

Government of Nepal
Ministry of Federal Affairs and General Administration
Department of Local Infrastructure
Rural Connectivity Improvement Project (RCIP)
Project Coordination Unit (PCU)
Shreemahal, Pulchowk, Lalitpur

Detail Engineering Survey, Design and Cost Estimate
Of
Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati Section)(CH 0+000 to 6+800)
(Dolakha District)

(Package No.- RCIP/PIU/DPR/03 -075/76)

Volume 1.C Drawings
Standard Drawings

Submitted By:
Inclusive Consultant (P) Ltd.
Sitapaila, Kathmandu
Email: inclusive.consultants@gmail.com

March 2022

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Volume 1.C Drawings
Plan & Profile

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Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
0	409072.763	3055494.265	0	0
1	409058.399	3055481.361	9.41	9.78
2	409046.203	3055465.91	9.63	16.61
3	409030.692	3055426.886	12.67	9.17
4	409011.741	3055395.153	13.73	22.2
5	408994.144	3055381.915	8.05	16.65
6	408975.613	3055375.057	9.51	28.84
7	408963.103	3055360.591	8.11	20.88
8	408949.435	3055322.982	10.07	32.11
9	408933.072	3055310.237	7.03	10.04
10	408918.329	3055293.887	9.53	13.75
11	408887.253	3055272.764	14.6	20.69

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
0	0+000.00	0+000.00	0+000.00	0+000.00
1	0+019.31	0+009.90	0+019.29	0+028.67
2	0+038.95	0+029.31	0+038.88	0+048.45
3	0+080.81	0+068.14	0+080.78	0+093.42
4	0+117.71	0+103.98	0+117.54	0+131.10
5	0+139.39	0+131.34	0+139.33	0+147.32
6	0+159.04	0+149.52	0+158.83	0+168.14
7	0+177.76	0+169.65	0+177.67	0+185.68
8	0+217.59	0+207.52	0+217.33	0+227.14
9	0+237.80	0+230.77	0+237.78	0+244.80
10	0+259.78	0+250.26	0+259.74	0+269.22
11	0+297.27	0+282.66	0+297.11	0+311.55

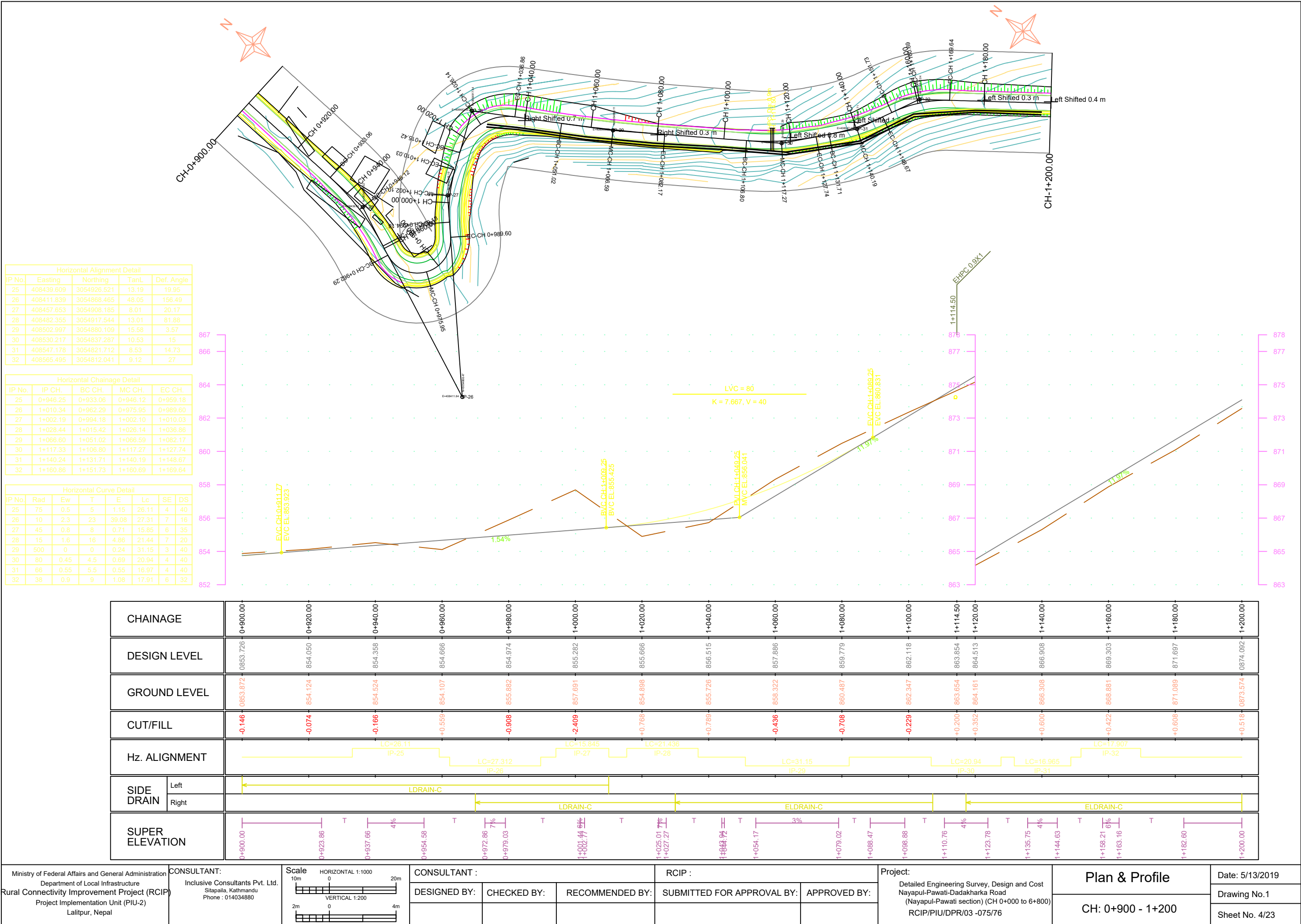
Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
0	0	2.95	29.5	0	0	0	0
1	110	0.34	3.4	0.4	18.77	3	40
2	66	0.55	5.5	0.7	19.13	4	40
3	158	0	0	0.51	25.28	3	40
4	70	0.5	5	1			

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
12	408842.88	3055262.1	17.53	16.36
13	408811.424	3055244.034	12.86	13.1
14	408754.451	3055190.959	25.44	7.5
15	408716.112	3055144.492	29	7.64
16	408687.978	3055099.258	12.24	34.03
17	408660.821	3055087.114	10.9	34.59

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
12	0+342.58	0+325.05	0+342.46	0+359.88
13	0+378.62	0+365.76	0+378.56	0+391.37
14	0+456.37	0+430.93	0+456.34	0+481.74
15	0+516.54	0+487.54	0+516.50	0+545.45
16	0+569.73	0+557.49	0+569.36	0+581.24
17	0+598.75	0+587.85	0+598.42	0+608.98

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
12	122	0.32	3.2	1.25	34.83	3	40
13	112	0.34	3.4	0.74	25.61	3	40
14	388	0	0	0.83	50.81	3	40
15	434	0	0	0.97	57.91	3	40
16	40	0.8	8	1.83	23.75	6	33
17	35	0.9	9	1.66	21.13	6	31

CHAINAGE		0+300.00	0+320.00	0+340.00	0+360.00	0+380.00	0+400.00	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+580.00	0+600.00
DESIGN LEVEL		0849.765	849.595	849.264	848.798	848.316	847.833	847.424	847.356	847.655	848.320	849.350	850.649	851.961	853.272	854.465	0855.011
GROUND LEVEL		0849.854	849.626	849.349	848.638	848.253	847.788	847.792	847.418	847.73							



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
33	408607.242	3054752.787	12.3	20.5
34	408613.374	3054729.358	8.36	4.84
35	408624.695	3054697.397	11.21	27.97
36	408620.678	3054670.402	10.69	10.02
37	408621.341	3054645.924	11.49	14.24
38	408608.283	3054587.922	9.8	42.8
39	408631.733	3054547.487	13.89	103.23
40	408611.361	3054541.306	7.02	50.17
41	408598.237	3054549.925	5.01	19.59
42	408584.39	3054568.225	11.77	26.69

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
33	1+233.00	1+220.70	1+232.87	1+245.03
34	1+256.96	1+248.59	1+256.95	1+265.31
35	1+290.85	1+279.64	1+290.63	1+301.61
36	1+317.70	1+307.01	1+317.67	1+328.33
37	1+342.13	1+330.64	1+342.07	1+353.50
38	1+401.47	1+391.67	1+401.00	1+410.34
39	1+447.29	1+433.40	1+443.31	1+453.22
40	1+460.62	1+453.60	1+460.17	1+466.74
41	1+475.42	1+470.41	1+475.37	1+480.32
42	1+498.27	1+486.50	1+498.02	1+509.54

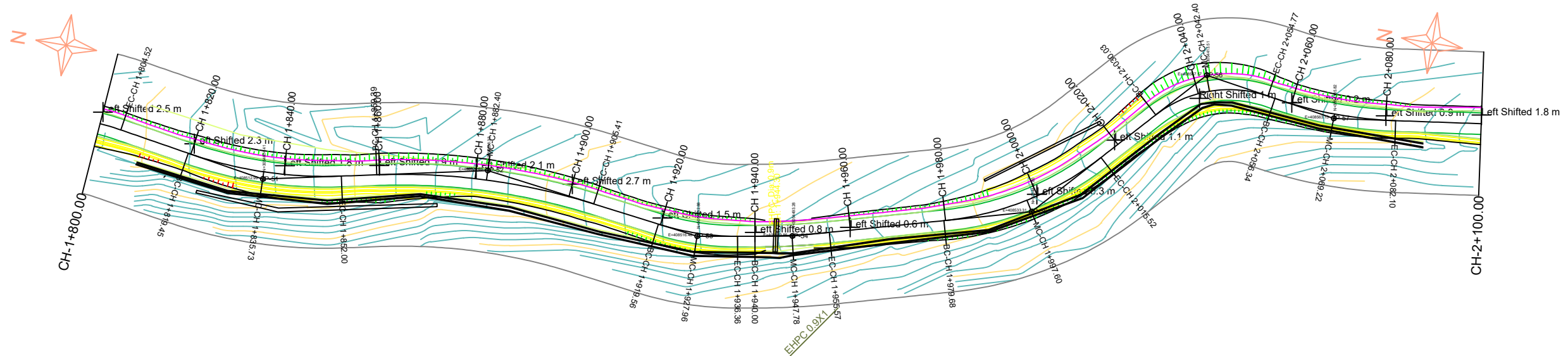
Horizontal Curve Detail								
IP No.	Rad	Ew	T	E	Lc	SE	DS	
33	68	0.55	5.5	1.1	24.33	4	40	
34	198	0	0	0.18	16.72	3	40	
35	45	0.8	8	1.37	21.97	6	35	
36	122	0.32	3.2	0.47	21.33	3	40	
37	92	0.4	4	0.72	22.86	4	40	
38	25	1.2	12	1.85	18.67	6	26	
39	11	2.3	23	6.72	19.82	7	17	
40	15	1.6	16					

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
43	408578.954	3054604.943	9.44	8.85
44	408573.075	3054623.852	8.98	23.07
45	408561.038	3054638.023	9.01	12.86
46	408521.198	3054714.59	10.12	32.25
47	408485.94	3054735.158	12.13	100.98
48	408479.737	3054717.42	6.54	61.45
49	408508.527	3054685.644	16.47	24.77
50	408520.237	3054648.304	13.1	26.79

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
43	1+534.89	1+525.45	1+534.87	1+544.29
44	1+554.65	1+545.67	1+554.53	1+563.39
45	1+573.00	1+563.99	1+572.97	1+581.94
46	1+659.24	1+649.12	1+658.97	1+668.82
47	1+699.52	1+687.40	1+696.21	1+705.02
48	1+711.68	1+705.14	1+711.04	1+716.94
49	1+753.28	1+736.82	1+753.03	1+769.24
50	1+791.90	1+778.81	1+791.66	1+804.52

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
43	122	0.32	3.2	0.36	18.84	3	40
44	44	0.8	8	0.91	17.72	6	35
45	80	0.45	4.5	0.51	17.95	4	40
46	35	0.9	9	1.43	19.7	6	31
47	10	2.3	23	5.72	17.62	7	16
48	11	2.3	23	1.8	11.8	7	17
49	75	0.5	5	1.79	32.42	4	40
50	55	0.6	6	1.54	25.71	5	39

