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				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DATE</td> <td style="width: 25%;">DRAWING NO</td> <td style="width: 25%;">PAPER SIZE</td> <td style="width: 25%;">REV</td> </tr> <tr> <td>08.03.2021</td> <td>GN-AR-01</td> <td>A3</td> <td>A</td> </tr> </table>	DATE	DRAWING NO	PAPER SIZE	REV	08.03.2021	GN-AR-01	A3	A
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VOLUME III - SECTION X - TENDER DRAWINGS

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 MMRDA MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY					DATE: 10.04.2021 DRAWING NO.: P4 - ITS - 001 PAPER SIZE: A3 REV: 0


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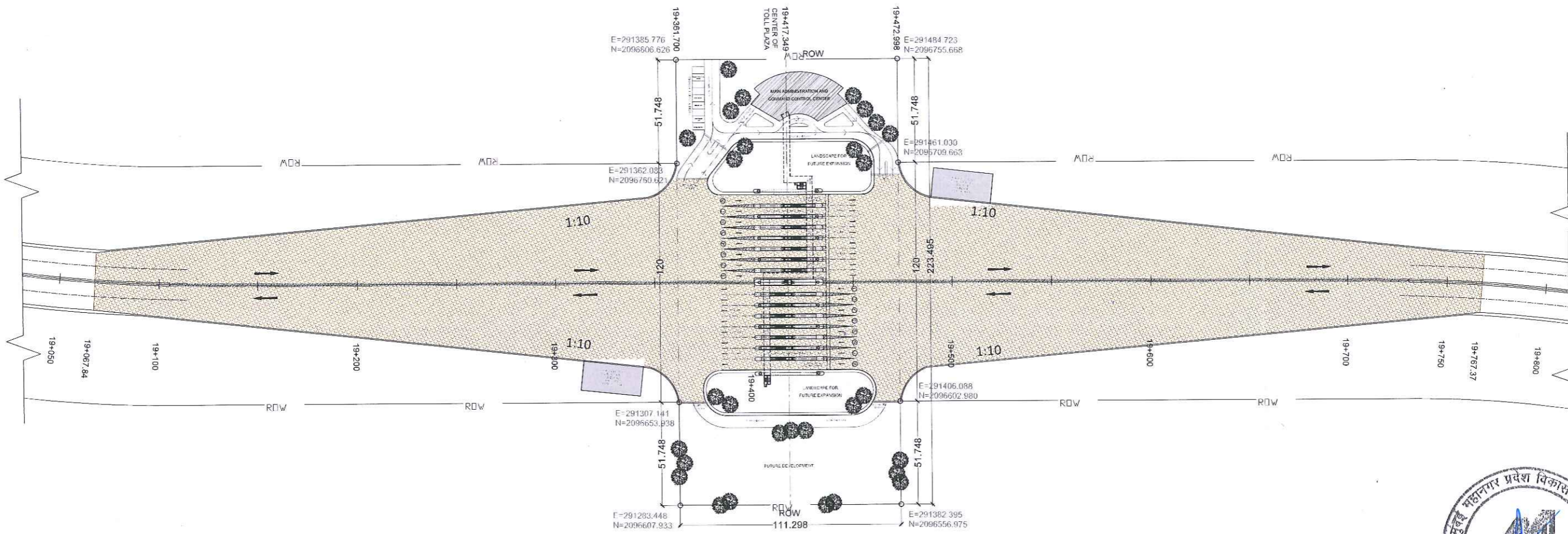


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DATE: 06.10.2021		DRAWING NO.	PAPER SIZE: A3	REV. 0	

← TO SEWRI (MUMBAI)

TO CHIRLE (NAVI MUMBAI) →

000279



PLAN - MAIN TOLL PLAZA

SCALE - 1: 1000



NOTES:

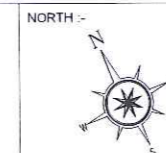
1. All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions.
2. This drawing must be read in conjunction with all relevant drawings from other discipline.
3. All dimensions are in millimeter unless otherwise specified. No dimensions to be scaled from this drawing.
4. Ground level, where shown, are indicative. Actual levels shall be taken from survey drawings and shall be confirmed at site.
5. Information on actual size of cutout and openings shall be as per MEP design.
6. Lift sizes are indicative only and final sizes shall be as per manufacturer's requirement as finalized by employer and their pit drainage to be as per MEP drawings.
7. The minimum size of the lift car and all other requirements relating to accessibility, in all public buildings shall be in accordance with 13 of Part 3 "Development Control Rules and General Building Requirements" of the Code.
8. The dimensions on toll booths / Toll Plaza are indicative only. The contractor is required to design the toll booths / Toll Plaza as per relevant IRC codes (IRC: SP-87-2019, IRC: SP-99-2013).
9. Any discrepancies found between this drawing and other documents should be referred immediately to the architect.
10. This drawing should be superseded immediately when a revised version will issued.
11. Employer has the copyrights of this drawing.

NAME	SIGN
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CHECKED BY: SB	
APPROVED BY: TKS	



PROJECT :-

MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



TITLE :-

MAIN TOLL PLAZA
LOCATION PLAN

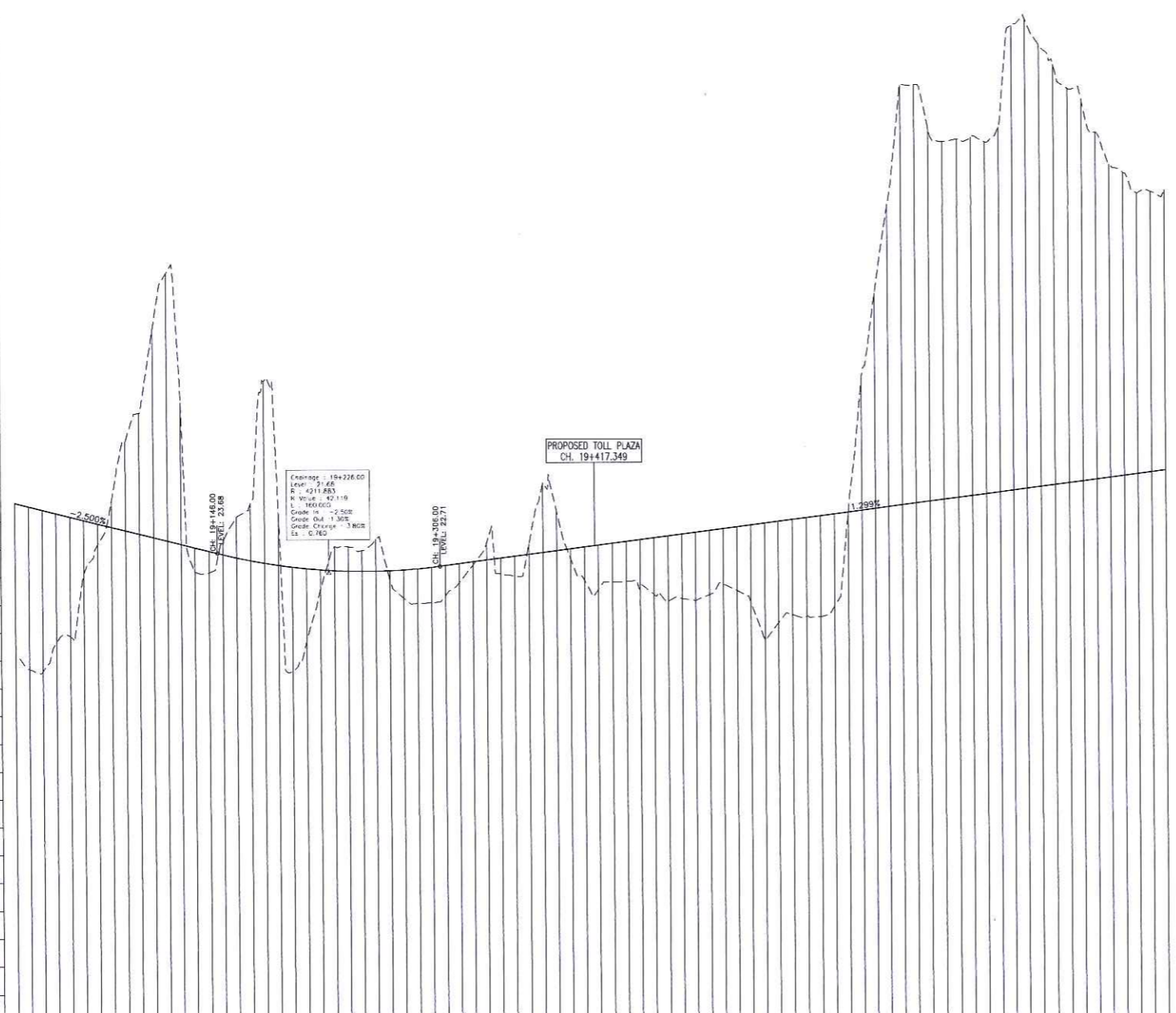
DATE	DRAWING NO.	PAPER SIZE	REV.
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← TO SEWRI (MUMBAI)

TO CHIRLE (NAVI MUMBAI) →

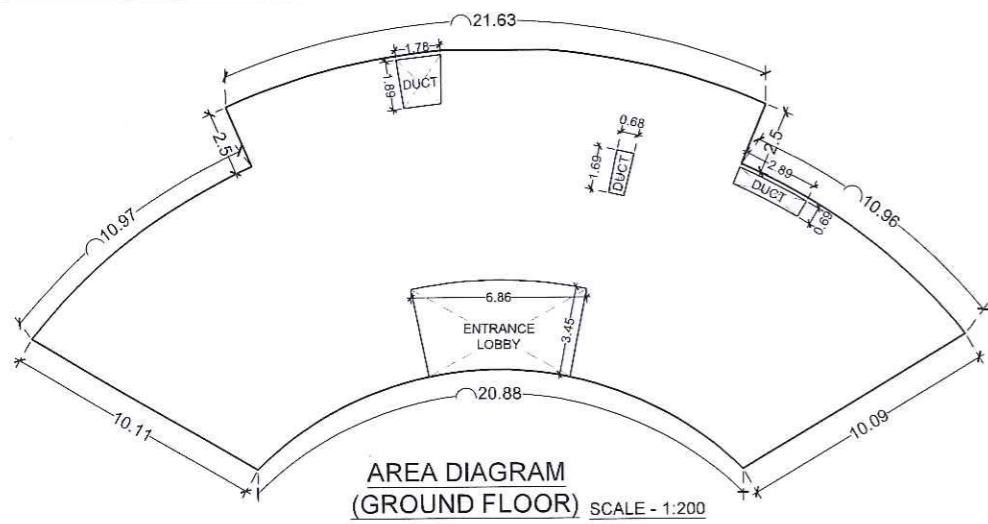
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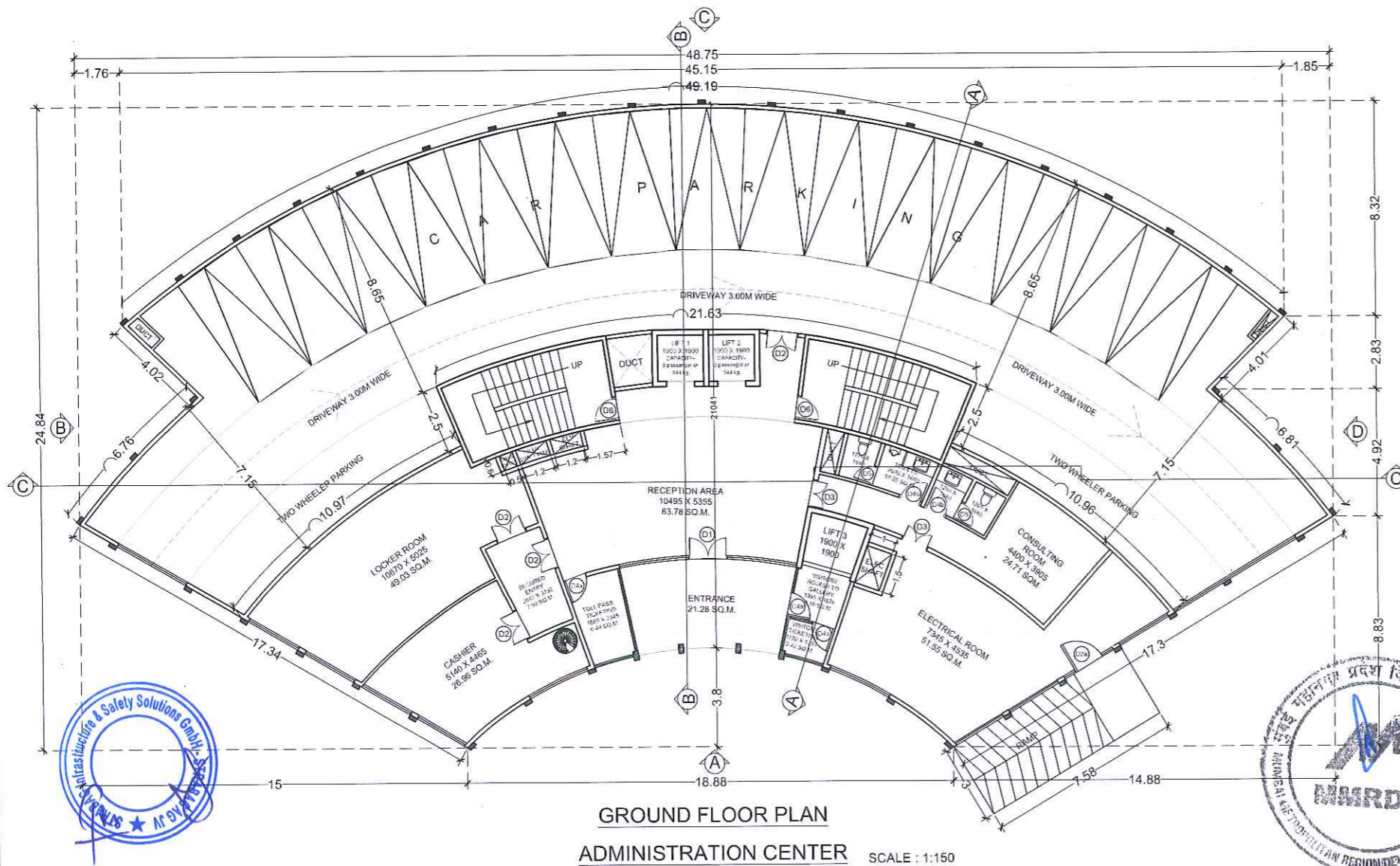
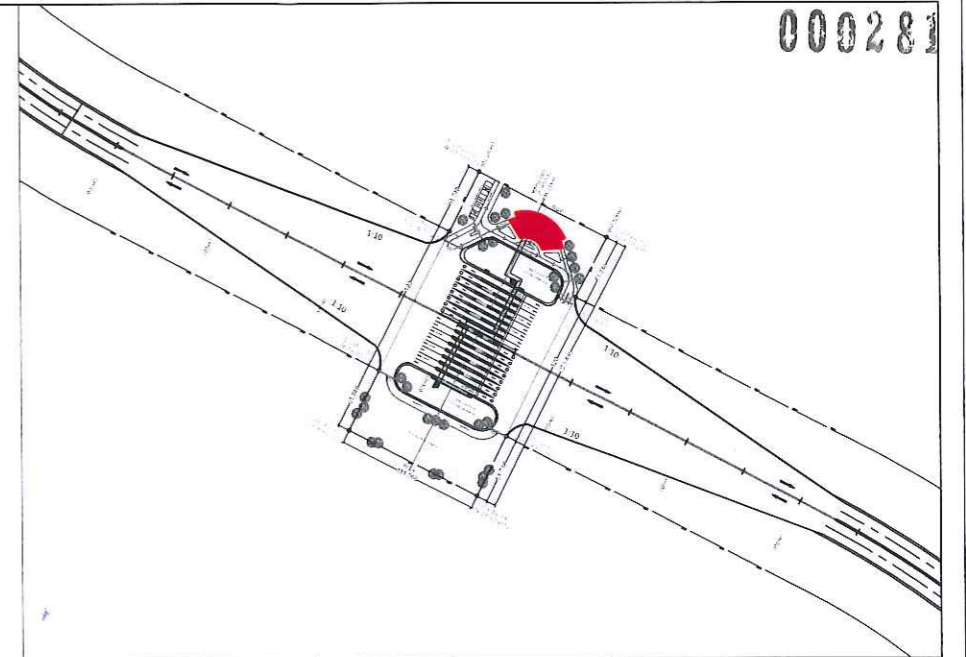


PROPOSED ROAD LEVEL (m)	16.208	17.225	18.242	19.259	20.276	21.293	22.310	23.327	24.344	25.361	26.378	27.395	28.412	29.429	30.446	31.463	32.480	33.497	34.514	35.531	36.548	37.565	38.582	39.599	40.616	41.633	42.650	43.667	44.684	45.701	46.718	47.735	48.752	49.769	50.786	51.803	52.820	53.837	54.854	55.871	56.888	57.905	58.922	59.939	60.956	61.973	62.990	64.007	65.024	66.041	67.058	68.075	69.092	70.109	71.126	72.143	73.160	74.177	75.194	76.211	77.228	78.245	79.262	80.279	81.296	82.313	83.330	84.347	85.364	86.381	87.398	88.415	89.432	90.449	91.466	92.483	93.500	94.517	95.534	96.551	97.568	98.585	99.602	100.619	101.636	102.653	103.670	104.687	105.704	106.721	107.738	108.755	109.772	110.789	111.806	112.823	113.840	114.857	115.874	116.891	117.908	118.925	119.942	120.959	121.976	122.993	124.010	125.027	126.044	127.061	128.078	129.095	130.112	131.129	132.146	133.163	134.180	135.197	136.214	137.231	138.248	139.265	140.282	141.299	142.316	143.333	144.350	145.367	146.384	147.401	148.418	149.435	150.452	151.469	152.486	153.503	154.520	155.537	156.554	157.571	158.588	159.605	160.622	161.639	162.656	163.673	164.690	165.707	166.724	167.741	168.758	169.775	170.792	171.809	172.826	173.843	174.860	175.877	176.894	177.911	178.928	179.945	180.962	181.979	182.996	184.013	185.030	186.047	187.064	188.081	189.098	190.115	191.132	192.149	193.166	194.183	195.200	196.217	197.234	198.251	199.268	200.285	201.302	202.319	203.336	204.353	205.370	206.387	207.404	208.421	209.438	210.455	211.472	212.489	213.506	214.523	215.540	216.557	217.574	218.591	219.608	220.625	221.642	222.659	223.676	224.693	225.710	226.727	227.744	228.761	229.778	230.795	231.812	232.829	233.846	234.863	235.880	236.897	237.914	238.931	239.948	240.965	241.982	242.999	244.016	245.033	246.050	247.067	248.084	249.101	250.118	251.135	252.152	253.169	254.186	255.203	256.220	257.237	258.254	259.271	260.288	261.305	262.322	263.339	264.356	265.373	266.390	267.407	268.424	269.441	270.458	271.475	272.492	273.509	274.526	275.543	276.560	277.577	278.594	279.611	280.628	281.645	282.662	283.679	284.696	285.713	286.730	287.747	288.764	289.781	290.798	291.815	292.832	293.849	294.866	295.883	296.900	297.917	298.934	299.951	300.968	301.985	302.002	303.019	304.036	305.053	306.070	307.087	308.104	309.121	310.138	311.155	312.172	313.189	314.206	315.223	316.240	317.257	318.274	319.291	320.308	321.325	322.342	323.359	324.376	325.393	326.410	327.427	328.444	329.461	330.478	331.495	332.512	333.529	334.546	335.563	336.580	337.597	338.614	339.631	340.648	341.665	342.682	343.699	344.716	345.733	346.750	347.767	348.784	349.801	350.818	351.835	352.852	353.869	354.886	355.903	356.920	357.937	358.954	359.971	360.988	361.005	362.022	363.039	364.056	365.073	366.090	367.107	368.124	369.141	370.158	371.175	372.192	373.209	374.226	375.243	376.260	377.277	378.294	379.311	380.328	381.345	382.362	383.379	384.396	385.413	386.430	387.447	388.464	389.481	390.498	391.515	392.532	393.549	394.566	395.583	396.600	397.617	398.634	399.651	400.668	401.685	402.702	403.719	404.736	405.753	406.770	407.787	408.804	409.821	410.838	411.855	412.872	413.889	414.906	415.923	416.940	417.957	418.974	419.991	420.008	421.025	422.042	423.059	424.076	425.093	426.110	427.127	428.144	429.161	430.178	431.195	432.212	433.229	434.246	435.263	436.280	437.297	438.314	439.331	440.348	441.365	442.382	443.399	444.416	445.433	446.450	447.467	448.484	449.501	450.518	451.535	452.552	453.569	454.586	455.603	456.620	457.637	458.654	459.671	460.688	461.705	462.722	463.739	464.756	465.773	466.790	467.807	468.824	469.841	470.858	471.875	472.892	473.909	474.926	475.943	476.960	477.977	478.994	479.011	480.028	481.045	482.062	483.079	484.096	485.113	486.130	487.147	488.164	489.181	490.198	491.215	492.232	493.249	494.266	495.283	496.300	497.317	498.334	499.351	500.368	501.385	502.402	503.419	504.436	505.453	506.470	507.487	508.504	509.521	510.538	511.555	512.572	513.589	514.606	515.623	516.640	517.657	518.674	519.691	520.708	521.725	522.742	523.759	524.776	525.793	526.810	527.827	528.844	529.861	530.878	531.895	532.912	533.929	534.946	535.963	536.980	537.997	539.014	540.031	541.048	542.065	543.082	544.099	545.116	546.133	547.150	548.167	549.184	550.201	551.218	552.235	553.252	554.269	555.286	556.303	557.320	558.337	559.354	560.371	561.388	562.405	563.422	564.439	565.456	566.473	567.490	568.507	569.524	570.541	571.558	572.575	573.592	574.609	575.626	576.643	577.660	578.677	579.694	580.711	581.728	582.745	583.762	584.779	585.796	586.813	587.830	588.847	589.864	590.881	591.898	592.915	593.932	594.949	595.966	596.983	597.000	598.017	599.034	600.051	601.068	602.085	603.102	604.119	605.136	606.153	607.170	608.187	609.204	610.221	611.238	612.255	613.272	614.289	615.306	616.323	617.340	618.357	619.374	620.391	621.408	622.425	623.442	624.459	625.476	626.493	627.510	628.527	629.544	630.561	631.578	632.595	633.612	634.629	635.646	636.663	637.680	638.697	639.714	640.731	641.748	642.765	643.782	644.799	645.816	646.833	647.850	648.867	649.884	650.901	651.918	652.935	653.952	654.969	655.986	656.003	657.020	658.037	659.054	660.071	661.088	662.105	663.122	664.139	665.156	666.173	667.190	668.207	669.224	670.241	671.258	672.275	673.292	674.309	675.326	676.343	677.360	678.377	679.394	680.411	681.428	682.445	683.462	684.479	685.496	686.513	687.530	688.547	689.564	690.581	691.598	692.615	693.632	694.649	695.666	696.683	697.700	698.717	699.734	700.751	701.768	702.785	703.802	704.819	705.836	706.853	707.870	708.887	709.904	710.921	711.938	712.955	713.972	714.989	715.006	716.023	717.040	718.057	719.074	720.091	721.108	722.125	723.142	724.159	725.176	726.193	727.210	728.227	729.244	730.261	731.278	732.295	733.312	734.329	735.346	736.363	737.380	738.397	739.414	740.431	741.448	742.465	743.482	744.499	745.516	746.533	747.550	748.567	749.584	750.601	751.618	752.635	753.652	754.669	755.686	756.703	757.720	758.737	759.754	760.771	761.788	762.805	763.822	764.839	765.856	766.873	767.890	768.907	769.924	770.941	771.958	772.975	773.992	774.009	775.026	776.043	777.060	778.077	779.094	780.111	781.128	782.145	783.162	784.179	785.196	786.213	787.230	788.247	789.264	790.281	791.298	792.315	793.332	794.349	795.366	796.383	797.400	798.417	799.434	800.451	801.468	802.485	803.502	804.519	805.536	806.553	807.570	808.587	809.604	810.621	811.638	812.655	813.672	814.689	815.706	816.723	817.740	818.757	819.774	820.791	821.808	822.825	823.842	824.859	825.876	826.893	827.910	828.927	829.944	830.961	831.978	832.995	833.012	834.029	835.046	836.063	837.080	838.097	839.114	840.131	841.148	842.165	843.182	844.199	845.216	846.233	847.250	848.267	849.284	850.301	851.318	852.335	853.352	854.369	855.386	856.403	857.420	858.437	859.454	860.471	861.488	862.505	863.522	864.539	865.556	866.573	867.590	868.607	869.624	870.641	871.658	872.675	873.692	874.709	875.726	876.743	877.760	878.777	879.794	880.811	881.828	882.845	883.862	884.879	885.896	886.913	887.930	888.947	889.964	890.981	891.998	892.015	893.032	894.049	895.066	896.083	897.100	898.117	899.134	900.151	901.168	902.185	903.202	904.219	905.236	906.253	907.270	908.287	909.304	910.321	911.338	912.355	913.372	914.389	915.406	916.423	917.440	918.457	919.474	920.491	921.508	922.525	923.542	924.559	925.576	926.593	927.610	928.627	929.644	930.661	931.678	932.695	933.712	934.729	935.746	936.763	937.780	938.797	939.814	940.831	941.848	942.865	943.882	944.899	945.916	946.933	947.950	948.967	949.984	950.001	951.018</
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000281



GROUND FLOOR AREA CALCULATION			
GROUND FLOOR AREA (a)			360.05 SQ.M.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQ.MT)
1.	DUCT	1.78 X 1.89	3.36
2.	DUCT	1.66 X 0.68	1.15
3.	DUCT	2.89 X 0.69	1.99
4.	ENTRANCE LOBBY	6.86 X 3.45	23.67
TOTAL (b)			30.17
TOTAL GROUND FLOOR B.U. AREA (a-b)			329.88



DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.20 X 2.10
D2a	GLASS DOOR (single shutter)	1.20 X 2.10
D3	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.05 X 2.10
D4	WOODEN FLUSH DOOR WITH VISION PANEL (single shutter)	0.90 X 2.10
D4a	GLASS DOOR (single shutter)	0.90 X 2.10
D4b	WOODEN FLUSH DOOR WITH LOUVERS	0.90 X 2.10
D5	FLUSH DOOR	0.75 X 2.10
D6	WOODEN FLUSH DOOR	0.90 X 2.10

NOTES :

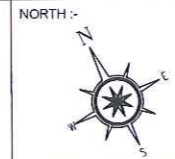
- All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions.
- This drawing must be read in conjunction with all relevant drawings from other discipline.
- All dimensions are in millimeter unless otherwise specified. No dimensions to be scaled from this drawing.
- Ground level, where shown, are indicative. Actual levels shall be taken from survey drawings and shall be confirmed at site.
- Information on actual size of cutout and openings shall be as per MEP design.
- Lift sizes are indicative only and final sizes shall be as per manufacturer's requirement as finalized by employer and their pit drainage to be as per MEP drawings.
- The minimum size of the lift car and all other requirements relating to accessibility, in all public buildings shall be in accordance with 13 of Part 3 "Development Control Rules and General Building Requirements" of the Code.
- The dimensions on toll booths / Toll Plazas are indicative only. The contractor is required to design the toll booths / Toll Plazas as per relevant IRC codes (IRC: SP:87-2019, IRC: SP:99-2013).
- Any discrepancies found between this drawing and other documents should be referred immediately to the architect.
- This drawing should be superseded immediately when a revised version will issued.
- Employer has the copyrights of this drawing.



	NAME	SIGN
DRAWN BY	PG	
CHECKED BY	SB	
APPROVED BY	TKS	



PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING

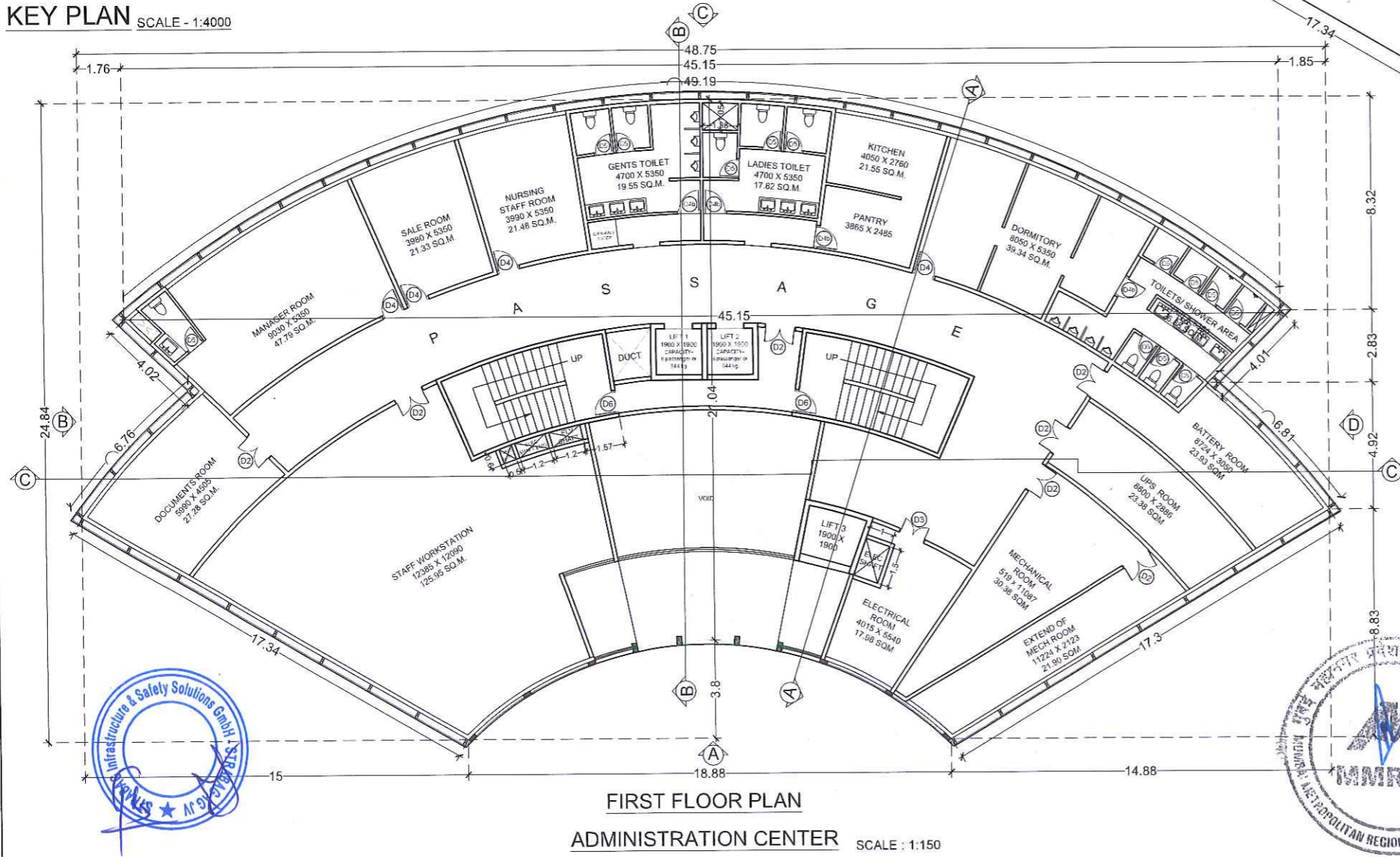
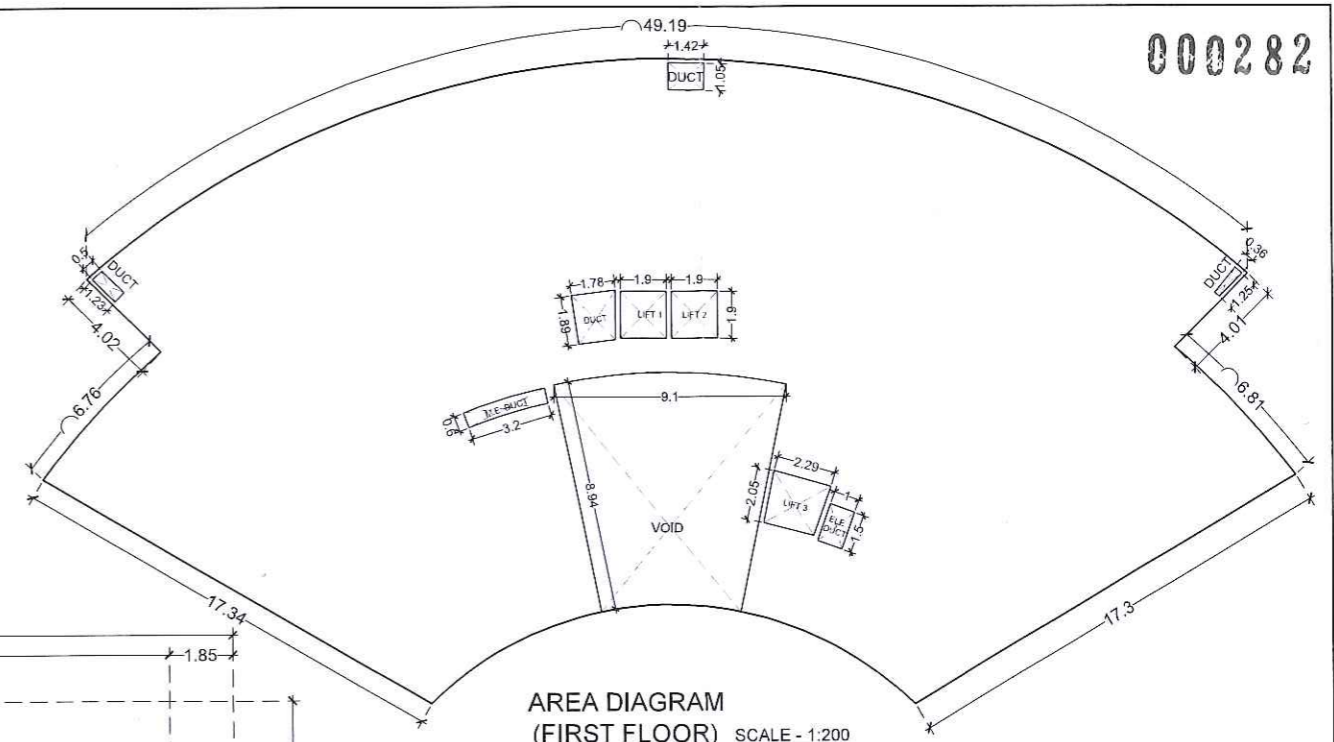


TITLE :-			
MAIN TOLL PLAZA ADMINISTRATION AND COMMAND CONTROL CENTER GROUND FLOOR PLAN			
DATE:	DRAWING NO.	PAPER SIZE:	REV.
05.10.2021	GV-AR-06	A2	A1

000282

FIRST FLOOR AREA CALCULATION			
FIRST FLOOR AREA (a)		842.98 SQ.M.	
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	DUCT	1.23 X 0.50	0.62
2.	DUCT	1.42 X 1.05	1.49
3.	DUCT	1.25 X 0.36	0.45
4.	DUCT	1.78 X 1.89	3.36
5.	LIFT 1	1.90 X 1.90	3.61
6.	LIFT 2	1.90 X 1.90	3.61
7.	LIFT 3	2.29 X 2.05	4.69
8.	VOID	9.10 X 8.94	81.35
9.	M.E. DUCT	3.20 X 0.60	1.92
10.	ELE. DUCT	1.00 X 1.50	1.50
TOTAL (b)			102.60
TOTAL FIRST FLOOR B.U. AREA (a-b)			740.38

KEY PLAN SCALE - 1:4000



DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.20 X 2.10
D2a	GLASS DOOR (single shutter)	1.20 X 2.10
D3	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.05 X 2.10
D4	WOODEN FLUSH DOOR WITH VISION PANEL (single shutter)	0.90 X 2.10
D4a	GLASS DOOR (single shutter)	0.90 X 2.10
D4b	WOODEN FLUSH DOOR WITH LOUVERS	0.90 X 2.10
D5	FLUSH DOOR	0.75 X 2.10
D6	WOODEN FLUSH DOOR	0.60 X 2.10

