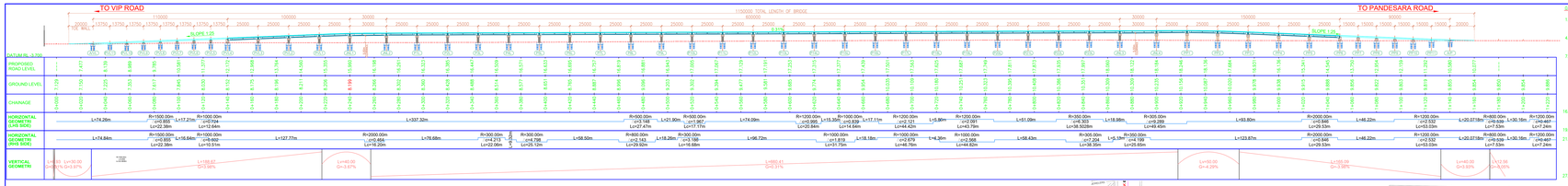
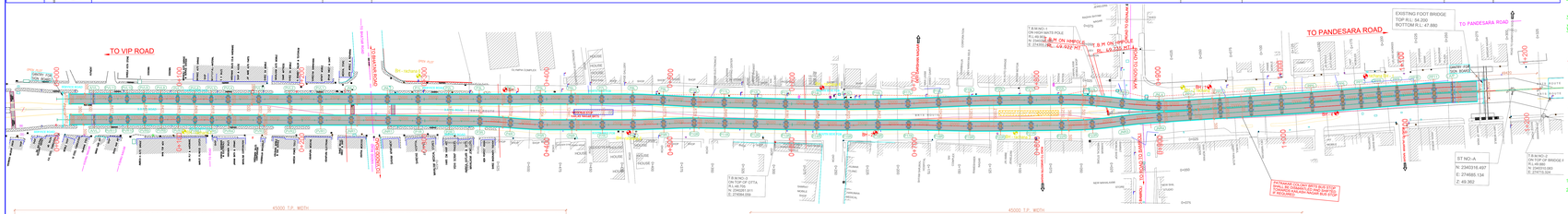
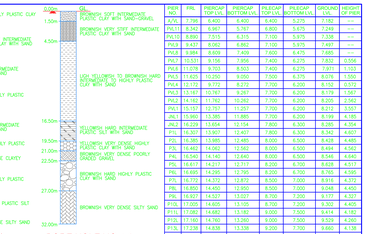
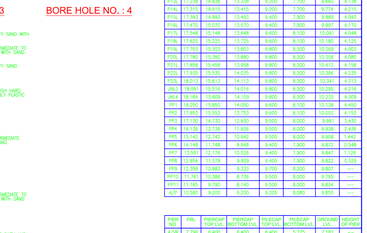
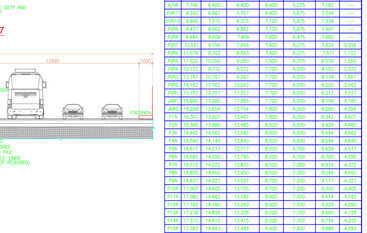


