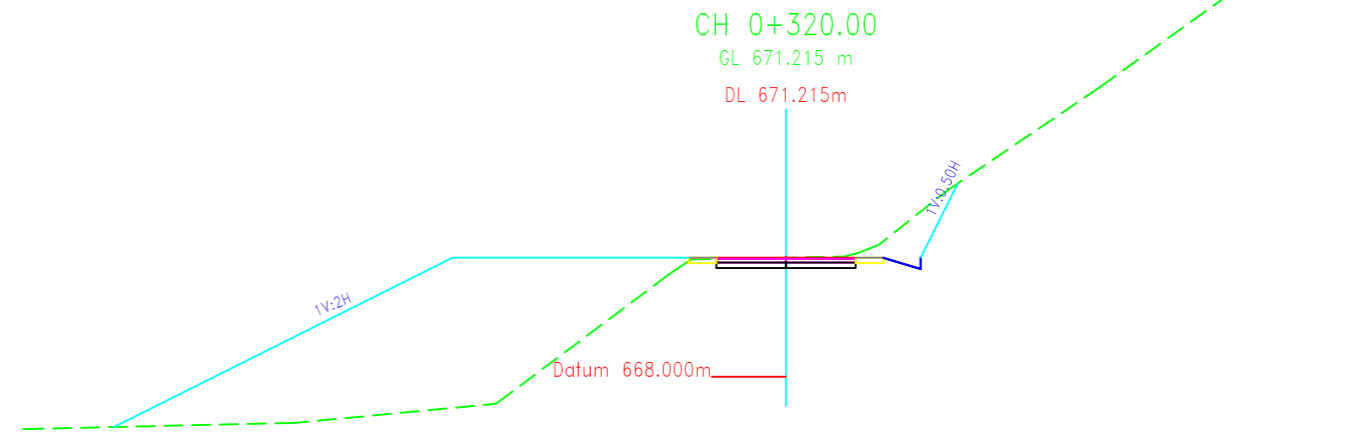
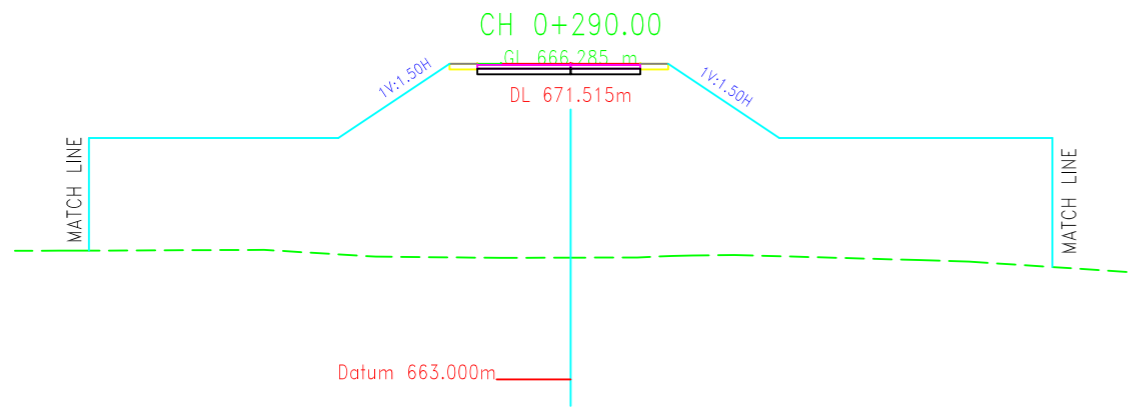
SCALE
 1:200
 DEC. 2015

CROSS SECTIONS OF
DARAUDI KHOLA BRIDGE
(MAIN DARAUDI KHOLA BRIDGE)