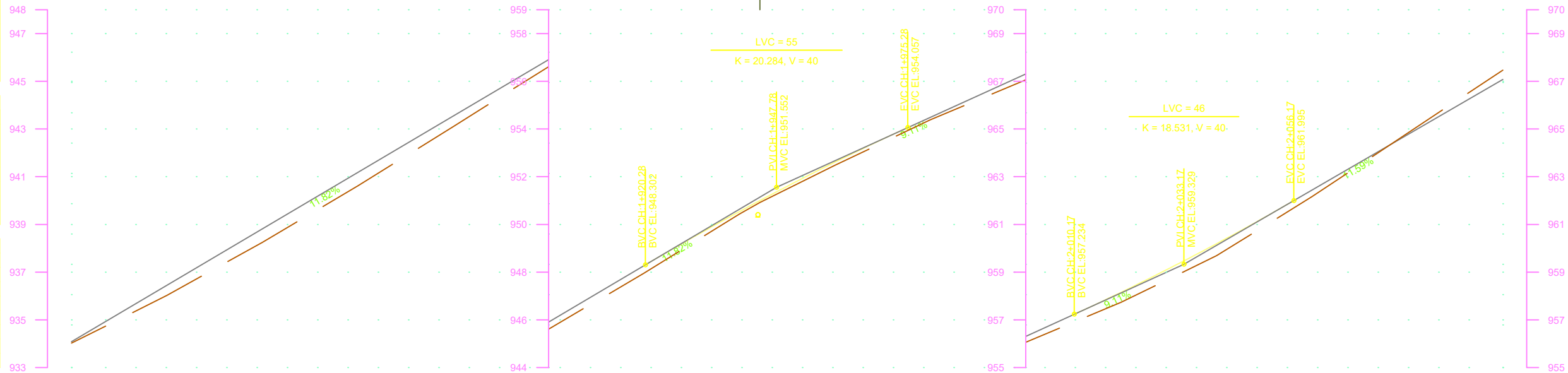
CHAINAGE		1+500.00	1+520.00	1+540.00	1+560.00	1+580.00	1+600.00	1+620.00	1+640.00	1+660.00	1+680.00	1+700.00	1+720.00	1+740.00	1+760.00
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Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
51	408512.989	3054604.408	16.47	21.19
52	408522.633	3054558.322	23.24	19.53
53	408516.479	3054512.882	8.47	17.5
54	408519.861	3054493.276	7.79	5.72
55	408533.309	3054444.803	18.4	32.08
56	408567.571	3054413.505	13.49	56.71
57	408563.127	3054385.824	12.97	16.77

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
51	1+835.91	1+819.45	1+835.73	1+852.00
52	1+882.62	1+859.39	1+882.40	1+905.41
53	1+928.03	1+919.56	1+927.96	1+936.36
54	1+947.79	1+940.00	1+947.78	1+955.57
55	1+998.08	1+979.68	1+997.60	2+015.52
56	2+043.52	2+030.03	2+042.40	2+054.77
57	2+069.32	2+056.34	2+069.22	2+082.10

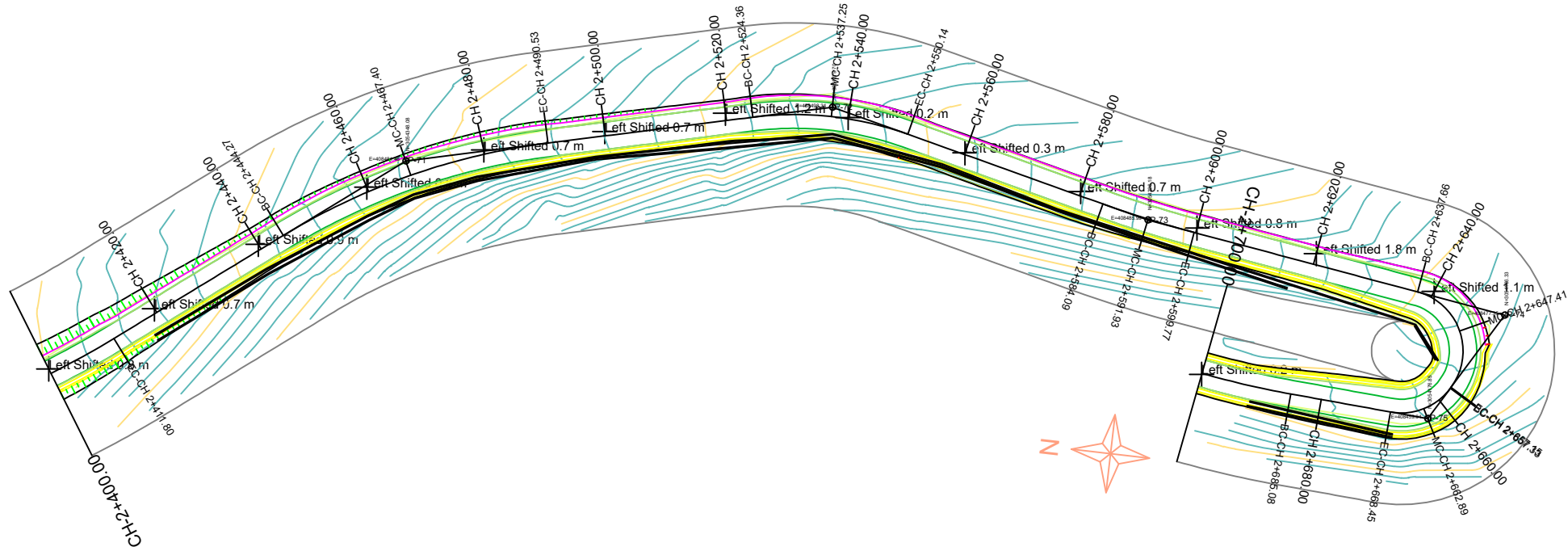
Horizontal Curve Detail								
IP No.	Rad	Ew	T	E	Lc	SE	DS	
51	88	0.45	4.5	1.53	32.55	4	40	
52	135	0.3	3	1.98	46.02	3	40	
53	55	0.6	6	0.65	16.8	5	39	
54	156	0	0	0.19	15.57	3	40	
55	64	0.55	5.5	2.59	35.84	4	40	
56	25	1.2	12	3.41	24.74	6	26	
57	88	0.45	4.5	0.95	25.76	4	40	



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
58	408570.879	3054328.122	25.13	138.6
59	408549.08	3054345.743	2.81	31.38
60	408537.287	3054378.727	6.88	22.25
61	408523.367	3054394.231	7.93	11.19
62	408507.888	3054405.851	9.43	23.18
63	408487.679	3054440.962	9.81	13.65
64	408473.602	3054455.768	7.9	12.02
65	408463.432	3054472.32	7.77	10.09
66	408441.999	3054496.422	18.07	122.09
67	408431.278	3054459.676	7.82	8.94
68	408428.654	3054439.267	5.2	10.8
69	408429.841	3054419.697	7.35	25.13
70	408439.728	3054401.561	11.88	9.37

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
58	2+127.35	2+102.22	2+114.14	2+126.06
59	2+128.96	2+126.15	2+128.89	2+131.63
60	2+163.85	2+156.97	2+163.76	2+170.56
61	2+184.51	2+176.58	2+184.49	2+192.39
62	2+203.82	2+194.38	2+203.69	2+212.99
63	2+244.07	2+234.26	2+244.02	2+253.79
64	2+264.40	2+256.50	2+264.37	2+272.24
65	2+283.78	2+276.01	2+283.76	2+291.51
66	2+315.99	2+297.92	2+308.57	2+319.22
67	2+339.43	2+331.61	2+339.41	2+347.21
68	2+359.98	2+354.78	2+359.96	2+365.14
69	2+379.55	2+372.20	2+379.43	2+386.67
70	2+399.97	2+388.09	2+399.94	2+411.80

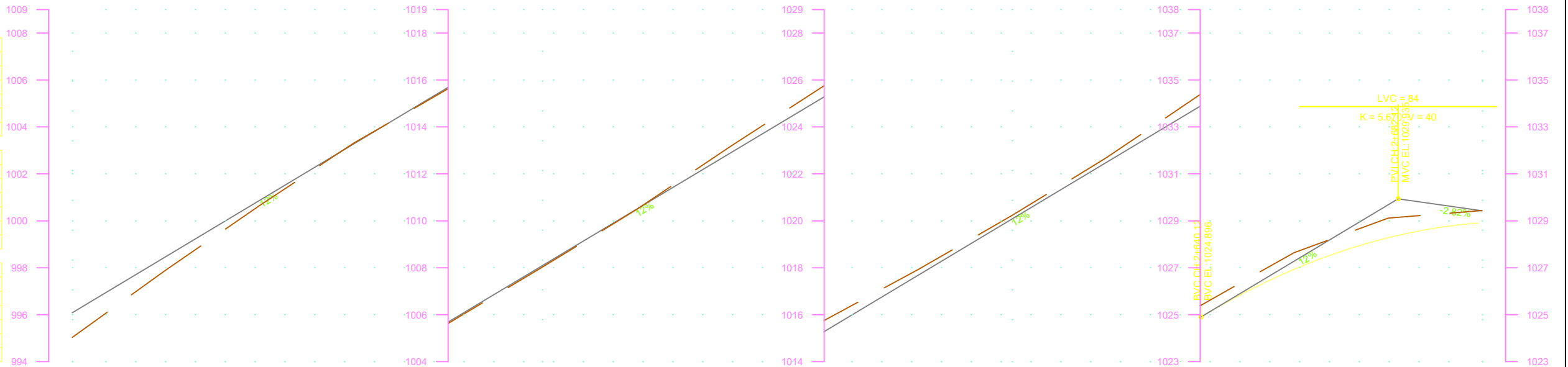
Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
58	10	2.3	23	17.05	23.84	7	16
59	10	2.3	23	0.39	5.48		



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
71	408481.456	3054348.082	23.48	24.09
72	408498.34	3054279.699	13.13	26.86
73	408485.991	3054226.177	7.84	4.78
74	408477.353	3054166.334	14.73	111.65
75	408459.036	3054176.851	6.21	63.69

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
71	2+467.75	2+444.27	2+467.40	2+490.53
72	2+537.49	2+524.36	2+537.25	2+550.14
73	2+591.94	2+584.09	2+591.93	2+599.77
74	2+652.39	2+637.66	2+647.41	2+657.15
75	2+663.54	2+657.33	2+662.89	2+668.45

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
71	110	0.34	3.4	2.48	46.26	3	40
72	55	0.6	6	1.55	25.78	5	39
73	188	0	0	0.16	15.68	3	40
74	10	2.3	23	7.8	19.49	7	16
75	10	2.3	23	1.77	11.11	7	16



CHAINAGE		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+700.00
DESIGN LEVEL		0996.087	998.486	1000.886	100												

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
76	408461.552	3054217.409	17.8	13.53
77	408470.029	3054244.994	6.38	6.7
78	408473.637	3054264.681	10.64	29.8
79	408466.973	3054283.592	7.3	13.44
80	408445.871	3054316.274	9.82	8.26
81	408432.743	3054331.319	9.82	12.18
82	408405.812	3054351.399	16.37	70.89
83	408363.566	3054322.711	16.91	6.24
84	408331.257	3054295.191	13.49	17.05

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
76	2+702.87	2+685.08	2+702.79	2+720.50
77	2+731.57	2+725.19	2+731.56	2+737.93
78	2+751.57	2+740.92	2+751.32	2+761.73
79	2+771.13	2+763.83	2+771.10	2+778.37
80	2+809.97	2+800.15	2+809.95	2+819.75
81	2+829.90	2+820.08	2+829.87	2+839.65
82	2+863.42	2+847.05	2+861.28	2+875.51
83	2+910.20	2+893.29	2+910.18	2+927.08
84	2+952.61	2+939.12	2+952.51	2+965.90

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
76	150	0	0	1.05	35.43	3	40
77	109	0.35	3.5	0.19	12.74	3	40
78	40	0.8	8	1.39	20.8	6	33
79	62	0.55	5.5	0.43	14.54	4	40
80	136	0.3	3	0.35	19.6	3	40
81	92	0.4	4	0.52	19.56	4	40
82	23	1.2	12	5.23	28.46	7	25
83	310	0	0	0.46	33.78	3	40
84	90	0.4	4	1	26.78	4	40