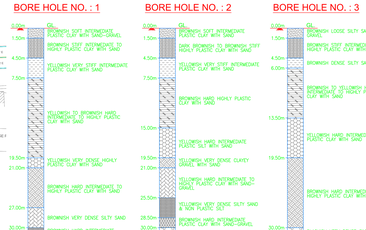


BORE HOLE NO. : 1


BORE HOLE NO. : 2


BORE HOLE NO. : 3


BORE HOLE NO. : 4

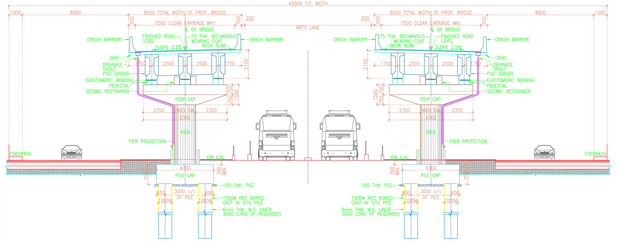

BORE HOLE NO. : 5

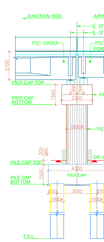
BORE HOLE NO. : 6

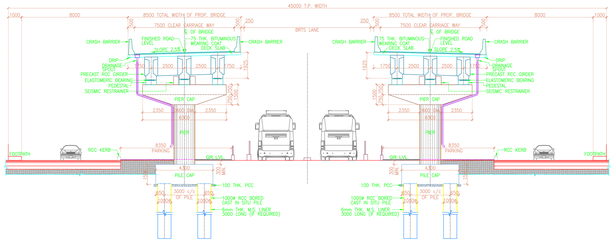
BORE HOLE NO. : 7

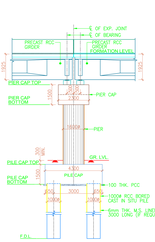
NO.	FBL	PIERCAP TOP LVL	PIERCAP BOTTOM LVL	PILECAP TOP LVL	PILECAP BOTTOM LVL	GROUND LVL	HEIGHT OF PIER
AX1	8.136	8.400	8.400	5.400	5.275	7.350	---
PK11	8.342	8.967	5.767	6.800	5.675	7.249	---
PK10	8.490	8.633	6.133	7.100	5.975	7.149	---
PK9	8.437	8.002	6.802	7.100	5.975	7.437	---
PK8	8.941	8.609	7.409	7.600	6.475	7.600	---
PK7	10.531	9.156	7.956	7.400	6.275	7.623	0.554
PK6	11.018	9.703	8.503	7.400	6.275	7.971	1.103
PK5	11.425	10.250	9.050	7.500	6.375	8.320	1.550
PK4	12.172	9.772	8.272	7.700	6.200	8.152	0.572
PK3	13.167	10.767	9.267	7.700	6.200	8.179	1.567
PK2	14.162	11.762	10.262	7.700	6.200	8.206	2.562
PK1	15.157	12.757	11.257	7.700	6.200	8.233	3.557
AK1	15.660	13.385	11.885	7.700	6.200	8.199	4.185
PK2	16.729	13.814	12.114	7.800	6.300	8.285	4.314
PK3	16.723	13.923	12.223	7.800	6.300	8.323	4.601
PK4	16.585	13.985	12.485	8.000	6.500	8.428	4.485
PK5	16.491	14.042	12.542	8.000	6.500	8.494	4.542
PK6	16.540	14.142	12.640	8.000	6.500	8.516	4.640
PK7	16.617	14.217	12.717	8.200	6.700	8.628	4.517
PK8	16.695	14.295	12.795	8.200	6.700	8.765	4.595
PK9	16.773	14.372	12.872	8.500	7.000	8.916	4.372
PK10	16.820	14.420	12.920	8.500	7.000	9.049	4.420
PK11	16.937	14.537	13.037	8.700	7.200	9.177	4.537
PK12	17.020	14.605	13.105	8.700	7.200	9.302	4.605
PK13	17.082	14.682	13.182	8.000	7.500	9.414	4.182
PK14	17.129	14.729	13.229	8.000	7.500	9.529	4.229
PK15	17.138	14.838	13.338	9.200	7.700	9.660	4.138
PK16	17.175	14.913	13.413	9.200	7.700	9.774	4.213
PK17	17.153	14.893	13.443	9.400	7.900	9.893	3.993
PK18	17.123	15.070	13.570	9.400	7.900	9.997	4.170
PK19	17.145	15.148	13.648	9.600	8.100	10.098	4.048
PK20	17.182	15.225	13.725	9.600	8.100	10.180	4.125
PK21	17.182	15.303	13.803	9.600	8.100	10.253	4.203
PK22	17.182	15.380	13.880	9.800	8.300	10.358	4.080
PK23	17.139	15.458	13.958	9.800	8.300	10.412	4.158
PK24	17.139	15.535	14.035	9.800	8.300	10.488	4.235
PK25	18.033	15.613	14.113	9.800	8.300	10.541	4.313
PK26	18.084	15.684	14.116	9.800	8.300	10.295	4.216
PK27	18.084	15.609	14.109	9.800	8.300	10.235	4.309
PK28	17.953	15.850	14.350	9.600	8.100	10.178	4.450
PK29	17.953	15.553	13.753	9.600	8.100	10.052	4.153
PK30	17.933	14.730	12.930	9.400	8.000	9.918	3.430
PK31	18.136	13.936	12.136	9.500	8.000	9.938	2.636
PK32	17.142	12.142	10.942	8.500	8.000	9.908	1.442
PK33	14.148	11.148	9.948	9.400	7.900	9.878	0.548
PK34	12.551	12.178	10.528	9.400	7.900	9.847	1.128
PK35	12.454	11.979	9.829	9.400	7.900	9.802	0.529
PK36	13.358	10.983	8.333	9.700	8.200	9.857	---
PK37	13.361	10.986	8.336	9.700	8.200	9.795	---
PK38	11.181	9.795	8.140	9.500	8.000	9.933	---
AX2	10.580	9.200	9.200	9.200	8.080	9.853	---