DWG. NO.
 D-20
 SHEET. NO.
 26



<p>THE PROJECT ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL</p>		<p>SUB PROJECT: THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION OF BRIDGES ON BARHAKILO-BARPAK ROAD, GORKHA DISTRICT</p>	<p>SCALE 1:200 DEC. 2015</p>	<p>CROSS SECTIONS OF DARAUDI KHOLA BRIDGE (MAIN DARAUDI KHOLA BRIDGE)</p>	<p>DWG. NO. D-20 SHEET. NO. 27</p>
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THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT:
THE SUB-PROJECT FOR REHABILITATION OF CONSTRUCTION
OF BRIDGES ON BARHAKILO-BARPAK ROAD,
GORKHA DISTRICT

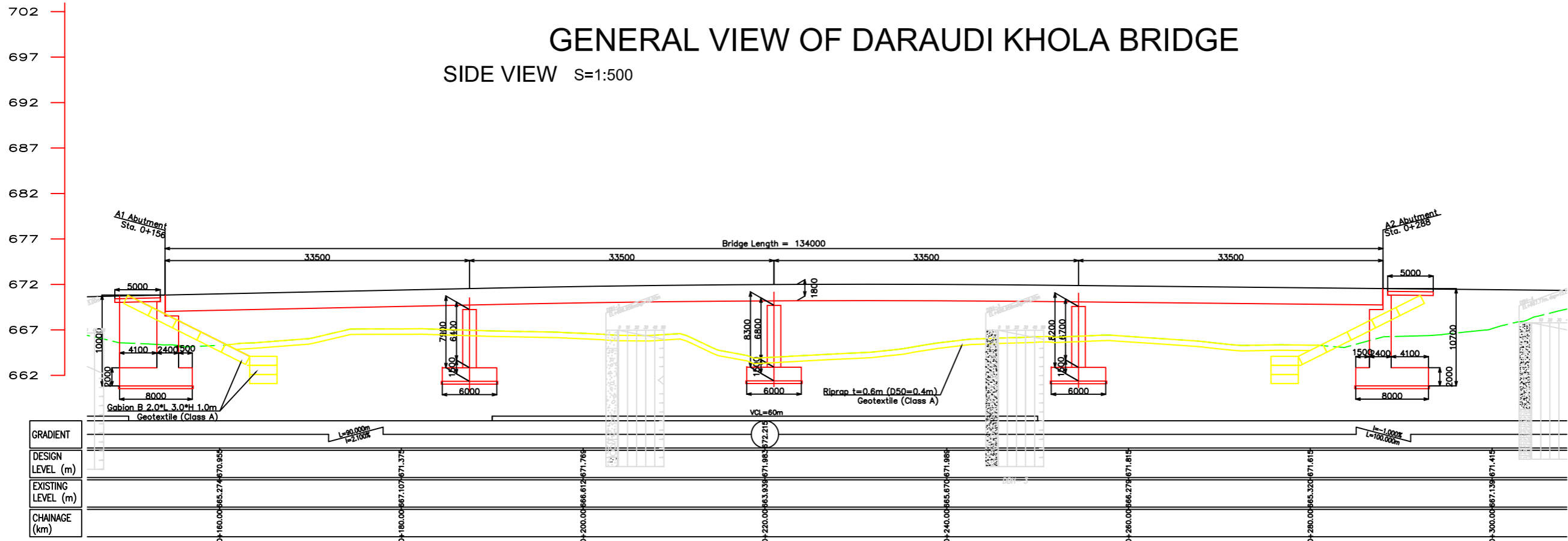
SCALE
1:200
DEC. 2015

CROSS SECTIONS OF
DARAUDI KHOLA BRIDGE
(MAIN DARAUDI KHOLA BRIDGE)