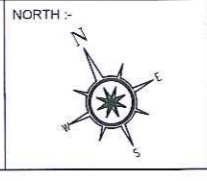
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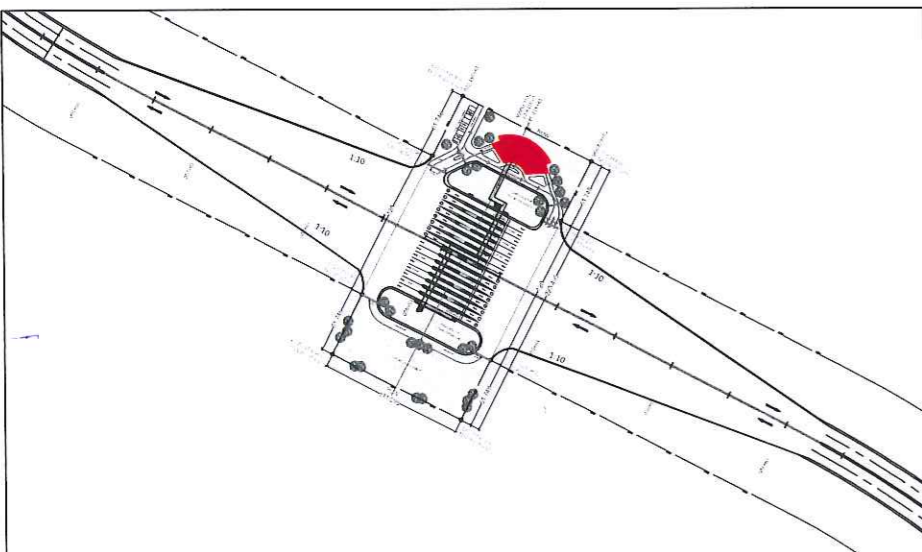
PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



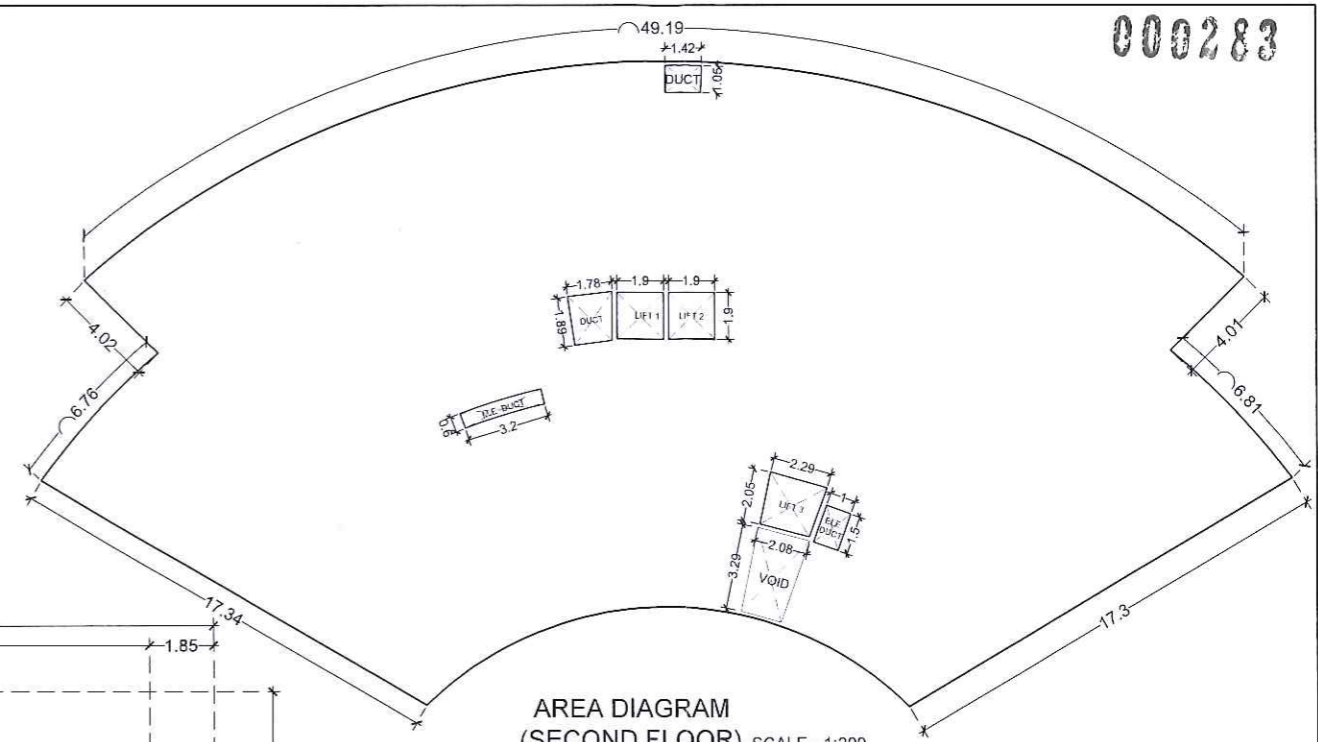
TITLE :-			
MAIN TOLL PLAZA ADMINISTRATION AND COMMAND CONTROL CENTER FIRST FLOOR PLAN			
DATE	DRAWING NO.	PAPER SIZE	REV.
05.10.2021	GV-AR-07	A2	A1

000283

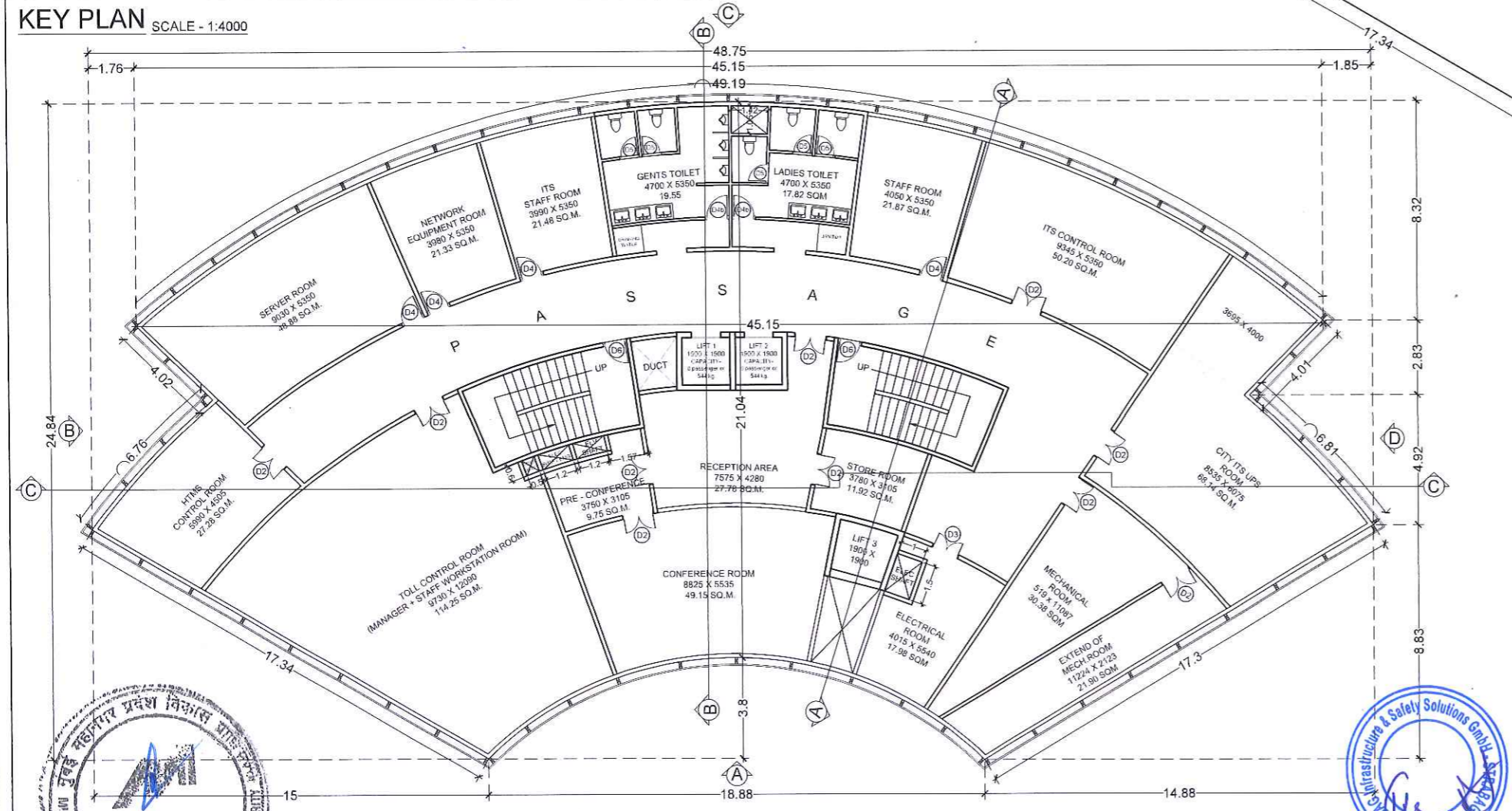
SECOND FLOOR AREA CALCULATION			
SECOND FLOOR AREA (a)			842.98 SQ.M.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	DUCT	1.42 X 1.05	1.49
2.	DUCT	1.78 X 1.89	3.36
3.	LIFT 1	1.90 X 1.90	3.61
4.	LIFT 2	1.90 X 1.90	3.61
5.	LIFT 3	2.29 X 2.05	4.69
6.	VOID	3.29 X 2.08	6.84
7.	M.E. DUCT	3.20 X 0.60	1.92
8.	ELE. DUCT	1.00 X 1.50	1.50
TOTAL (b)			27.02
TOTAL SECOND FLOOR B.U. AREA (a-b)			815.96



KEY PLAN SCALE - 1:4000



AREA DIAGRAM (SECOND FLOOR) SCALE - 1:200



SECOND FLOOR PLAN
COMMAND CONTROL CENTER SCALE : 1:150

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.20 X 2.10
D2a	GLASS DOOR (single shutter)	1.20 X 2.10
D3	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.05 X 2.10
D4	WOODEN FLUSH DOOR WITH VISION PANEL (single shutter)	0.90 X 2.10
D4a	GLASS DOOR (single shutter)	0.90 X 2.10
D4b	WOODEN FLUSH DOOR WITH LOUVERS	0.90 X 2.10
D5	FLUSH DOOR	0.75 X 2.10
D6	WOODEN FLUSH DOOR	0.90 X 2.10

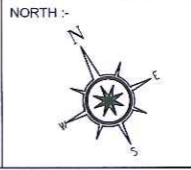
- NOTES :
- All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions. This drawing must be read in conjunction with all relevant drawings from other discipline.
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 - Employer has the copyrights of this drawing.



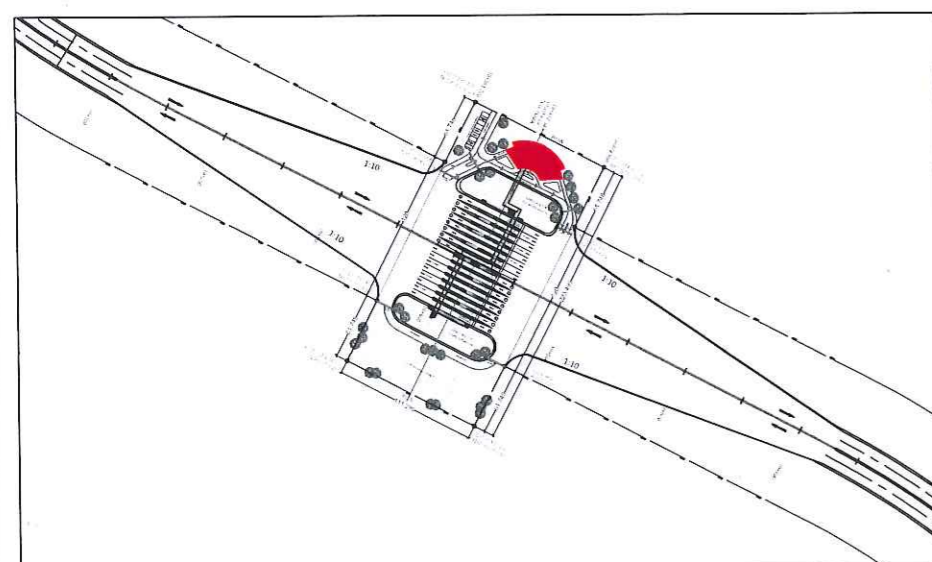
DRAWN BY	PG	SIGN	
CHECKED BY	SB		
APPROVED BY	TKS		



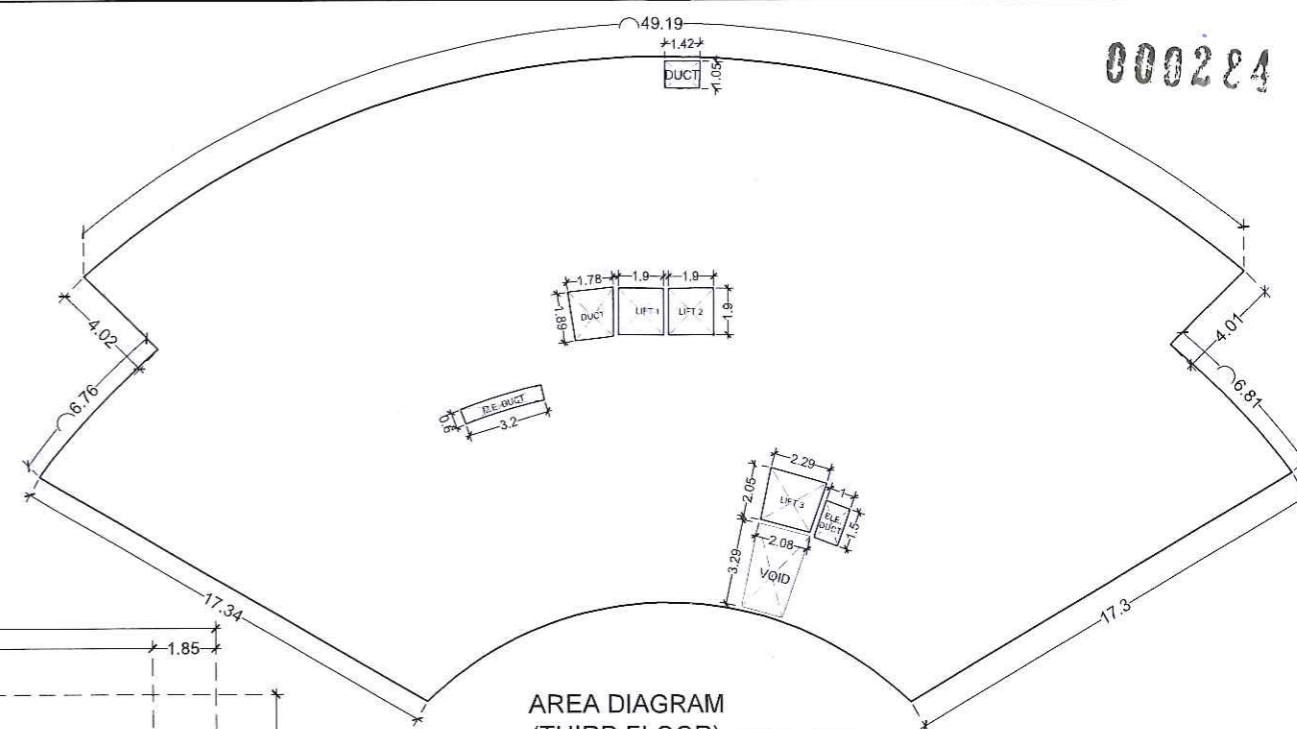
PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



TITLE :- MAIN TOLL PLAZA ADMINISTRATION AND COMMAND CONTROL CENTER SECOND FLOOR PLAN			
DATE.	DRAWING NO.	PAPER SIZE.	REV.
05.10.2021	GV-AR-08	A2	A1

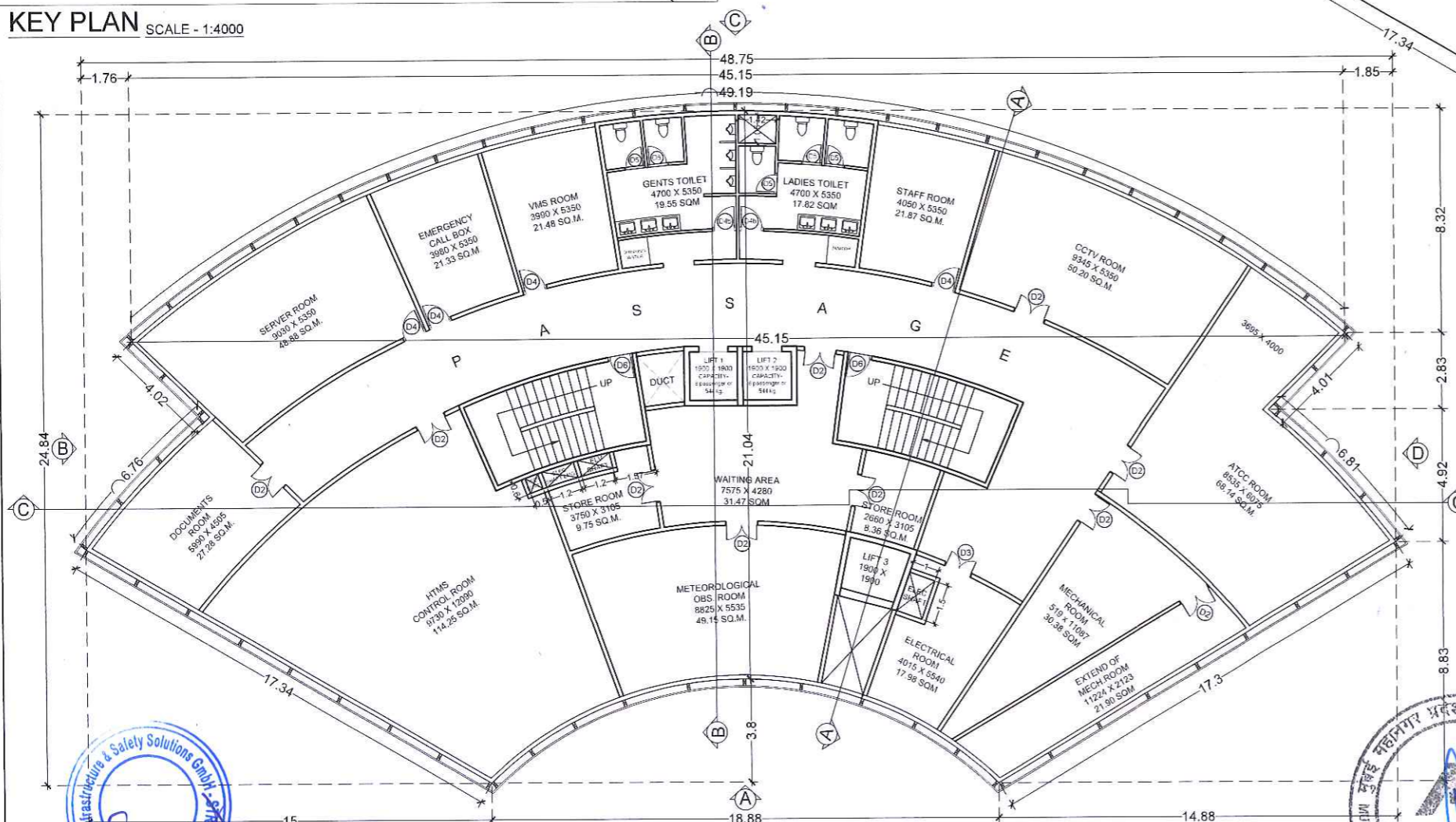


THIRD FLOOR AREA CALCULATION			
THIRD FLOOR AREA (a)			842.58 SQ.M.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQ.MT)
1.	DUCT	1.42 X 1.05	1.49
2.	DUCT	1.78 X 1.89	3.36
3.	LIFT 1	1.90 X 1.90	3.61
4.	LIFT 2	1.90 X 1.90	3.61
5.	LIFT 3	2.29 X 2.05	4.69
6.	VOID	3.29 X 2.08	6.84
7.	M.E. DUCT	3.20 X 0.60	1.92
8.	ELE. DUCT	1.00 X 1.50	1.50
TOTAL (b)			27.02
TOTAL THIRD FLOOR B.U. AREA (a-b)			815.96



KEY PLAN SCALE - 1:4000

AREA DIAGRAM (THIRD FLOOR) SCALE - 1:200



DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.20 X 2.10
D2a	GLASS DOOR (single shutter)	1.20 X 2.10
D3	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.05 X 2.10
D4	WOODEN FLUSH DOOR WITH VISION PANEL (single shutter)	0.90 X 2.10
D4a	GLASS DOOR (single shutter)	0.90 X 2.10
D4b	WOODEN FLUSH DOOR WITH LOUVERS	0.90 X 2.10
D5	FLUSH DOOR	0.75 X 2.10
D6	WOODEN FLUSH DOOR	0.90 X 2.10

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THIRD FLOOR PLAN
COMMAND CONTROL CENTER SCALE : 1:150



	NAME	SIGN
DRAWN BY	PG	
CHECKED BY	SB	
APPROVED BY	TKS	



PROJECT :-

MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING

NORTH :-



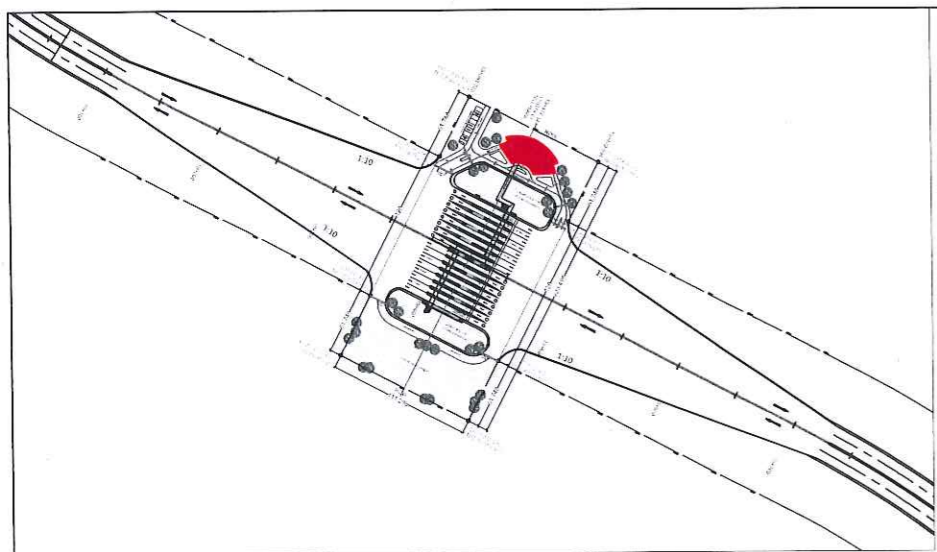
TITLE :-

MAIN TOLL PLAZA
ADMINISTRATION AND COMMAND CONTROL CENTER
THIRD FLOOR PLAN

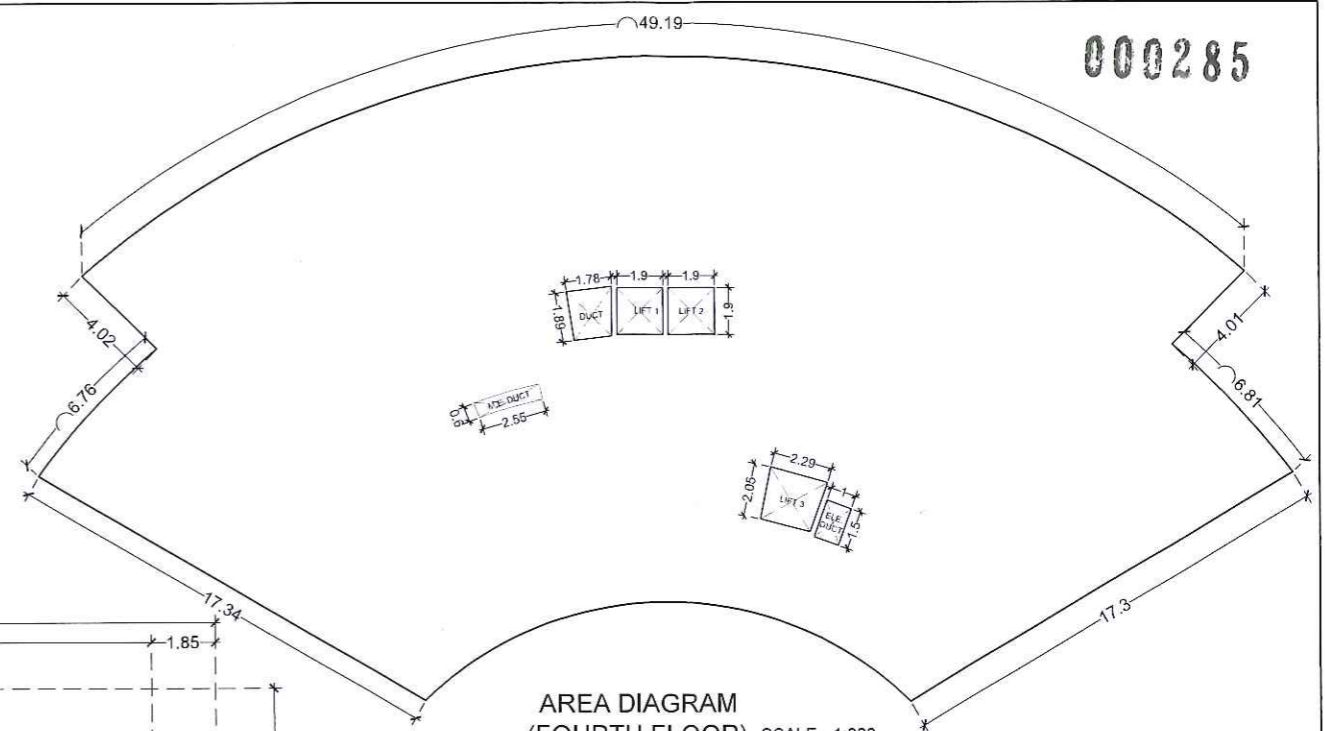
DATE:	DRAWING NO.	PAPER SIZE:	REV.
05.10.2021	GV-AR-09	A2	A1

000285

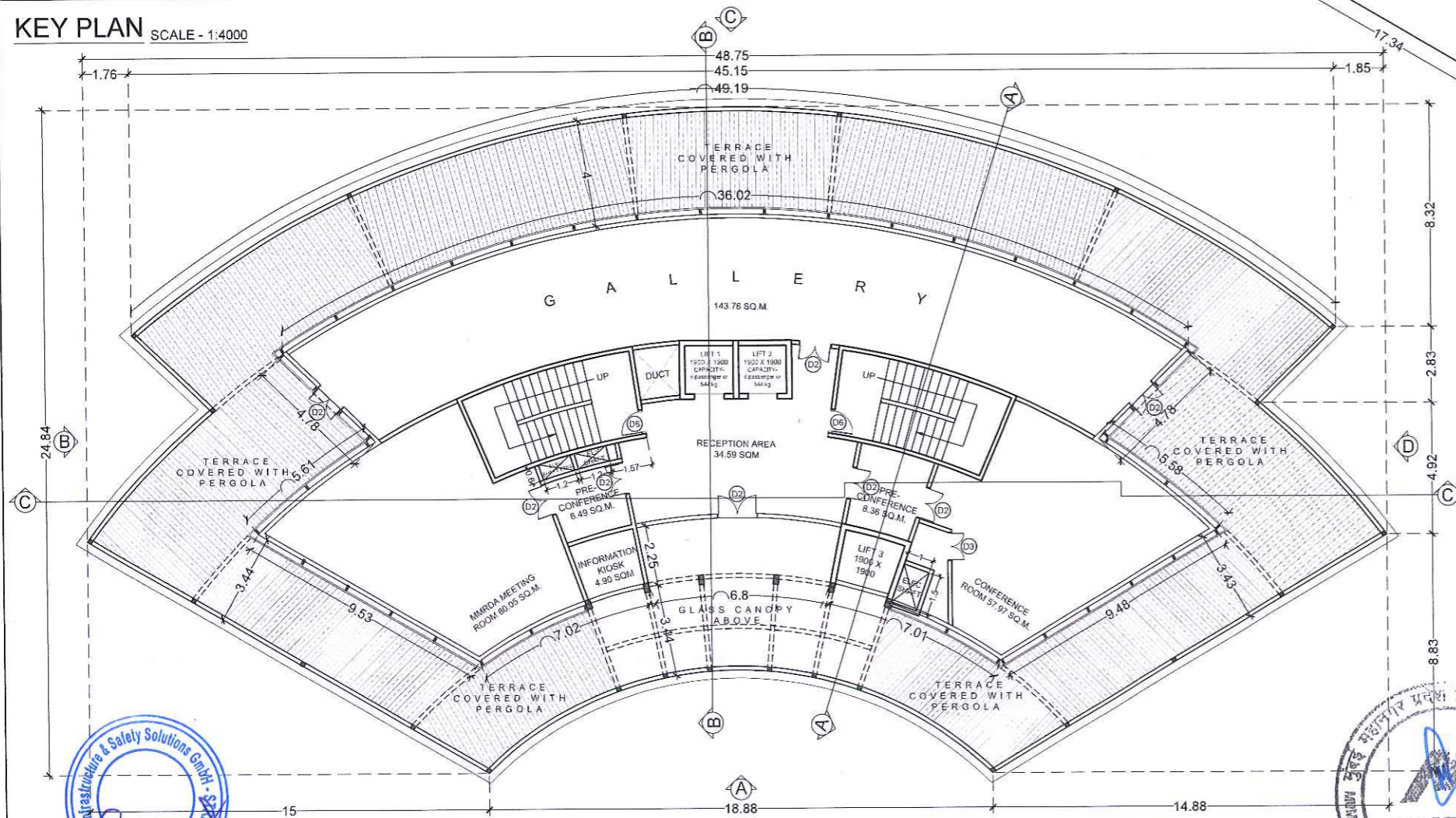
FOURTH FLOOR AREA CALCULATION			
FOURTH FLOOR AREA (a)			842.98 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQM)
1.	DUCT	1.78 X 1.89	3.36
2.	LIFT 1	1.90 X 1.90	3.61
3.	LIFT 2	1.90 X 1.90	3.61
4.	LIFT 3	2.29 X 2.05	4.69
5.	M.E. DUCT	2.55 X 0.60	1.53
6.	ELE. DUCT	1.00 X 1.50	1.50
TOTAL (b)			18.30
TOTAL FOURTH FLOOR B.U. AREA (a-b)			824.68



KEY PLAN SCALE - 1:4000



AREA DIAGRAM (FOURTH FLOOR) SCALE - 1:200



FOURTH FLOOR PLAN GALLERY AND CONFERENCE SCALE : 1:150

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.20 X 2.10
D2a	GLASS DOOR (single shutter)	1.20 X 2.10
D3	WOODEN FLUSH DOOR WITH VISION PANEL (double shutter)	1.05 X 2.10
D4	WOODEN FLUSH DOOR WITH VISION PANEL (single shutter)	0.90 X 2.10
D4a	GLASS DOOR (single shutter)	0.90 X 2.10
D4b	WOODEN FLUSH DOOR WITH LOUVERS	0.90 X 2.10
D5	FLUSH DOOR	0.75 X 2.10
D6	WOODEN FLUSH DOOR	0.90 X 2.10

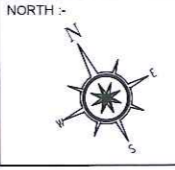
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NAME	SKIN
DRAWN BY: PG	
CHECKED BY: SB	
APPROVED BY: TKS	

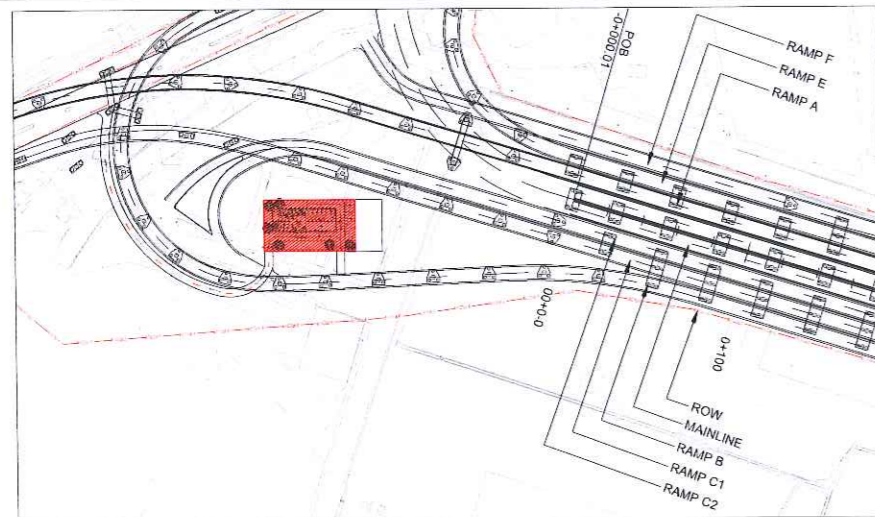


PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**

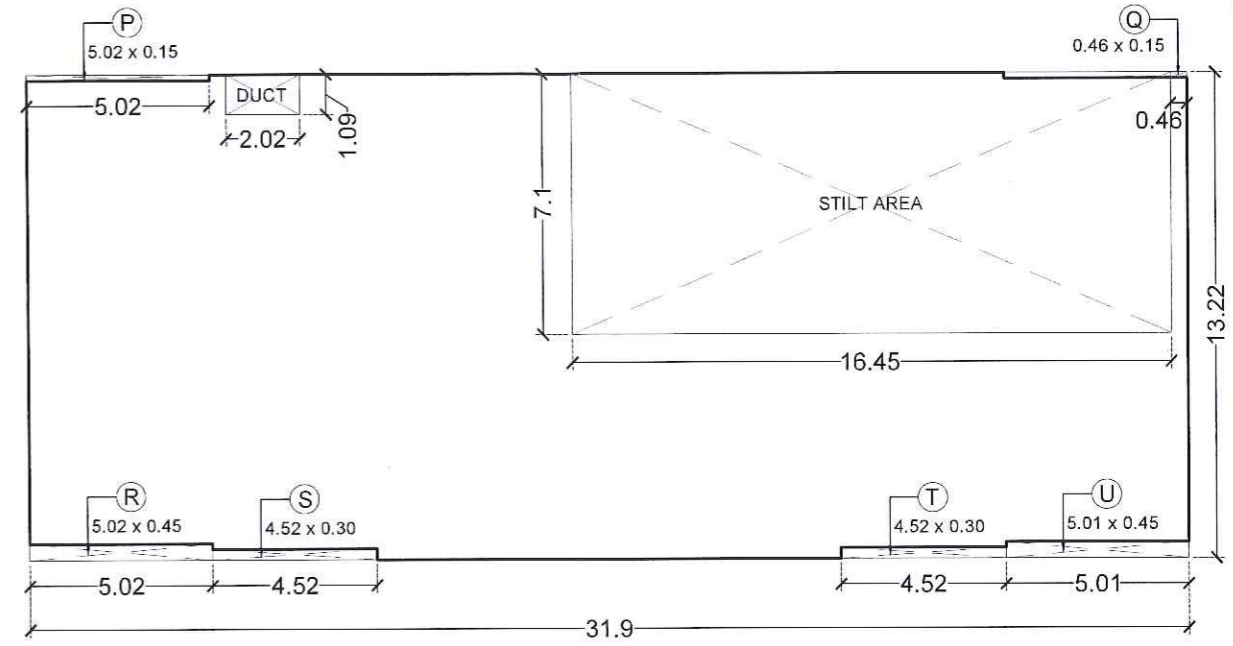


TITLE :- MAIN TOLL PLAZA ADMINISTRATION AND COMMAND CONTROL CENTER FOURTH FLOOR PLAN			
DATE: 05.10.2021	DRAWING NO. GV-AR-10	PAPER SIZE: A2	REV. A1

000286



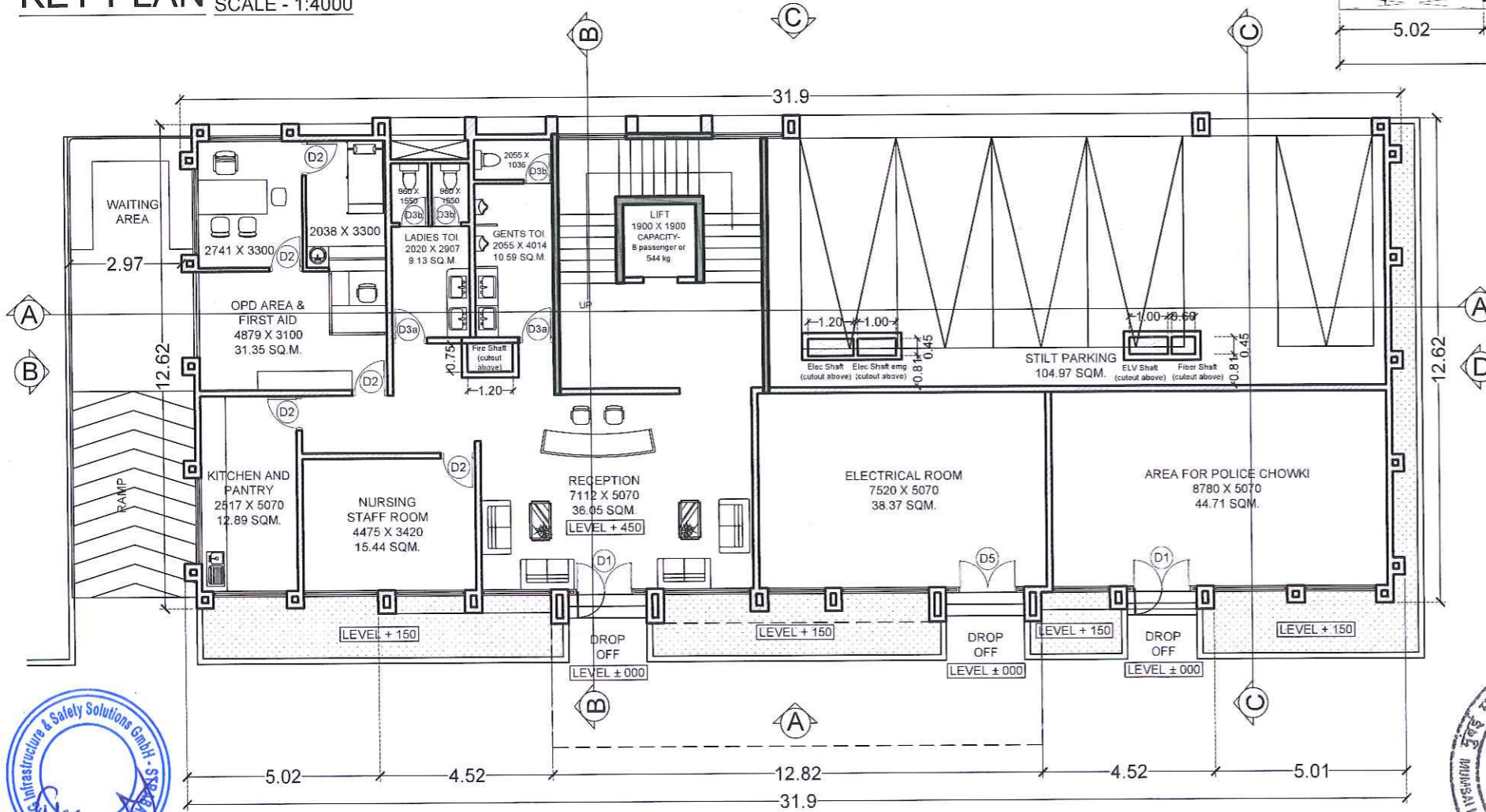
GROUND FLOOR AREA CALCULATION			
GR. FLR AREA (31.90 X 13.22) (a)			421.72 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	DUCT	2.02 X 1.09	2.20
2.	STILT AREA	16.45 X 7.10	116.80
3.	P	5.02 X 0.15	0.75
4.	Q	0.46 X 0.15	0.69
5.	R	5.02 X 0.45	2.26
6.	S	4.52 X 0.30	1.36
7.	T	4.52 X 0.30	1.36
8.	U	5.01 X 0.45	2.25
TOTAL (b)			127.67
TOTAL GROUND FLOOR AREA (a-b)			294.05



KEY PLAN SCALE - 1:4000

AREA DIAGRAM (GROUND FLOOR) SCALE - 1:200

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10



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 - Requirement, size and location of Fire Shaft shall be verified as per fire norms and statutory requirement.
 - Employer has the copyrights of this drawing.