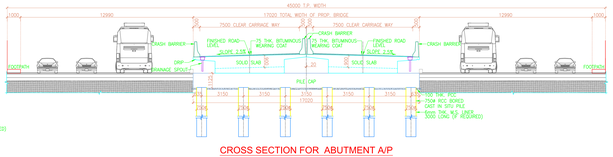
NO.	FBL	PIERCAP TOP LVL	PIERCAP BOTTOM LVL	PILECAP TOP LVL	PILECAP BOTTOM LVL	GROUND LVL	HEIGHT OF PIER
AX5	8.136	8.400	8.400	5.400	5.275	7.350	---
PK18	8.342	8.967	5.767	6.800	5.675	7.239	---
PK19	8.419	8.043	6.843	7.100	5.975	7.139	---
PK20	8.984	8.609	7.409	7.600	6.475	7.680	---
PK21	10.531	9.156	7.956	7.400	6.275	7.623	0.554
PK22	11.018	9.703	8.503	7.400	6.275	7.971	1.103
PK23	11.425	10.250	9.050	7.500	6.375	8.320	1.550
PK24	12.172	9.772	8.272	7.700	6.200	8.152	0.572
PK25	13.167	10.767	9.267	7.700	6.200	8.179	1.567
PK26	14.162	11.762	10.262	7.700	6.200	8.206	2.562
PK27	15.157	12.757	11.257	7.700	6.200	8.212	3.557
PK28	15.660	13.385	11.885	7.700	6.200	8.199	4.185
PK29	16.729	13.814	12.114	7.800	6.300	8.285	4.314
PK30	16.723	13.923	12.223	7.800	6.300	8.323	4.601
PK31	16.585	13.985	12.485	8.000	6.500	8.428	4.485
PK32	16.491	14.042	12.542	8.000	6.500	8.494	4.542
PK33	16.540	14.142	12.640	8.000	6.500	8.516	4.640
PK34	16.617	14.217	12.717	8.200	6.700	8.628	4.517
PK35	16.695	14.295	12.795	8.200	6.700	8.765	4.595
PK36	16.773	14.372	12.872	8.500	7.000	8.916	4.372
PK37	16.820	14.420	12.920	8.500	7.000	9.049	4.420
PK38	16.937	14.537	13.037	8.700	7.200	9.177	4.537
PK39	17.020	14.605	13.105	8.700	7.200	9.302	4.605
PK40	17.082	14.682	13.182	9.000	7.500	9.414	4.182
PK41	17.129	14.729	13.229	9.000	7.500	9.529	4.229
PK42	17.138	14.838	13.338	9.200	7.700	9.660	4.138
PK43	17.175	14.913	13.413	9.200	7.700	9.774	4.213
PK44	17.153	14.893	13.443	9.400	7.900	9.893	3.993
PK45	17.123	15.070	13.570	9.400	7.900	9.997	4.170
PK46	17.145	15.148	13.648	9.600	8.100	10.098	4.048
PK47	17.182	15.225	13.725	9.600	8.100	10.180	4.125
PK48	17.182	15.303	13.803	9.600	8.100	10.253	4.203
PK49	17.182	15.380	13.880	9.800	8.300	10.358	4.080
PK50	17.139	15.458	13.958	9.800	8.300	10.412	4.158
PK51	17.139	15.535	14.035	9.800	8.300	10.488	4.235
PK52	18.033	15.613	14.113	9.800	8.300	10.541	4.313
PK53	18.084	15.684	14.116	9.800	8.300	10.295	4.216
PK54	18.084	15.609	14.109	9.800	8.300	10.235	4.309
PK55	17.953	15.850	14.350	9.600	8.100	10.178	4.450
PK56	17.953	15.553	13.753	9.600	8.100	10.052	4.153
PK57	17.933	14.730	12.930	9.400	8.000	9.918	3.430
PK58	18.136	13.936	12.136	9.500	8.000	9.938	2.636
PK59	17.142	12.142	10.942	8.500	8.000	9.908	1.442
PK60	14.148	11.148	9.948	9.400	7.900	9.878	0.548
PK61	12.551	12.178	10.528	9.400	7.900	9.847	1.128
PK62	12.454	11.979	9.829	9.400	7.900	9.802	0.529
PK63	13.358	10.983	8.333	9.700	8.200	9.857	---
PK64	13.361	10.986	8.336	9.700	8.200	9.795	---
PK65	11.181	9.795	8.140	9.500	8.000	9.933	---
AX6	10.580	9.200	9.200	9.200	8.080	9.853	---