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Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
85	408250.946	3054260.477	14.48	6.88
86	408218.337	3054250.819	10.93	50.82
87	408184.709	3054273.78	9.31	40.86
88	408149.26	3054269.717	9.44	5.78
89	408130.096	3054269.464	9.27	14.87
90	408110.64	3054274.357	7.71	11.74
91	408091.401	3054275.154	9.32	5.26
92	408069.915	3054274.071	9.9	15.65
93	408050.394	3054267.524	9.89	7.44
94	408013.386	3054260.265	9.89	89.38

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
85	3+039.90	3+025.42	3+039.88	3+054.35
86	3+073.88	3+062.95	3+073.15	3+083.35
87	3+113.14	3+103.83	3+112.74	3+121.66
88	3+148.03	3+138.58	3+148.02	3+157.46
89	3+167.18	3+157.91	3+167.12	3+176.34
90	3+187.14	3+179.42	3+187.11	3+194.79
91	3+206.34	3+197.02	3+206.33	3+215.64
92	3+227.84	3+217.94	3+227.78	3+237.61
93	3+248.30	3+238.42	3+248.29	3+258.16
94	3+285.99	3+276.10	3+283.90	3+291.70

Horizontal Curve Detail								
IP No.	Rad	Ew	T	E	Lc	SE	DS	
85	241	0	0	0.44	28.93	3	40	
86	23	1.2	12	2.46	20.4	7	25	
87	25	1.2	12	1.68	17.83	6	26	
88	187	0	0	0.24	18.87	3	40	
89	71	0.5	5	0.6	18.43	4	40	
90	75	0.5	5	0.4	15.37	4	40	
91	203	0	0	0.21	18.63	3	40	
92	72	0.5						

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
95	408018.927	3054230.288	7.23	51.45
96	408055.146	3054210.969	8.41	19.88
97	408066.578	3054198.292	8.29	17.15
98	408074.854	3054180.46	9.43	10.67
99	408079.641	3054161.582	6.42	16.23
100	408078.25	3054121.761	6.37	9.72
101	408081.052	3054101.078	9.04	10.76
102	408086.922	3054083.504	9.21	5.58
103	408093.122	3054056.41	10.85	8.17
104	408108.72	3054015.894	11.55	14.95
105	408111.82	3053986.905	9.39	15.28

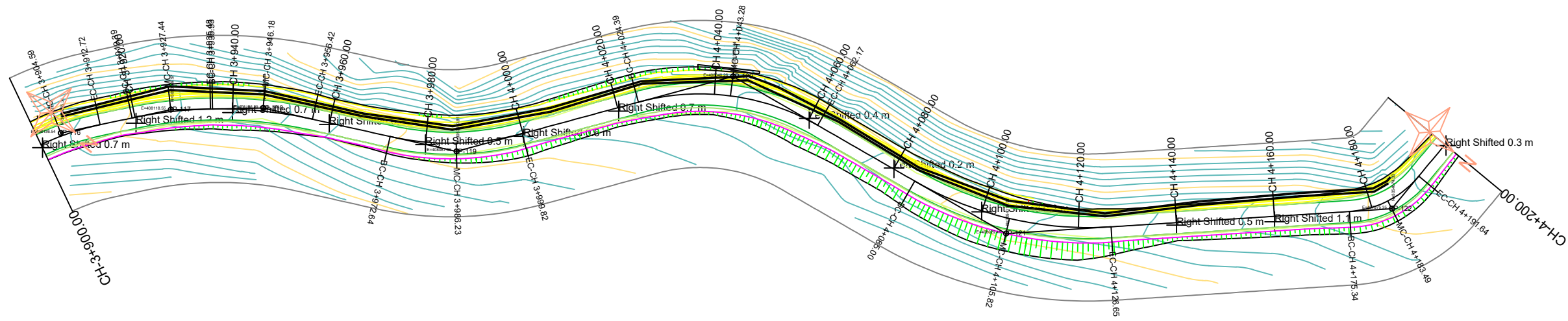
Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
95	3+312.29	3+305.06	3+311.80	3+318.53
96	3+352.35	3+343.94	3+352.27	3+360.60
97	3+369.25	3+360.96	3+369.19	3+377.42
98	3+388.79	3+379.36	3+388.76	3+398.16
99	3+408.21	3+401.79	3+408.17	3+414.54
100	3+447.97	3+441.60	3+447.95	3+454.31
101	3+468.81	3+459.77	3+468.78	3+477.80
102	3+487.29	3+478.07	3+487.28	3+496.48
103	3+515.07	3+504.22	3+515.05	3+525.88
104	3+558.44	3+546.90	3+558.38	3+569.86
105	3+587.47	3+578.08	3+587.41	3+596.74

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
95	15	1.6	16	1.65	13.47	7	20
96	48	0.8	8	0.73	16.66	6	36
97	55	0.6	6	0.62	16.46	5	39
98	101	0.35	3.5	0.44	18.81	3	40
99	45	0.8	8	0.46	12.75	6	35
100	75	0.5	5	0.27	12.7		

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
106	408119.652	3053966.902	10.64	13.79
107	408131.616	3053949.926	9.2	15.88
108	408147.819	3053903.651	14.69	12.61
109	408166.597	3053873.489	13.66	24.48
110	408192.232	3053856.445	9.52	55.75
111	408192.488	3053833.29	10.94	16.6
112	408204.925	3053793.206	12.46	102.51
113	408184.728	3053791.535	7.64	74.77
114	408174.772	3053818.944	6.97	3.52
115	408167.626	3053843.149	12.72	52.15

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
106	3+608.84	3+598.19	3+608.79	3+619.38
107	3+629.50	3+620.30	3+629.44	3+638.59
108	3+678.42	3+663.72	3+678.36	3+692.99
109	3+713.83	3+700.16	3+713.62	3+727.07
110	3+744.19	3+734.67	3+743.43	3+752.19
111	3+765.82	3+754.88	3+765.75	3+776.61
112	3+807.64	3+795.18	3+804.12	3+813.07
113	3+820.87	3+813.23	3+819.76	3+826.28
114	3+847.80	3+840.84	3+847.80	3+854.76
115	3+873.03	3+860.31	3+872.14	3+883.98

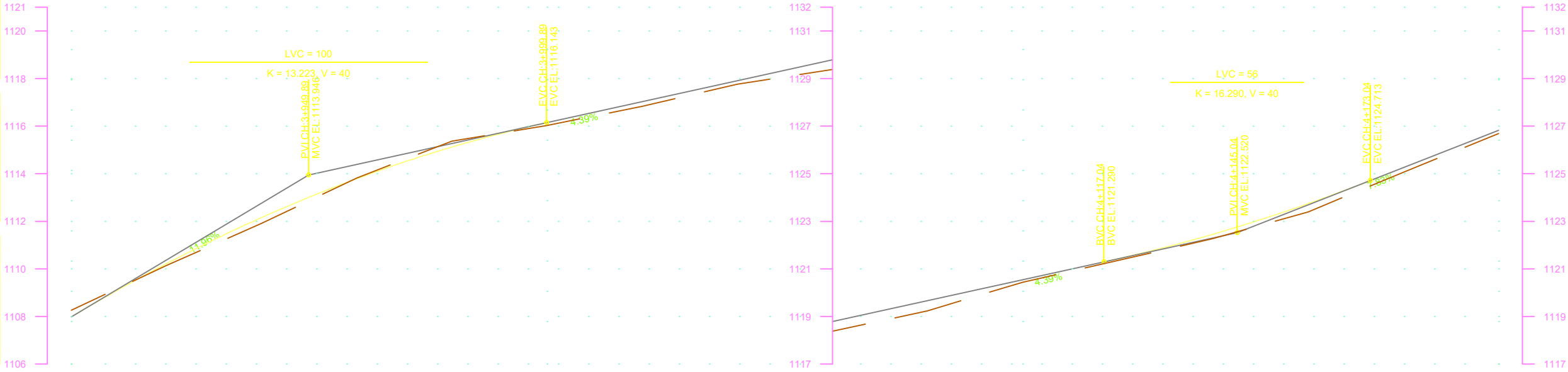
Horizontal Curve Detail								
IP No.	Rad	Ew	T	E	Lc	SE	DS	
106	88	0.45	4.5	0.64	21.18	4	40	
107	66	0.55	5.5	0.64	18.29	4	40	
108	133	0.3	3	0.81	29.27	3	40	
109	63	0.55	5.5	1.46	26.91	4	40	
110	18	1.6	16	2.36	17.51	7	22	
111	75	0.5	5	0.79	21.74	4	40	
112	10	2.3	23	5.98				



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
116	408136.535	3053855.338	6.2	16.95
117	408118.554	3053869.569	8.07	10.98
118	408106.294	3053883.842	10.3	13.65
119	408067.96	3053919.811	13.86	27.81
120	408040.255	3053953.437	19.93	45.09
121	408029.407	3054016.717	21.44	33.61
122	407975.351	3054074.003	8.64	46.7

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
116	3+904.65	3+896.45	3+904.59	3+912.72
117	3+927.46	3+919.39	3+927.44	3+935.48
118	3+946.23	3+935.93	3+946.18	3+956.42
119	3+986.50	3+972.64	3+986.23	3+999.82
120	4+044.32	4+024.39	4+043.28	4+062.17
121	4+106.44	4+085.00	4+105.82	4+126.65
122	4+183.97	4+175.34	4+183.49	4+191.64

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
116	55	0.6	6	0.61	16.27	5	39
117	84	0.45	4.5	0.39	16.1	4	40
118	86	0.45	4.5	0.61	20.49	4	40
119	56	0.6	6	1.69	27.18	5	39
120	48	0.8	8	3.97	37.78	6	36
121	71	0.5	5	3.17	41.65	4	40
122	20	1.2	12	1.78	16.3	7	23



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
123	407937.539	3054073.975	7.79	13.46
124	407891.921	3054084.857	27.51	140.04
125	407911.335	3054058.74	5.01	53.2
126	407950.172	3054058.623	10.61	42.92
127	407965.23	3054044.533	9.14	13.36
128	407988.185	3054009.906	11.19	17.43
129	407994.333	3053988.626	9.77	9.79
130	408000.734	3053930.847	12.12	16.05
131	408009.409	3053909.768	9.6	11.19