GROUND FLOOR PLAN SCALE - 1:150

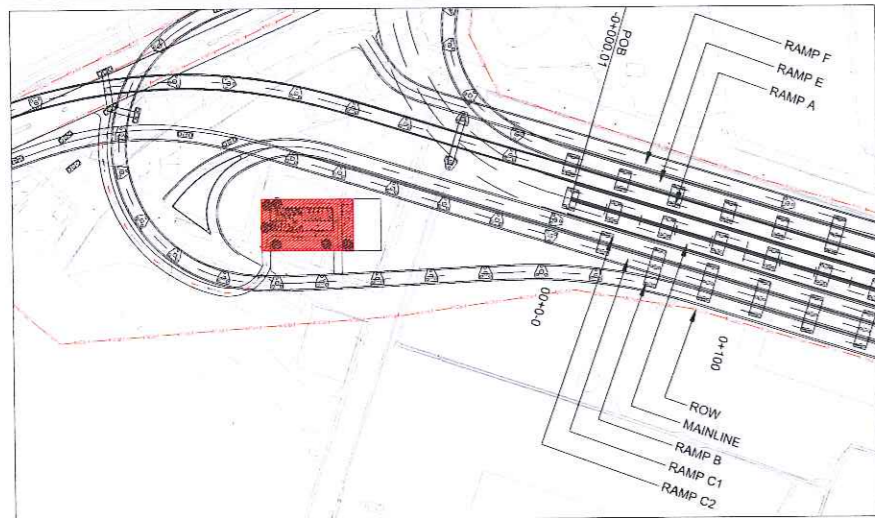


NAME	SIGN	<p>MMRDA MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY</p>
DRAWN BY	PG	
CHECKED BY	SB	
APPROVED BY	TKS	

PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**

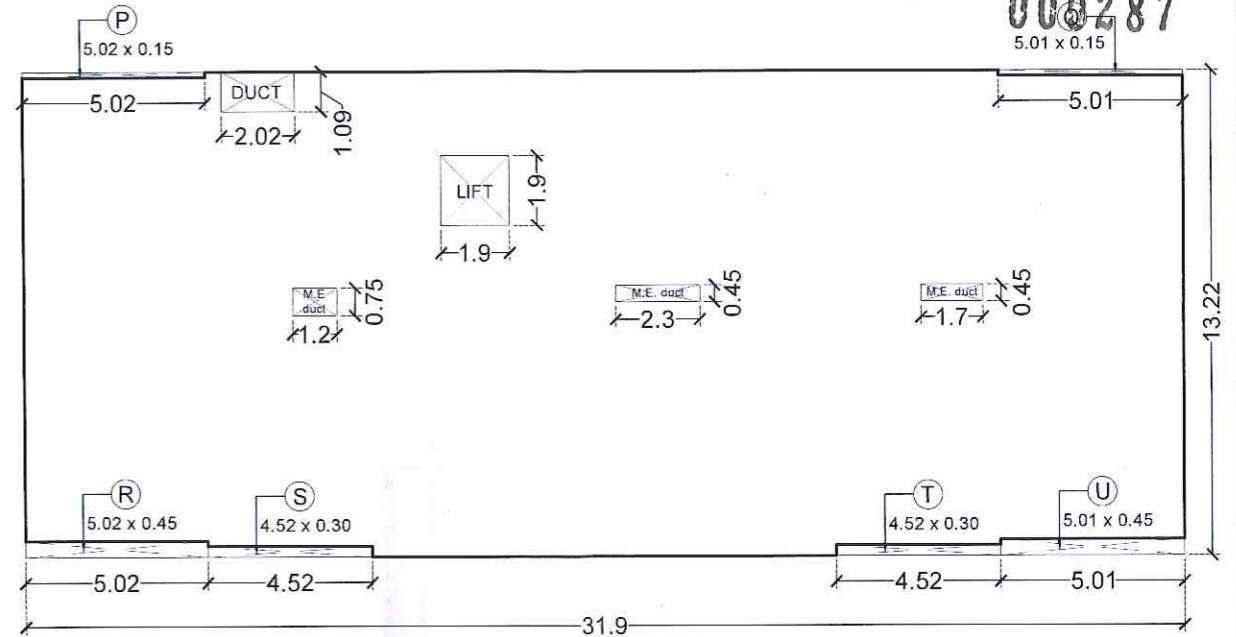
NORTH :-	TITLE :-	SEWRI INTERCHANGE SUB ADMINISTRATION AND COMMAND CONTROL CENTER GROUND FLOOR PLAN		
	DATE	DRAWING NO.	PAPER SIZE	REV.
	05.10.2021	SW-AR-03	A3	A1

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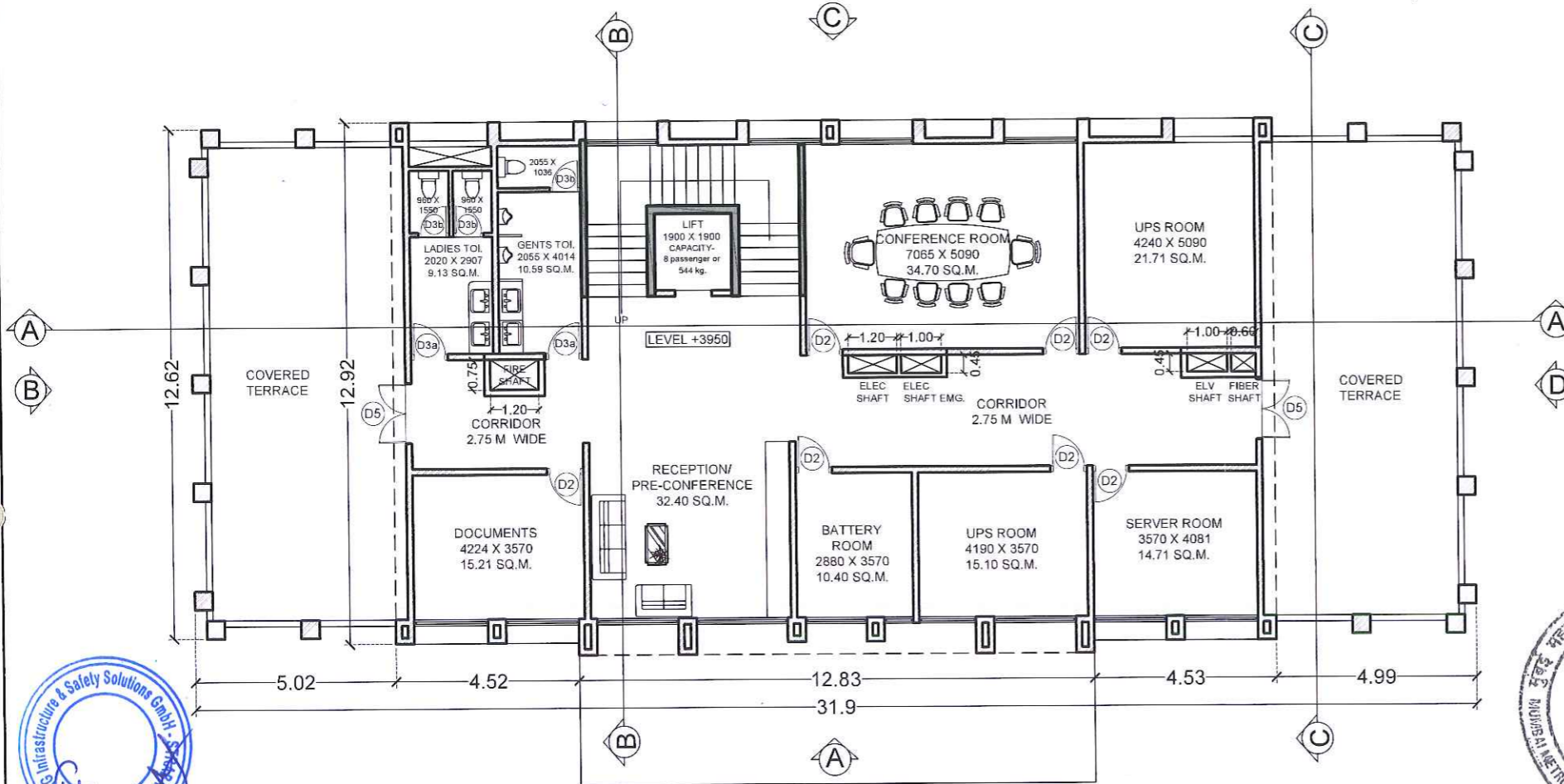


KEY PLAN SCALE - 1:4000

FIRST FLOOR AREA CALCULATION			
1ST FLR AREA (31.90 X 13.22) (a)		421.72 SQ.M.	
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	DUCT	2.02 X 1.09	2.20
2.	LIFT	1.90 X 1.90	3.61
3.	M.E. DUCT	1.20 X 0.75	0.90
4.	M.E. DUCT	2.30 X 0.45	1.04
5.	M.E. DUCT	1.70 X 0.45	0.77
6.	P	5.02 X 0.15	0.75
7.	Q	0.46 X 0.15	0.69
8.	R	5.02 X 0.45	2.26
9.	S	4.52 X 0.30	1.36
10.	T	4.52 X 0.30	1.36
11.	U	5.01 X 0.45	2.25
TOTAL (b)			17.19
TOTAL FIRST FLOOR AREA (a-b)		404.53	



AREA DIAGRAM (FIRST FLOOR) SCALE - 1:200



FIRST FLOOR PLAN SCALE - 1:150

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10

NOTES:

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- Employer has the copyrights of this drawing.



NAME	SIGN
DRAWN BY: PG	
CHECKED BY: SB	
APPROVED BY: TKS	



PROJECT :-

**MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING**

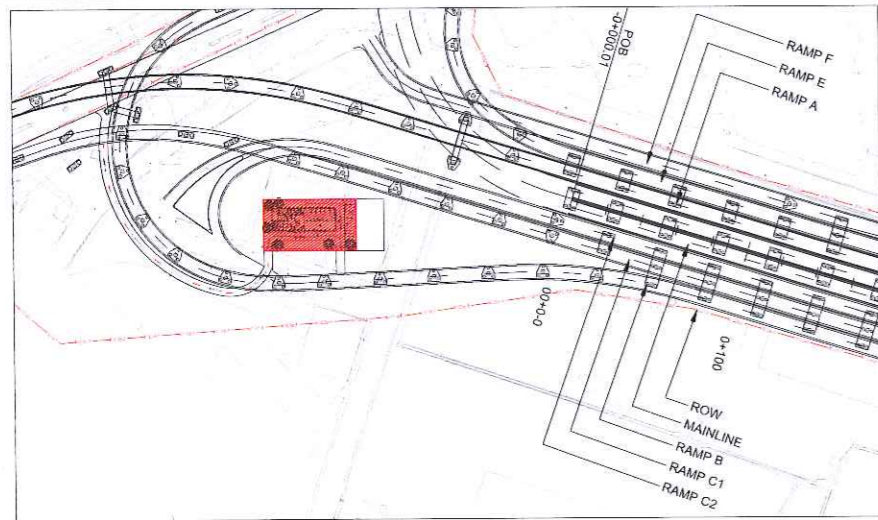
NORTH :-



TITLE :-

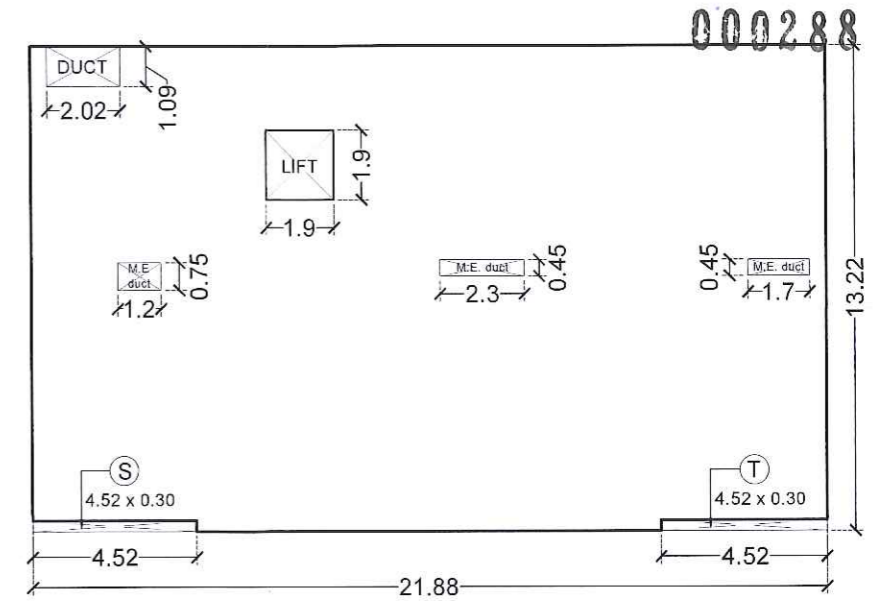
**SEWRI INTERCHANGE
SUB ADMINISTRATION AND COMMAND CONTROL CENTER
FIRST FLOOR PLAN**

DATE	DRAWING NO.	PAPER SIZE	REV.
05.10.2021	SW-AR-04	A3	A1

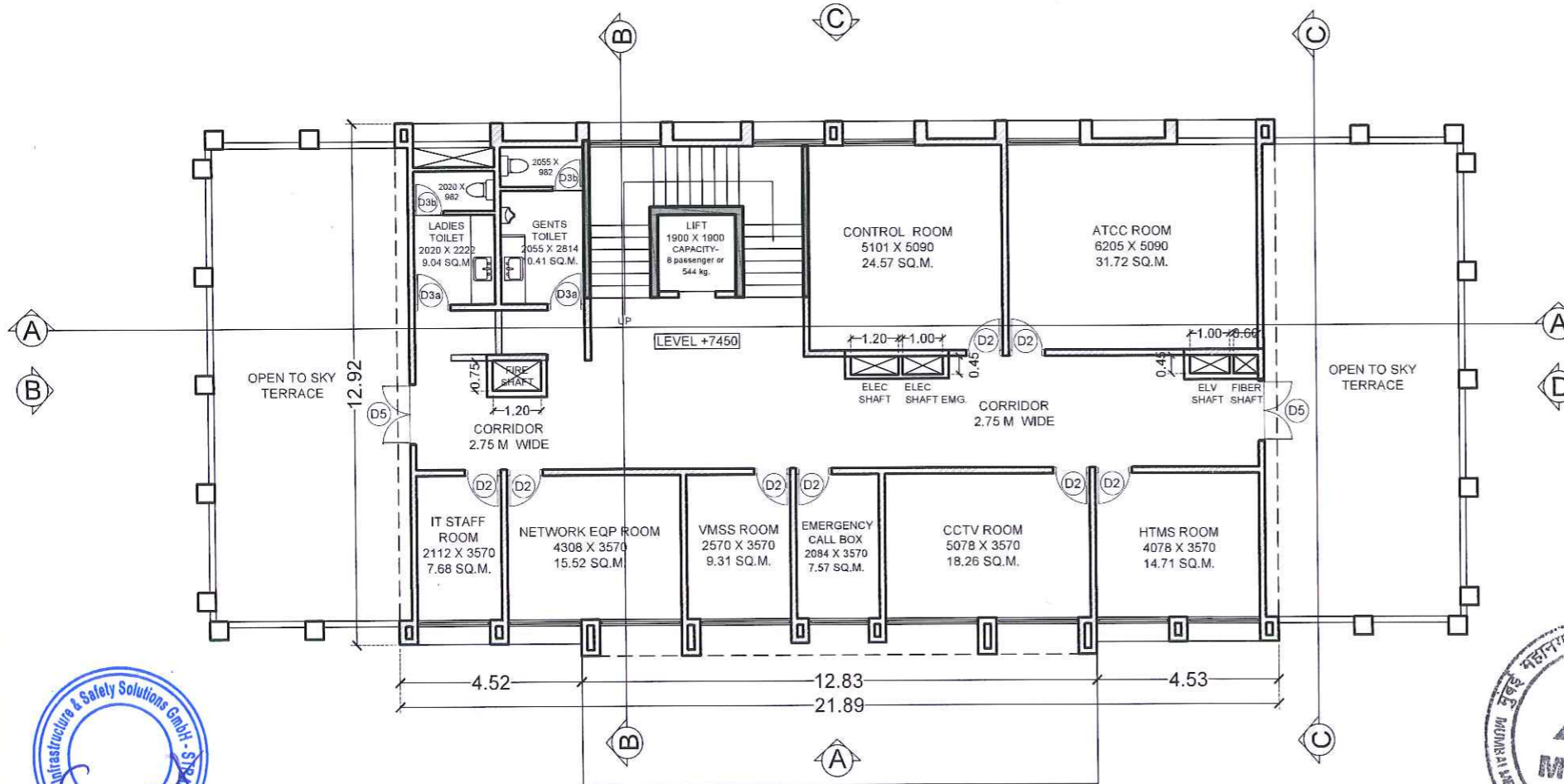


KEY PLAN SCALE - 1:4000

SECOND FLOOR AREA CALCULATION			
2ND FLR AREA (21.88 X 13.22) (a)			289.25 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	LIFT	1.90 X 1.90	3.61
2.	DUCT	2.02 X 1.09	2.20
3.	M.E. DUCT	1.20 X 0.75	0.90
4.	M.E. DUCT	2.30 X 0.45	1.04
5.	M.E. DUCT	1.70 X 0.45	0.77
6.	S	4.52 X 0.30	1.36
7.	T	4.52 X 0.30	1.36
TOTAL (b)			11.24
TOTAL 2ND FLOOR AREA (a-b)			278.01



AREA DIAGRAM (SECOND FLOOR) SCALE - 1:200



SECOND FLOOR PLAN SCALE - 1:150

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10

NOTES:

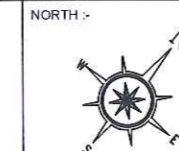
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NAME	SIGN
DRAWN BY: PG	
CHECKED BY: SB	
APPROVED BY: TKS	

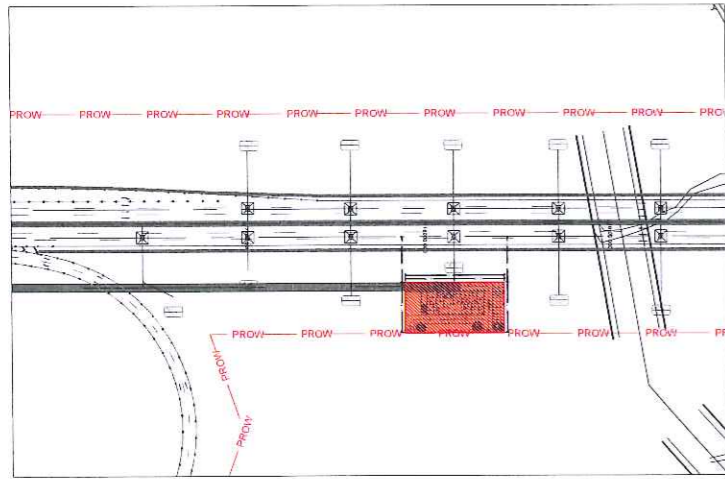


PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



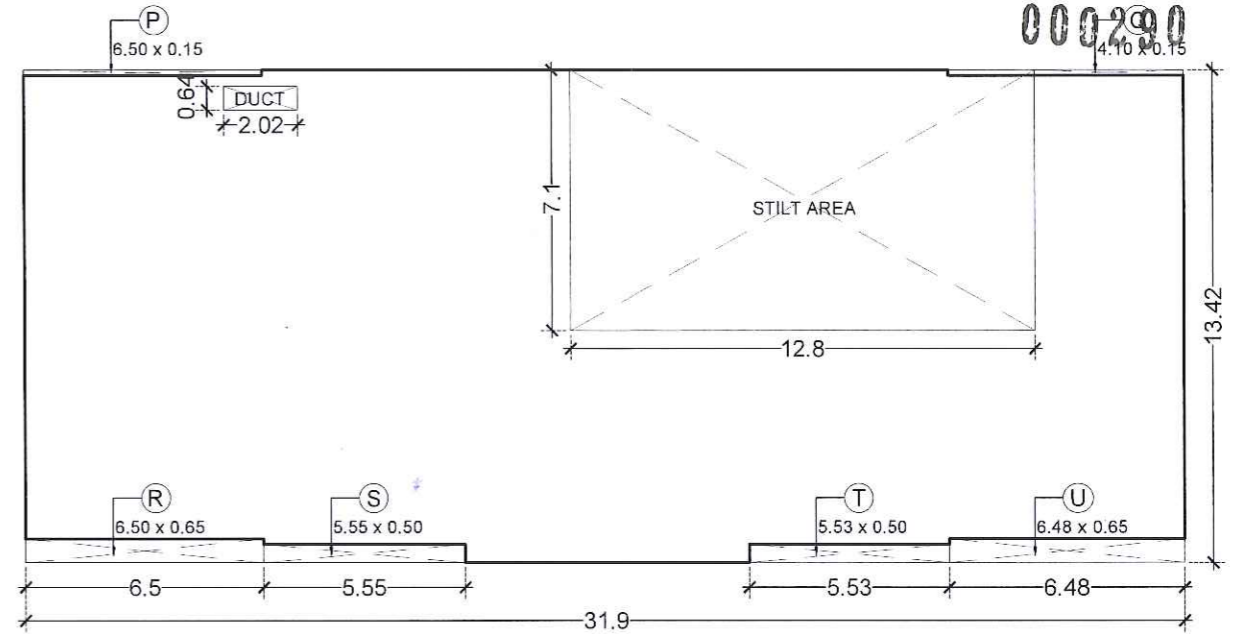
TITLE :-			
SEWRI INTERCHANGE SUB ADMINISTRATION AND COMMAND CONTROL CENTER SECOND FLOOR PLAN			
DATE: 05.10.2021	DRAWING NO. SW-AR-05	PAPER SIZE. A3	REV. A1

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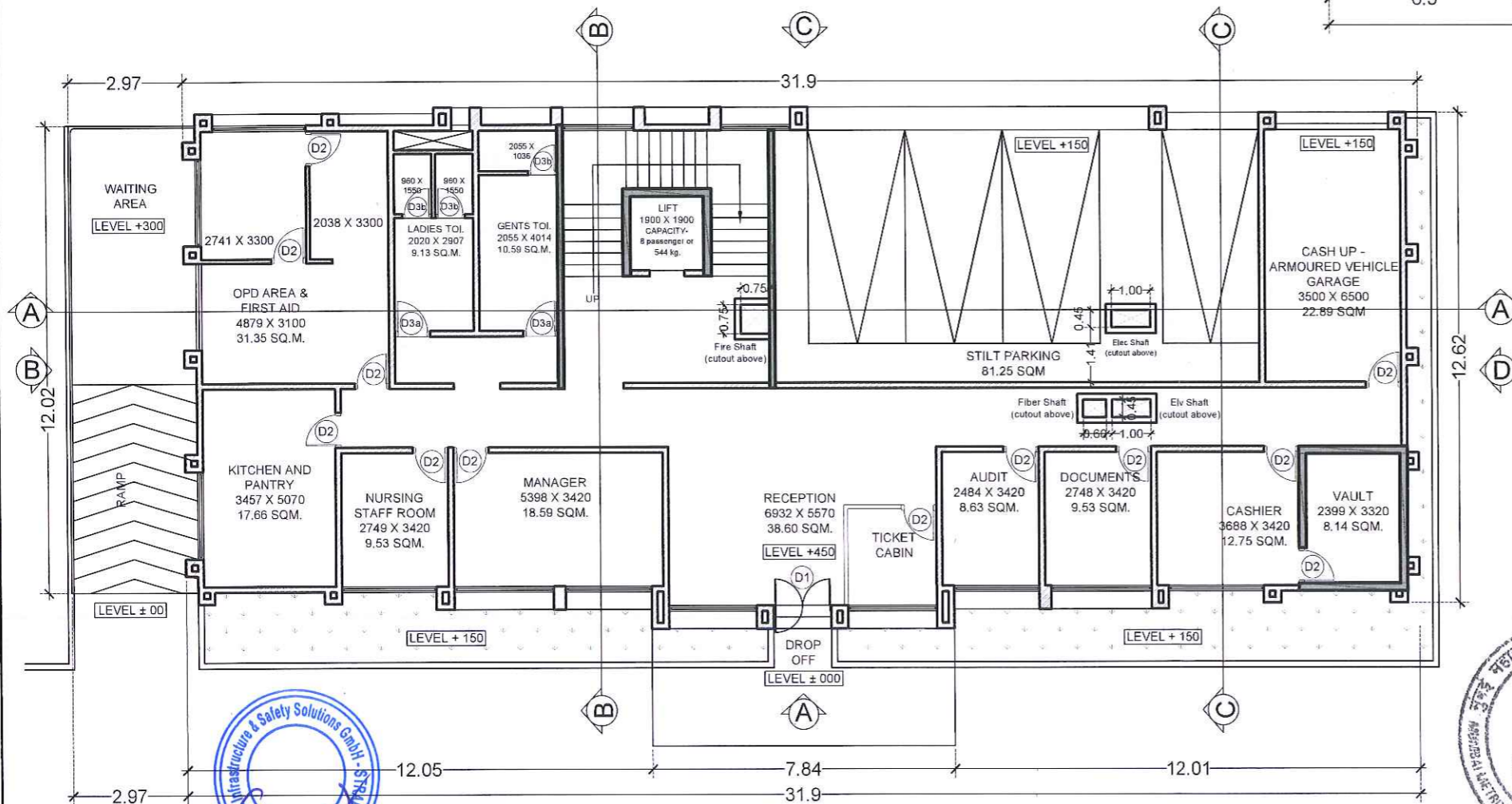


KEY PLAN SCALE - 1:4000

GROUND FLOOR AREA CALCULATION			
TOTAL GR. FLR AREA (31.90 X 13.42) (a)			428.10 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	DUCT	2.02 X 0.64	1.29
2.	STILT AREA	12.80 X 0.49	90.88
3.	P	6.50 X 0.15	0.98
4.	Q	4.10 X 0.15	0.62
5.	R	6.50 X 0.65	4.23
6.	S	5.55 X 0.50	2.78
7.	T	5.53 X 0.50	2.77
8.	U	6.48 X 0.65	4.21
TOTAL (b)			107.76
TOTAL GROUND FLOOR AREA (a-b)			320.34



AREA DIAGRAM (GROUND FLOOR) SCALE - 1:200



GROUND FLOOR PLAN SCALE - 1:150

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10

NOTES :

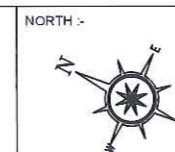
- All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions.
- This drawing must be read in conjunction with all relevant drawings from other discipline.
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- This drawing should be superseded immediately when a revised version will issued.
- Requirement, size and location of Fire Shaft shall be verified as per fire norms and statutory requirement.
- Employer has the copyrights of this drawing.



NAME	SIGN
DRAWN BY: PG	
CHECKED BY: SB	
APPROVED BY: TKS	

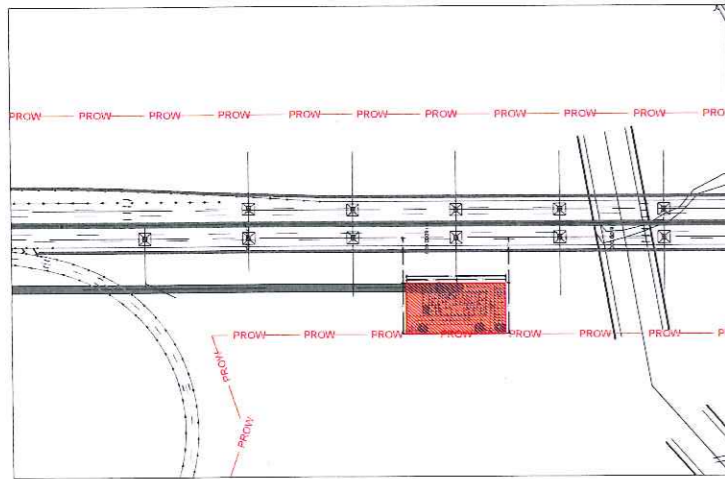


PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**



TITLE :- SHIVAJI NAGAR INTERCHANGE ADMINISTRATION AND COMMAND CONTROL CENTER GROUND FLOOR PLAN			
DATE: 05.10.2021	DRAWING NO. SN-AR-04	PAPER SIZE: A3	REV. A1

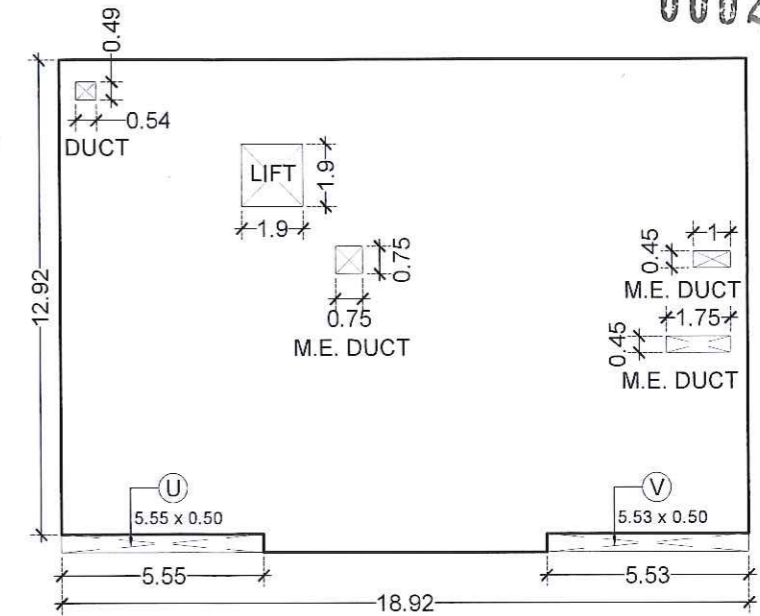
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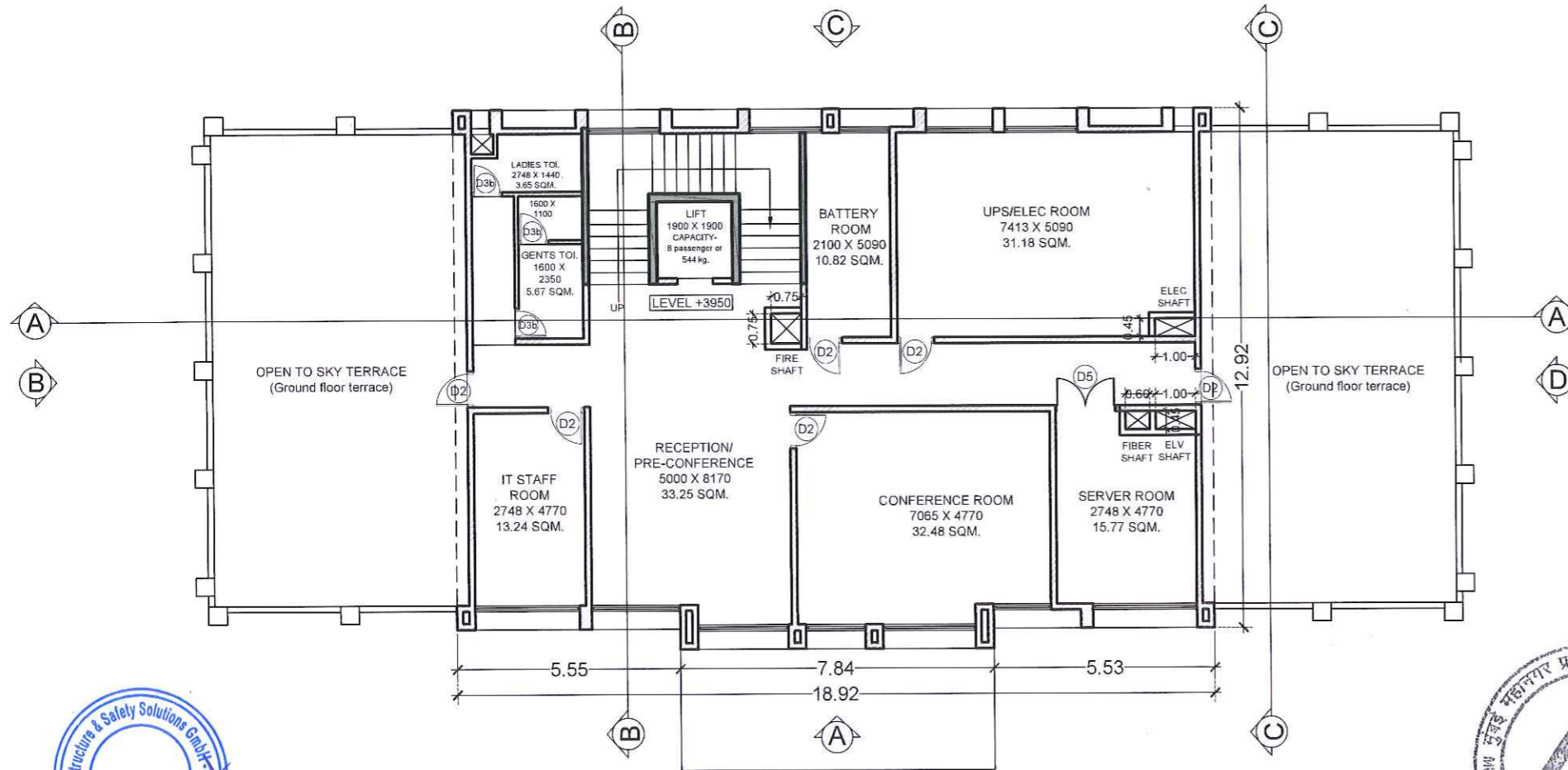
KEY PLAN SCALE - 1:4000

DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10

FIRST FLOOR AREA CALCULATION			
TOTAL 1ST FLR AREA (18.92 X 12.92) (a)			244.45 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	LIFT	1.90 X 1.90	3.61
2.	DUCT	0.54 X 0.49	0.26
3.	M.E. DUCT	0.75 X 0.75	1.50
4.	M.E. DUCT	1.00 X 0.45	0.45
5.	M.E. DUCT	1.75 X 0.45	0.79
6.	U	5.55 X 0.50	2.78
7.	V	5.53 X 0.50	2.77
TOTAL (b)			12.16
TOTAL 1ST FLOOR AREA (a-b)			232.29



AREA DIAGRAM (FIRST FLOOR) SCALE - 1:200



FIRST FLOOR PLAN SCALE - 1:150

NOTES :

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- Employer has the copyrights of this drawing.