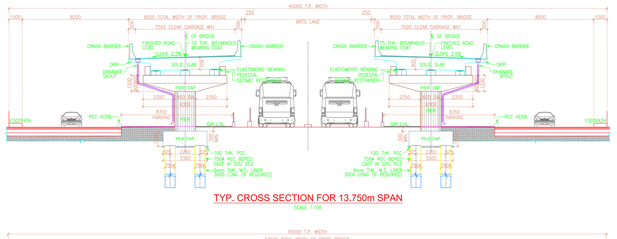

TYP. CROSS SECTION FOR 30.00m SPAN
SCALE 1:100

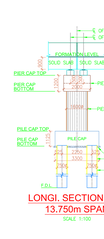

LONGI. SECTION FOR 30.00m SPAN
SCALE 1:100

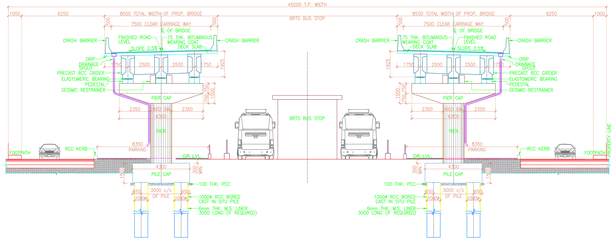

TYP. CROSS SECTION FOR 25.00m SPAN
SCALE 1:100

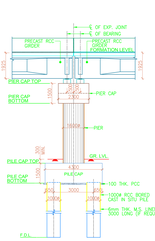

LONGI. SECTION FOR 25.00m SPAN
SCALE 1:100

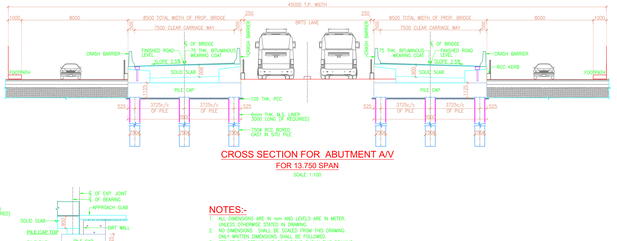

CROSS SECTION FOR ABUTMENT A/P
FOR 15.000m SPAN
SCALE 1:100

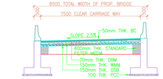

TYP. CROSS SECTION FOR 13.750m SPAN
SCALE 1:100

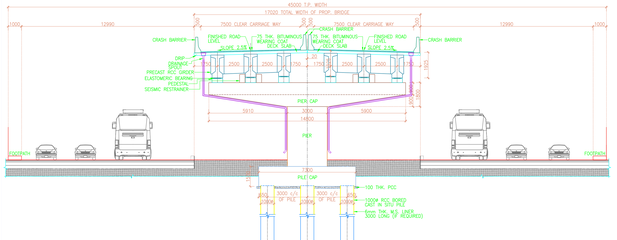

LONGI. SECTION FOR 13.750m SPAN
SCALE 1:100

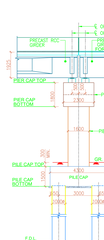

TYP. CROSS SECTION FOR 25.00m SPAN AT BRTS BUS STOP
SCALE 1:100

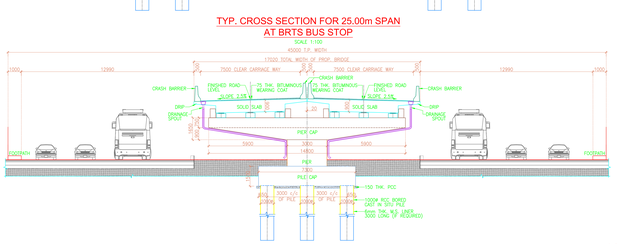

LONGI. SECTION FOR 25.00m SPAN
SCALE 1:100

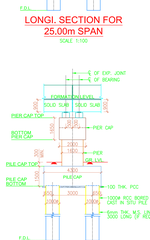

CROSS SECTION FOR ABUTMENT A/V
FOR 13.750 SPAN
SCALE 1:100


TYP. CROSS SECTION FOR APPROACH AT TOE WALL PORTION
FOR 8.5M WIDE BRIDGE
SCALE 1:100


TYP. CROSS SECTION FOR PIER PP1 TO PP6
25.00m SPAN
SCALE 1:100


LONGI. SECTION FOR PIER PP1 TO PP6
25.00m SPAN
SCALE 1:100


TYP. CROSS SECTION FOR PIER PP7 & PP8
15.000m SPAN
SCALE 1:100


LONGI. SECTION FOR PIER PP7 TO PP11
15.000m SPAN
SCALE 1:100

LONGI. SECTION ABUTMENT A/P
FOR 15.000m SPAN
SCALE 1:100

LONGI. SECTION ABUTMENT A/V
FOR 13.750 SPAN
SCALE 1:100

NOTES:-

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METER. UNLESS OTHERWISE STATED IN DRAWING.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. DIMENSIONS SHOWN ON THE DRAWINGS FROM THIS DRAWING AND TENDERS AND ANY UNIT AND ITS DIMENSIONS WILL BE AS PER DETAIL DESIGN AND DRAWING APPROVED BY THE DEPARTMENT.
4. DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODES AS APPROVED BY MOST.
5. IRC5-2015, IRC6-2017, IRC78-2014 AND IRC112-2020.