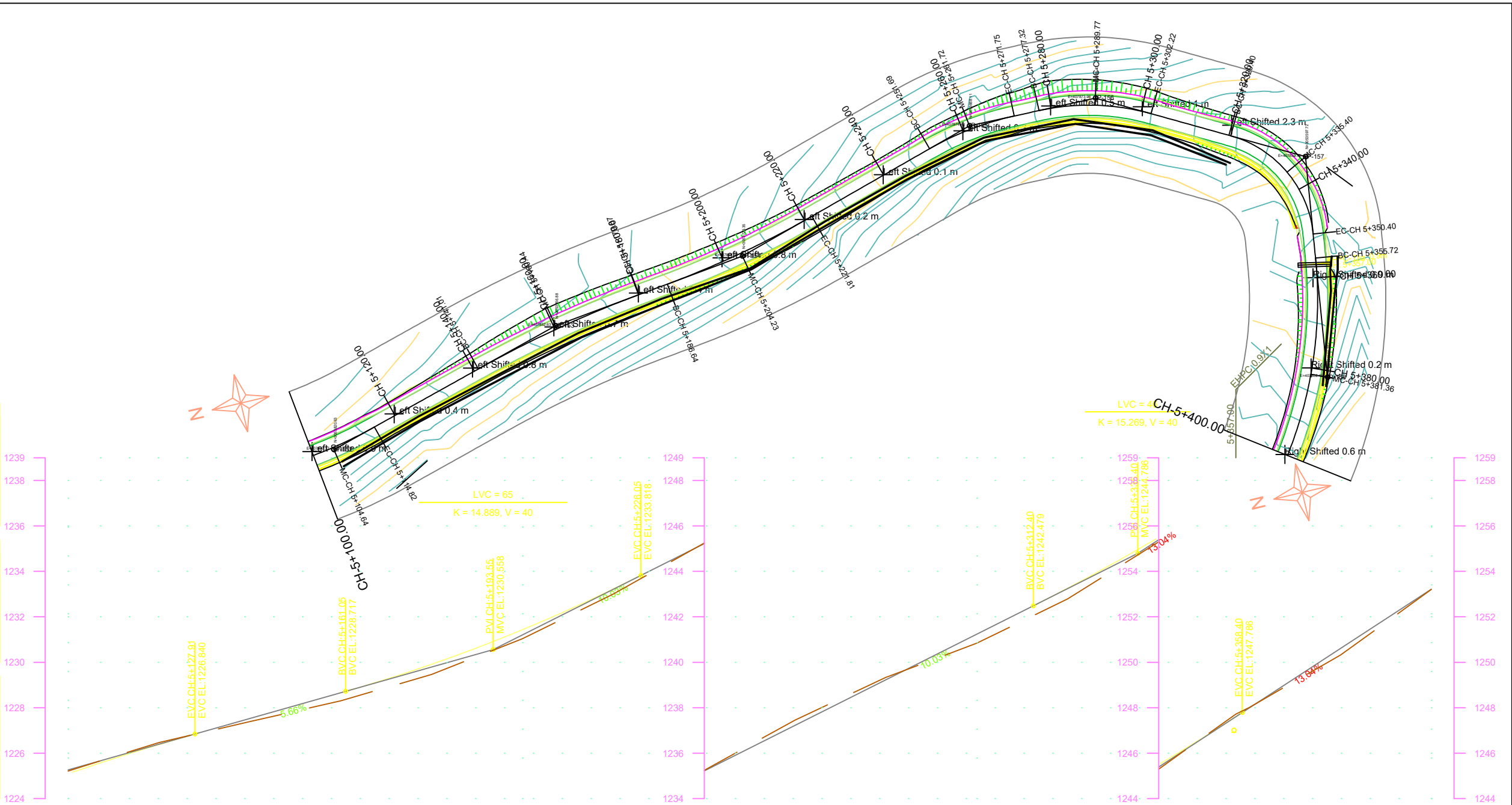
Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
123	4+220.82	4+213.03	4+220.78	4+228.53
124	4+267.64	4+240.14	4+252.36	4+264.58
125	4+269.61	4+264.60	4+269.25	4+273.89
126	4+307.72	4+297.10	4+307.22	4+317.33
127	4+327.34	4+318.20	4+327.30	4+336.39
128	4+368.80	4+357.61	4+368.72	4+379.82
129	4+390.78	4+381.01	4+390.76	4+400.50
130	4+448.86	4+436.74	4+448.78	4+460.83
131	4+471.50	4+461.90	4+471.47	4+481.04

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
123	66	0.55	5.5	0.46	15.5	4	40
124	10	2.3	23	19.27	24.44	7	16
125	10	2.3	23	1.18	9.29	7	16
126	27	1.2	12	2.01	20.23	6	27
127	78	0.5	5	0.53	18.19	4	40
128	73	0.5	5	0.85	22.2	4	40
129	114	0.34	3.4	0.42	19.49	3	40
130	88	0.45	4.5	0.85	24.09	4	40
131	98	0.4	4	0.47	19.14	4	40

Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
152	407837.37	3053820.626	10.22	11.56
153	407852.63	3053766.876	19.47	8.73
154	407868.064	3053723.353	17.62	9.37
155	407874.416	3053668.109	10.11	17.41
156	407873.959	3053639.728	12.7	27.97
157	407860.775	3053597.723	17.1	68.75
158	407802.453	3053604.214	26.33	31.94

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
152	5+104.67	5+094.46	5+104.64	5+114.82
153	5+160.48	5+141.01	5+160.44	5+179.87
154	5+204.26	5+186.64	5+204.23	5+221.81
155	5+261.80	5+251.69	5+261.72	5+271.75
156	5+290.03	5+277.32	5+289.77	5+302.22
157	5+337.50	5+320.40	5+335.40	5+350.40
158	5+382.05	5+355.72	5+381.36	5+407.00

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
152	101	0.35	3.5	0.52	20.37	3	40
153	255	0	0	0.74	38.87	3	40
154	215	0	0	0.72	35.17	3	40
155	66	0.55	5.5	0.77	20.06	4	40
156	51	0.6	6	1.56	24.9	5	37
157	25	1.2	12	5.29	30	6	26
158	92	0.4	4	3.69	51.28	4	40



Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
176	407668.989	3053416.262	17.29	12.73
177	407694.819	3053369.564	19.37	13.72
178	407711.909	3053306.787	13.86	75.2
179	407665.272	3053279.825	16.57	99.61
180	407693.215	3053246.096	9.88	14.82
181	407709.088	3053211.781	16.11	14.8
182	407726.534	3053190.713	7.54	53.37
183	407722.582	3053174.551	7.85	10.19

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
176	6+015.67	5+998.38	6+015.60	6+032.81
177	6+068.89	6+049.52	6+068.80	6+088.07
178	6+133.77	6+119.91	6+131.72	6+143.53
179	6+183.54	6+166.97	6+179.14	6+191.31
180	6+218.54	6+208.66	6+218.48	6+228.31
181	6+256.24	6+240.13	6+256.15	6+272.17
182	6+283.41	6+275.87	6+282.86	6+289.84
183	6+298.94	6+291.10	6+298.92	6+306.75

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
176	155	0	0	0.96	34.43	3	40
177	161	0	0	1.16	38.55	3	40
178	18	1.6	16	4.72	23.62	7	22
179	14	1.9	19	7.69	24.34	7	19
180	76	0.5	5	0.64	19.65	4	40
181	124	0.32	3.2	1.04	32.04	3	40
182	15	1.6	16	1.79	13.97	7	20
183	88	0.45	4.5	0.35	15.65	4	40

CHAINAGE		6+000.00	6+020.00	6+040.00	6+060.00	6+080.00	6+100.00	6+120.00	6+140.00	6+160.00	6+1
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Horizontal Alignment Detail				
IP No.	Easting	Northing	TanL	Def. Angle
191	407775.515	3052847.128	9.68	7.39
192	407774.453	3052809.86	12.25	19.58
193	407764.654	3052784.613	12.09	22.09
194	407765.2	3052749.055	12.26	7.88
195	407770.383	3052715.421	0	0

Horizontal Chainage Detail				
IP No.	IP CH.	BC CH.	MC CH.	EC CH.
191	6+638.67	6+628.98	6+638.65	6+648.32
192	6+675.92	6+663.67	6+675.80	6+687.94
193	6+702.77	6+690.08	6+702.61	6+715.14
194	6+738.01	6+725.75	6+737.99	6+750.24
195	6+772.01	6+772.00	6+772.00	6+772.00

Horizontal Curve Detail							
IP No.	Rad	Ew	T	E	Lc	SE	DS
191	150	0	0	0.31	19.34	3	40
192	71	0.5	5	1.05	24.26	4	40
193	65	0.55	5.5	1.23	25.06	4	40
194	178	0	0	0.42	24.48	3	40
195	0	2.95	29.5	0	0	0	0

CHAINAGE		6+600.00	6+620.00	6+640.00	6+660.00	6+680.00	6+700.00	6+720.00	6+740.00	6+760.00	6+770.03	6+772.00
DESIGN LEVEL		1309.618	1309.158	1308.387	1307.501	1306.625	1305.857	1305.225	1304.707	1304.203	1303.850	1303.900
GROUND LEVEL		1309.679	1309.214	1308.469	1307.423	1306.291	1305.567	1305.084	1304.367	1304.186	1303.776	1303.700
CUT/FILL		-0.061	-0.056	-0.082	+0.078	+0.334	+0.290	+0.141	+0.340	+0.017	+0.474	+0.200
Hz. ALIGNMENT		LC=19.337 IP-191 LC=24.264 IP-192 LC=25.0										

Government of Nepal
Ministry of Federal Affairs and General Administration
Department of Local Infrastructure
Rural Connectivity Improvement Project (RCIP)
Project Coordination Unit (PCU)
Shreemahal, Pulchowk, Lalitpur

Detail Engineering Survey, Design and Cost Estimate
Of
Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati Section)(CH 0+000 to 6+800)
(Dolakha District)

(Package No.- RCIP/PIU/DPR/03 -075/76)

Volume 1.C Drawings
Cross Section

Submitted By:
Inclusive Consultant (P) Ltd.
Sitapaila, Kathmandu
Email: inclusive.consultants@gmail.com