	NAME	SIGN
DRAWN BY	PG	
CHECKED BY	SB	
APPROVED BY	TKS	

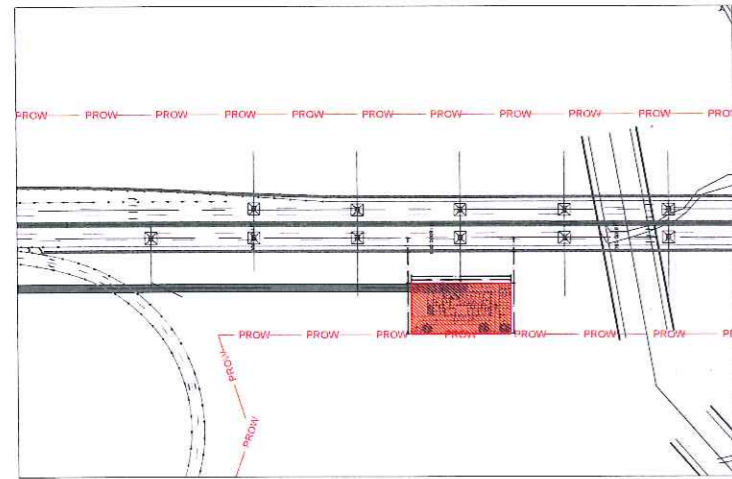


PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**



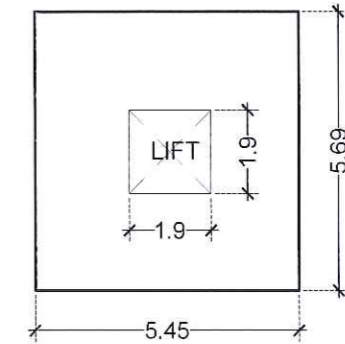
TITLE :- SHIVAJI NAGAR INTERCHANGE ADMINISTRATION AND COMMAND CONTROL CENTER FIRST FLOOR PLAN			
DATE:	DRAWING NO.:	PAPER SIZE:	REV.:
05.10.2021	SN-AR-05	A3	A1

000292



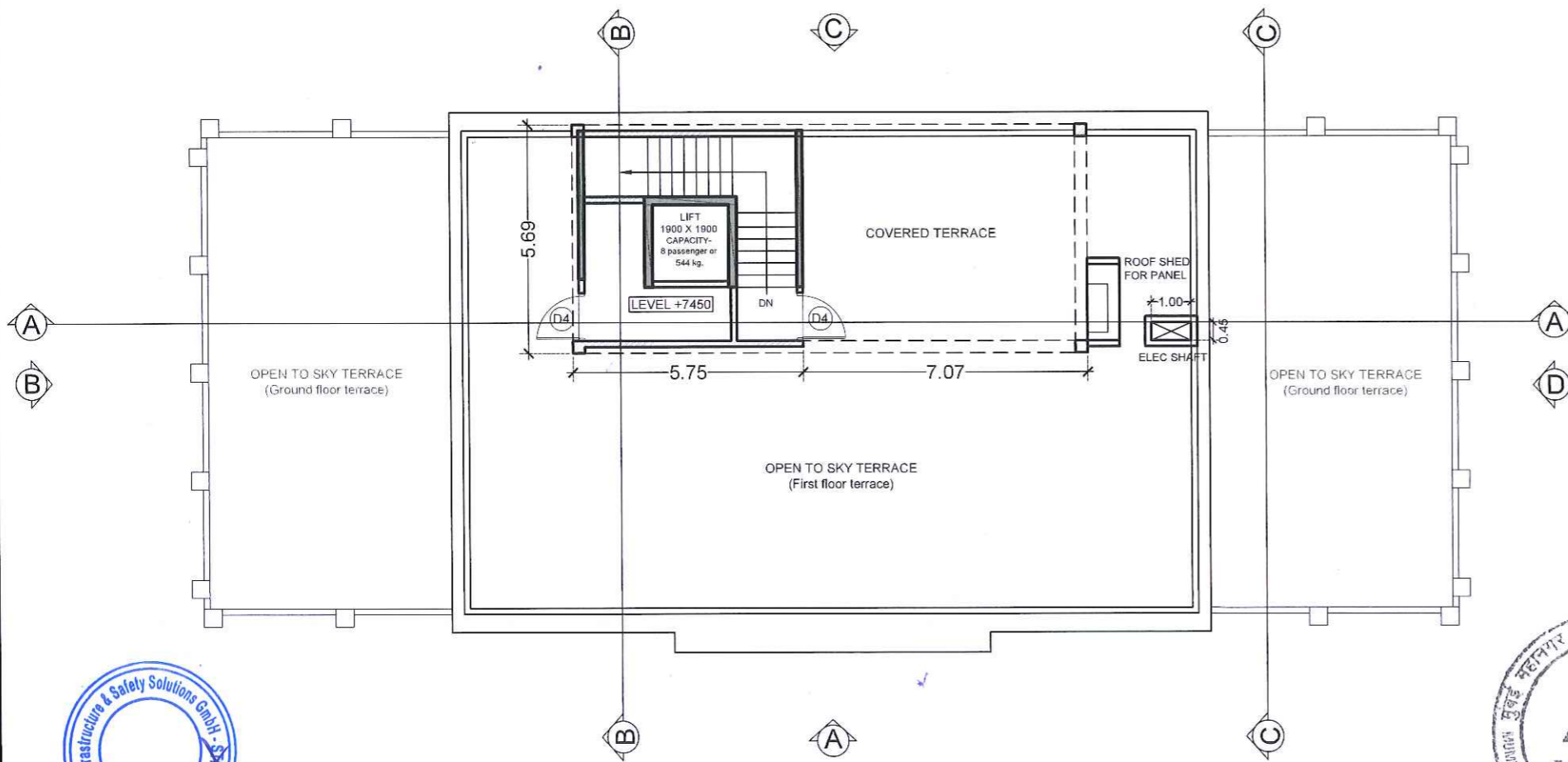
DOOR SCHEDULE		
DOOR NO.	TYPE	SIZE
D1	GLASS DOOR	1.50 X 2.40
D2	WOODEN FLUSH DOOR WITH VISION PANEL	0.90 X 2.10
D3a	WOODEN FLUSH DOOR WITH LOUVERS	0.75 X 2.10
D3b	FLUSH DOOR	0.75 X 2.10
D4	WOODEN FLUSH DOOR	1.20 X 2.10
D5	AS SPECIFIED	1.50 X 2.10

TERRACE FLOOR AREA CALCULATION			
TERRACE FLR AREA (5.45 X 5.69) (a)			31.01 SQM.
DEDUCTION			
SR.NO.	BLOCK	SIZE	AREA (SQMT)
1.	LIFT	1.90 X 1.90	3.61
TOTAL (b)			3.61
TOTAL TERRACE FLOOR AREA (a-b)			27.40



KEY PLAN SCALE - 1:4000

AREA DIAGRAM (TERRACE FLOOR) SCALE - 1:150



TERRACE FLOOR PLAN SCALE - 1:150



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- Employer has the copyrights of this drawing.

	NAME	SIGN
DRAWN BY	PG	
CHECKED BY	SB	
APPROVED BY	TKS	



PROJECT :-

**MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING**

NORTH :-



TITLE :-

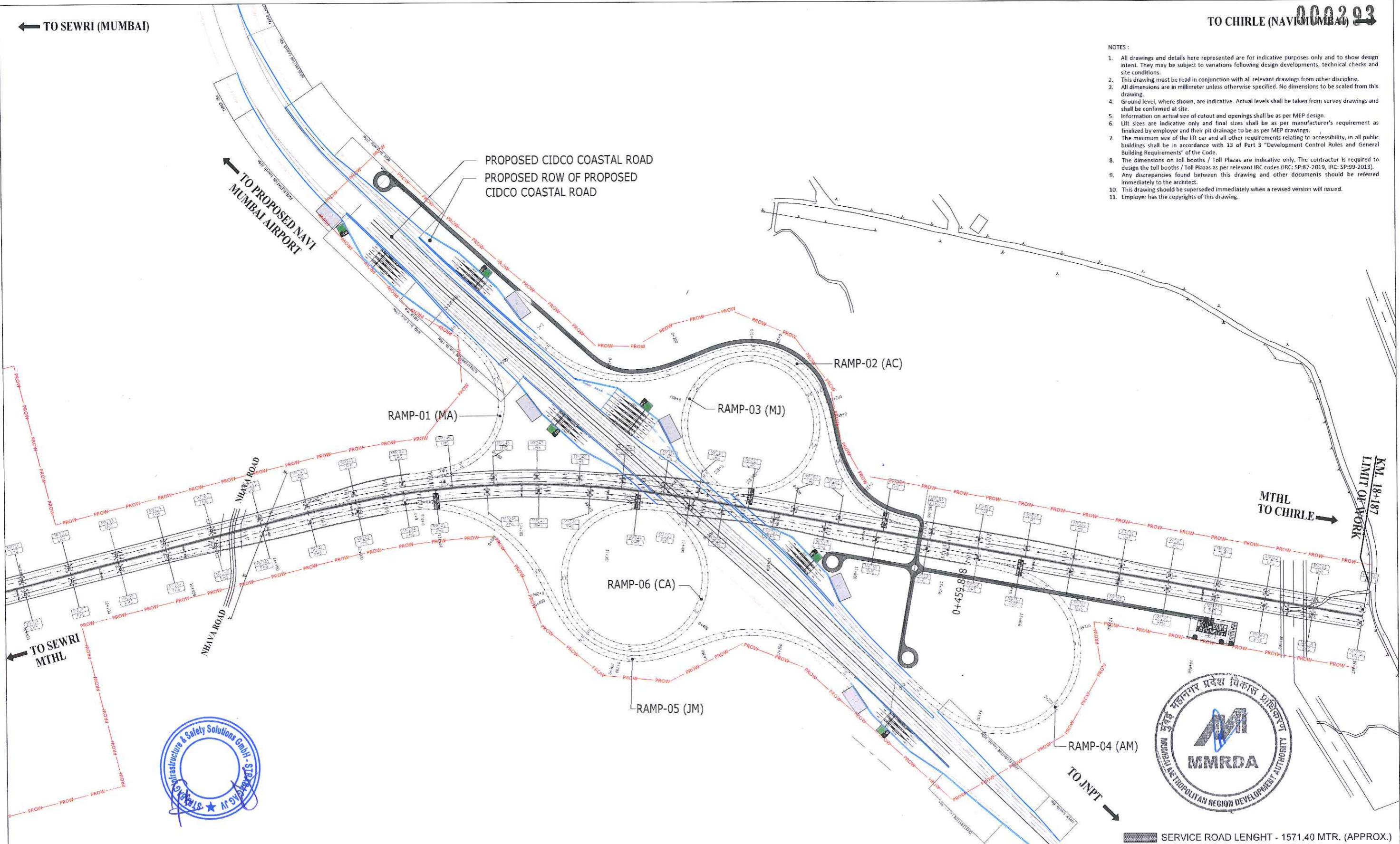
**SHIVAJI NAGAR INTERCHANGE
ADMINISTRATION AND COMMAND CONTROL CENTER
TERRACE FLOOR PLAN**

DATE	DRAWING NO.	PAPER SIZE	REV.
05.10.2021	SN-AR-06	A3	A1

TO CHIRLE (NAVI MUMBAI) 000293

← TO SEWRI (MUMBAI)

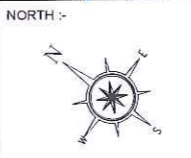
- NOTES:
1. All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions.
 2. This drawing must be read in conjunction with all relevant drawings from other discipline.
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 9. Any discrepancies found between this drawing and other documents should be referred immediately to the architect.
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 11. Employer has the copyrights of this drawing.



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APPROVED BY: TKS	



PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



TITLE :-			
SHIVAJINAGAR INTERCHANGE RAMP PLAZA LOCATION PLAN			
DATE: 05.10.2021	DRAWING NO. SN-AR-01	PAPER SIZE A1	REV. A

d:\pratik\mmrda\mthl\package - 4\final tender drawings - 20.07.21\attachments\service road length - shiraj n.dwg 5-Oct-21 pratik.gavde monochrome.cib

GENERAL TOLERANCES

DIMENSIONS	TOLERANCE
0-10	+/- 0.1
11-50	+/- 0.2
51-100	+/- 0.3
101-500	+/- 0.5
501-1000	+/- 0.8
1001-3000	+/- 1.2
Above 3000	+/- 2.0

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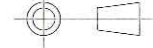
- 1) ALL DIMENSIONS ARE IN MM.
- 2) PLEASE FEEL FREE TO REVERT IN CASE OF ANY QUERY.
- 3) DIMENSIONS IN THE DRAWING ARE PROPOSED.
- 4) ALL CORNERS AND EDGES ARE REMOVED.

NOTE-

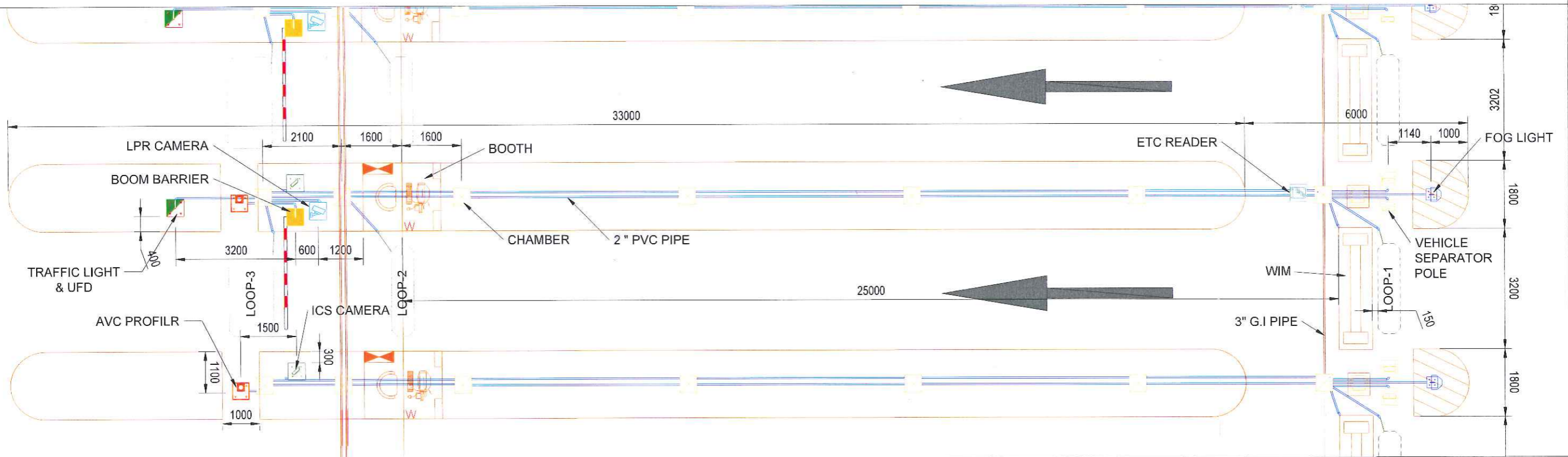
- 1) ISLAND HEIGHT REQUIRED MINIMUM 150 mm TO MAXIMUM 610 mm.
- 2) REQUIRED CONCRETE IN LANE.

PROJECTION=

000294



THIRD ANGLE



OTHER SIZES

SR.NO.	DESCRIPTION	SIZE LxW (mm)	SYMBOL
A	BOOTH	3200 x 1600	
B	LOOP - 1 & 2.	2400x900	
C	LOOP - 3	2400x1200	
D	2" PUC. PIPE	O.D =50	
E	3" G.I PIPE	O.D =76	
F	MS WIM		
G	CHAMBER	600x600x600	
H	FOG LIGHT		

FOUNDATION SIZES

SR.NO.	DESCRIPTION	SIZE HxWxD (mm)	SYMBOL	FOUNDATION BOLT PITCH (mm)
1	ETC ANTENNA TOWER	460x460x600		240x240
2	BOOM BARRIER	460x460x600		180x180
3	AVC PROFILER	460x460x600		240x240
4	CAMERA TOWER	460x460x600		240x240
5	TRAFFIC LIGHT, UFD	460x460x600		240x240
6	VEHICLE SEPARATOR POLE	460x460x600		240x240
7	LMR CAMERA	460x460x600		240x240



	NAME	SIGN
DRAWN BY		
CHECKED BY		
APPROVED BY		



PROJECT :-

**MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING**

NORTH :-

TITLE :-

**STANDARD SINGLE LANE LAYOUT
WITH WIM**

DATE	DRAWING NO.	PAPER SIZE	REV.
06.10.2021	P4-ITC-004	A1	01

GENERAL TOLERANCES

DIMENSIONS	TOLERANCE
0-10	+/- 0.1
11-50	+/- 0.2
51-100	+/- 0.3
101-500	+/- 0.5
501-1000	+/- 0.8
1001-3000	+/- 1.2
Above 3000	+/- 2.0

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- 3) DIMENSIONS IN THE DRAWING ARE PROPOSED.
- 4) ALL CORNERS AND EDGES ARE REMOVED.

NOTE-

- 1) ISLAND HEIGHT REQUIRED MINIMUM 150 mm TO MAXIMUM 610 mm.
- 2) REQUIRED CONCRETE IN LANE.

PROJECTION=

000295

THIRD ANGLE



OTHER SIZES

SR.NO.	DESCRIPTION	SIZE LxW (mm)	SYMBOL
A	BOOTH	3200 x 1600	
B	LOOP - 1 & 2.	2400x900	
C	LOOP - 3	2400x1200	
D	2" PUC. PIPE	O.D =50	
E	3" G.I PIPE	O.D =76	
F	MS WIM		
G	CHAMBER	600x600x600	
H	FOG LIGHT		

FOUNDATION SIZES

SR.NO.	DESCRIPTION	SIZE HxWxD (mm)	SYMBOL	FOUNDATION BOLT PITCH (mm)
1	ETC ANTENNA TOWER	460x460x600		240x240
2	BOOM BARRIER	460x460x600		180x180
3	AVC PROFILER	460x460x600		240x240
4	CAMERA TOWER	460x460x600		240x240
5	TRAFFIC LIGHT, UFD	460x460x600		240x240
6	VEHICLE SEPARATOR POLE	460x460x600		240x240
7	LPR CAMERA	460x460x600		240x240



NAME	SIGN
DRAWN BY	
CHECKED BY	
APPROVED BY	

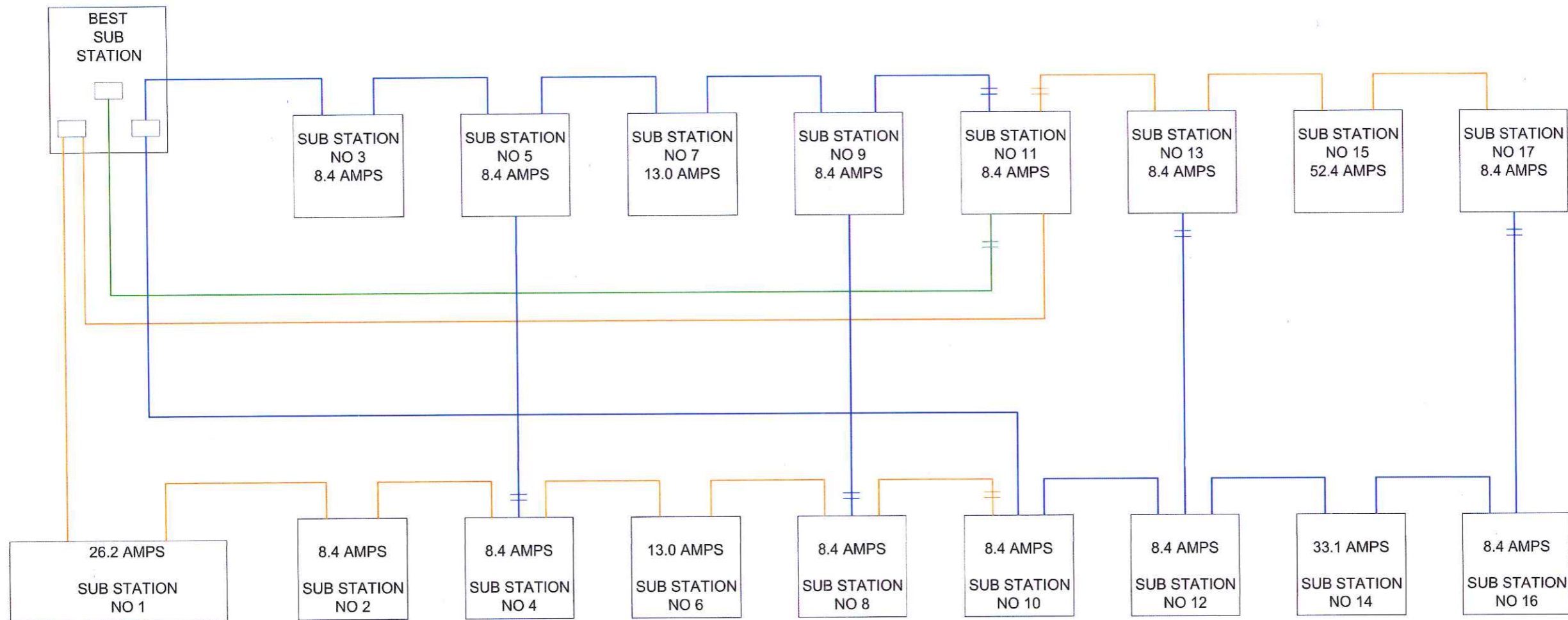


PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**

NORTH :-

TITLE :- STANDARD SINGLE LANE LAYOUT WITH WIM			
DATE: 06.10.2021	DRAWING NO. P4-ITC-004A	PAPER SIZE: A1	REV. 01

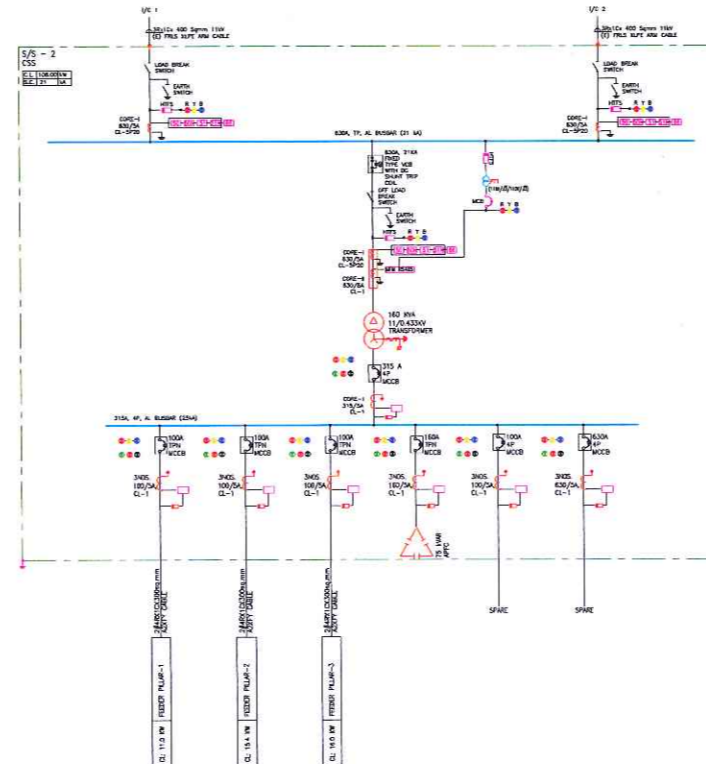
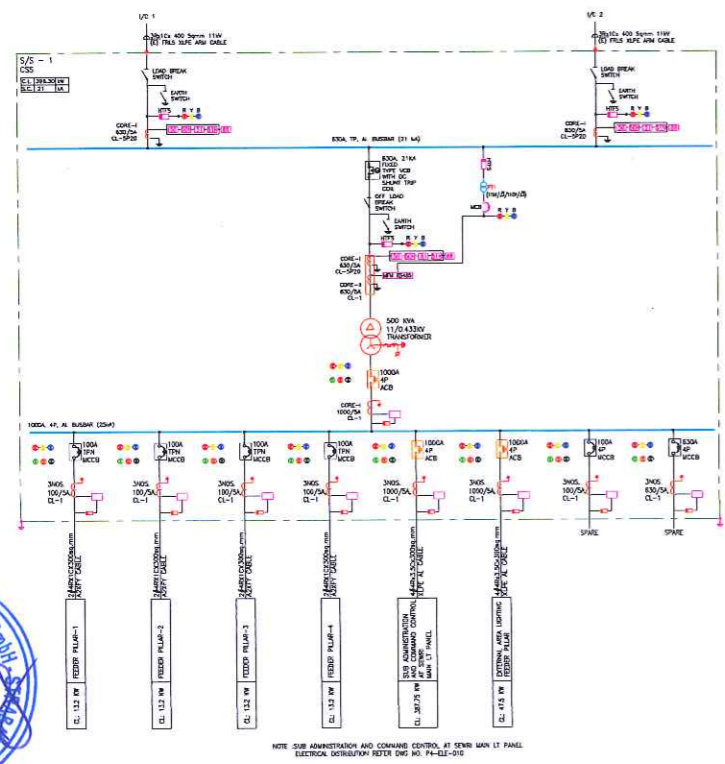
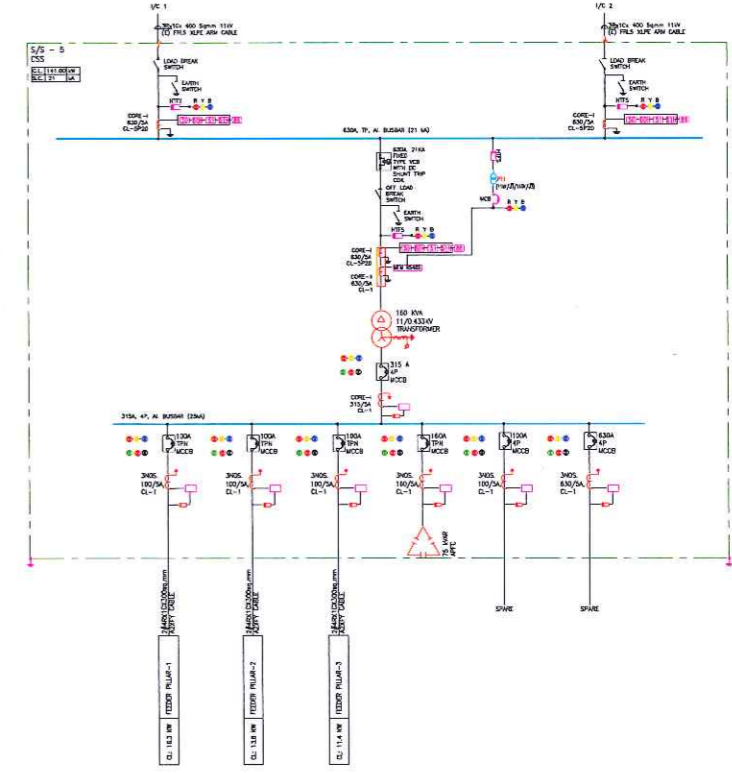
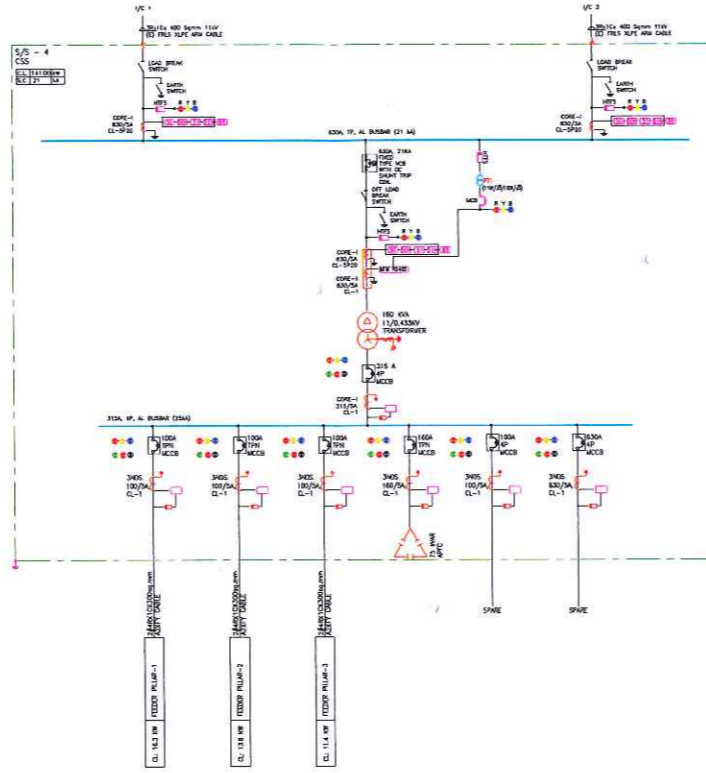
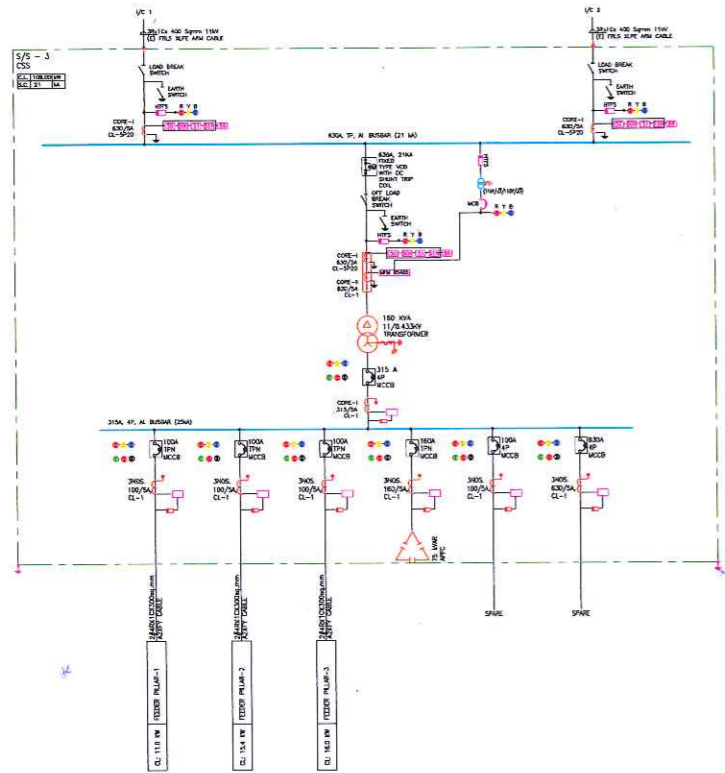
000296



NOTES:

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3. Drawings have been optimized for color printing. This drawing shall not be referred for Structural details.
4. The Submission of Detailed drawings shall however not relieve Package 4 Design and Build Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;

NAME		SIGN		MMRDA MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY	PROJECT :- MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING	NORTH :-	TITLE :- 11kV RING NETWORK BLOCK DIAGRAM			
DRAWN BY							DATE: 06.10.2021	DRAWING NO. P4 - ELE - 007	PAPER SIZE: A3	REV. 01
CHECKED BY										
APPROVED BY										



LEGENDS :

SYMBOL	DESCRIPTION
	4 POLE AIR CIRCUIT BREAKER
	175A MOLDED CASE CIRCUIT BREAKER (MCCB)
	DP MCB
	ELCB-EARTH LEAKAGE CIRCUIT BREAKER
	ATS-AUTOMATIC TRANSFER SWITCH
	INDICATING LAMPS (RED, YELLOW & BLUE)
	INDICATING LAMPS (ON, OFF & TRIP)
	CT - CURRENT TRANSFORMER
	FUSE-LINK-TYPE-FUSE
	DIRECT ONLINE STARTER (DOS)
	EARTHING
	HOURLY HOUR METER
	ELECTRONIC ENERGY METER
	VOLTMETER
	VOLTMETER-SELECTOR SWITCH
	AMMETER
	STAR DELTA STARTER
	INVERTOR
	D.G. SET
	TRANSFORMER
	40A TRN CONNECTOR IN ELEC. SWMT

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NOTE: SUB ADMINISTRATION AND COMMAND CONTROL, AT GEN. MAN LT PANEL ELECTRICAL DISTRIBUTION REFER Dwg. NO. P4-ELE-010