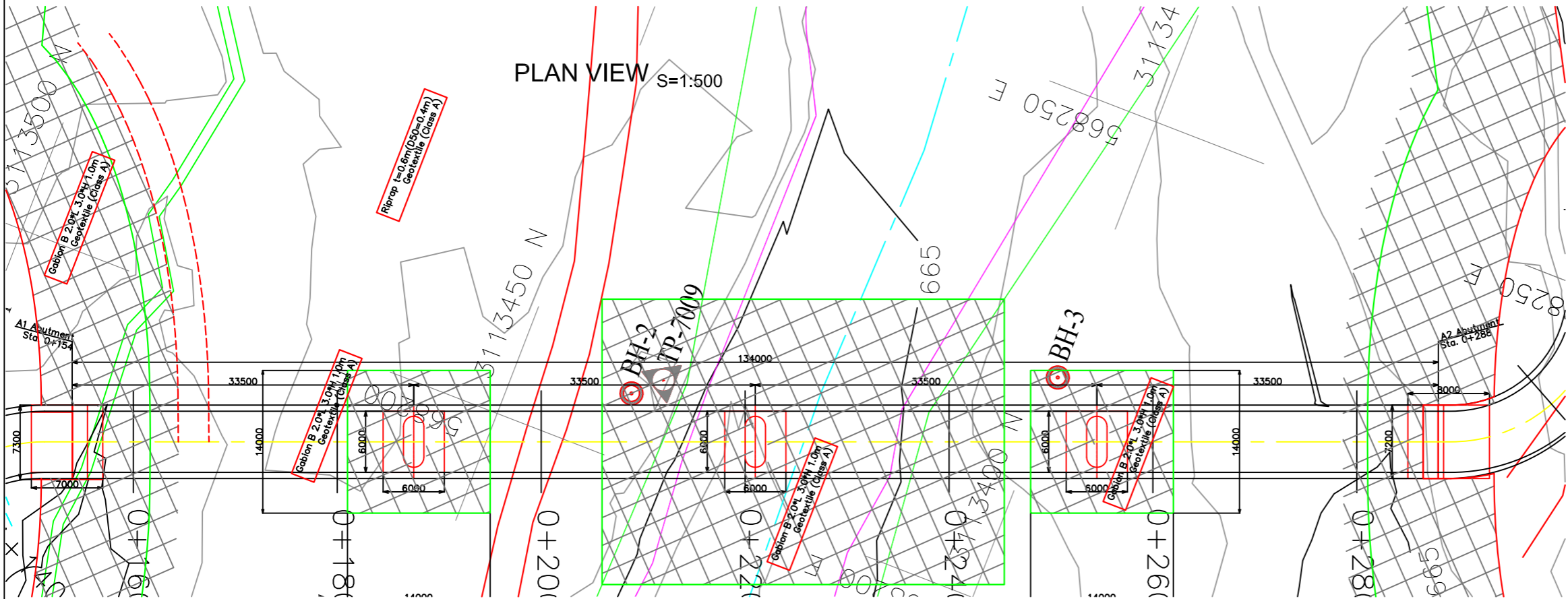
DWG. NO.
D-20
SHEET. NO.
28

GENERAL VIEW OF DARAUDI KHOLA BRIDGE

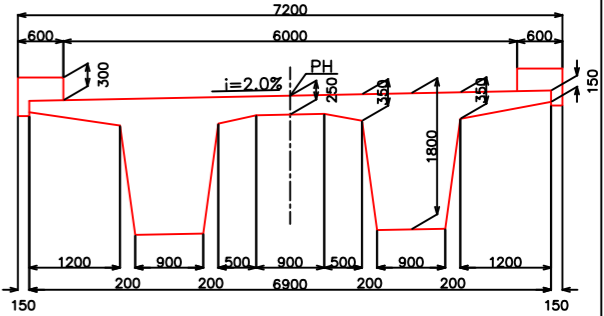
SIDE VIEW S=1:500



PLAN VIEW S=1:500



TYPICAL CROSS SECTION S=1:100



THE PROJECT
ON REHABILITATION AND RECOVERY FROM NEPAL EARTHQUAKE
IN THE FEDERAL DEMOCRATIC REPUBLIC OF NEPAL

SUB PROJECT
CONSTRUCTION OF BRIDGES ALONG BARHAHKILO - BARPAK ROAD

H:1/1000
V:1/500
DEC. 2015
GENERAL VIEW OF DARAUDI
KHOLA BRIDGE

DWG. NO
D-21
SHEET. NO
29