March 2022

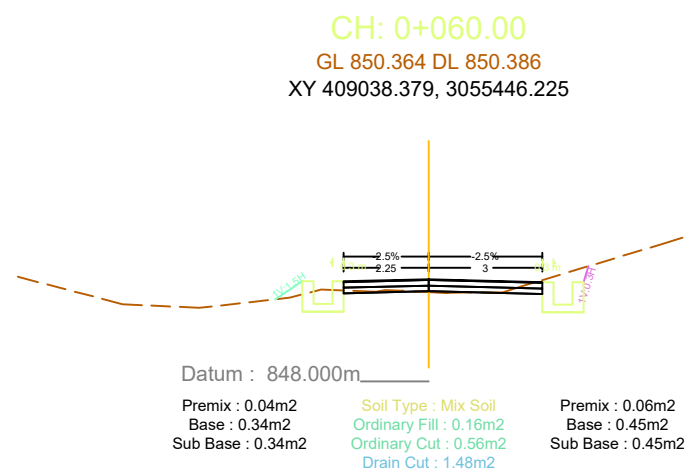
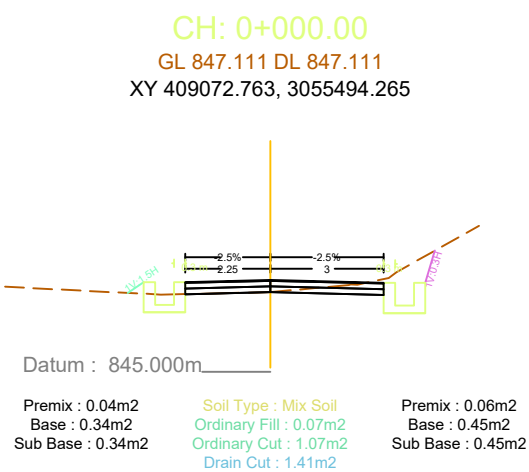
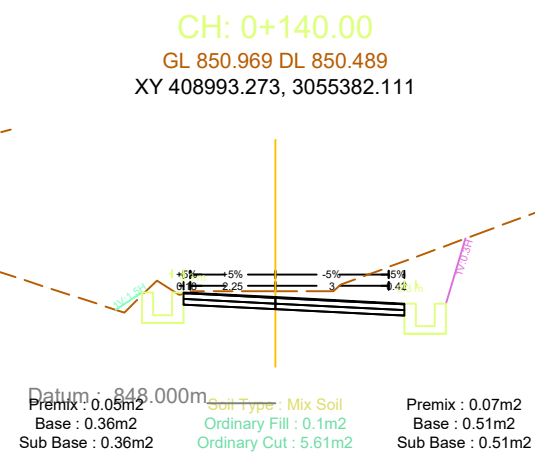
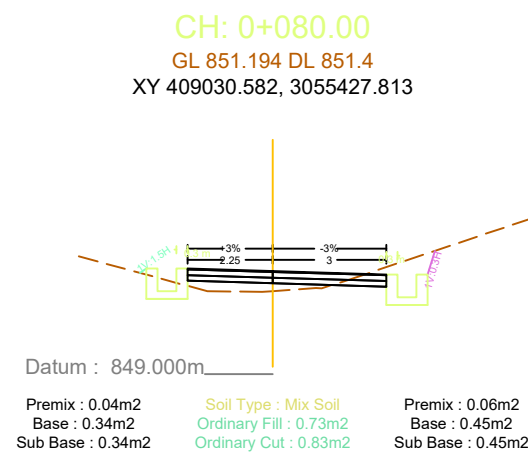
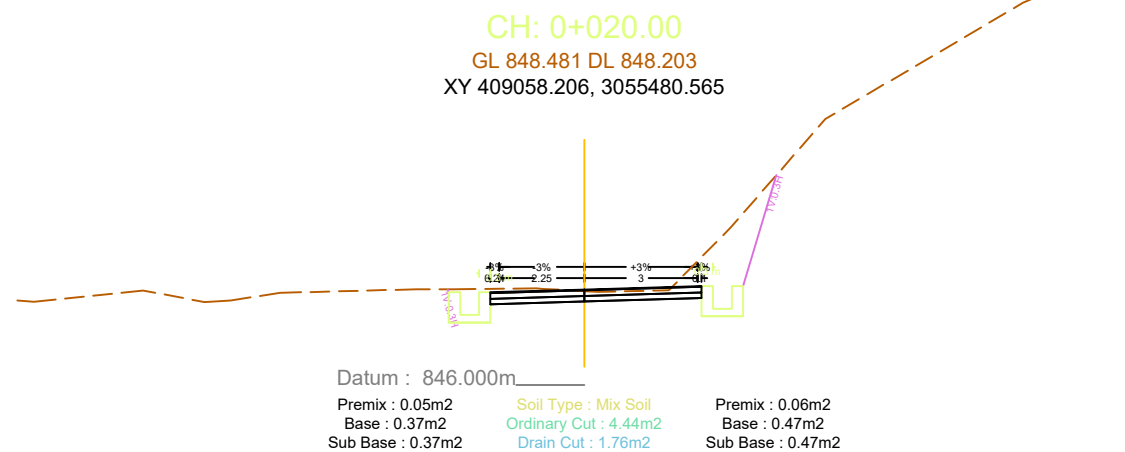
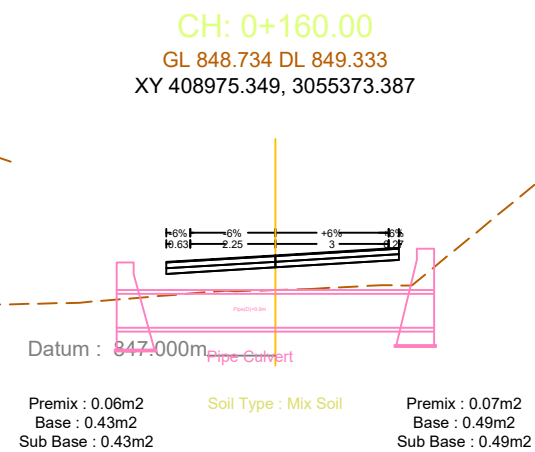
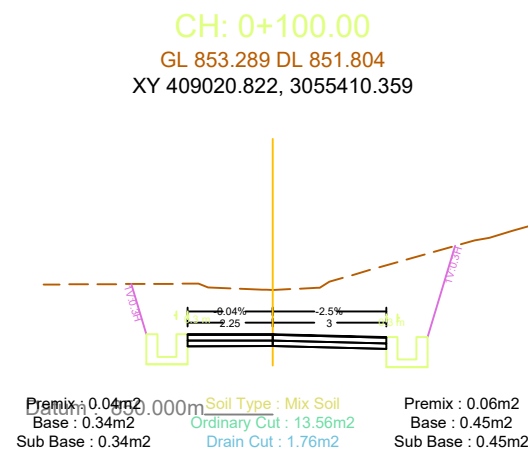
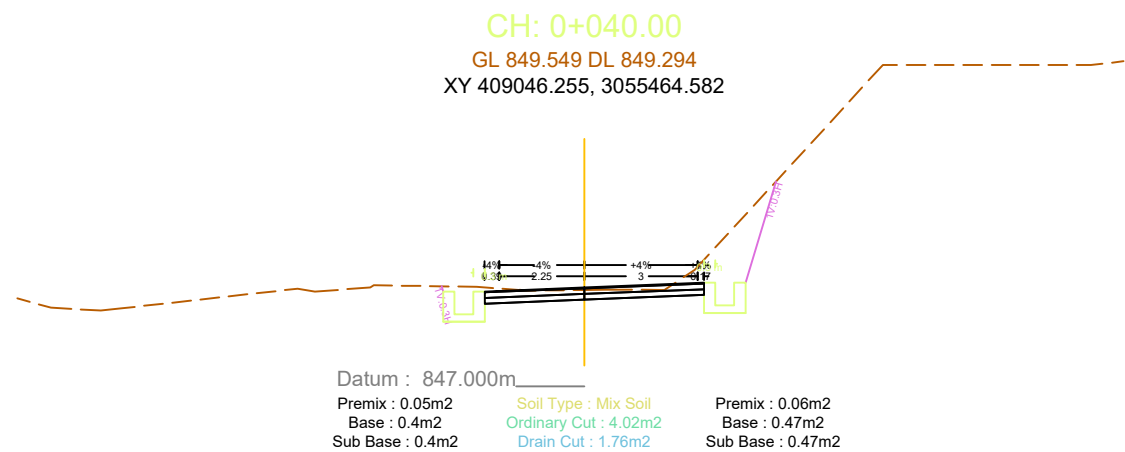
Department of Local Infrastructure
Ministry of Federal Affairs and General Administration
Rural Connectivity Improvement Project (RCIP)
Project Implementation Unit (PIU-2)
Lalitpur, Nepal

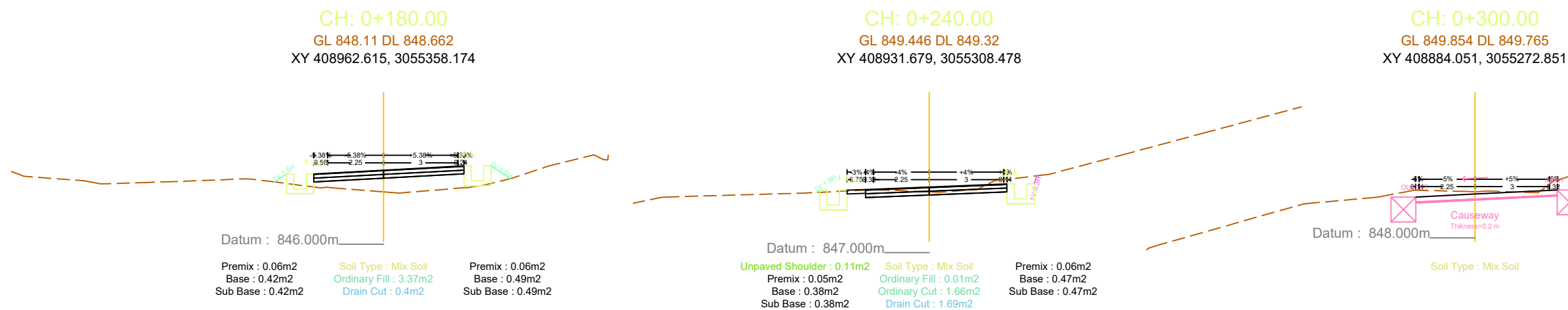
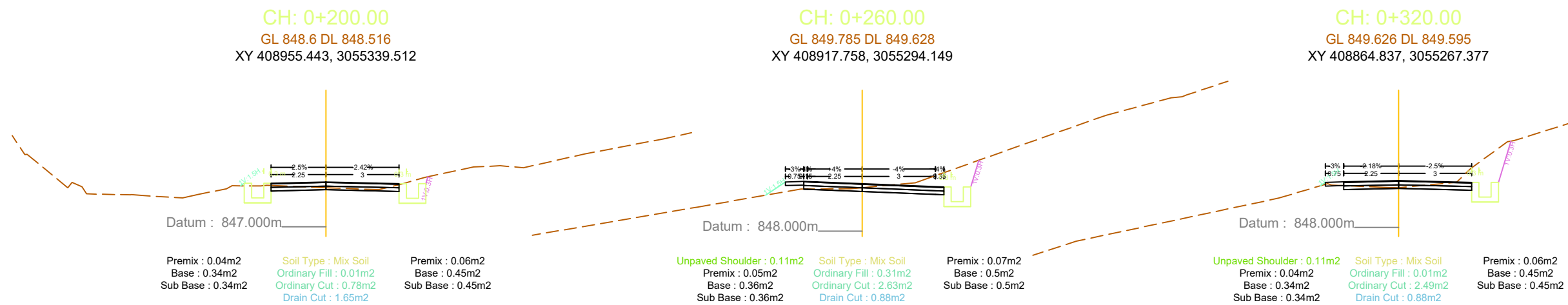
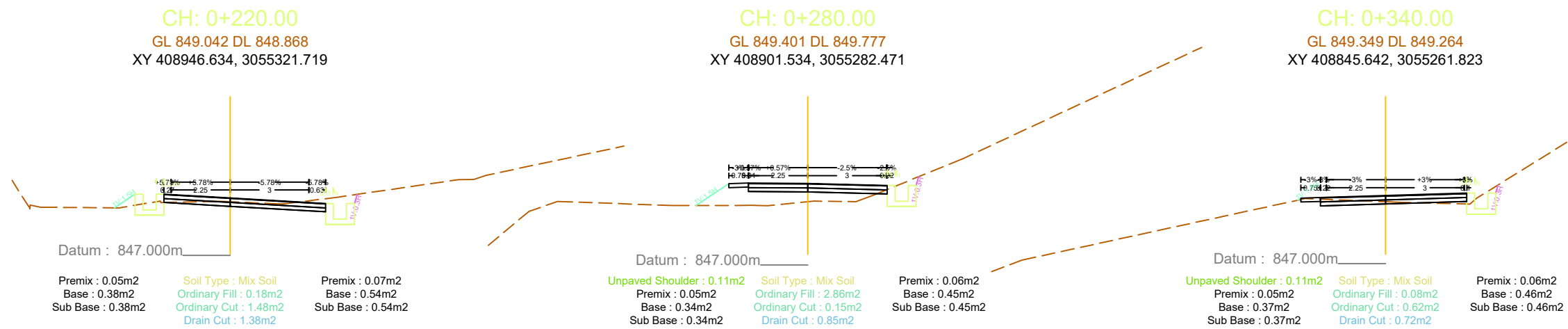
Detailed Engineering Survey, Design and Cost Estimate
Of
Nayapul-Pawati-Dadakharka Road(Nayapul-Pawati Section)(CH 0+000 to 6+800)
(Dolakha District)

Preparation of Detail Project Report of Rural Connectivity Improvement Project (RCIP)-Phase 2
(Package No.-RCIP/PIU/DPR/03 -075/76, Bagmati Province)

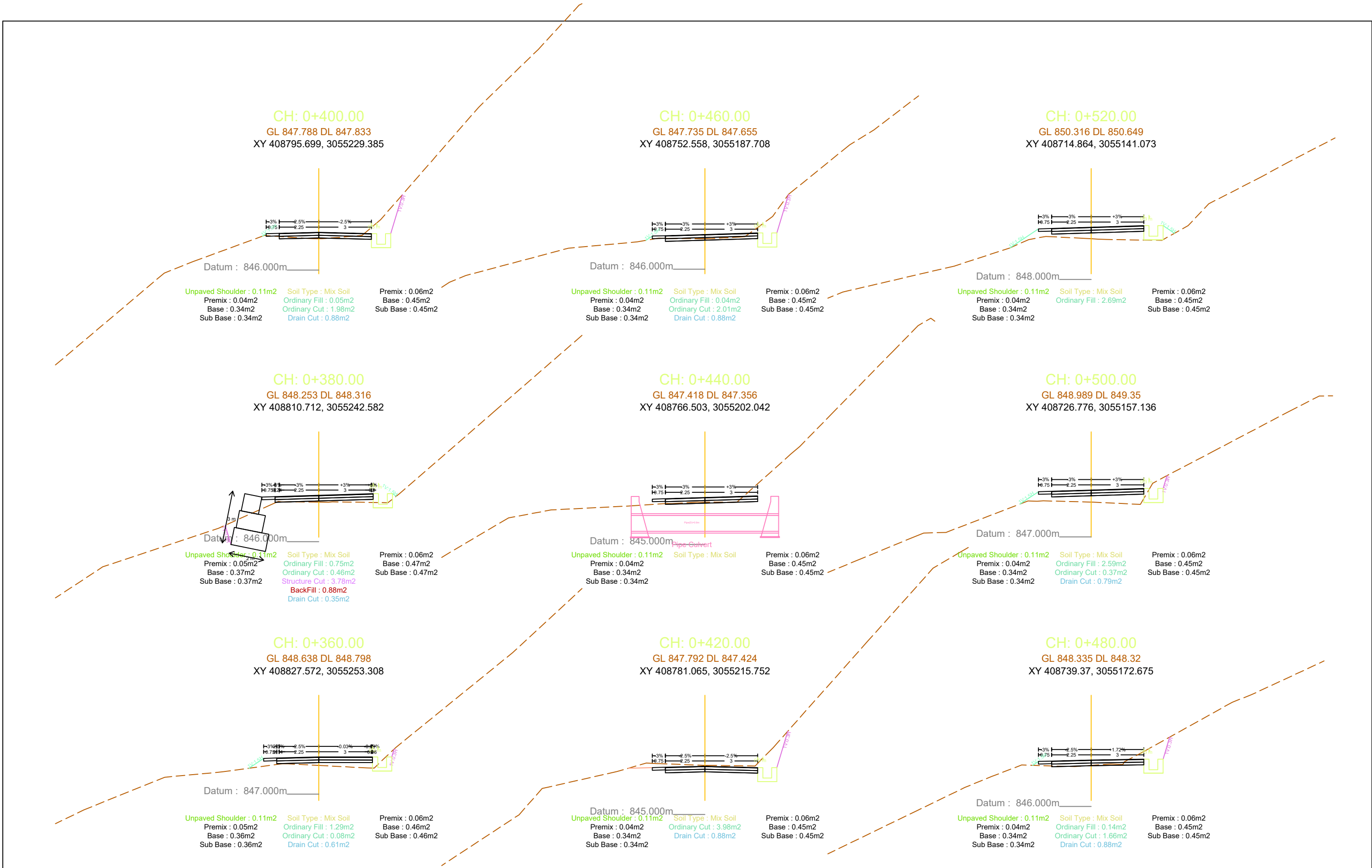
Volume 1 Drawings

Submitted By:
Inclusive Consultants Pvt. Ltd.
Sitapaila, Kathmandu
Phone : 014034880