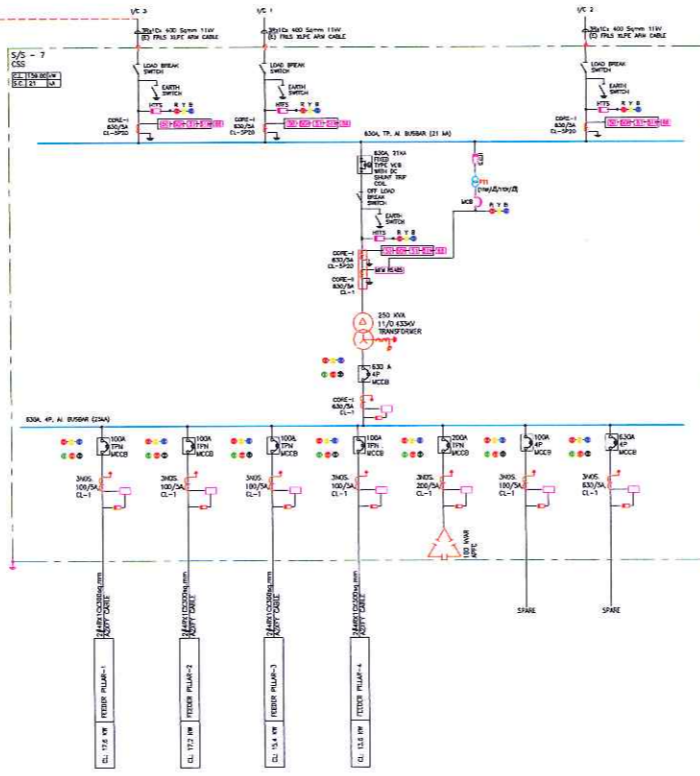
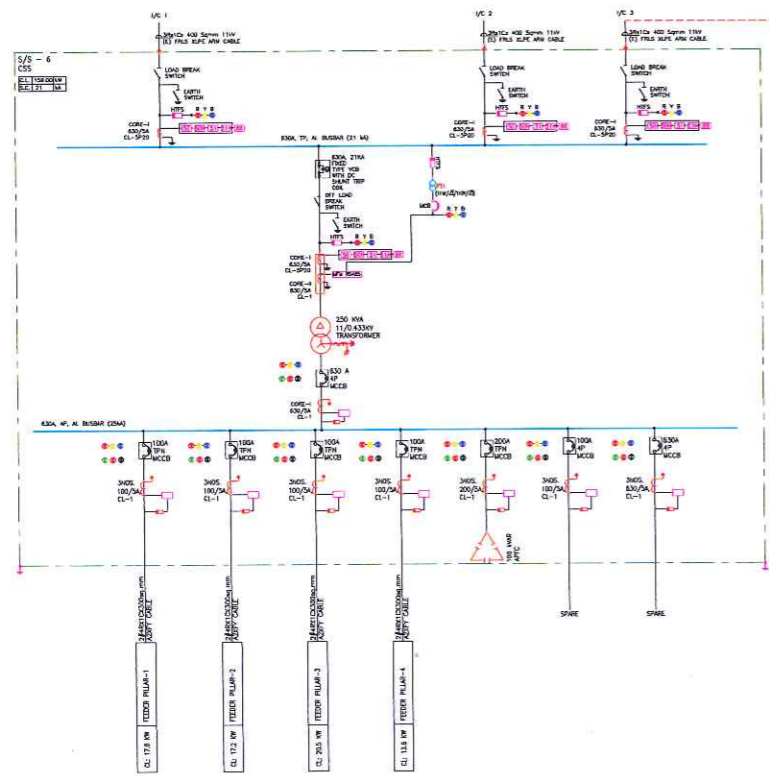
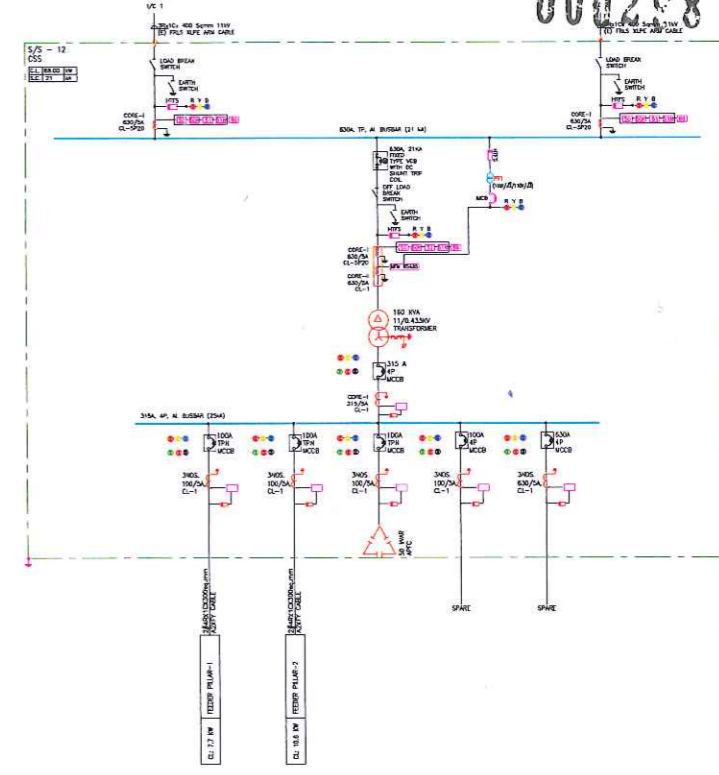
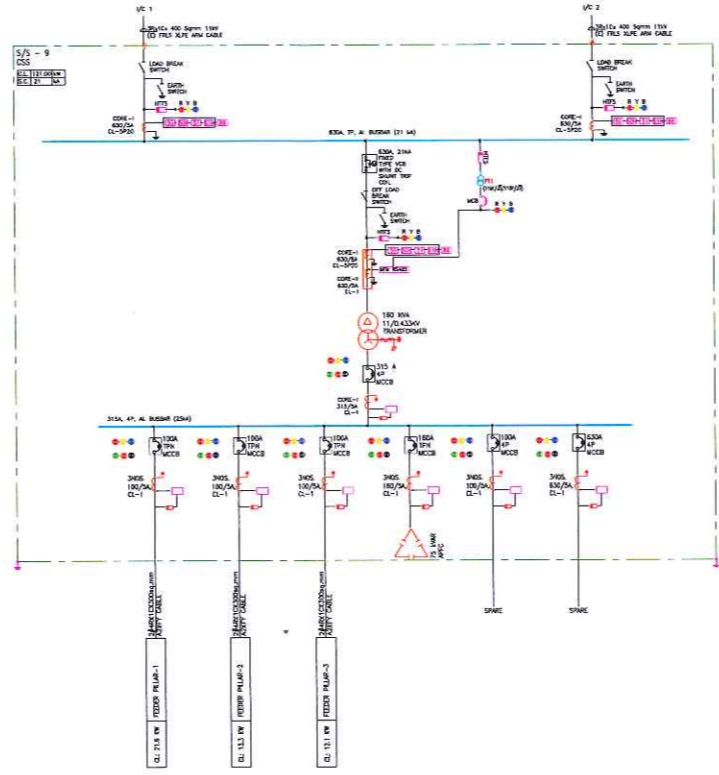
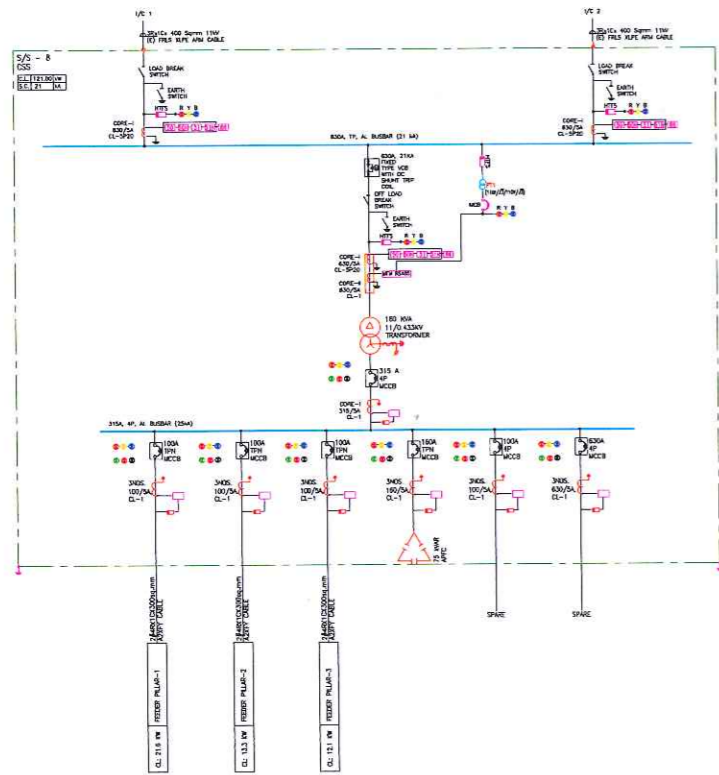
NAME	SIGN
DRAWN BY: PG	
CHECKED BY: SA	
APPROVED BY: AD	



PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT**
PACKAGE 4 - TENDER DRAWING

TITLE :-	DATE:	DRAWING NO.	PAPER SIZE:	REV.
ELECTRICAL DISTRIBUTION OF SUB STATION NOS. 1 TO 5	05.10.2021	P4 - ELE - 008 (1 OF 4)	A1	01

000208



LEGENDS :

SYMBOL	DESCRIPTION
	4 POLE AIR CIRCUIT BREAKER
	TIN MOULDED CASE CIRCUIT BREAKER (MCCB)
	50A MCB
	ELCB-EARTH LEAKAGE CIRCUIT BREAKER
	ATS-AUTOMATIC TRANSFER SWITCH
	INDICATING LAMPS (ON, OFF & TRIP)
	CT - CURRENT TRANSFORMER
	HRC-LINK-TYPE-FUSE
	DIRECT ONLINE STARTER (DOL)
	EARTHING
	KILOWATT HOUR METER
	ELECTRONIC ENERGY METER
	VOLTMETER
	VOLTMETER-SELECTION SWITCH
	AMMETER
	STAR DELTA STARTER
	INVERTER
	D.O. SET
	TRANSFORMER
	40A TPN CONNECTOR IN ELEC. SHAFT

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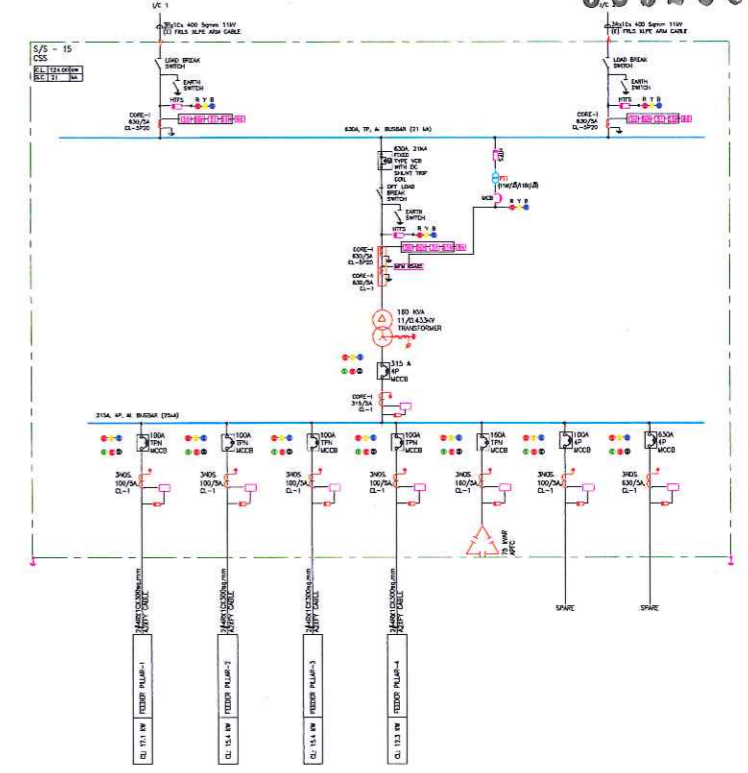
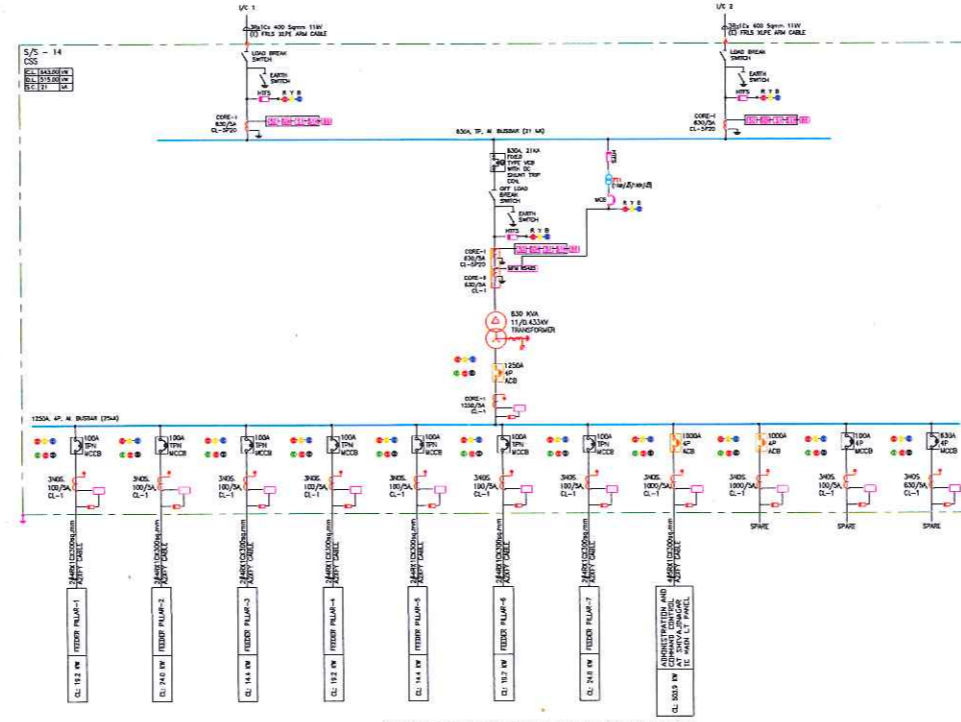
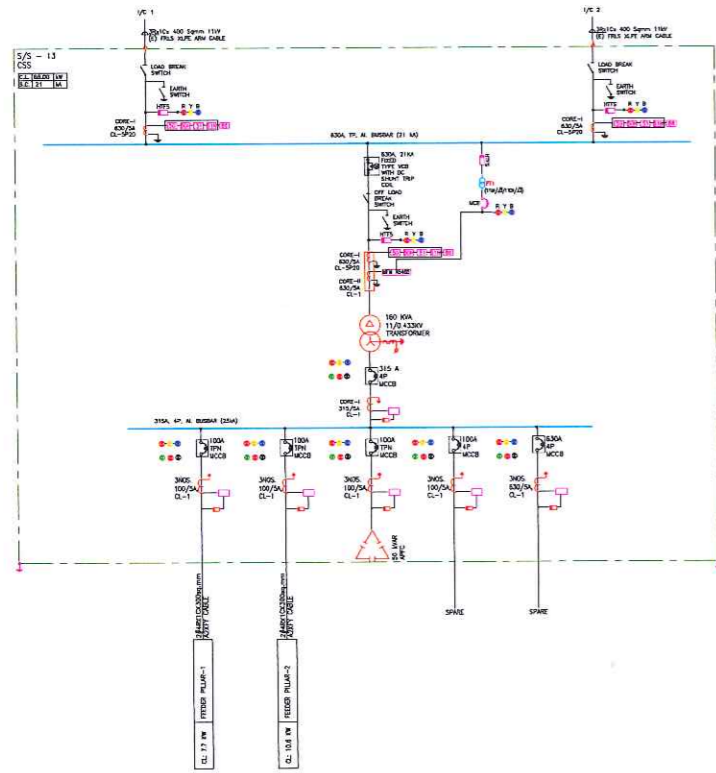
NAME	SIGN
DRAWN BY	PG
CHECKED BY	SA
APPROVED BY	AD



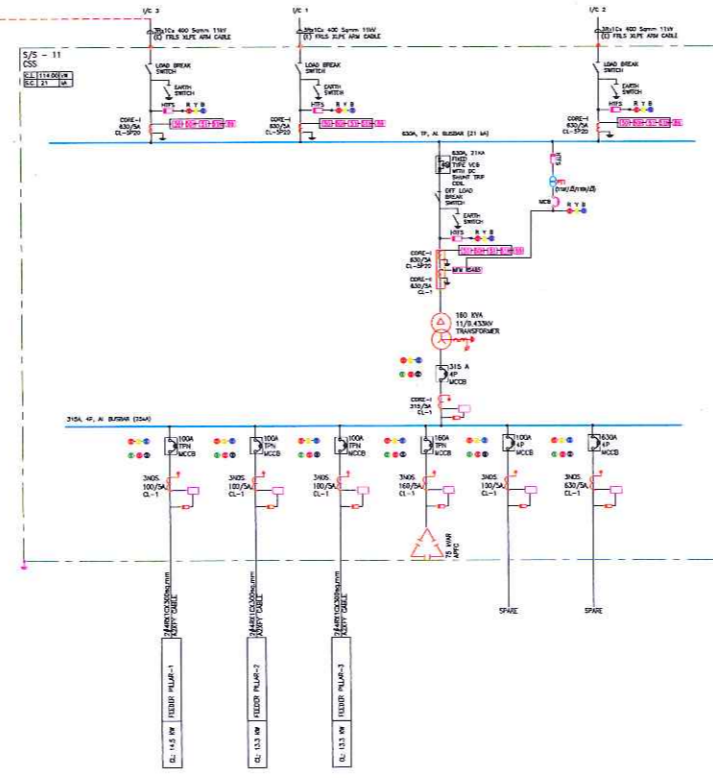
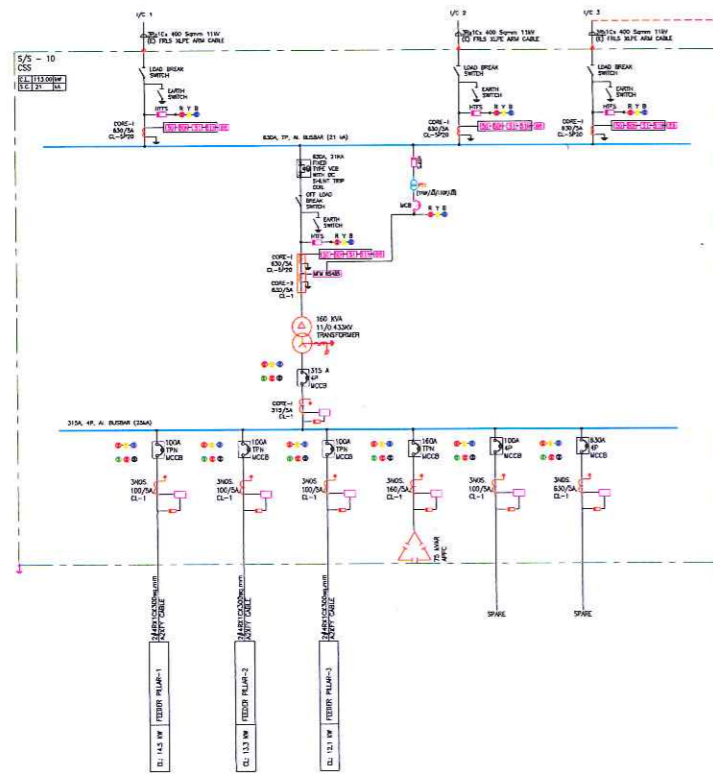
PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING

TITLE :-	ELECTRICAL DISTRIBUTION OF SUB STATION NOS. 6 TO 9 & 12		
DATE:	05.10.2021	DRAWING NO.	P4 - ELE - 008 (2 OF 4)
PAPER SIZE:	A1	REV.	01

000299



NOTE: ADMINISTRATION AND OPERATING CONTROL AT SHIVAJI DANGAR IC MAIN LT PANEL ELECTRICAL DISTRIBUTION AFTER ENG NO. - PL-02-011



LEGENDS :

SYMBOL	DESCRIPTION
	4 POLE AIR CIRCUIT BREAKER
	17kV MOULDED CASE CIRCUIT BREAKER (MCCB)
	DP MCCB
	ELCB-EARTH LEAKAGE CIRCUIT BREAKER
	ATS-AUTOMATIC TRANSFER SWITCH
	INDICATING LAMPS (RED, YELLOW & BLUE)
	INDICATING LAMPS (ON, OFF & TRIP)
	CT - CURRENT TRANSFORMER
	MFC-LINK-TYPE-FUSE
	DIRECT ONLINE STARTER (DOL)
	EARTHING
	KILOWATT HOUR METER
	ELECTRONIC ENERGY METER
	VOLTMETER
	VOLTMETER-SELECTOR SWITCH
	SWITCHER
	STAR DELTA STARTER
	INVERTER
	D.G. SET
	TRANSFORMER
	40A 17kV CONNECTOR IN ELEC. SHAFT

NOTES :

- All dimensions are in mm and are indicative. The dimensions are to be read and not scaled or measured from the drawings.
- This drawing is indicative and meant for the purposes of illustration and reference. Further detailed design, sizing, routing, selection of material of construction (MOC), supply, laying, testing and commissioning complete shall be in accordance to appropriate Indian Standards and codes as defined and in coordination with Civil and Architectural designs, employer's requirements and further site specific detailing shall be completed in a detailed engineering manner by the design and built contractor for site specific use and operability. This includes coordination with all other design guides, specifications, standards, package 1, 2 & 3 civil work interface and provisions and any relevant regulatory / statutory approval requirements.
- Drawings have been optimized for color printing. This drawing shall not be referred for Structural details.
- The Submission of Detailed drawings shall however not relieve Package 4 Design and Built Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;



NAME	SIGN
DRAWN BY	PG
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PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING

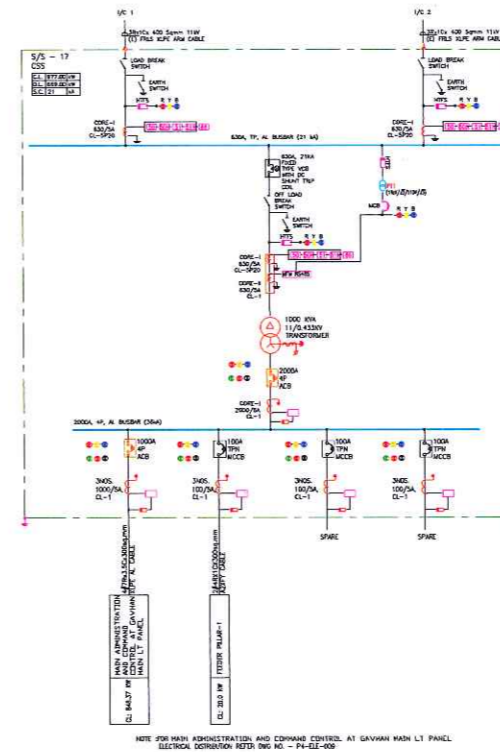
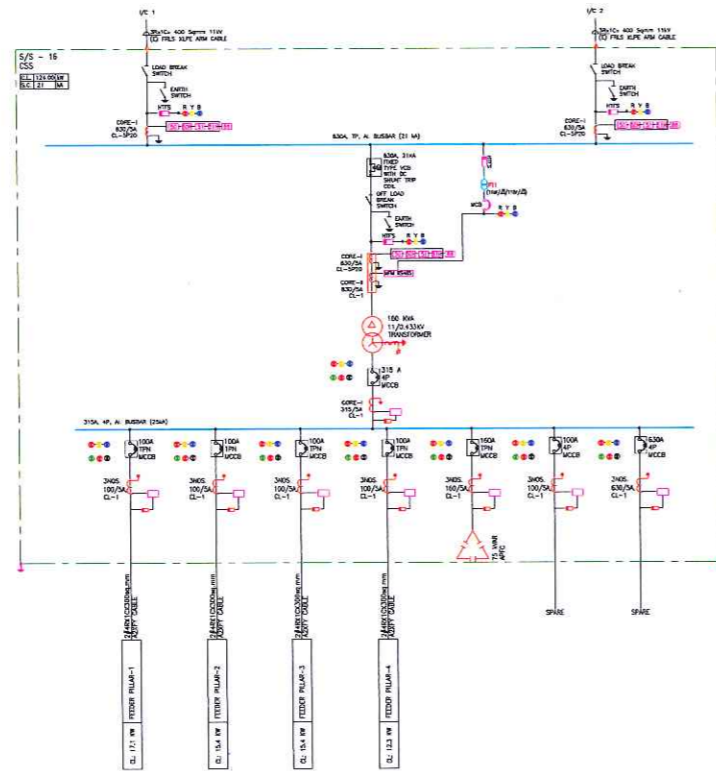
NORTH :-

TITLE :-			
ELECTRICAL DISTRIBUTION OF SUB STATION NOS. 10,11 & 13 TO 15			
DATE:	DRAWING NO.	PAPER SIZE.	REV.
05.10.2021	P4 - ELE - 008 (3 OF 4)	A1	01

000300

LEGENDS :

SYMBOL	DESCRIPTION
	MOULDED CASE CIRCUIT BREAKER (MCCB)
	AIR CIRCUIT BREAKER (ACB)
	ELEB-EARTH LEAKAGE CIRCUIT BREAKER
	ATS-AUTOMATIC TRANSFER SWITCH
	INDICATING LAMPS (RED, YELLOW & BLUE)
	INDICATING LAMPS (ON, OFF & TRIP)
	CT - CURRENT TRANSFORMER
	HRC-LINK-TYPE-FUSE
	DIRECT ONLINE STARTER (DOL)
	EARTHING
	KILOWATT HOUR METER
	ELECTRONIC ENERGY METER
	VOLTMETER
	VOLTMETER-SELECTOR SWITCH
	AMMETER
	STAR DELTA STARTER
	INVERTOR
	D/G SET
	TRANSFORMER
	40A 1PH CONNECTOR IN ELEC. SHAFT



NOTE FOR MAIN ADMINISTRATION AND CONTROL AT GAVANAR MAIN LT PANEL
ELECTRICAL CONNECTION REFER DWG NO. - P4-ELE-008



NOTES :

1. All dimensions are in mm and are indicative. The dimensions are to be read and not scaled or measured from the drawings.
2. This drawing is indicative and meant for the purposes of illustration and reference. Further detailed design, sizing, routing, selection of material of construction (MOC), supply, laying, testing and commissioning complete shall be in accordance with appropriate Indian Standards and codes as defined and in coordination with Civil and Architectural designs, employer's requirements and further site specific detailing shall be completed in a detailed engineering manner by the design and built contractor for site specific use and operability. This includes coordination with all other design guides, specifications, standards, package 1, 2 & 3 civil work interface and provisions and any relevant regulatory / statutory approval requirements.
3. Drawings have been optimized for color printing. This drawing shall not be referred for Structural details.
4. The Submission of Detailed drawings shall however not relieve Package 4 Design and Built Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;

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CHECKED BY	SA	
APPROVED BY	AD	



MMRDA
MUMBAI METROPOLITAN REGION
DEVELOPMENT AUTHORITY

PROJECT :-

**MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING**

NORTH :-

TITLE :-

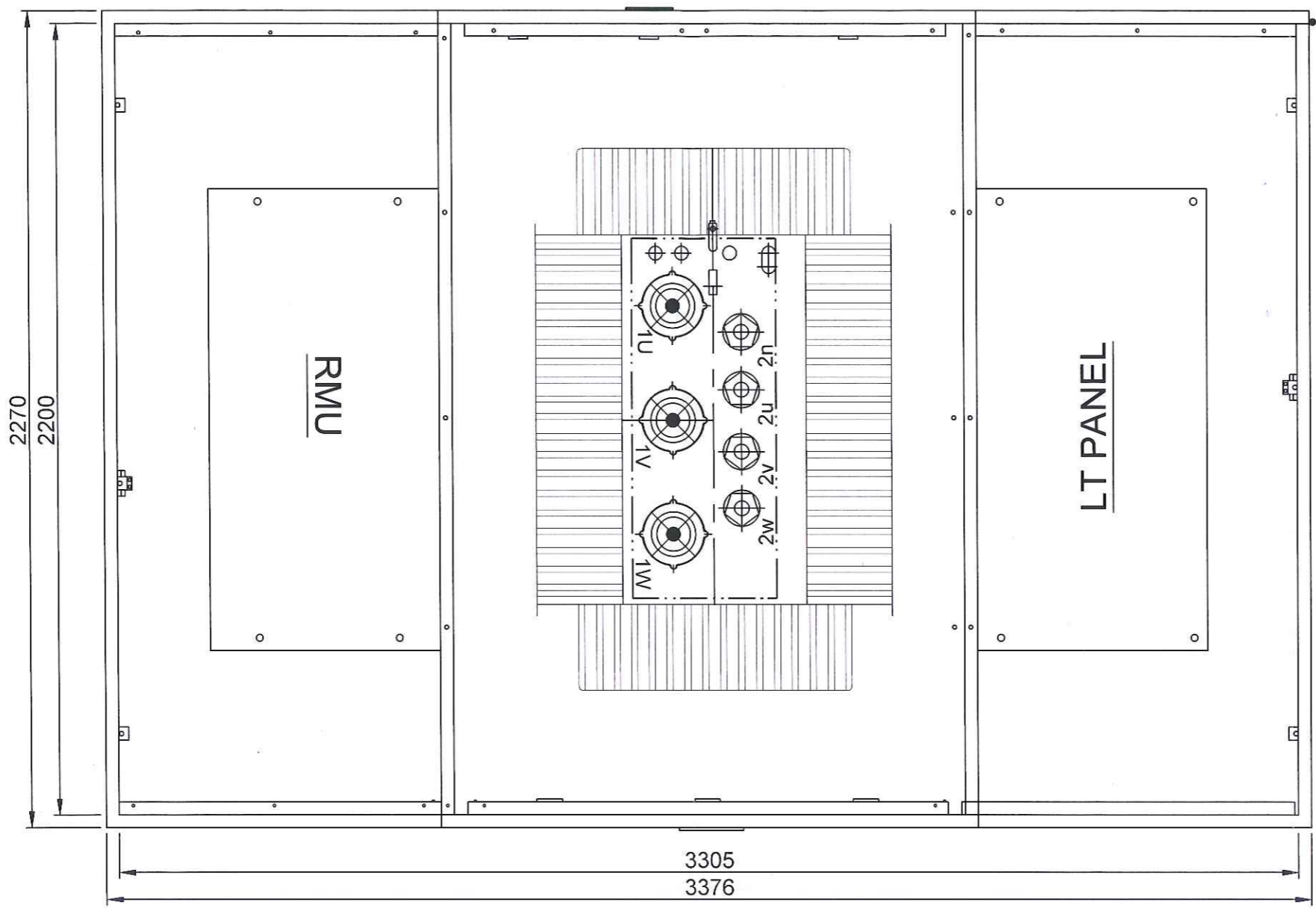
**ELECTRICAL DISTRIBUTION OF SUB
STATION NOS. 16 & 17**

DATE	DRAWING NO.	PAPER SIZE	REV.
05.10.2021	P4 - ELE - 008 (4 OF 4)	A1	01

SIDE-2

SIDE-3

SIDE-1



SIDE-4



NOTE:-
 1. ALL DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. DIMENSION TOLERANCE ± 5 %.

NOTE:-
 1. ALL DIMENSION AS ABOVE ARE INDICATIVE ONLY.

NAME	SIGN
DRAWN BY	
CHECKED BY	
APPROVED BY	



PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
TENDER DRAWINGS

NORTH :-

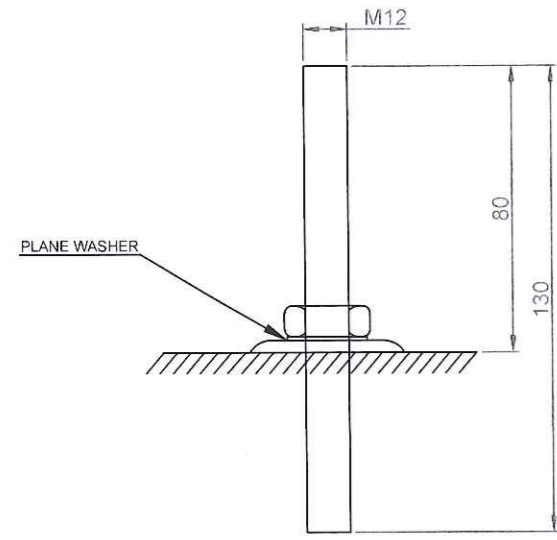
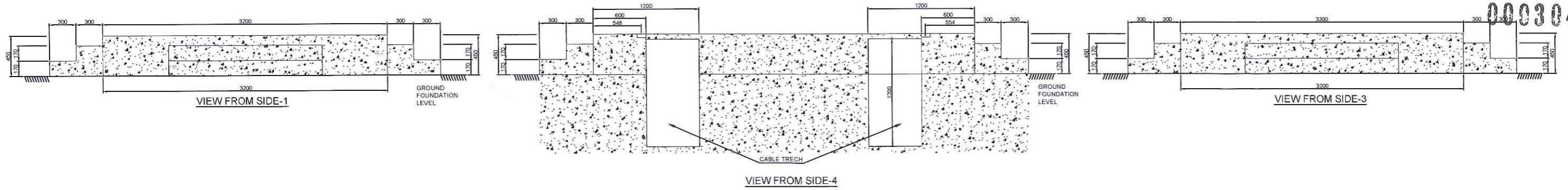
TITLE :-
 GENERAL ARRANGEMENT OF
 ELECTRICAL SUBSTATION PLATFORM

DATE: 06.10.2021

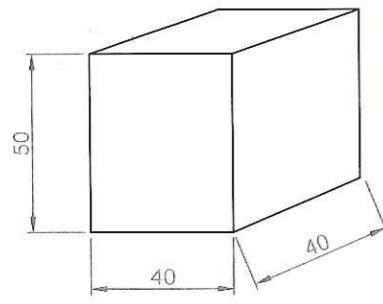
DRAWING NO. P4 - ELE - 004

SH 02 OF 03
 Page 2 of 8
 REV. R 1

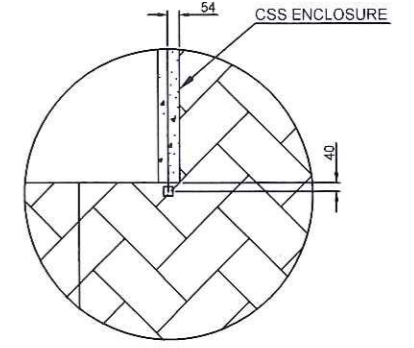
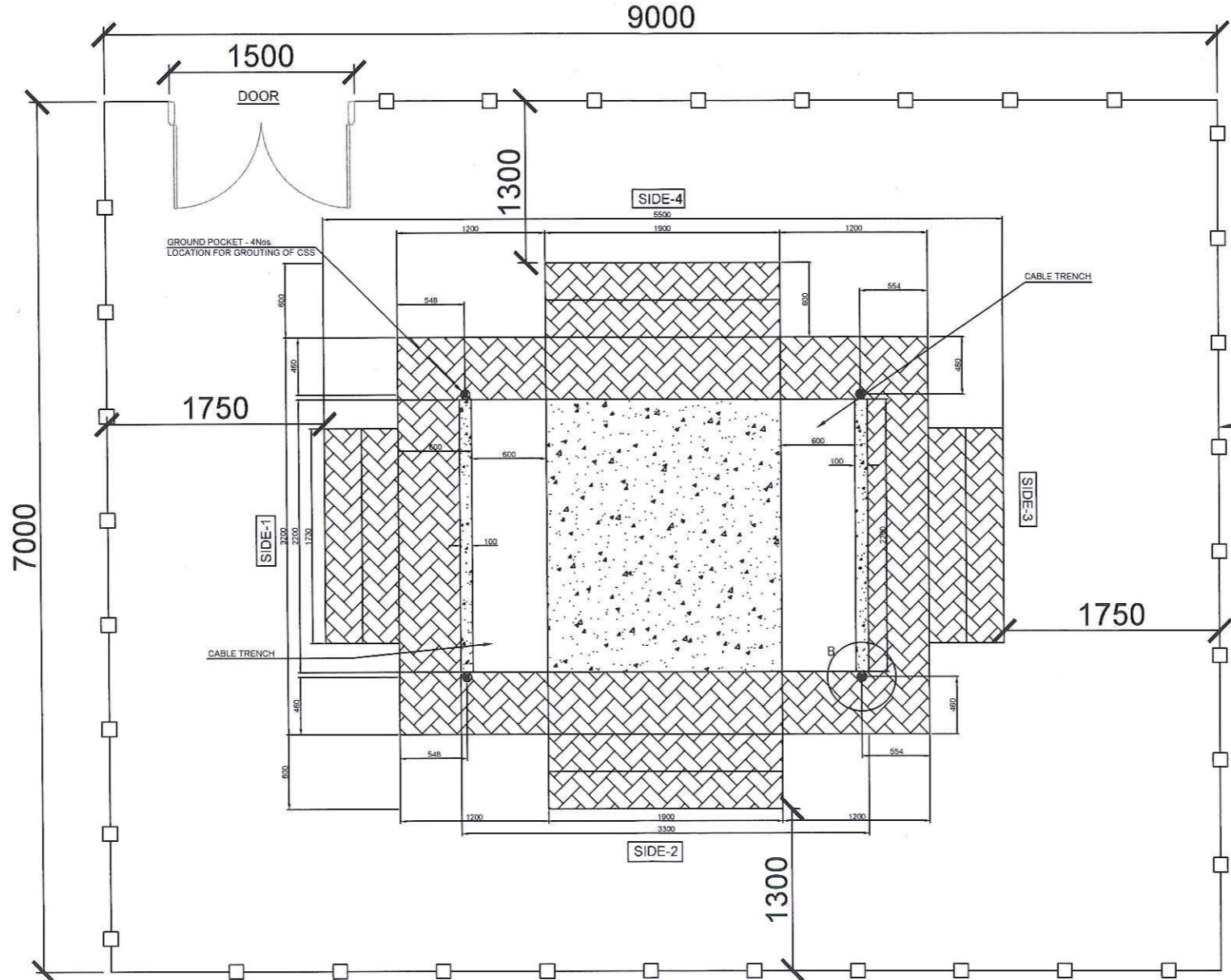
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FOUNDATION BOLT

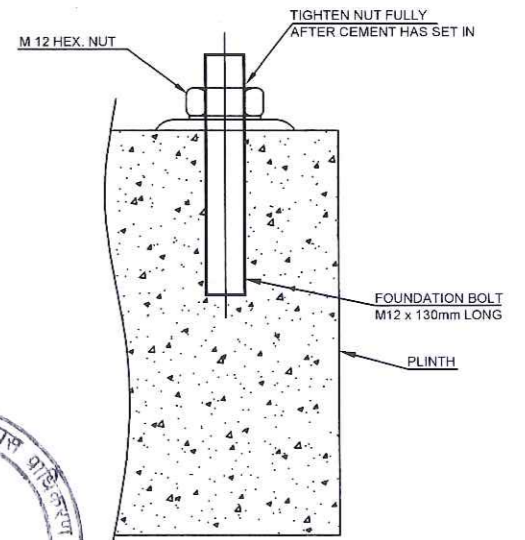


GROUTING POCKET



DETAILS OF VIEW "B"

AREA HATCH INDICATE WORKING AREA AROUND CSS



FOUNDATION PLINTH DETAILS

- NOTES:-
1. ALL DIMENSION ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. REFER GA DRAWING FOR DIMENSION DETAILS OF PACKAGE SUB STATION.
 3. THE DIMENSION SHOULD BE SUITABLE FOR STATIC LOAD OF 9 TON.
 4. THIS IS REFERENCE FOR PREPARATION REQUIRED CIVIL DRAWING CONSIDERING THE SITE CONDITION.
 5. HT / LT CABLE DEPTH SHOULD BE MINIMUM 1.2M.
 6. THE TOP OF THE PLINTH HAS TO BE PROPERLY LEVELED (WITH MAXIMUM VARIATION OF 4 mm) THIS IS ESSENTIAL FOR PROPER ALIGNMENT OF PACKAGE SUB STATION DOORS
 7. PROVISION FOR EQUIPMENT EARTHING WILL BE PROVIDE FROM BOTTOM SIDE OF CSS.
 8. INTERNAL EARTHING WILL DROUGHT OUT ON EARTHING POINTS INSIDE THE CSS. CONNECTION BETWEEN EARTHING POINT & EARTHING PIT SHALL BE DONE BY STRIP OR CABLE.

NOTE:-
1. ALL DIMENSION AS ABOVE ARE INDICATIVE ONLY.