6. THE PROPOSED STRUCTURE IS DESIGNED FOR TWO - LANE LIVE LOAD LOADING AS PER PROVISIONS OF IRC 6:2017 AND IRC 112:2020 AND IN ACCORDANCE WITH TABLE-4 OF IRC 6:2017 WITH APPROPRIATE LANE REDUCTION FACTOR AND FOOTPATH LIVE LOAD. FURTHER THE PROPOSED STRUCTURE IS CHECKED FOR IRC CLASS SPECIAL VEHICLE (SV) LOADING AS PER PROVISIONS OF IRC 6:2017.
7. MIN. GRADE OF CONCRETE:

P.C.C.	M-15	RCC APPROACH SLAB	M-35
PILE, PILECAP	M-35	PIER CAP	M-35
PIER, PIERCAP	M-40	CRASH BARRIER	M-45
PSC GIRDER/RCC GIRDER	M-50	SEISMIC RESTRAINER	M-45
DECK SLAB/WARRANAB	M-50	TOE WALL	M-30
R.C.C. SOLID SLAB	M-40		

8. REINFORCEMENT STEEL (HYSD IS (TMT) CONFORMING TO IS 1786.
9. PRESTRESS STEEL SHALL BE HTS STRAND (LOW RELAXATION).
10. ALL MATERIALS ARE TO BE TESTED FOR REQUIRED QUALITY AS PER MOST SPECIFICATION TO BE PROVIDED IN DESIGN.
11. DRAINAGE SPOUT AND WEARING COAT SHALL BE AS PER MOST SPECIFICATIONS.
12. ELASTOMERIC BEARING SHALL CONFORM TO IRC:83.
13. THE DEPTH OF FOUNDATION SHOWN IN DRAWING IS TENTATIVE. DETAILED DESIGN SHALL BE DONE AS PER SOIL EXPLORATION REPORT.
14. SEISMIC ZONE-III SHALL BE CONSIDERED FOR DETAIL DESIGN AS PER LATEST IRC SPECIFICATION.
15. MAXIMUM DESIGN SPEED 80 kmph CONSIDERED.
16. THE STRUCTURE SHALL BE DESIGNED AS PER LATEST IRC SPECIFICATION FOR "MODERATE" EXPOSURE CONDITION.
17. THE STRUCTURE SHALL BE DESIGNED FOR WIND SPEED OF 44m/s.
18. THE STRUCTURE SHALL BE DESIGNED FOR WIND SPEED OF 44m/s.

NO.	DATE	REVISION

PROJECT: CONSTRUCTION FLY OVER BRIDGE CROSSING PATIDAR CIRCLE AND KAILASH NAGAR JUNCTION ON BARDOLI-HAZIRA ROAD WIDE TO ROAD OF SOUTH ZONE-A (UDHANA) IN SURAT ON E.P.C. BASIS

CONTRACTOR: M/s. RACHANA CONSTRUCTION CO., ANKLESHWAR

CLIENT: SURAT MUNICIPAL CORPORATION SURAT

CONSULTANT: SHAH ASSOCIATES
1005, 10TH FLOOR, SMART-VI, B/h. MATRU CINEMA, OFF. ASHRAM ROAD, AHMEDABAD- 380009.
PHONE NO. 079-26582783, 26582529, 13314

TITLE: GENERAL ARRANGEMENT DRAWING

DRAWN BY: MONKHAM	DESIGN BY: D. H. SHAH	
CHECKED BY: D. H. SHAH	FRIGI. NO.:	ORIG. NO.: REVISION:
SCALE: AS SHOWN	--	01 R0
DATE: 25.08.2025		