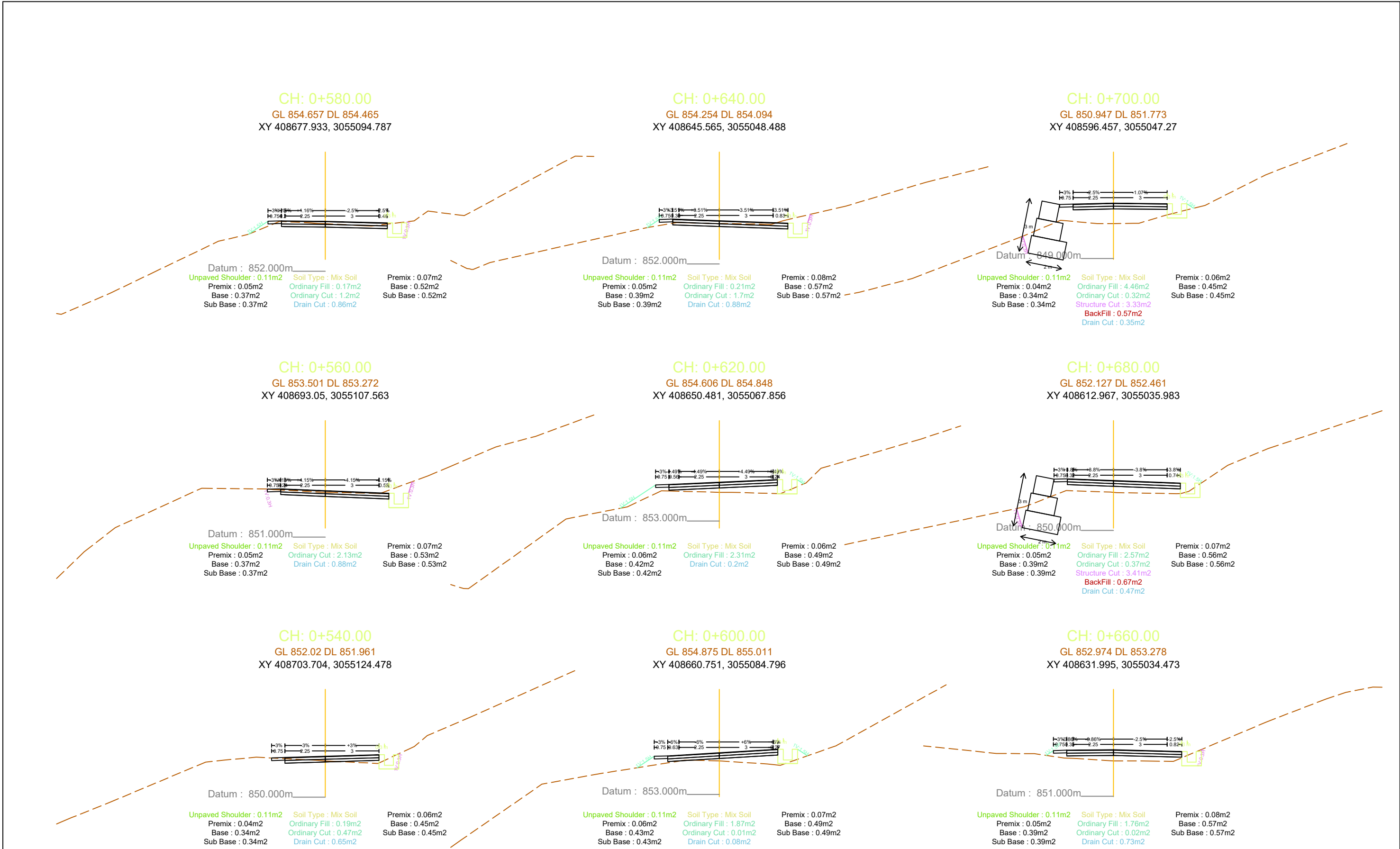




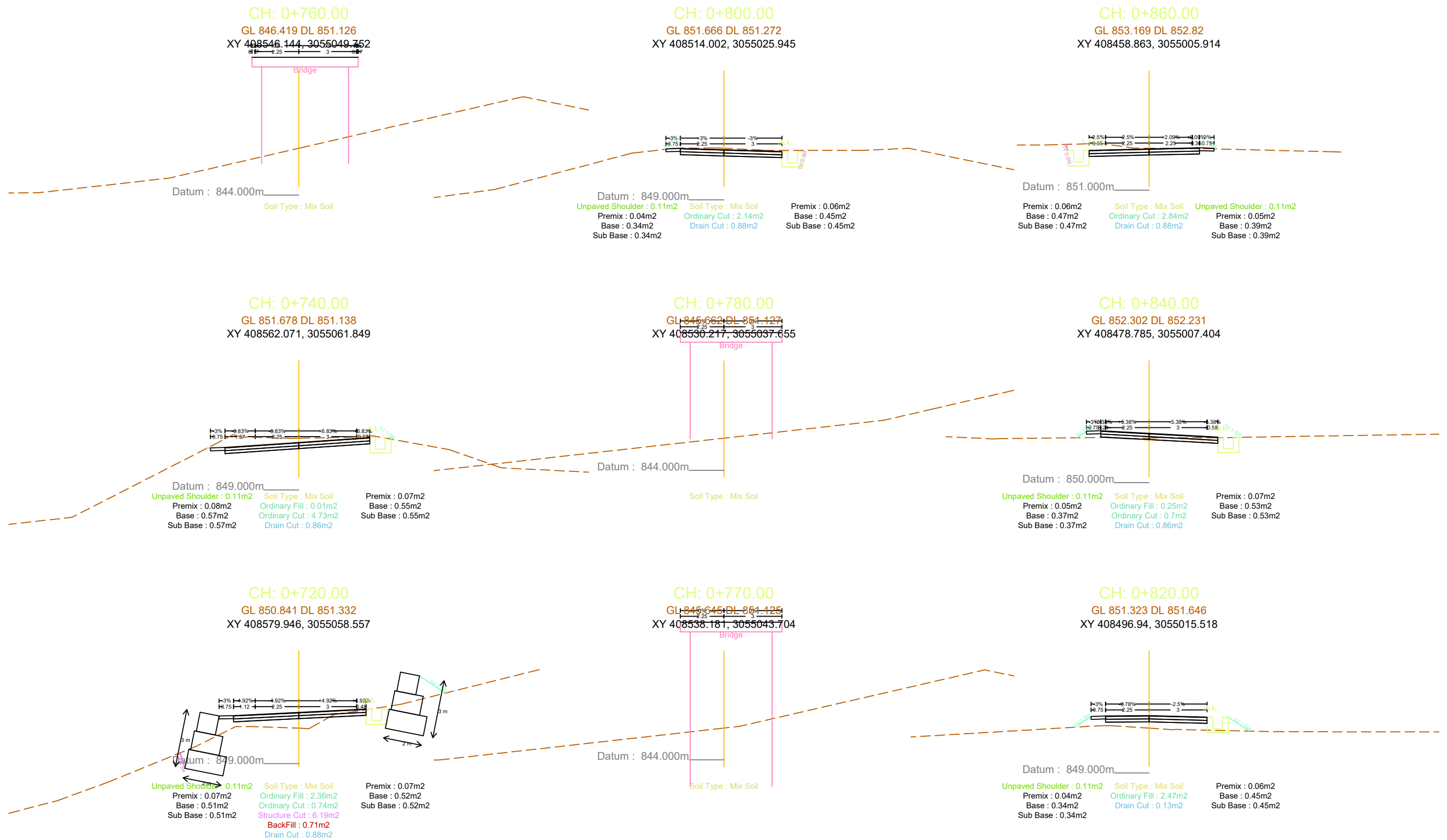
Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :		
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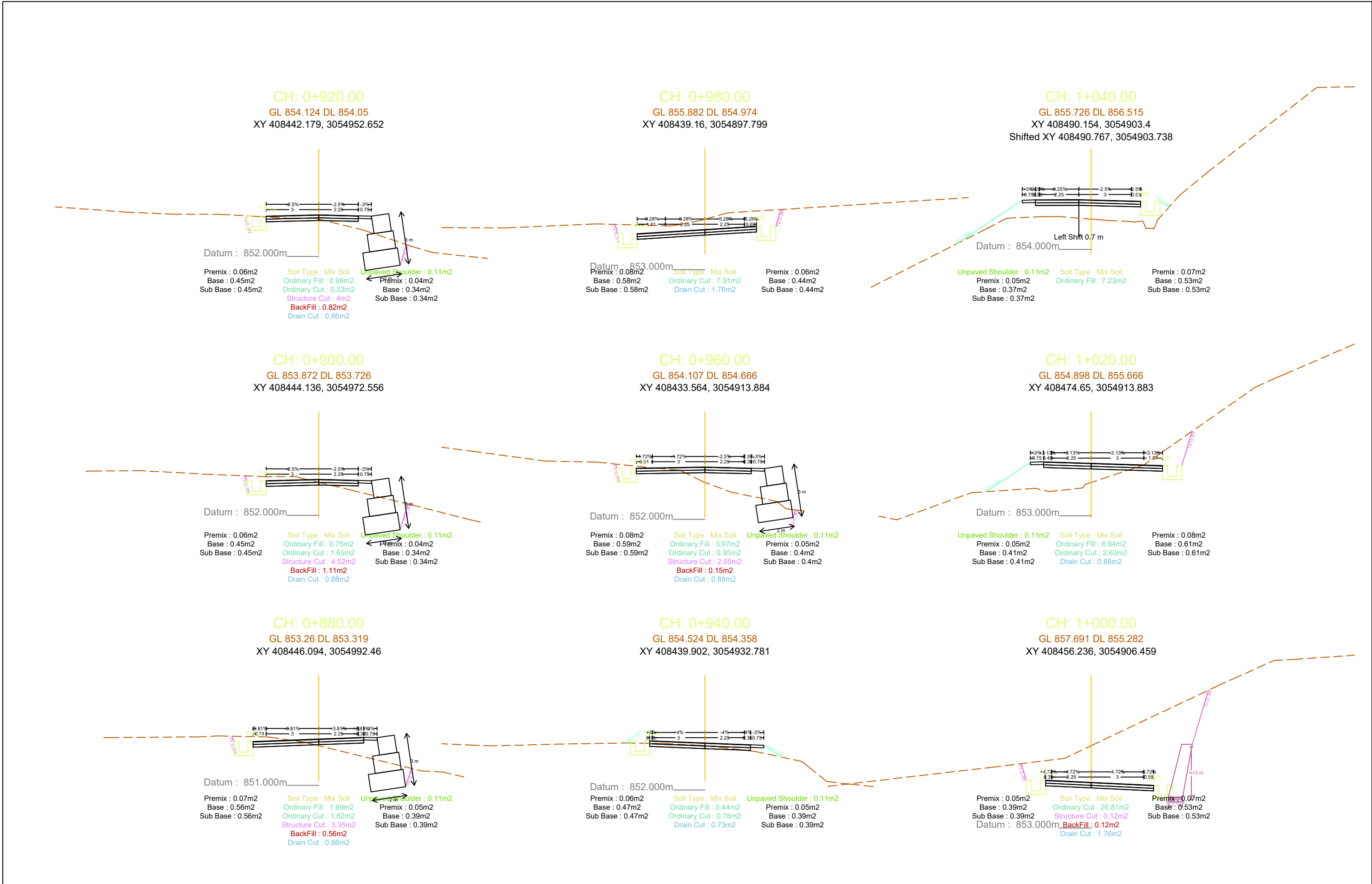
Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:			Drawing No.2
										Sheet No. 3/40
									CH: 0+360.00 - 0+520.00	