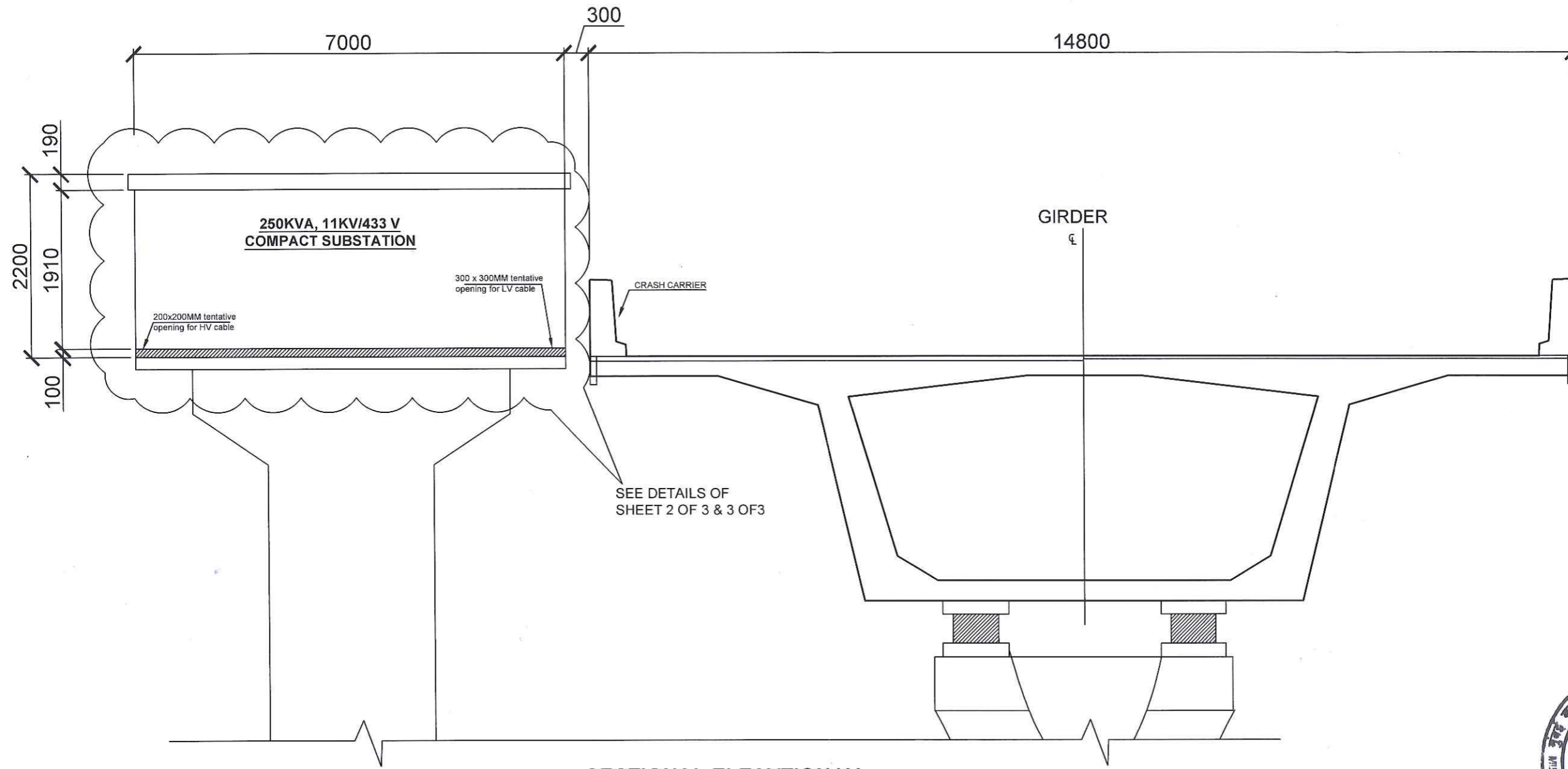
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CHECKED BY	
APPROVED BY	



PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
TENDER DRAWINGS

NORTH :-

TITLE :- GENERAL ARRANGEMENT OF ELECTRICAL SUBSTATION PLATFORM	SH 03 OF 03
DATE: 06.10.2021	DRAWING NO. P4 - ELE - 004
	Page 3 of 8 Rev. R 1



SECTIONAL ELEVATION 'A'



- NOTES:
1. All dimensions are in mm and are indicative. The dimensions are to be read and not scaled or measured from the drawings.
 2. This drawing is indicative and meant for the purposes of illustration and reference. Further detailed design, sizing, routing, selection of material of construction (MOC), supply, laying, testing and commissioning complete shall be in accordance to appropriate Indian Standards and codes as defined and in coordination with Civil and Architectural designs, employer's requirements and further site specific detailing shall be completed in a detailed engineering manner by the design and built contractor for site specific use and operability. This includes coordination with all other design guides, specifications, standards, package 1, 2 & 3 civil work interface and provisions and any relevant regulatory / statutory approval requirements.
 3. Drawings have been optimized for color printing. This drawing shall not be referred for Structural details.
 4. The Submission of Detailed drawings shall however not relieve Package 4 Design and Build Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;

	NAME	SIGN
DRAWN BY		
CHECKED BY		
APPROVED BY		



PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT TENDER DRAWINGS**

NORTH :-

TITLE :- **GENERAL ARRANGEMENT OF ELECTRICAL SUBSTATION PLATFORM**

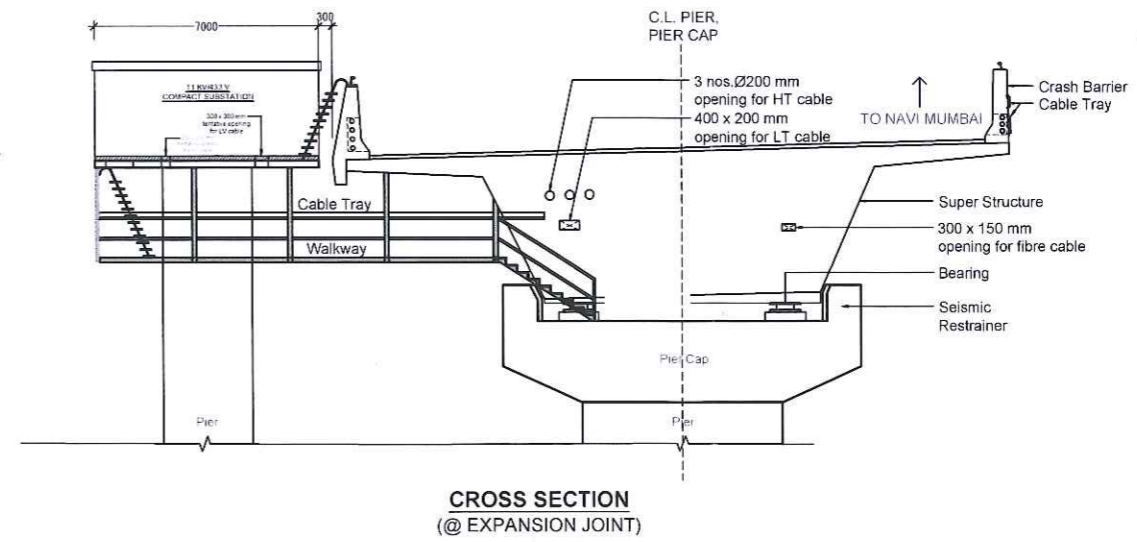
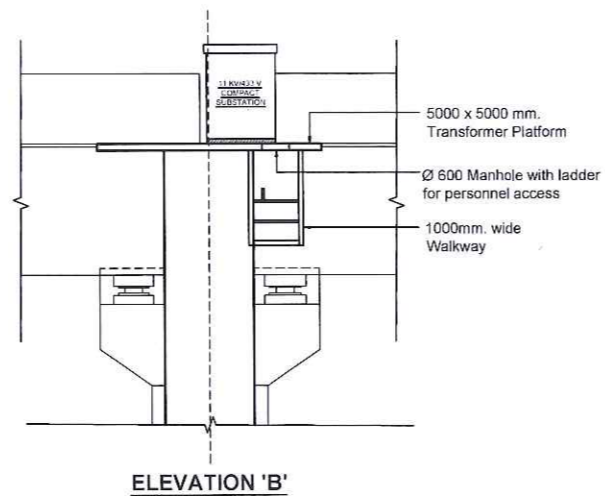
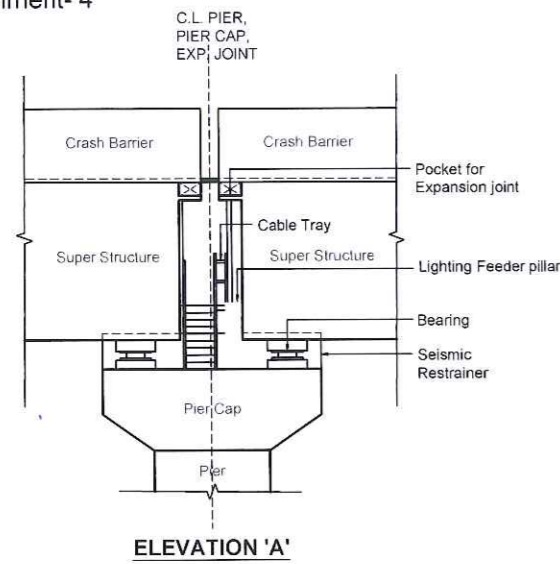
DATE: 06.10.2021

DRAWING NO. P4 - ELE - 004

SH 01 OF 03

Page 4 of 8 REV. R 1

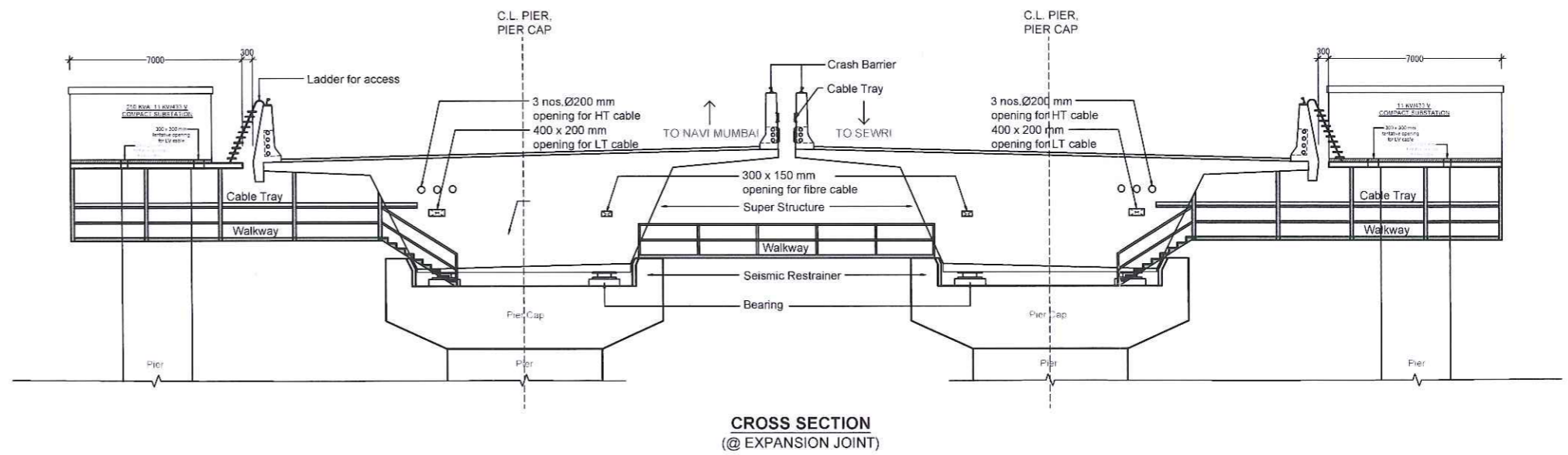
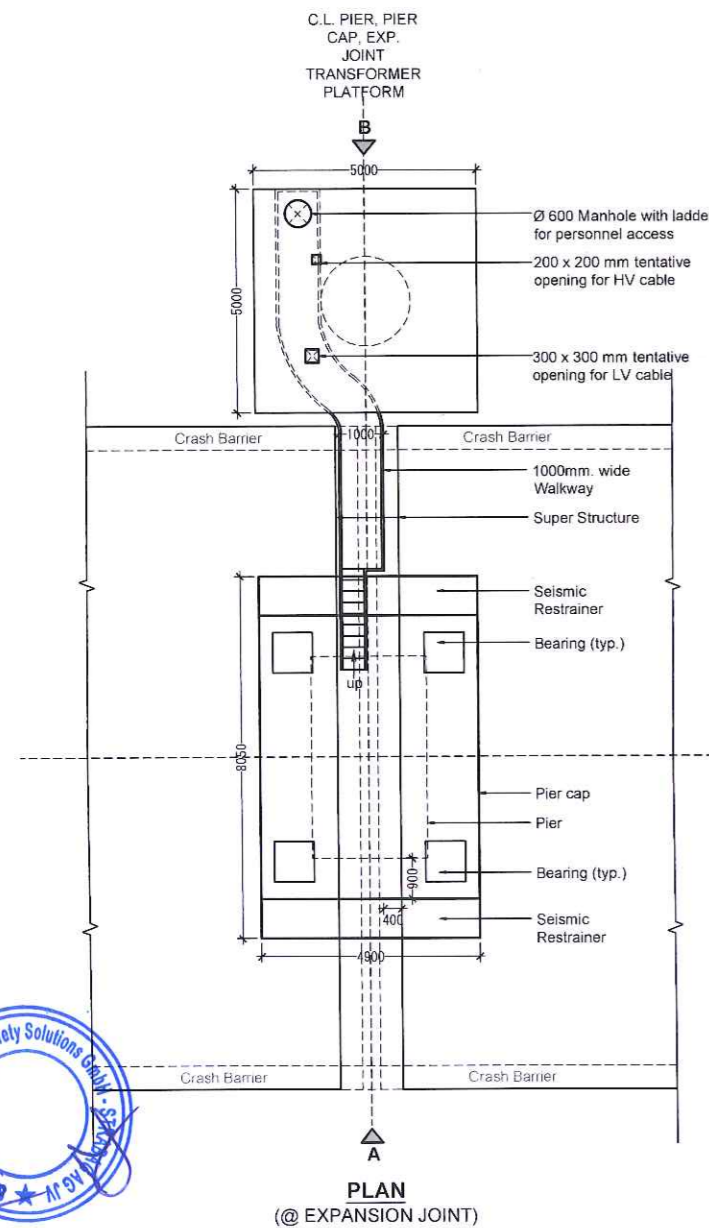
000306



ELEVATION 'A'

ELEVATION 'B'

CROSS SECTION (@ EXPANSION JOINT)



CROSS SECTION (@ EXPANSION JOINT)

Note : At the location of vision/noise barrier there has to be 1 m. wide openable door with lock and key for the access to the electrical platform.



- NOTES :
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 3. Drawings have been optimized for color printing. This drawing shall not be referred for Structural details.
 4. The Submission of Detailed drawings shall however not relieve Package 4 Design and Build Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;

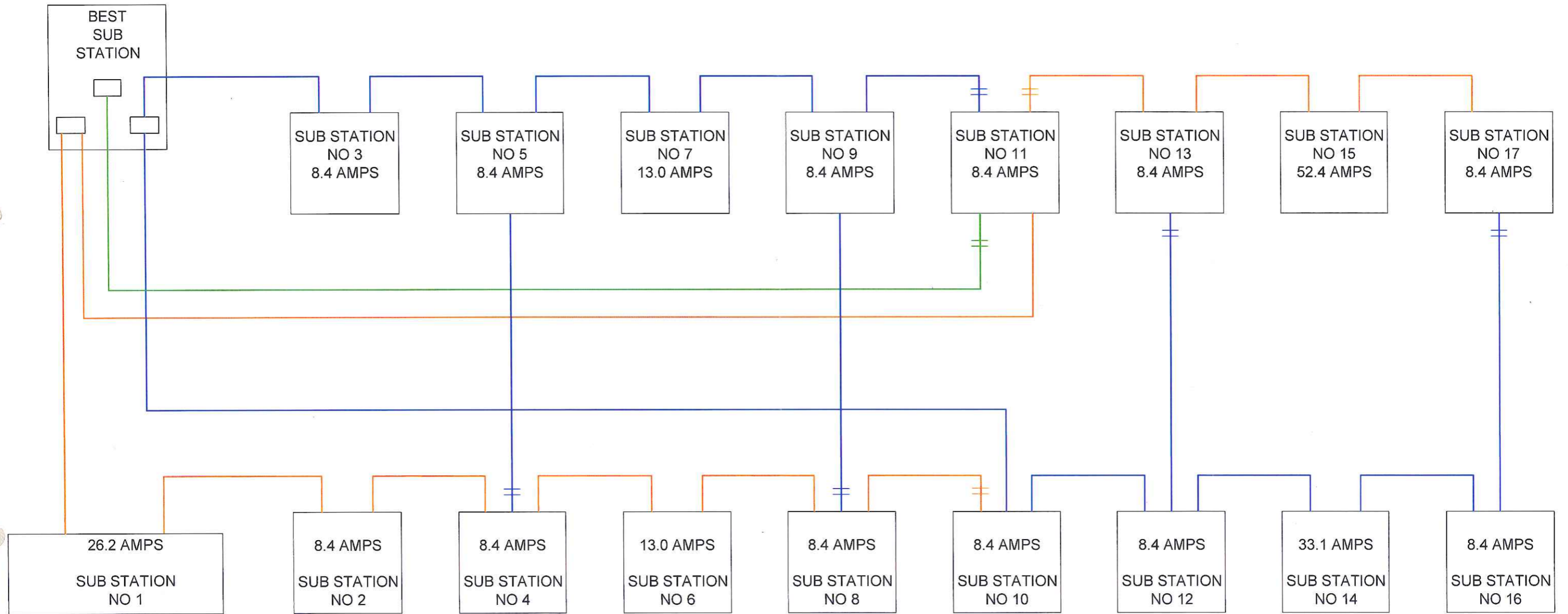
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APPROVED BY	



PROJECT :- MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING

NORTH :-

TITLE :- GENERAL ARRANGEMENT OF WALKWAY AT EXPANSION JOINT FOR ELECTRICAL TRANSFORMER PLATFORM			
DATE	DRAWING NO.	PAPER SIZE	REV.
06.10.2021	P4 - ELE - 005	Page 5 of 8	1



NAME	SIGN
DRAWN BY	
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APPROVED BY	



MMRDA
MUMBAI METROPOLITAN REGION
DEVELOPMENT AUTHORITY

PROJECT :-

**MUMBAI TRANS HARBOUR LINK PROJECT
TENDER DRAWINGS**

NORTH :-

TITLE :-

SCHEMATIC DIAGRAM
OF HV NETWORK

DATE: 06.10.2021

DRAWING NO. P4 - ELEC - 007

Page 6 of 8 Rev. R1

GENERAL

- 1) ALL DIMENSION ARE IN mm UNLESS SPECIFIED.
- 2) ALL DUCTS SHALL BE FABRICATED AS PER RELEVANT SMACNA STANDARD DUCT CONSTRUCTION. PRESSURE RATING OF THE DUCTS AS PER STATIC PRESSURE REQUIREMENT DUCT DESIGN AND FABRICATION SHALL BE AS PER AWS SPECIFICATION DOR AIR DISTRIBUTION SECTION 233113.
- 3) SERVICES IN SHAFT TO BE COORDINATED WITH OTHER SERVICE.
- 4) ALL DUCT / PIPE LEVELS ARE INDICATIVE FROM FFL.
- 5) ALL TOILET DOORS TO BE PROVIDED WITH 12 mm UNDER CUT FOR AIR TRANSFER INCASE FRESH AIR DIRECTLY NOT SUPPLIED TO TOILET.
- 6) ALL AHU ROOM / FAN ROOM DOOR SHOULD BE OPEN OUTSIDE.
- 7) ALL 90° MITERED ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES UNLESS OTHERWISE NOTED.
- 8) ALL SPECIFICATION AND EQUIPMENT SELECTION SHOULD MEET MINIMUM ECBC 2016 (LATEST).
- 9) FIRE DAMPERS TO BE PROVIDED IN SUPPLY AIR AND RETURN AIR DUCTS WHILE CROSSING FIRE RATED PARTITION OR AS SHOWN ON DRAWINGS.
- 10) ACCESS DOORS ON THE DUCTS / PLENUM SHALL BE MINIMUM 450 x 450 WHEREVER APPLICABLE.
- 11) PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS ON ALL PIPING AS APPLICABLE SUCH DRAIN POINTS ARE CONSIDERED AS PIPING ACCESSORIES ALL DRAIN AND VENT POINT MAY NOT BE SHOWN IN THE DRAWING / SCHEMATICS.
- 12) NO LIQUID CARRYING PIPES SHALL BE ROUTED ABOVE ELECTRICAL EQUIPMENT. IF THE SAME IS UNAVOIDABLE THEN SUCH PIPE SHALL RUN THROUGH 1.2mm THICK DRAIN TRAY SLOPED AWAY FROM EQUIPMENT.
- 13) ALL PIPES INSTALLED INSIDE THE MECHANICAL PLANT ROOM, FAN ROOM SHALL BE SUPPORTED WITH SEISMIC ISOLATOR FOR RELEVANT EARTHQUAKE ZONE.
- 14) ALL VALVES & OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED WITH ACCESS PANEL.
- 15) ALL PIPE PENETRATION THROUGH FIRE RATED WALLS OR FLOORS SHALL BE FIRE STOPPED USING FIRE STOP SYSTEM BY MEP CONTRACTOR.
- 16) MANUAL VOLUME CONTROL DAPMERS SHALL BE PROVIDED IN ALL DUCTS BRANCHES UNLESS OTHERWISE NOTED. MANUAL BUILDING CODE OF INDIA.
- 17) ALL MECHANICAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED ADDITION OF THE NATIONAL BUILDING CODE OF INDIA.
- 18) PLEASE REFER FLOOR PLAN & SCHEMATIC FOR FACE VELOCITY, PRESSURE DROP & FACE AREA IN LAUVER, ALSO REFER ARCHITECTURAL DRAWINGS FOR LOUVERS CONING ON BUILDING FACADE.
- 19) DUCTS WITH ACOUSTIC LINING SHOULD BE THERMALLY INSULATED.
- 20) ALL DUCTS SHALL BE TOTALLY FREE FROM VIBRATIONS UNDER ALL CONDITIONS OF OPERATIONS.
- 21) EQUIPMENT SCHEDULE TO BE READ IN CONJUNCTION WITH FLOOR PLAN LAYOUT & SCHEMATIC.
- 22) SCHEMATIC DRAWING TO BE READ IN CONJUNCTION WITH FLOOR PLAN LAYOUTS.
- 23) FOR EQUIPMENT CAPACITY REFER TO EQUIPMENT SCHEDULE.
- 24) VRF PIPING TO BE DESIGN BY SPECIALIST VENDOR.
- 25) THE BUILDING STRUCTURE IN THE PROJECT ARE NOT DESIGNED FOR EQUIPMENT VIBRATIONS ALL THE EQUIPMENT USED FOR THE PROJECT SHALL INCORPORATED MEASURES TO ATTENUATE TRANSMISSION OF THE VIBRATION FROM OPERATING EQUIPMENT TO THE MAIN STRUCTURE THROUGH PASSIVE MEANS WITH PRIMARY AND SECONDARY MEASURES AS REQUIRED TO ACHIEVE MINIMUM 95% EFFICIENCY IN ISOLATION OF THE VIBRATIONS. THE VENDOR / SUPPLIER SHALL PROVIDE DETAILED INFORMATION REGARDING THE VIBRATION ISOLATION METHODS ADOPTED AND THE RESIDUAL VIBRATION IN THE EQUIPMENT BEING TRANSMITTED TO THE BUILDING VENDOR / SUPPLIER SHALL ALSO PROVIDE THE DETAILS OF ANY SUPPORT NEEDED FROM THE GENERAL CONTRACTOR IN ORDER TO IMPLEMENT THE SOLUTION. THE EFFECTIVENESS OF THE ISOLATION MEASURES PROVIDED FOR THE EQUIPMENT SHALL BE SUCCESSFULLY DEMONSTRATED FOR VARIOUS OPERATIONAL SCENARIOS AS PART OF THE TESTING AND COMMISSIONING STAGE PRIOR TO ACCEPTANCE BY CLIENT.



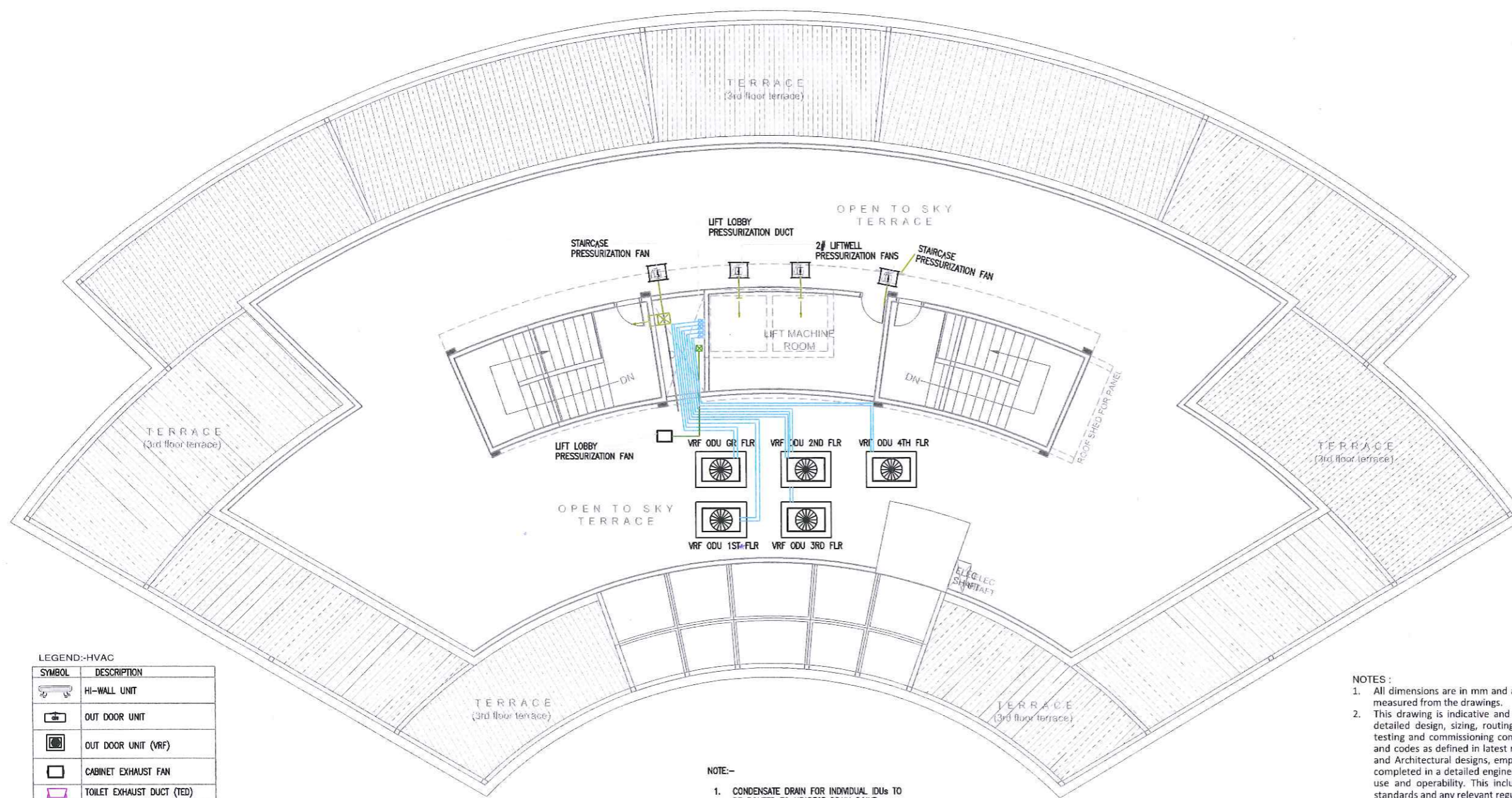
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CHECKED BY		
APPROVED BY		



PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT**
TENDER DRAWINGS

NORTH :-

TITLE :- GENERAL NOTES FOR HVAC SYSTEM	
DATE: 06.10.2021	DRAWING NO. P4 - HVAC - 002
	Page 7 of 8 Rev. R1



LEGEND:-HVAC

SYMBOL	DESCRIPTION
	HI-WALL UNIT
	OUT DOOR UNIT
	OUT DOOR UNIT (VRF)
	CABINET EXHAUST FAN
	TOILET EXHAUST DUCT (TED)
	EXHAUST AIR GRILLE
	REFRIGERANT PIPE

NOTE:-
1. CONDENSATE DRAIN FOR INDIVIDUAL IDUs TO BE ROUTED TO NEAREST DRAIN POINT.

TERRACE FLOOR PLAN

NOTES:

- All dimensions are in mm and are indicative. The dimensions are to be read and not scaled or measured from the drawings.
- This drawing is indicative and meant for the purposes of illustration and reference. Further detailed design, sizing, routing, selection of material of construction (MOC), supply, laying, testing and commissioning complete shall be in accordance to appropriate Indian Standards and codes as defined in latest national building code (NBC 2016) and in coordination with Civil and Architectural designs, employer's requirements and further site specific detailing shall be completed in a detailed engineering manner by the design and built contractor for site specific use and operability. This includes coordination with all other design guides, specifications, standards and any relevant regulatory / statutory approval requirements.
- The Size, type, MOC and accessories of the various pipes shown in the drawing are minimum requirements and the Package 4 Design and Built Contractor shall be responsible to verify and implement strictly as per appropriate IS codes and NBC 2016 or latest guidelines.
- Drawings have been optimized for colour printing. This drawing shall not be referred for Structural details.
- The Package 4 Design & Build Contractor shall propose the plumbing work design philosophy as per Latest NBC guidelines as specified in Client's requirements / Technical Specifications and same shall be mandatory.
- Package 4 Design and Built Contractor shall detailed all necessary calculations, verify the requirements as per the Statutory Norms, latest design Standards in accordance to latest NBC guidelines, Indian Standards, statutory compliances and according to the Employer's requirement all in coordination with Architectural and Civil works and all Mechanical, Electrical and PHE services. Detailed coordinated Construction drawings (Plan and Sectional drawing) shall be submitted to Employer's approval before construction along with necessary and relevant Technical submissions.
- The Submission of Detailed drawings shall however not relieve Package 4 Design and Built Contractor of any Design & Built obligations as and shall be responsible for desired and appropriate functionality, operability, quantity etc;
- All Civil Shafts shown (Locations and Size) in the drawings are indicative and may also be extended on other floors and terrace Level in coordination with Architectural and Civil Works.



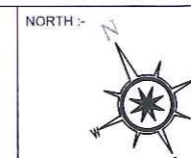
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APPROVED BY		



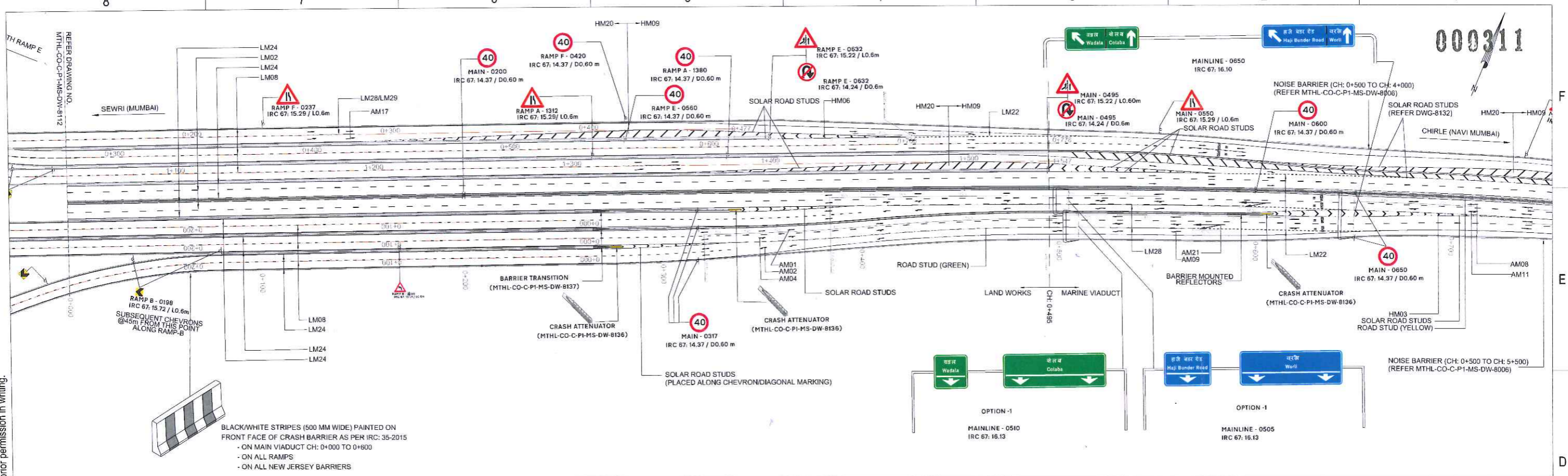
PROJECT :-
MUMBAI TRANS HARBOUR LINK PROJECT
PACKAGE 4 - TENDER DRAWING



TITLE :-
TERRACE FLOOR PLAN HVAC LAYOUT
OF MAIN ADMIN. AND COMMAND CONTROL CENTER
AT GAVHAN

DATE	DRAWING NO.	PAPER SIZE	REV.
06.10.2021	P4 - HVAC - 008	A3	1

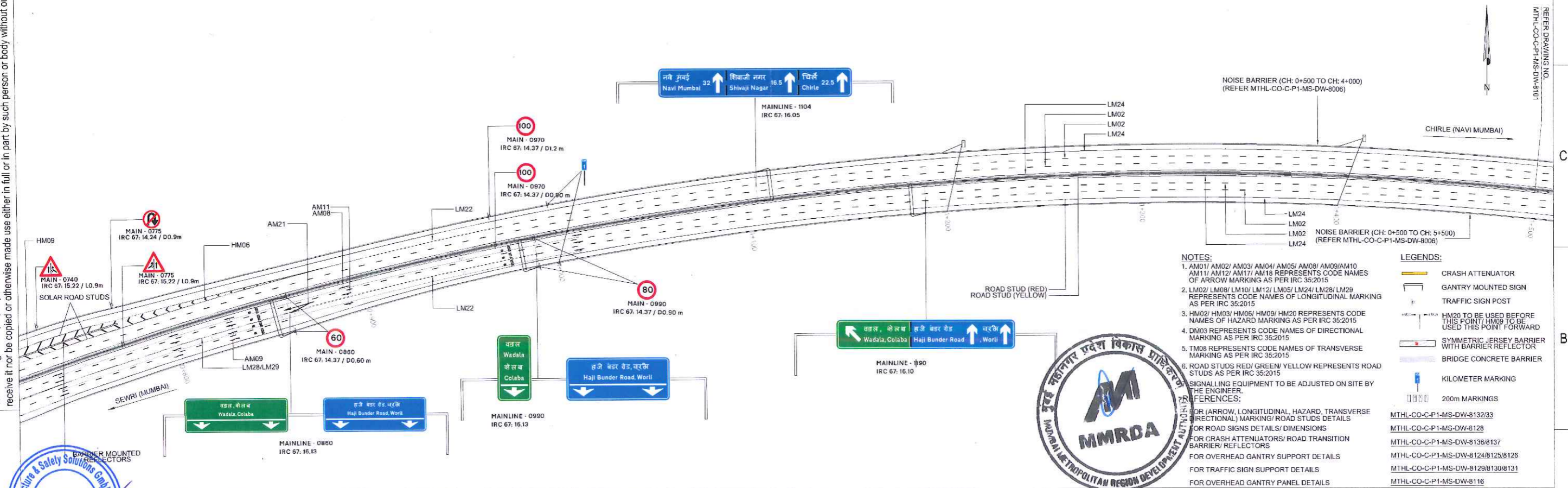
000311



BLACK/WHITE STRIPES (500 MM WIDE) PAINTED ON FRONT FACE OF CRASH BARRIER AS PER IRC: 35-2015

- ON MAIN VIADUCT CH: 0+000 TO 0+600
- ON ALL RAMPS
- ON ALL NEW JERSEY BARRIERS

This drawing is the property of L&T-IHI Consortium and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use either in full or in part by such person or body without our prior permission in writing.