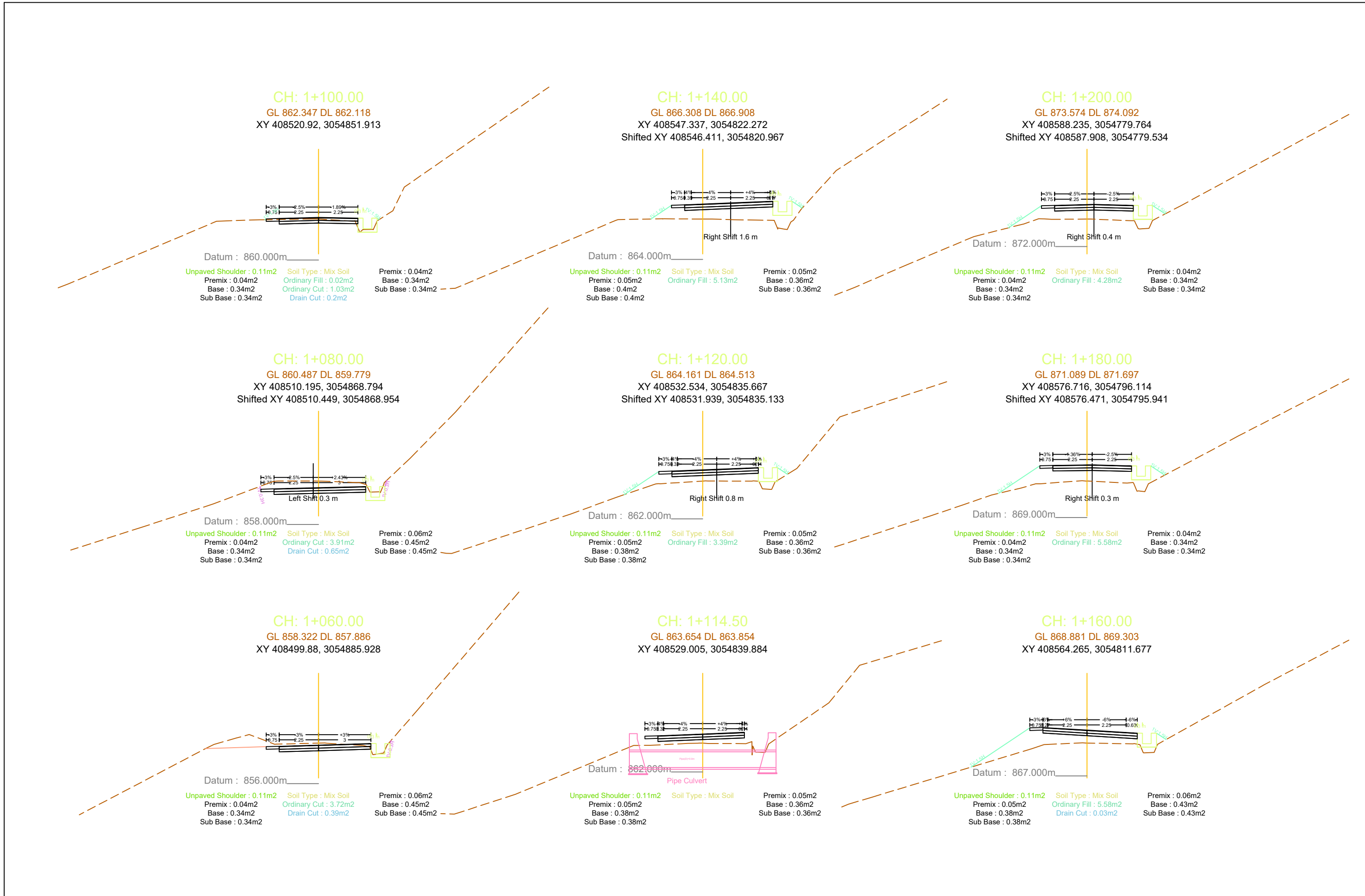
Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76
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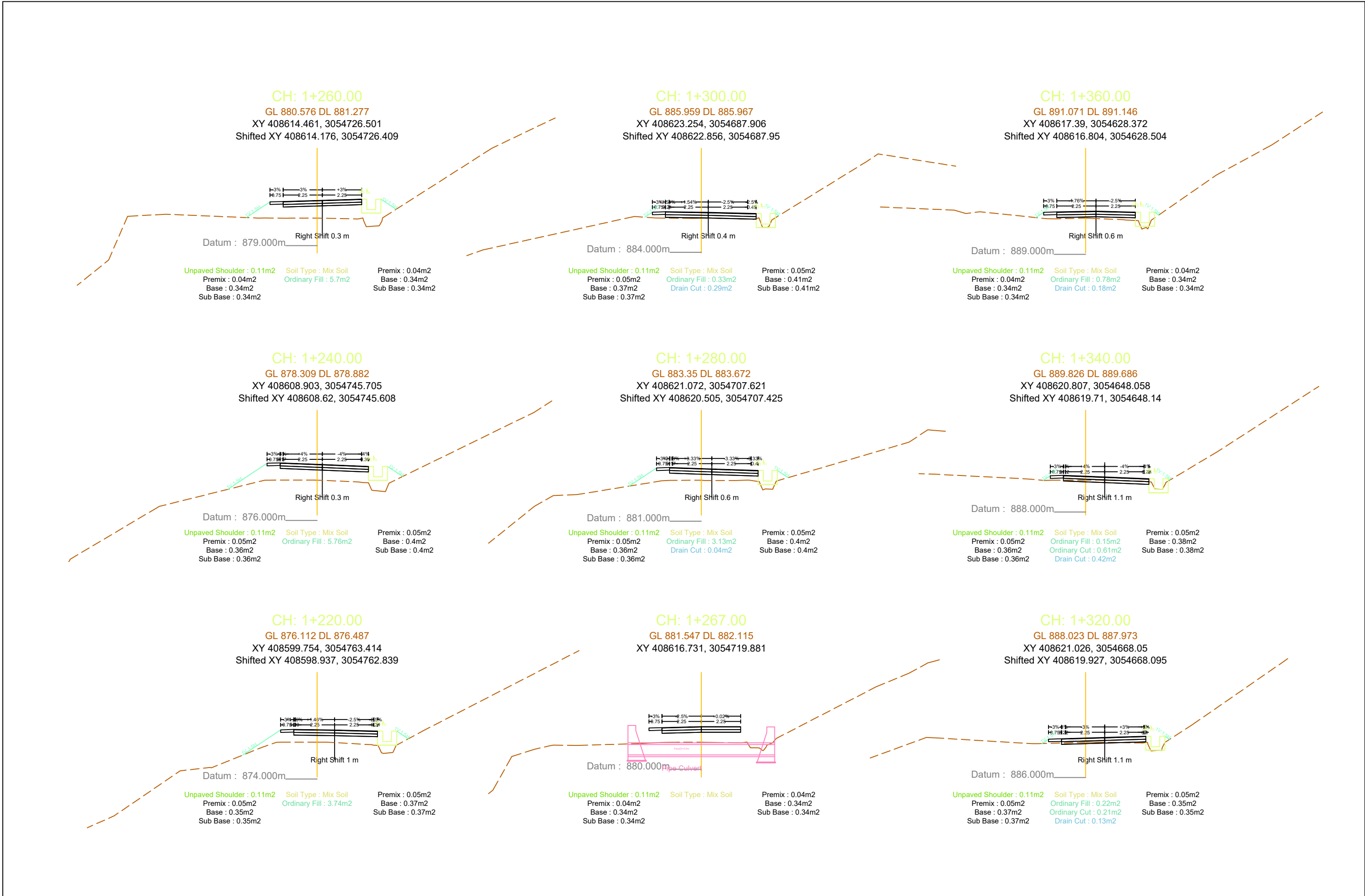


Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:		Drawing No.2	
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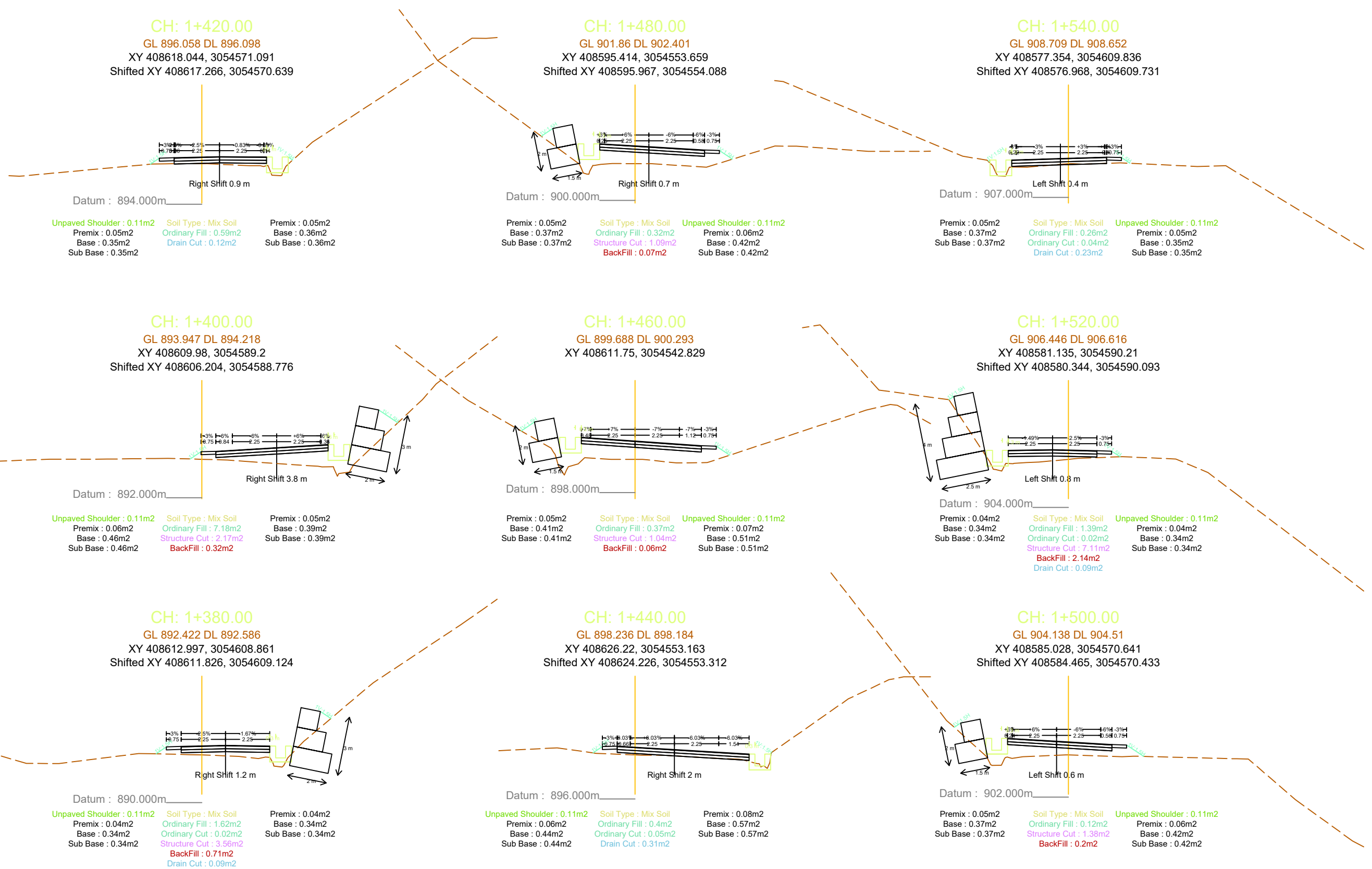


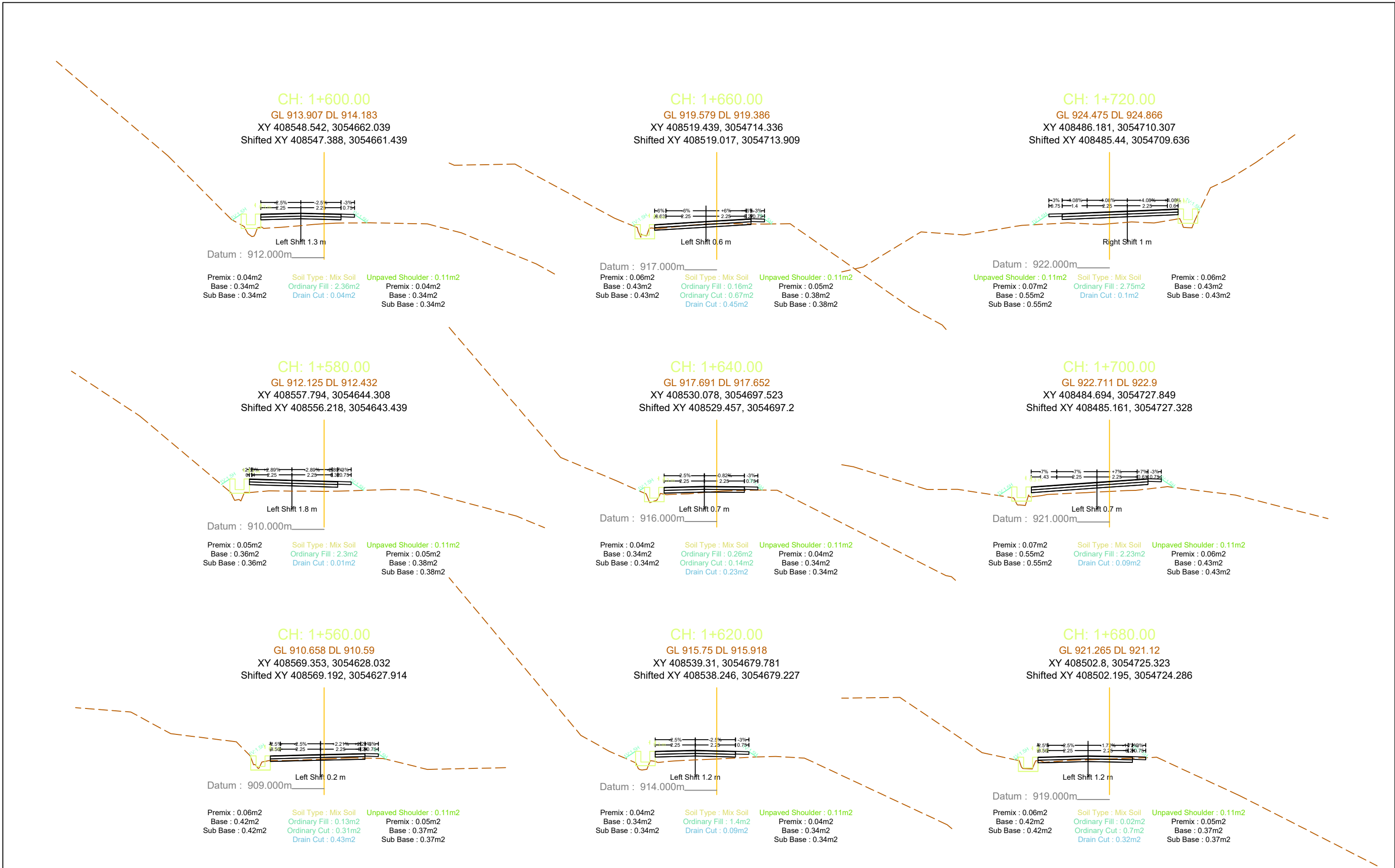
Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:		Drawing No.2	
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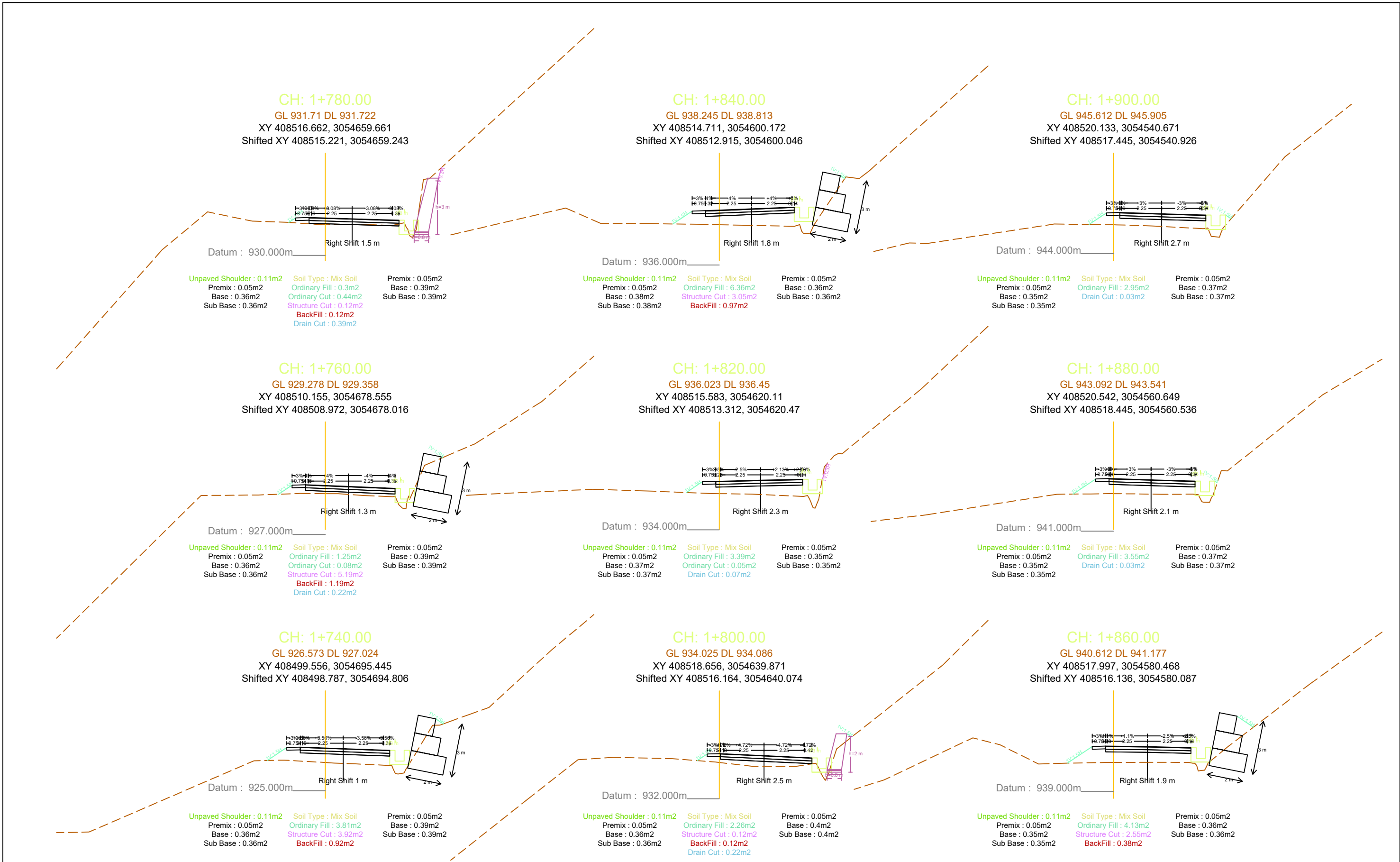


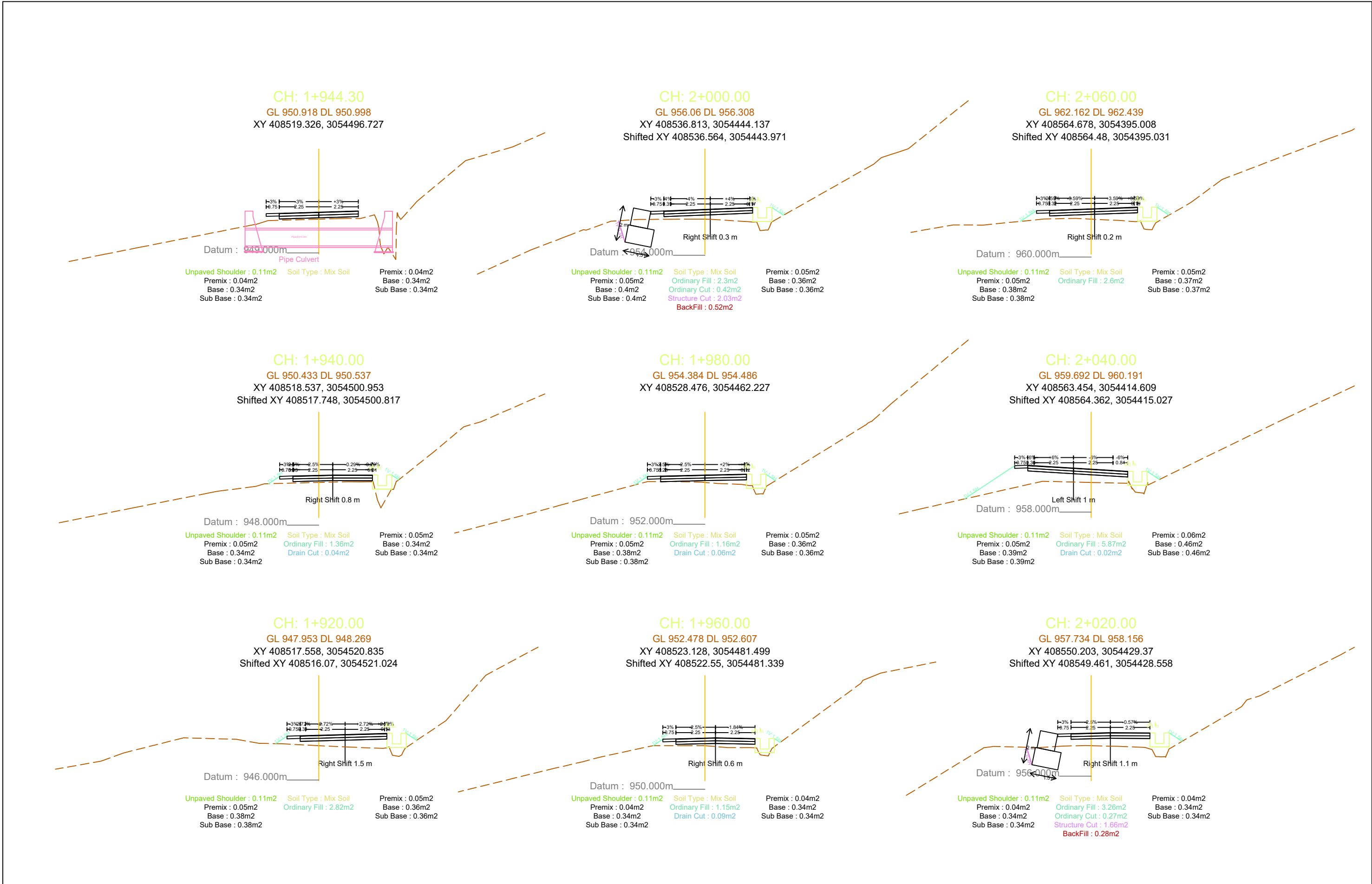
Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:		Drawing No.2	
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Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:		Drawing No.2	
								CH: 1+560.00 - 1+720.00	Sheet No. 10/40	





Ministry of Federal Affairs and General Administration Department of Local Infrastructure Rural Connectivity Improvement Project (RCIP) Project Implementation Unit (PIU-2) Lalitpur, Nepal	CONSULTANT: Inclusive Consultants Pvt. Ltd. Sitapaila, Kathmandu Phone : 014034880	Scale HORIZONTAL 1:100 VERTICAL 1:100	CONSULTANT :			RCIP:		Project: Detailed Engineering Survey, Design and Cost Estimate of Nayapul-Pawati-Dadakharka Road (Nayapul-Pawati section) (CH 0+000 to 6+800) RCIP/PIU/DPR/03 -075/76	Cross-Section	Date: 5/13/2019
			DESIGNED BY:	CHECKED BY:	RECOMMENDED BY:	SUBMITTED FOR APPROVAL BY:	APPROVED BY:		Drawing No.2	
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