- NOTES:**
- AM01/AM02/AM03/AM04/AM05/AM08/AM09/AM10/AM11/AM12/AM17/AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
 - LM02/LM08/LM10/LM12/LM05/LM24/LM28/LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM02/HM03/HM06/HM09/HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - DM03 REPRESENTS CODE NAMES OF DIRECTIONAL MARKING AS PER IRC 35:2015
 - TM08 REPRESENTS CODE NAMES OF TRANSVERSE MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
- LEGENDS:**
- CRASH ATTENUATOR
 - GANTRY MOUNTED SIGN
 - TRAFFIC SIGN POST
 - HM20 TO BE USED BEFORE THIS POINT/ HM09 TO BE USED THIS POINT FORWARD
 - SYMMETRIC JERSEY BARRIER WITH BARRIER REFLECTOR
 - BRIDGE CONCRETE BARRIER
 - KILOMETER MARKING
 - 200m MARKINGS
- REFERENCES:**
- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE (DIRECTIONAL) MARKING/ ROAD STUDS DETAILS
 - MTHL-CO-C-P1-MS-DW-8128
 - FOR ROAD SIGNS DETAILS/ DIMENSIONS
 - MTHL-CO-C-P1-MS-DW-8138/8137
 - MTHL-CO-C-P1-MS-DW-8124/8125/8126
 - FOR CRASH ATTENUATORS/ ROAD TRANSITION BARRIER/ REFLECTORS
 - MTHL-CO-C-P1-MS-DW-8129/8130/8131
 - FOR OVERHEAD GANTRY SUPPORT DETAILS
 - FOR TRAFFIC SIGN SUPPORT DETAILS
 - FOR OVERHEAD GANTRY PANEL DETAILS
 - MTHL-CO-C-P1-MS-DW-8116

1.00	FOR APPROVAL	2020-02-05	AHNA	AHNA	RFPD	LLN
REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
8						
7						

DESIGNER: COWI

CONTRACTOR: LARSEN & TOUBRO

IDC: SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES

GC: AECOM

CLIENT: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

SIGN: ИНСТИТУТ ГИПРОСТРОЙМОСТ

SIGN: NIPPON ENGINEERING CONSULTANTS CO., LTD.

SIGN: MMRDA

PROJECT: MUMBAI TRANS HARBOUR LINK

TITLE: SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 0+000 TO 1+500

SCALE: 1:1000

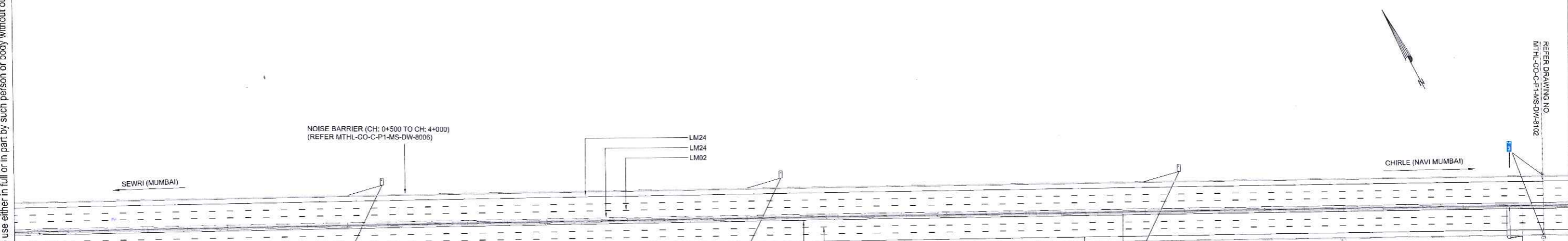
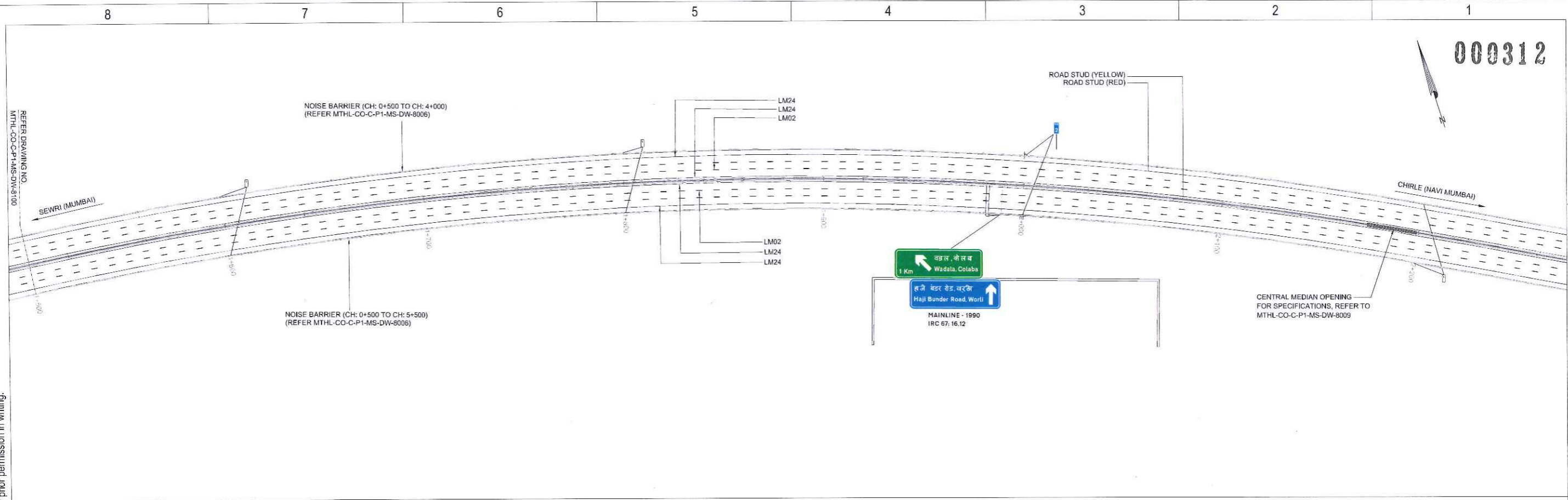
STAGE: TECHNICAL DESIGN

DATE: 2020-02-05 **REV.:** 1.00

DRAWING No. MTHL - CO - C - P 1 - M S - D W - 8 1 0 0 **SHEET 1 OF 1**

C:\work\mumbai\2020\mthl-co-c-p1-ms-dw-8116.dwg 03/04/20 10:22 AM

000312



NOTES:

- AM01/ AM02/ AM03/ AM04/ AM05/ AM06/ AM09/AM10 AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
- LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
- HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
- DM03 REPRESENTS CODE NAMES OF DIRECTIONAL MARKING AS PER IRC 35:2015
- TM08 REPRESENTS CODE NAMES OF TRANSVERSE MARKING AS PER IRC 35:2015
- ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
- SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.

LEGENDS:

- CRASH ATTENUATOR
- GANTRY MOUNTED SIGN
- TRAFFIC SIGN POST
- BRIDGE CONCRETE BARRIER
- KILOMETER MARKING
- 200m MARKINGS

REFERENCES:

- FOR (ARROW) LONGITUDINAL HAZARD TRANSVERSE DIRECTIONAL MARKING/ ROAD STUDS DETAILS MTHL-CO-C-P1-MS-DW-8132/33
- FOR ROAD SIGNS DETAILS/ DIMENSIONS MTHL-CO-C-P1-MS-DW-8128
- FOR CRASH ATTENUATORS/ ROAD TRANSITION BARRIER/ REFLECTORS MTHL-CO-C-P1-MS-DW-8136/8137
- FOR OVERHEAD GANTRY SUPPORT DETAILS MTHL-CO-C-P1-MS-DW-8124/8125/8126
- FOR TRAFFIC SIGN SUPPORT DETAILS MTHL-CO-C-P1-MS-DW-8129/8130/8131
- FOR OVERHEAD GANTRY PANEL DETAILS MTHL-CO-C-P1-MS-DW-8116

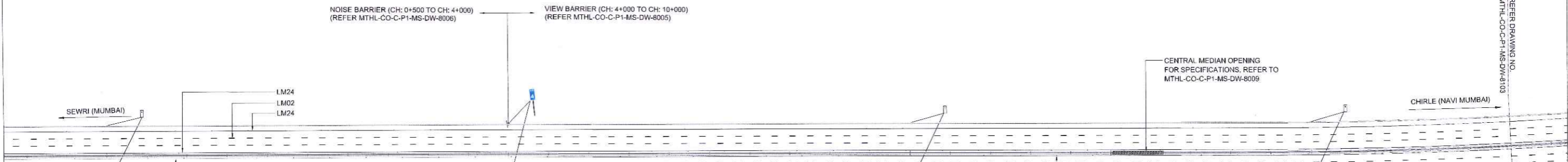
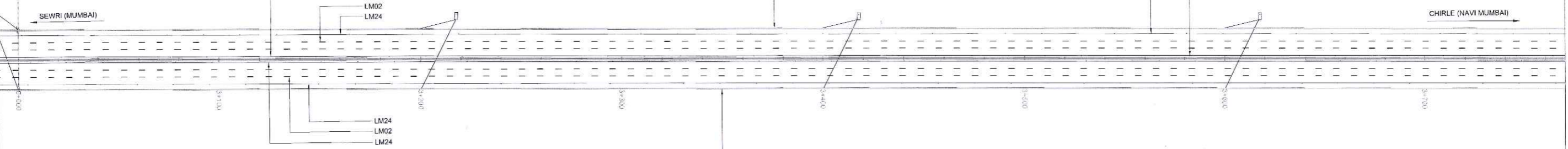
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<p>DESIGNER: COWI</p> <p>CONTRACTOR: LARSEN & TOUBRO</p> <p>IDC: SYSTRA</p> <p>GC: ACCOR</p> <p>CLIENT: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY</p>							<p>PROJECT: MUMBAI TRANS HARBOUR LINK</p> <p>TITLE: SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 1+500 TO 3+000</p>		<p>SCALE: 1:1000</p> <p>STAGE: TECHNICAL DESIGN</p> <p>DATE: 2019-12-16 REV.: 1.00</p>	
<p>1.00 FOR APPROVAL</p> <p>2019-12-16 AHNA AHNA RFPD LLN</p>							<p>DRAWING No. MTHL - CO - C - P 1 - M S - D W - 8 1 0 1</p> <p>SHEET 1 OF 1</p>			

000313

REFER DRAWING NO.
MTHL-CO-C-P1-MS-DW-8101



NOTES:

- AM01/ AM02/ AM03/ AM04/ AM05/ AM06/ AM09/AM10
AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES
OF ARROW MARKING AS PER IRC 35:2015
- LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29
REPRESENTS CODE NAMES OF LONGITUDINAL MARKING
AS PER IRC 35:2015
- HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE
NAMES OF HAZARD MARKING AS PER IRC 35:2015
- ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD
STUDS AS PER IRC 35:2015
- SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY
THE ENGINEER.

REFERENCES:

- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE
DIRECTIONAL) MARKING/ ROAD STUDS DETAILS
FOR ROAD SIGNS DETAILS/ DIMENSIONS
- FOR TRAFFIC SIGN SUPPORT DETAILS
- FOR CENTRAL MEDIAN OPENING (MSB) SPECS

LEGENDS:

- CRASH ATTENUATOR
- GANTRY MOUNTED SIGN
- TRAFFIC SIGN POST
- BRIDGE CONCRETE BARRIER
- KILOMETER MARKING
- 200m MARKINGS



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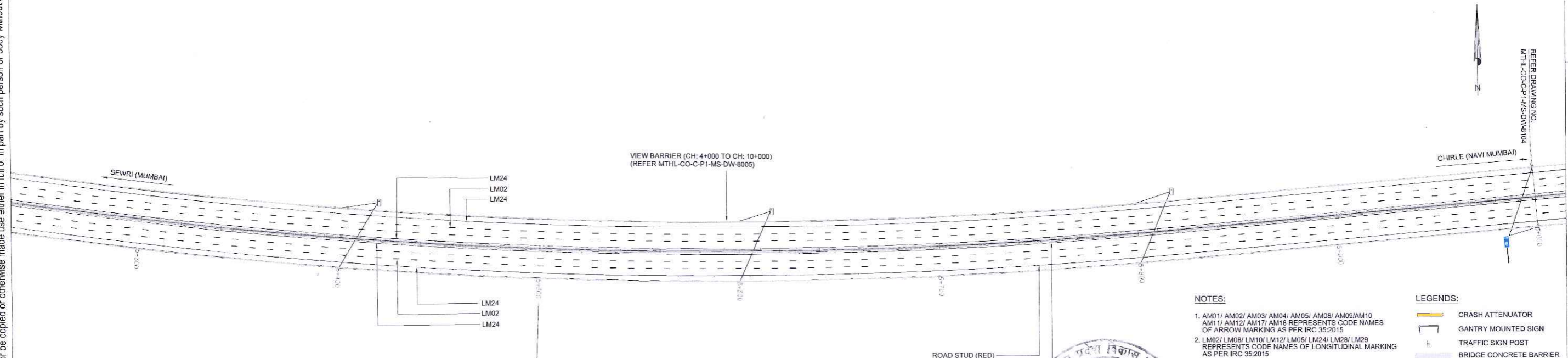
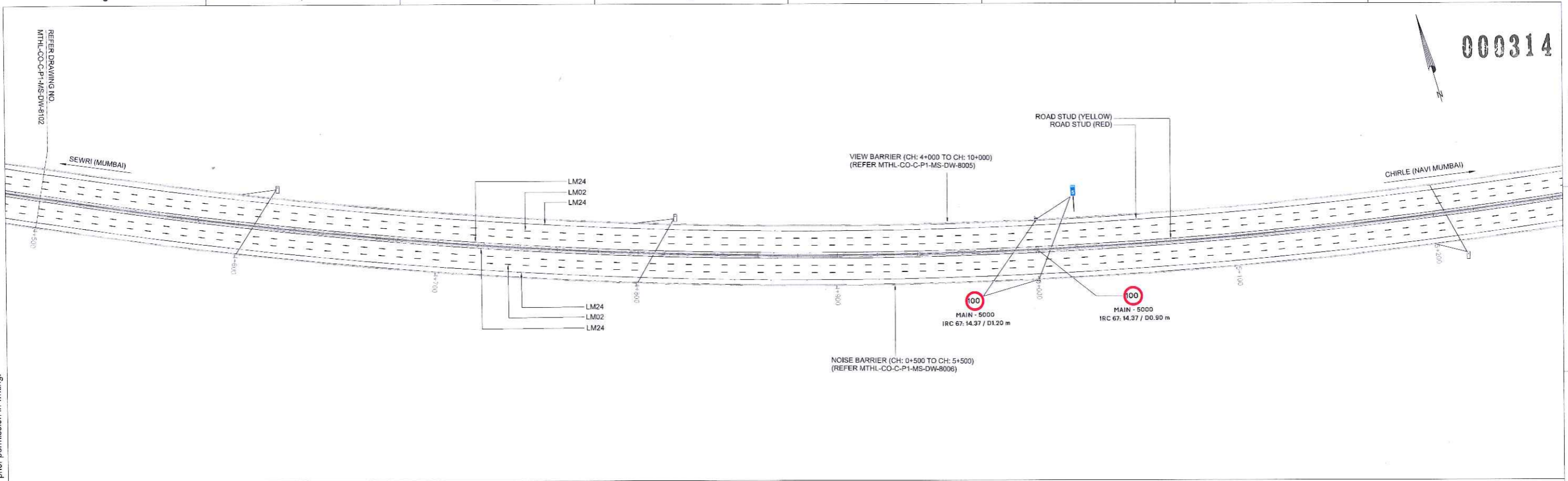
1.00	FOR APPROVAL	2019-12-16	AHNA	AHNA	RFPD	LLN
REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED

DESIGNER: 	CONTRACTOR: 	IDC: 	GC: 	CLIENT:
SIGN:				

PROJECT:	MUMBAI TRANS HARBOUR LINK
TITLE:	SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 3+000 TO 4+500
SCALE:	1:1000
STAGE:	TECHNICAL DESIGN
DATE:	2019-12-16
REV.:	1.00
DRAWING No.	MTHL - CO - C - P 1 - M S - D W - 8 1 0 2
SHEET	1 OF 1

000314

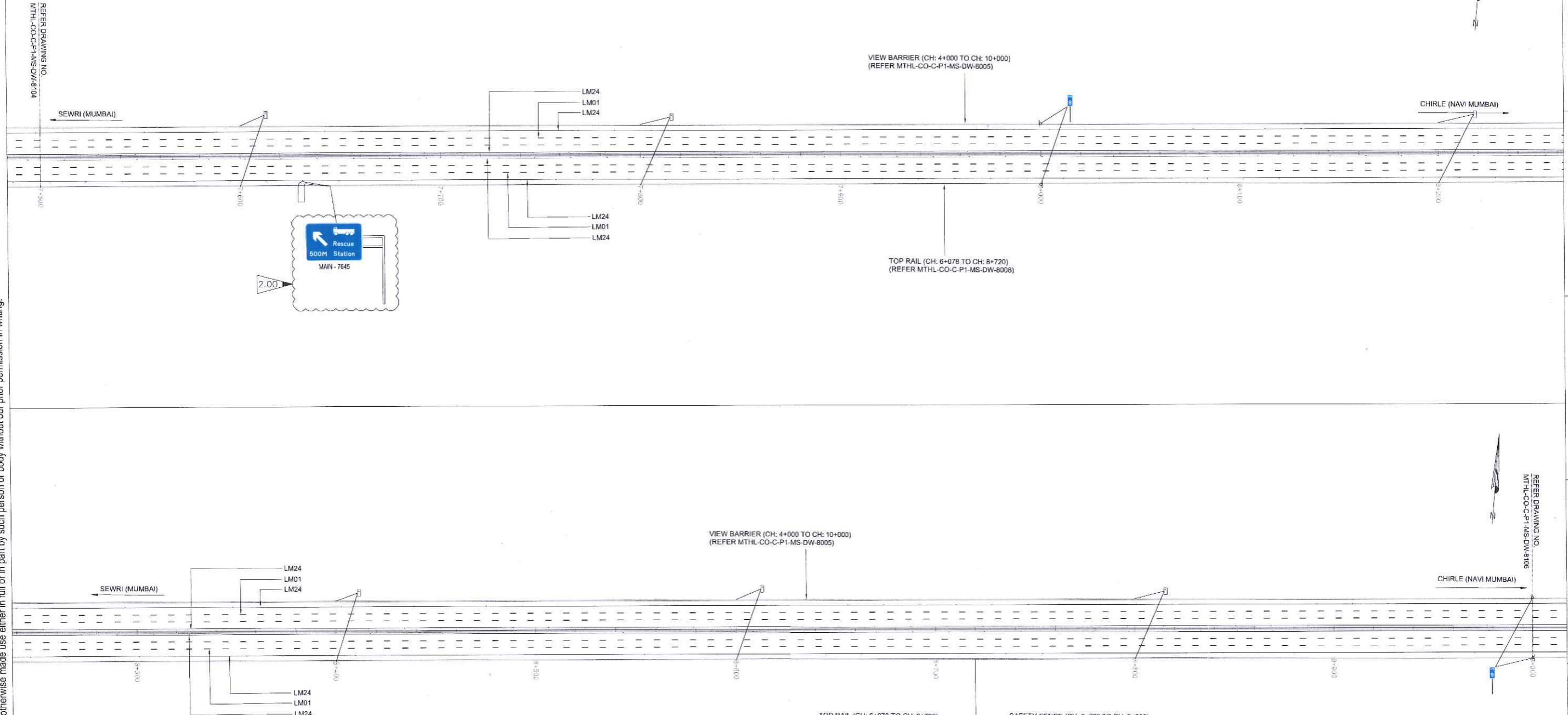
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- NOTES:**
- AM01/ AM02/ AM03/ AM04/ AM05/ AM08/ AM09/AM10/ AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
 - LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
 - SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.
- REFERENCES:**
- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE DIRECTIONAL) MARKING/ ROAD STUDS DETAILS MTHL-CO-C-P1-MS-DW-8132/33
 - FOR ROAD SIGNS DETAILS/ DIMENSIONS MTHL-CO-C-P1-MS-DW-8128
 - FOR TRAFFIC SIGN SUPPORT DETAILS MTHL-CO-C-P1-MS-DW-8129/8130/8131
- LEGENDS:**
- CRASH ATTENUATOR
 - GANTRY MOUNTED SIGN
 - TRAFFIC SIGN POST
 - BRIDGE CONCRETE BARRIER
 - KILOMETER MARKING
 - 200m MARKINGS

DESIGNER: COWI ИНСТИТУТ ГИПРОСТРОЙМОСТ		CONTRACTOR: LARSEN & TOUBRO IHI		IDC: SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES NIPPON ENGINEERING CONSULTANTS CO., LTD.	GC: ACOM PROCO TALM General Consultant for Mumbai Ferry Harbour Link Project	CLIENT: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY	PROJECT: MUMBAI TRANS HARBOUR LINK	SCALE: 1:1000
SIGN.:		SIGN.:		SIGN.:		TITLE: SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 4+500 to 6+000		STAGE: TECHNICAL DESIGN
1.00 FOR APPROVAL	2019-12-16	AHNA	AHNA	RFPD	LLN	DATE: 2019-12-16		REV.: 1.00
REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED	DRAWING No. MTHL - CO - C - P 1 - M S - D W - 8 1 0 3	SHEET 1 OF 1

000316



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- LEGENDS:**
- CRASH ATTENUATOR
 - CANTILEVER MOUNTED SIGN
 - GANTRY MOUNTED SIGN
 - TRAFFIC SIGN POST
 - BRIDGE CONCRETE BARRIER
 - KILOMETER MARKING
 - 200m MARKINGS
- NOTES:**
- AM01/ AM02/ AM03/ AM04/ AM05/ AM08/ AM09/ AM10/ AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
 - LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
 - SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.
- REFERENCES:**
- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE DIRECTIONAL) MARKING/ ROAD STUDS DETAILS MTHL-CO-C-P1-MS-DW-8132/33
 - FOR ROAD SIGNS DETAILS/ DIMENSIONS MTHL-CO-C-P1-MS-DW-8128
 - FOR TRAFFIC SIGN SUPPORT DETAILS MTHL-CO-C-P1-MS-DW-8129/8130/8131

REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED
2.00	FOR APPROVAL	2021-02-16	AHNA	AHNA	RFPD	JMAR
1.00	FOR APPROVAL	2019-12-16	AHNA	AHNA	RFPD	LLN

DESIGNER: 	CONTRACTOR: 	IDC: 	GC: 	CLIENT:
SIGN.:				

PROJECT:	MUMBAI TRANS HARBOUR LINK
TITLE:	SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 7+500 to 9+000
DRAWING No.	MTHL - CO - C - P 1 - M S - D W - 8 1 0 5
SCALE:	1:1000
STAGE:	TECHNICAL DESIGN
DATE:	2021-02-16
REV.:	2.00
SHEET	1 OF 1

8

7

6

5

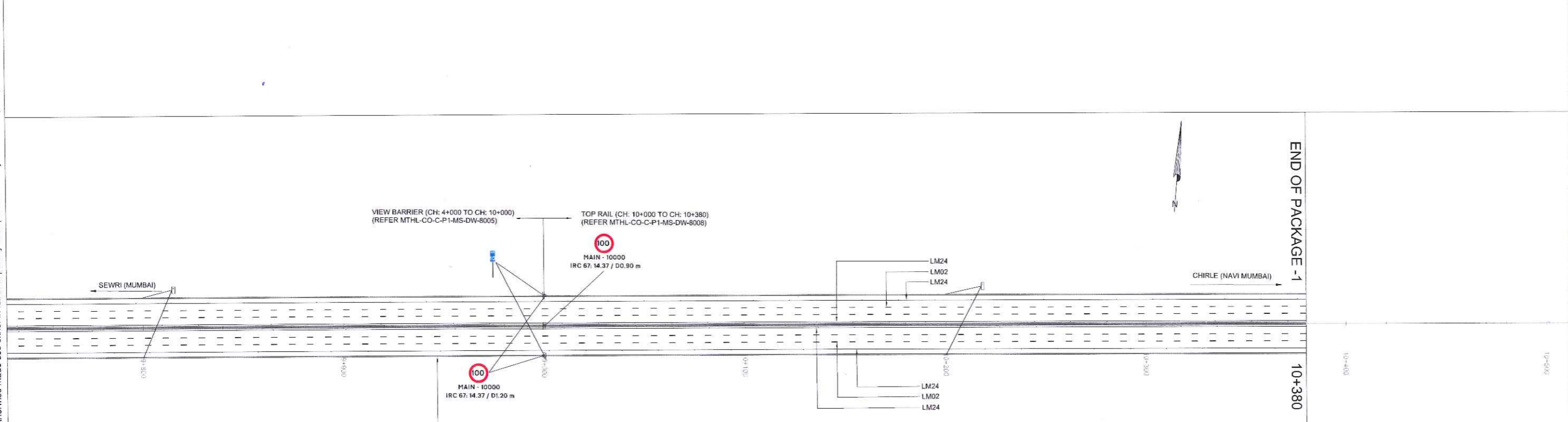
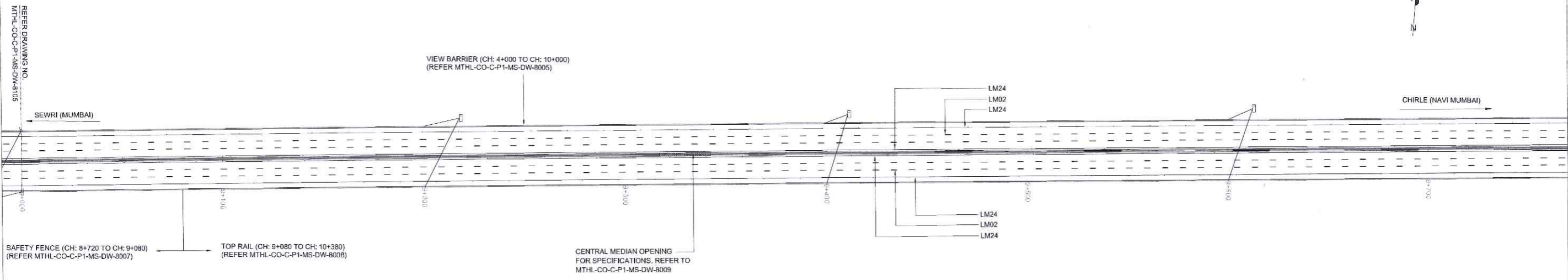
4

3

2

1

000317



END OF PACKAGE - 1
10+380

- NOTES:**
- AM01/ AM02/ AM03/ AM04/ AM05/ AM08/ AM09/AM10 AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
 - LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
 - SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.
- REFERENCES:**
- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE DIRECTIONAL) MARKING/ ROAD STUDS DETAILS MTHL-CO-C-P1-MS-DW-8132/33
 - FOR ROAD SIGNS DETAILS/ DIMENSIONS MTHL-CO-C-P1-MS-DW-8128
 - FOR TRAFFIC SIGN SUPPORT DETAILS MTHL-CO-C-P1-MS-DW-8129/8130/8131
 - FOR CENTRAL MEDIAN OPENING (MSB) SPECS MTHL-CO-C-P1-MS-DW-8009

- LEGENDS:**
- CRASH ATTENUATOR
 - GANTRY MOUNTED SIGN
 - TRAFFIC SIGN POST
 - BRIDGE CONCRETE BARRIER
 - KILOMETER MARKING
 - 200m MARKINGS

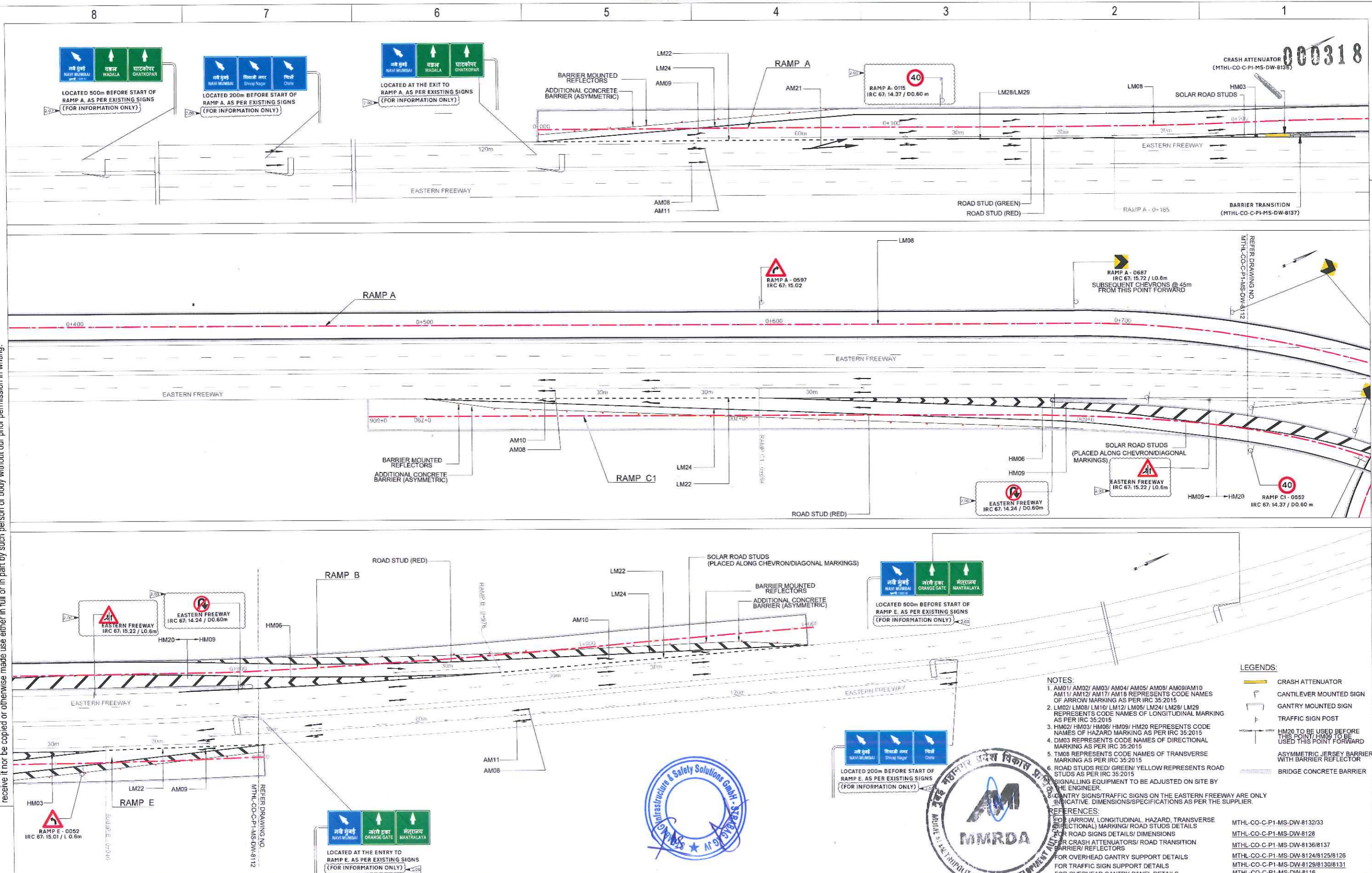


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DESIGNER: COWI ИНСТИТУТ ГИПРОСТРОЙМОСТ		CONTRACTOR: LARSEN & TOUBRO IHI		IDC: SYSTRA INTERNATIONAL BRIDGE TECHNOLOGIES NIPPON ENGINEERING CONSULTANTS CO., LTD.	GC: ACOM PERCO TILK Sewa Consultant/Inhouse/Third party/CP	CLIENT: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY	PROJECT: MUMBAI TRANS HARBOUR LINK	SCALE: 1:1000
1.00 FOR APPROVAL		2019-12-16	AHNA	AHNA	RFPD	LLN	TITLE: SIGNALLING & ROAD SAFETY EQUIPMENT MAIN CARRIAGEWAY PLAN FROM 9+000 to 10+380	STAGE: TECHNICAL DESIGN
REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED	DATE: 2019-12-16	REV.: 1.00
DRAWING No. MTHL - CO - C - P 1 - M S - D W - 8 1 0 6							SHEET 1 OF 1	

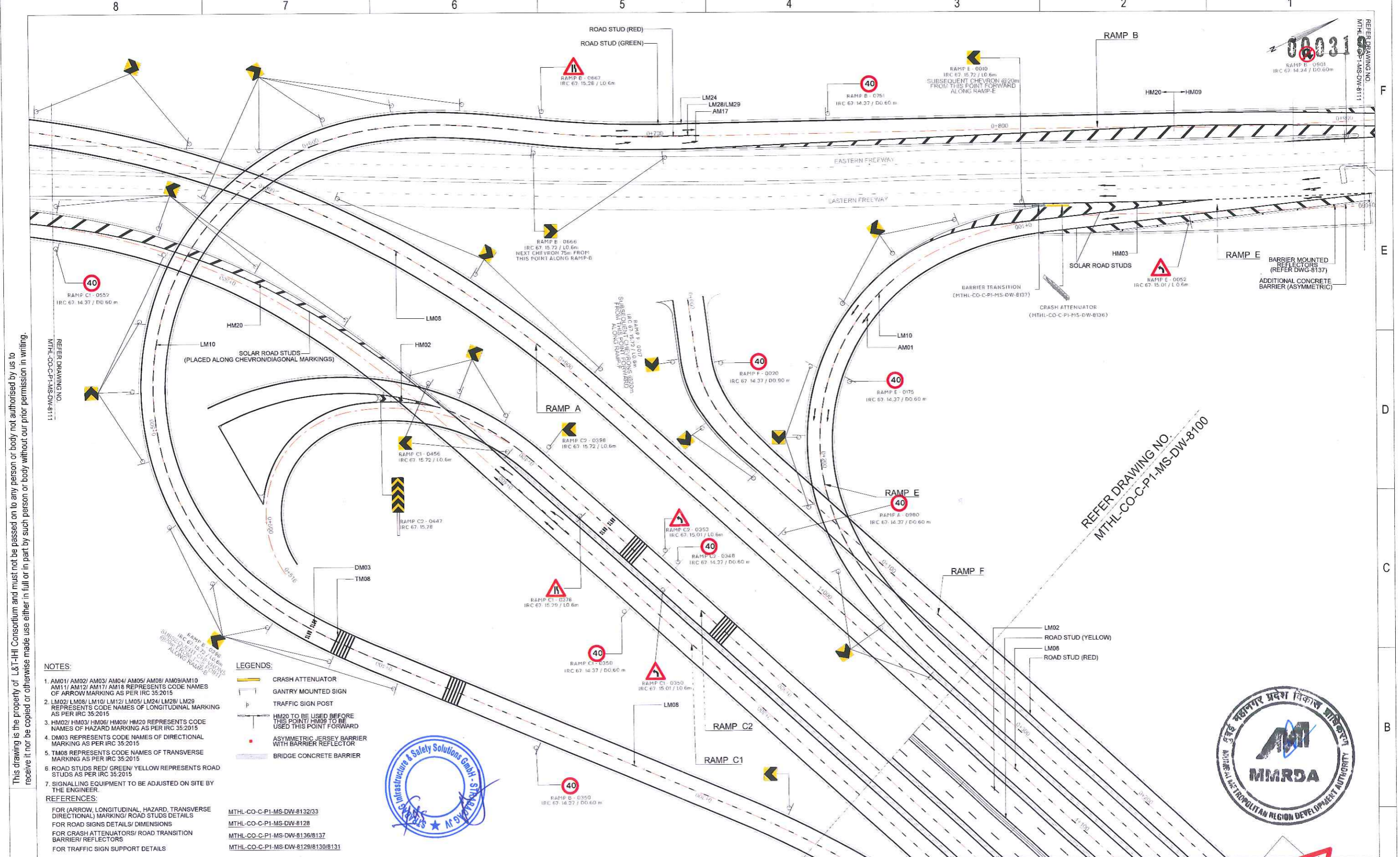
C:\pwork\mumbai\mtrd\mthl-co-c-p1-ms-dw-8106.dwg
18-Dec-19 08:27 AM
-all items lock

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- LEGENDS:**
- CRASH ATTENUATOR
 - CANTILEVER MOUNTED SIGN
 - GANTRY MOUNTED SIGN
 - TRAFFIC SIGN POST
 - HM20 TO BE USED BEFORE THIS POINT/HM09 TO BE USED THIS POINT FORWARD
 - ASYMMETRIC JERSEY BARRIER WITH BARRIER REFLECTOR
 - BRIDGE CONCRETE BARRIER
- NOTES:**
- AM01/AM02/AM03/AM04/AM05/AM08/AM09/AM10/AM11/AM12/AM17/AM18 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - LM02/LM08/LM10/LM12/LM05/LM24/LM28/LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM02/HM03/HM06/HM09/HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
 - DM03 REPRESENTS CODE NAMES OF DIRECTIONAL MARKING AS PER IRC 35:2015
 - TM08 REPRESENTS CODE NAMES OF TRANSVERSE MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
 - SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.
 - GANTRY SIGNS/TRAFFIC SIGNS ON THE EASTERN FREEWAY ARE ONLY INDICATIVE. DIMENSIONS/SPECIFICATIONS AS PER THE SUPPLIER.
- REFERENCES:**
- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE, DIRECTIONAL) MARKING/ ROAD STUDS DETAILS
 - FOR ROAD SIGNS DETAILS/ DIMENSIONS
 - FOR CRASH ATTENUATORS/ ROAD TRANSITION BARRIER/ REFLECTORS
 - FOR OVERHEAD GANTRY SUPPORT DETAILS
 - FOR TRAFFIC SIGN SUPPORT DETAILS
 - FOR OVERHEAD GANTRY PANEL DETAILS

DESIGNER:		CONTRACTOR:		IDC:	GC:	CLIENT:	PROJECT:	MUMBAI TRANS HARBOUR LINK		SCALE: 1:500
COWI		LARSEN & TOUBRO		SYSTRA	ACCION	Mumbai Metropolitan Region Development Authority	MUMBAI TRANS HARBOUR LINK			
ИИСТИТУТ ГИПРОСТРОЙМОСТ		IHI		NIPPON ENGINEERING CONSULTANTS CO., LTD.			SIGNALLING & ROAD SAFETY EQUIPMENT SEWRI INTERCHANGE GENERAL PLAN 1 OF 2		STAGE: TECHNICAL DESIGN	
SIGN.:		SIGN.:		SIGN.:	SIGN.:	MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY	DRAWING No. MTHL - CO - C - P 1 - M S - D W - 8 1 1 1		DATE: 2021-02-16	REV.: 2.00
REV		DESCRIPTION		DATE	DESIGNED	DRAWN	CHECKED	APPROVED	SHEET 1 OF 1	
2.00	FOR APPROVAL	2021-02-16	AHNA	AHNA	RFPD	LLN				
1.00	FOR APPROVAL	2020-02-05	AHNA	AHNA	RFPD	LLN				



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NOTES:

- AM01/ AM02/ AM03/ AM04/ AM05/ AM08/ AM09/ AM10/ AM11/ AM12/ AM17/ AM18 REPRESENTS CODE NAMES OF ARROW MARKING AS PER IRC 35:2015
- LM02/ LM08/ LM10/ LM12/ LM05/ LM24/ LM28/ LM29 REPRESENTS CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
- HM02/ HM03/ HM06/ HM09/ HM20 REPRESENTS CODE NAMES OF HAZARD MARKING AS PER IRC 35:2015
- DM03 REPRESENTS CODE NAMES OF DIRECTIONAL MARKING AS PER IRC 35:2015
- TM08 REPRESENTS CODE NAMES OF TRANSVERSE MARKING AS PER IRC 35:2015
- ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015
- SIGNALLING EQUIPMENT TO BE ADJUSTED ON SITE BY THE ENGINEER.

LEGENDS:

- CRASH ATTENUATOR
- GANTRY MOUNTED SIGN
- TRAFFIC SIGN POST
- HM20 TO BE USED BEFORE THIS POINT/ HM09 TO BE USED THIS POINT FORWARD
- ASYMMETRIC JERSEY BARRIER WITH BARRIER REFLECTOR
- BRIDGE CONCRETE BARRIER

REFERENCES:

- FOR (ARROW, LONGITUDINAL, HAZARD, TRANSVERSE, DIRECTIONAL) MARKING/ ROAD STUDS DETAILS: MTHL-CO-C-P1-MS-DW-8132/33
- FOR ROAD SIGNS DETAILS/ DIMENSIONS: MTHL-CO-C-P1-MS-DW-8128
- FOR CRASH ATTENUATORS/ ROAD TRANSITION BARRIER/ REFLECTORS: MTHL-CO-C-P1-MS-DW-8136/8137
- FOR TRAFFIC SIGN SUPPORT DETAILS: MTHL-CO-C-P1-MS-DW-8129/8130/8131



1.00	FOR APPROVAL	2020-02-27	AHNA	AHNA	RFPD	LLN
REV	DESCRIPTION	DATE	DESIGNED	DRAWN	CHECKED	APPROVED

DESIGNER: 	CONTRACTOR: 	IDC: 	GC: 	CLIENT: 	PROJECT: MUMBAI TRANS HARBOUR LINK TITLE: SIGNALLING & ROAD SAFETY EQUIPMENT SEWRI INTERCHANGE GENERAL PLAN 2 OF 2	SCALE: 1:500 STAGE: TECHNICAL DESIGN DATE: 2020-02-27 REV.: 1.00
DRAWING No. MTHL - CO - C - P 1 - MS - DW - 8 1 1 2 SHEET 1 OF 1						

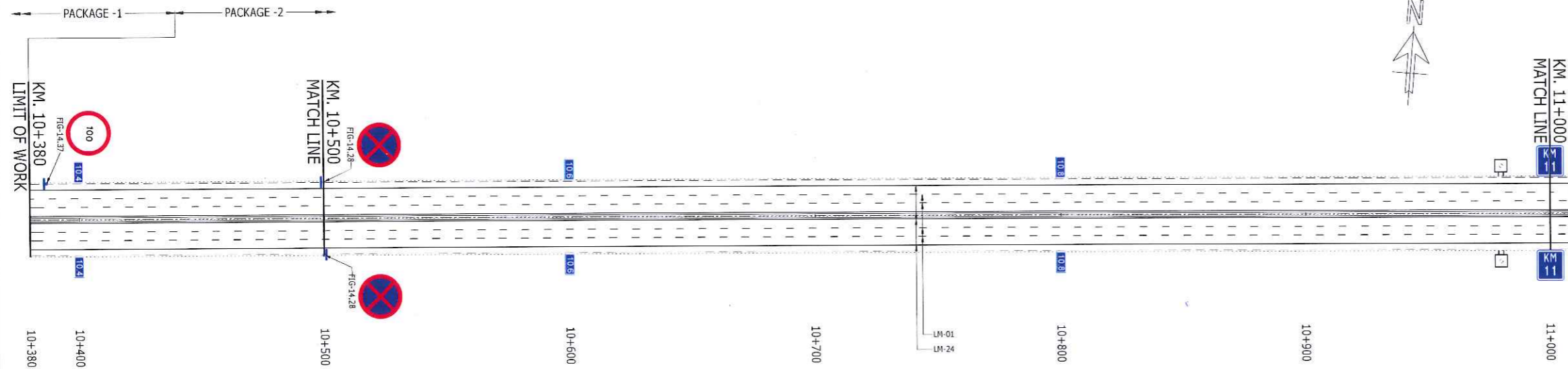
← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →

NOTES

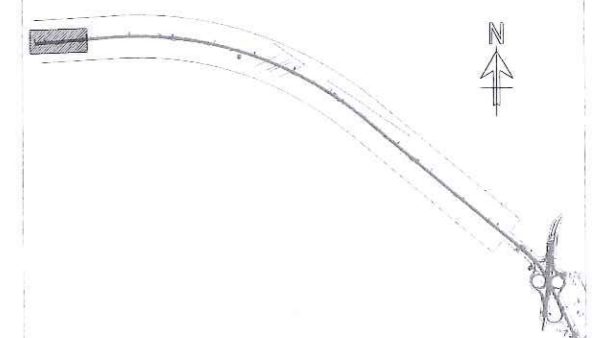
- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
- TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.

000320



PLAN
SCALE 1:1000

LEGEND:



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CD	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
T0	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 10+380 TO KM. 11+000		
Drawn: N. Barmis	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0250	Status: CONSTRUCTION	Revision: CO



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.



General consultant:
AECOM **PADECO**
TYLIN
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C **TATA PROJECTS**
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT. LTD.
LEVEL -17, TOWER-B, BUILDING NO. 6 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

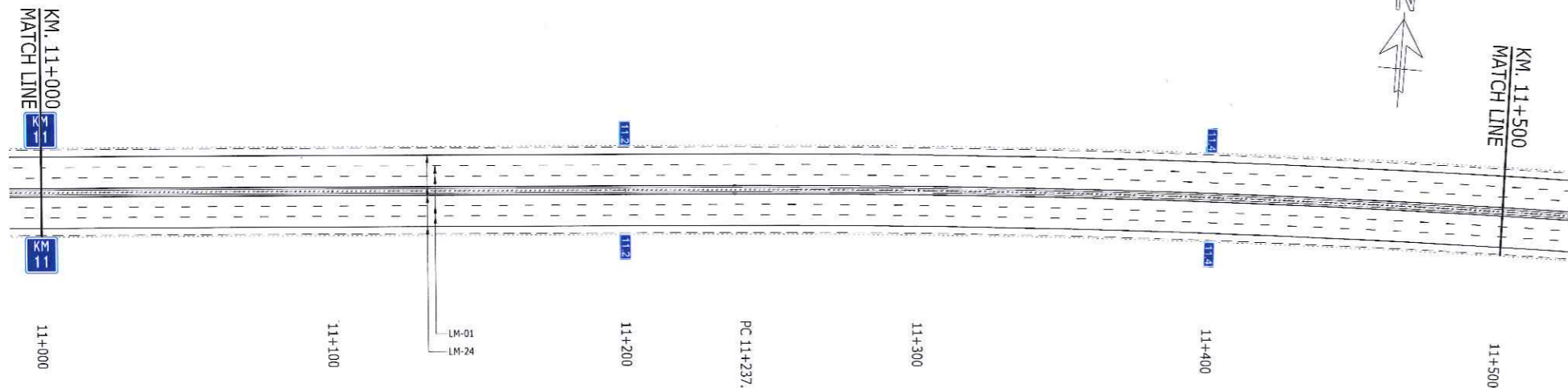
← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →

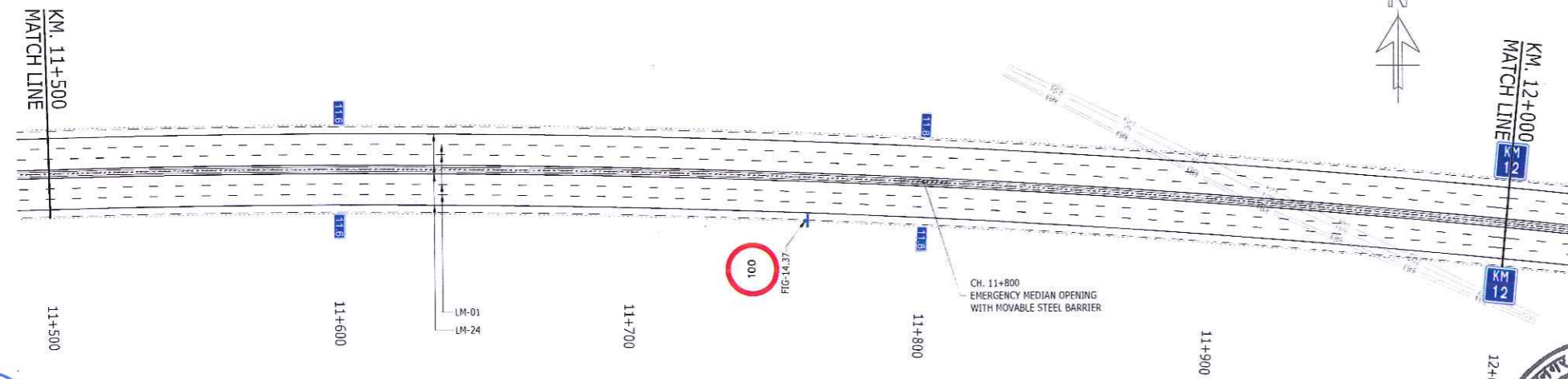
NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
- TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF EMERGENCY MEDIAN OPENING REFER DRAWING NOS. HX-00-0312.

000321

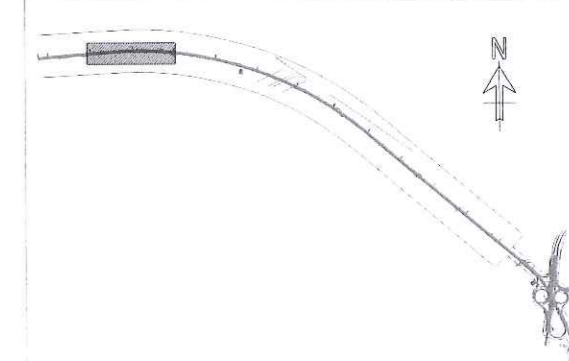


PLAN
SCALE 1:1000



PLAN
SCALE 1:1000

LEGEND:



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 11+000 TO KM. 12+000			
Drawn: N. BARRIS	Date: MAR, 2019	Scale (of A1): 1:1000	
Drawing No: HX-ML-0251	Status: CONSTRUCTION	Revision: CO	



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

General consultant:
AECOM **PADECC**
TYLIN

EPC Contractor:
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

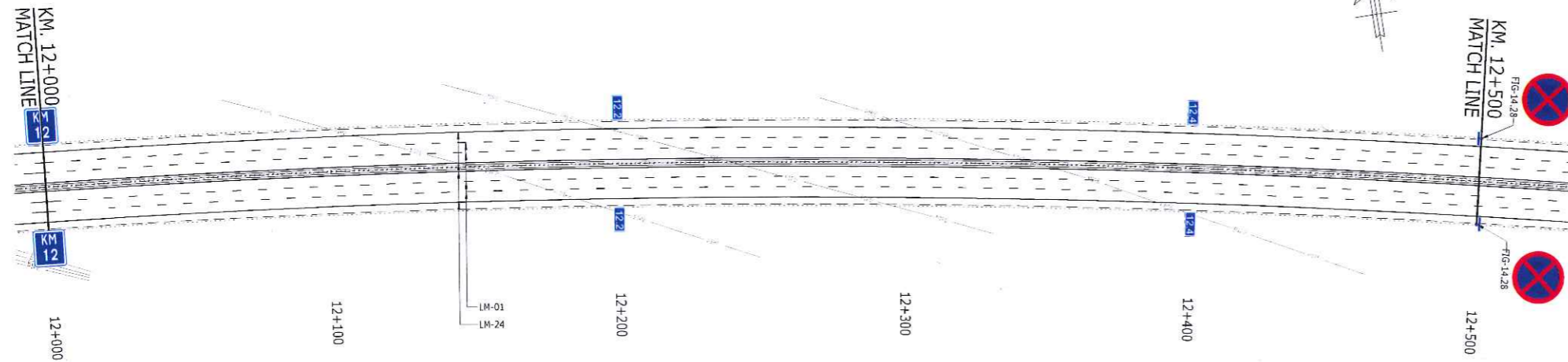
Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611993

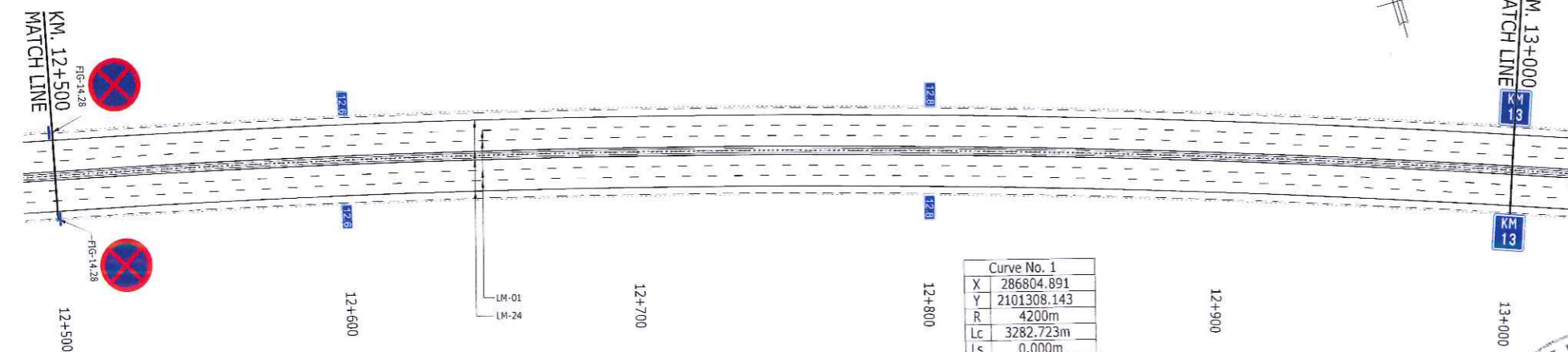
Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →



PLAN
SCALE 1:1000



Curve No. 1	
X	286804.891
Y	2101308.143
R	4200m
Lc	3282.723m
Ls	0.000m
D	44° 46' 56.742"
Es	342.483m
e	NC
V	100kmph

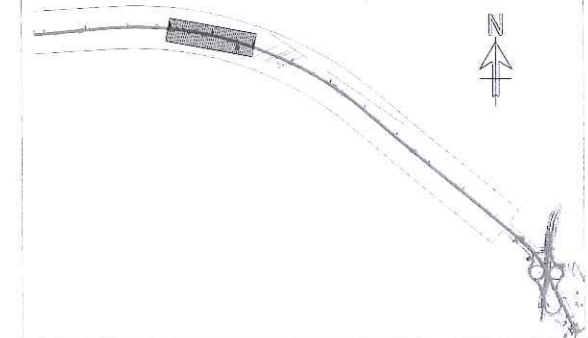
NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.

000322

LEGEND:

SIGN BOARD	200m MARKER	KILOMETRE MARKER
STUD	SAFETY FENCE	CRASH CUSHION
CHEVRON	NOISE BARRIER	CONCRETE CRASH BARRIER
SUBSTATION PLATFORM		



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.08.20	AGA	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title:		
ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 12+000 TO KM. 13+000		
Drawn: N. Barnis	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0252	Status: CONSTRUCTION	Revision: CO



Client:
MUMBAI METROPOLITAN REGION
DEVELOPMENT AUTHORITY

2ND FLOOR, NEW OFFICE BUILDING, PLOT NO.
R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA
COMPLEX, BANDRA (E), MUMBAI-400051.



General consultant:



A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR,
NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:



DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK,
TECHNOLOGY STREET, POWAI, MUMBAI-400076.

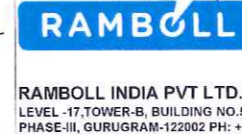
PLAN
SCALE 1:1000

Independent Design Consultant:



WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS
DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM,
HARYANA - 122002

Design Consultant:



RAMBOLL INDIA PVT. LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY,
PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:

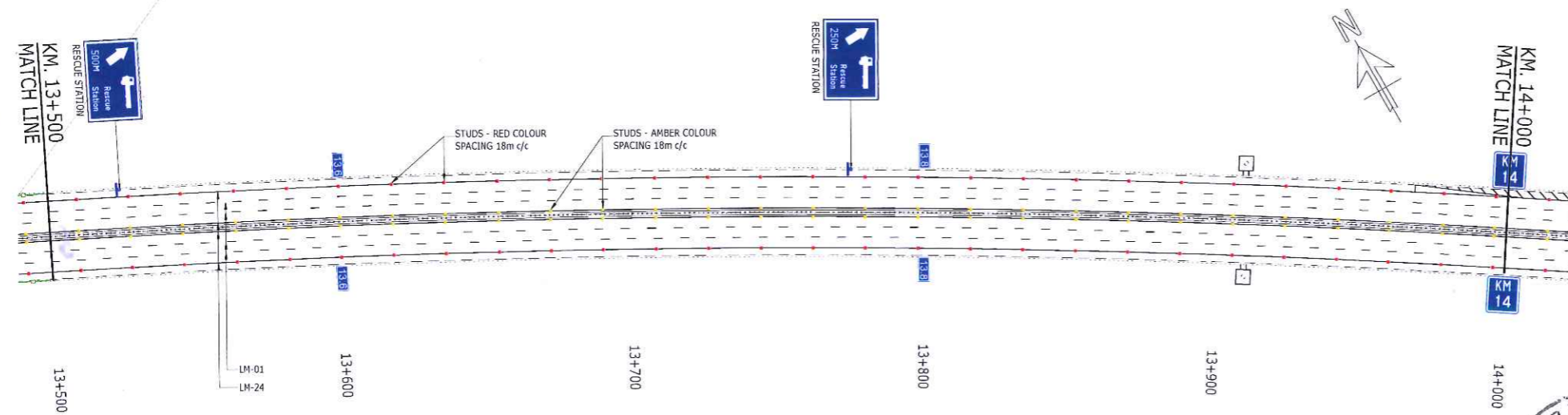
MUMBAI TRANS HARBOUR LINK PROJECT
(PACKAGE-2) (CONSTRUCTION OF A 7.807 KM
LONG BRIDGE SECTION (CH:10+380-CH:18+187)
ACROSS THE MUMBAI BAY INCLUDING
SHIVAJI NAGAR INTERCHANGE)

← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →



PLAN
SCALE 1:1000

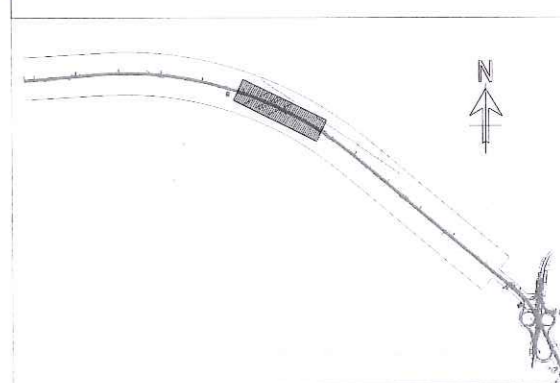


PLAN
SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF SAFETY FENCE REFER DRAWING NOS. HX-00-0313.

LEGEND:



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T2	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
T0	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 13+000 TO KM. 14+000		
Drawn: N.Barris	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0253	Status: CONSTRUCTION	Revision: C0



Client:
MUMBAI METROPOLITAN REGION
DEVELOPMENT AUTHORITY

2ND FLOOR, NEW OFFICE BUILDING, PLOT NO.
R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA
COMPLEX, BANDRA (E), MUMBAI-400061.



General consultant:
AECOM PARSONS
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR,
NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
TATA PROJECTS
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK,
TECHNOLOGY STREET, POWAI, MUMBAI-400076.

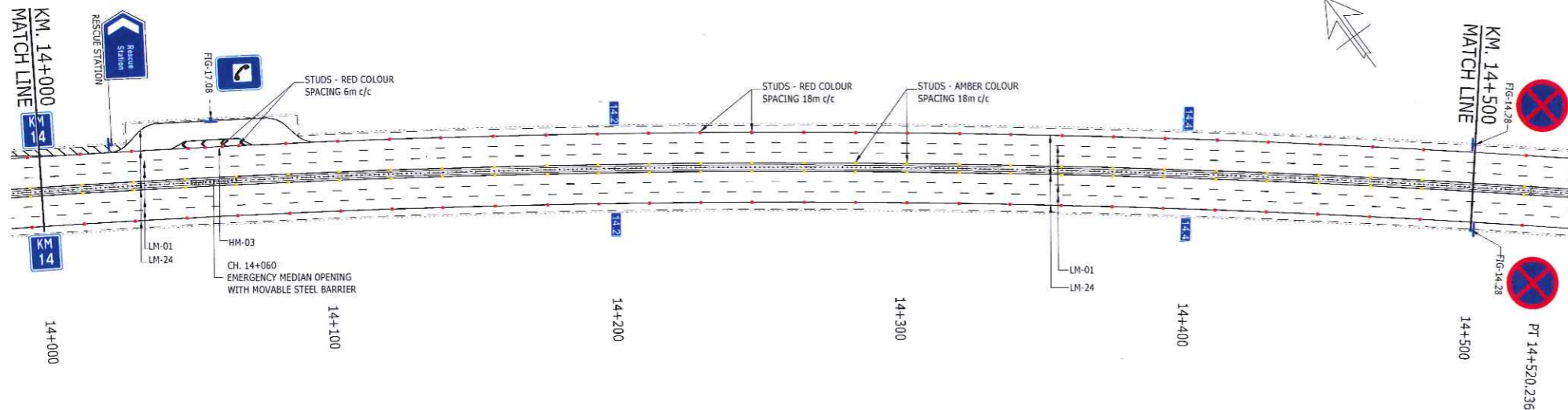
Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS
DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM,
HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.6 DLF CYBER CITY,
PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

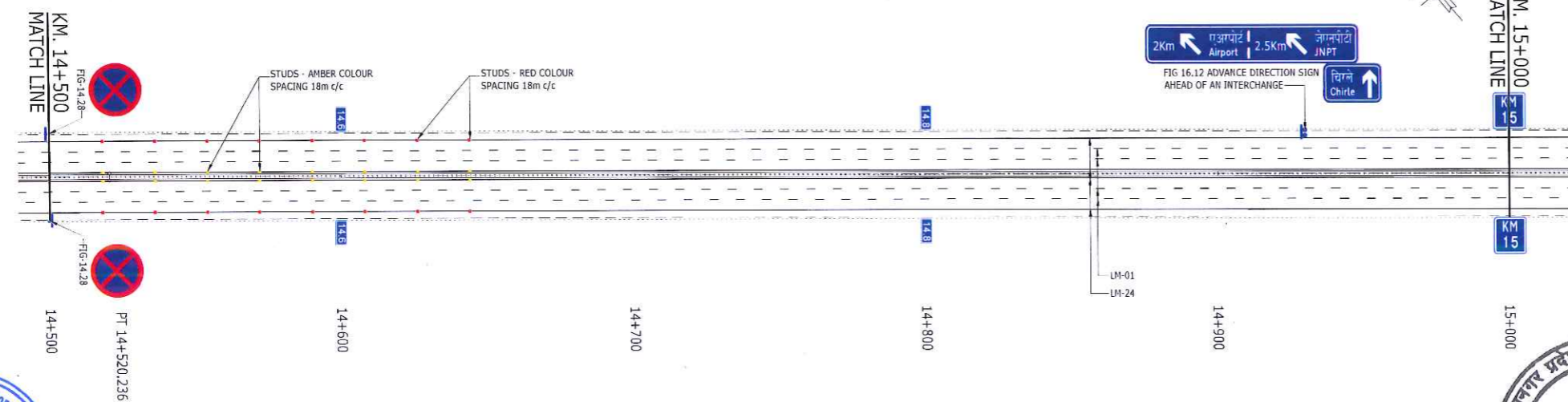
Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT
(PACKAGE-2) (CONSTRUCTION OF A 7.807 KM
LONG BRIDGE SECTION (CH:10+380-CH:18+187)
ACROSS THE MUMBAI BAY INCLUDING
SHIVAJI NAGAR INTERCHANGE)

← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →



PLAN
SCALE 1:1000

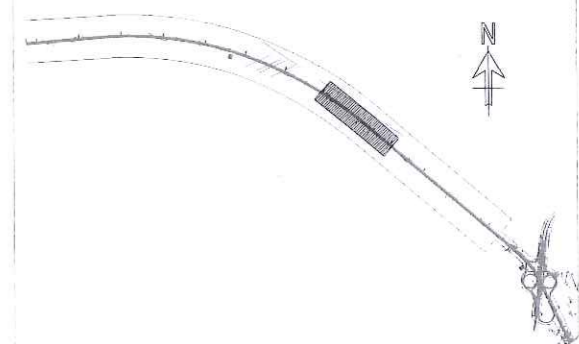


PLAN
SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF EMERGENCY MEDIAN OPENING REFER DRAWING NOS. HX-00-0312.

LEGEND:



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
TI	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TD	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 14+000 TO KM. 15+000			
Drawn: N. Barnis	Date: MAR, 2019	Scale (of A1): 1:1000	
Drawing No.: HX-ML-0254	Status: CONSTRUCTION	Revision: C0	



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:
AECOM
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
TATA PROJECTS
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

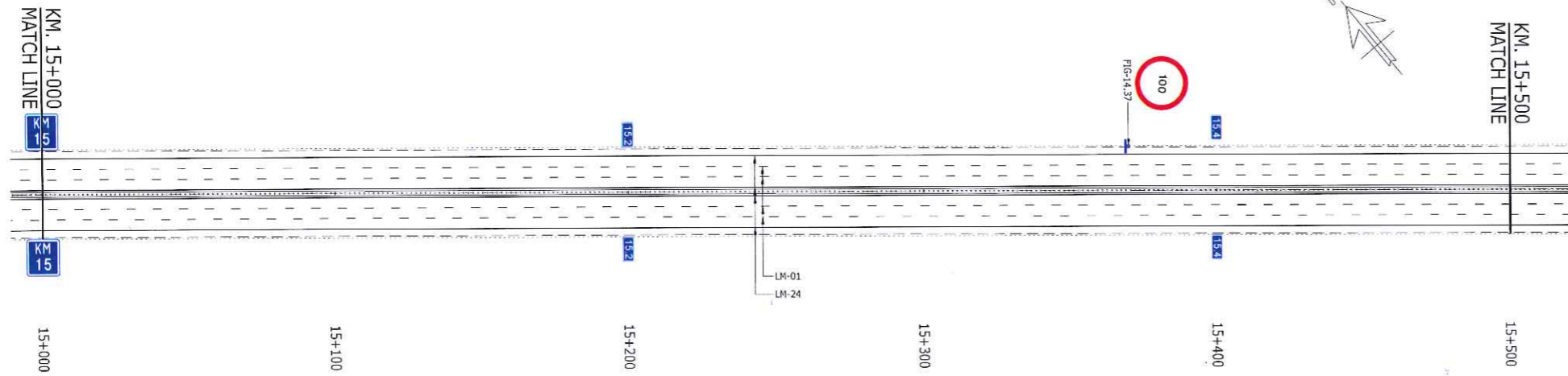
← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →

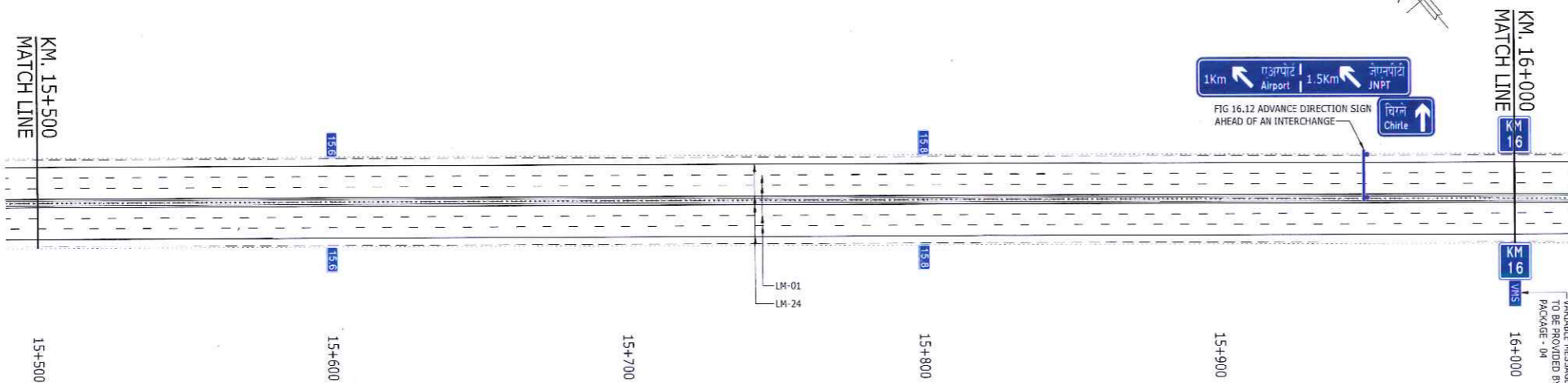
NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.

000325



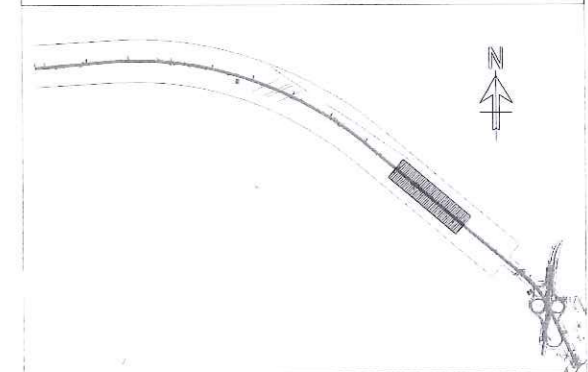
PLAN
SCALE 1:1000



PLAN
SCALE 1:1000

LEGEND:

SIGN BOARD	200m MARKER	KILOMETRE MARKER
STUD	SAFETY FENCE	CRASH CUSHION
CHEVRON	NOISE BARRIER	
CONCRETE CRASH BARRIER	SUBSTATION PLATFORM	



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	CHK	App
C0	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T2	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
T0	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing Title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 15+000 TO KM. 16+000		
Drawn: N. Barnes	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0255	Status: CONSTRUCTION	Revision: C0



Client: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY



2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:



A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:



DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:



WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:



RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:

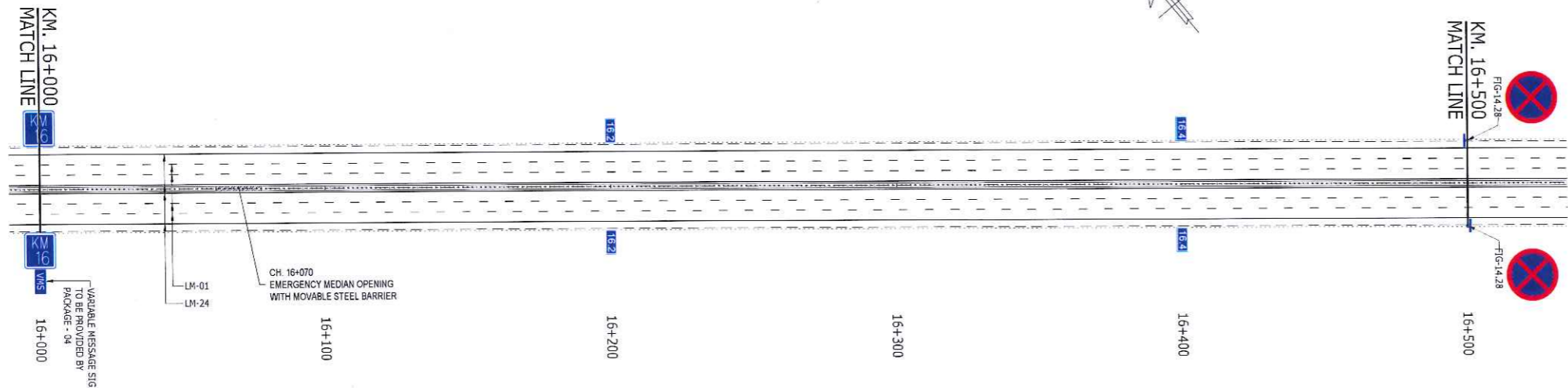
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →

NOTES

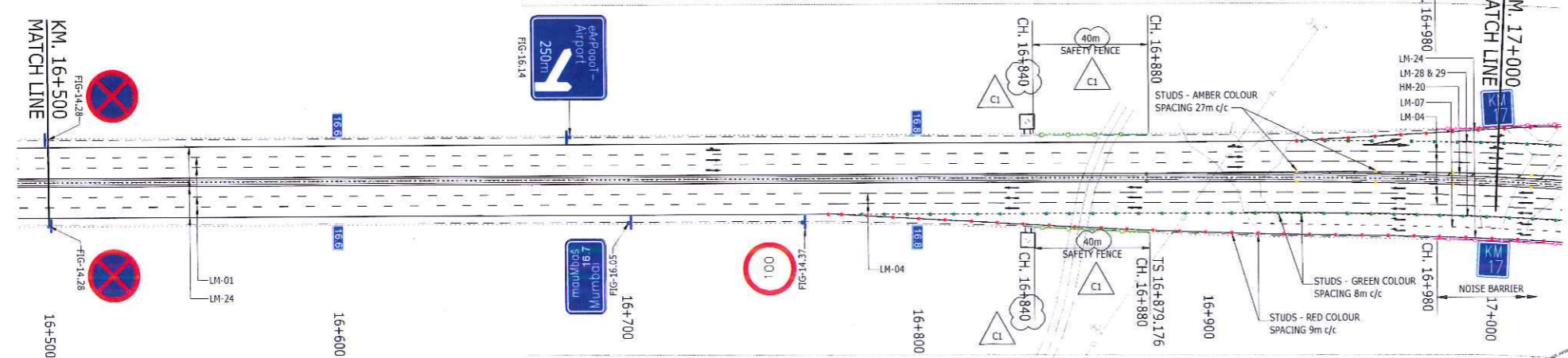
- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF SAFETY FENCE REFER DRAWING NOS. HX-00-0313.



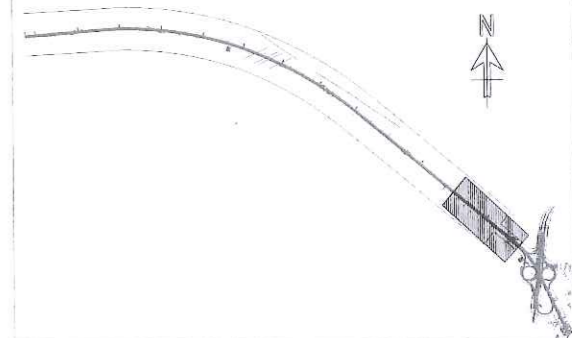
PLAN
SCALE 1:1000

LEGEND:

■ SIGN BOARD	— 200m MARKER	■ KILOMETRE MARKER
■ STUD	— SAFETY FENCE	■ CRASH CUSION
■ CHEVRON	— NOISE BARRIER	
■ CONCRETE CRASH BARRIER	■ SUBSTATION PLATFORM	



PLAN
SCALE 1:1000



KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
C1	REVISED AS PER GC COMMENTS	09.03.21	AK	SK	AS
C0	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
TT	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 16+000 TO KM. 17+000		
Drawn: N. Barnis	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0256	Status: CONSTRUCTION	Revision: C1



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:
AECOM PARSONS
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
TATA PROJECTS
Simplify. Create.
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

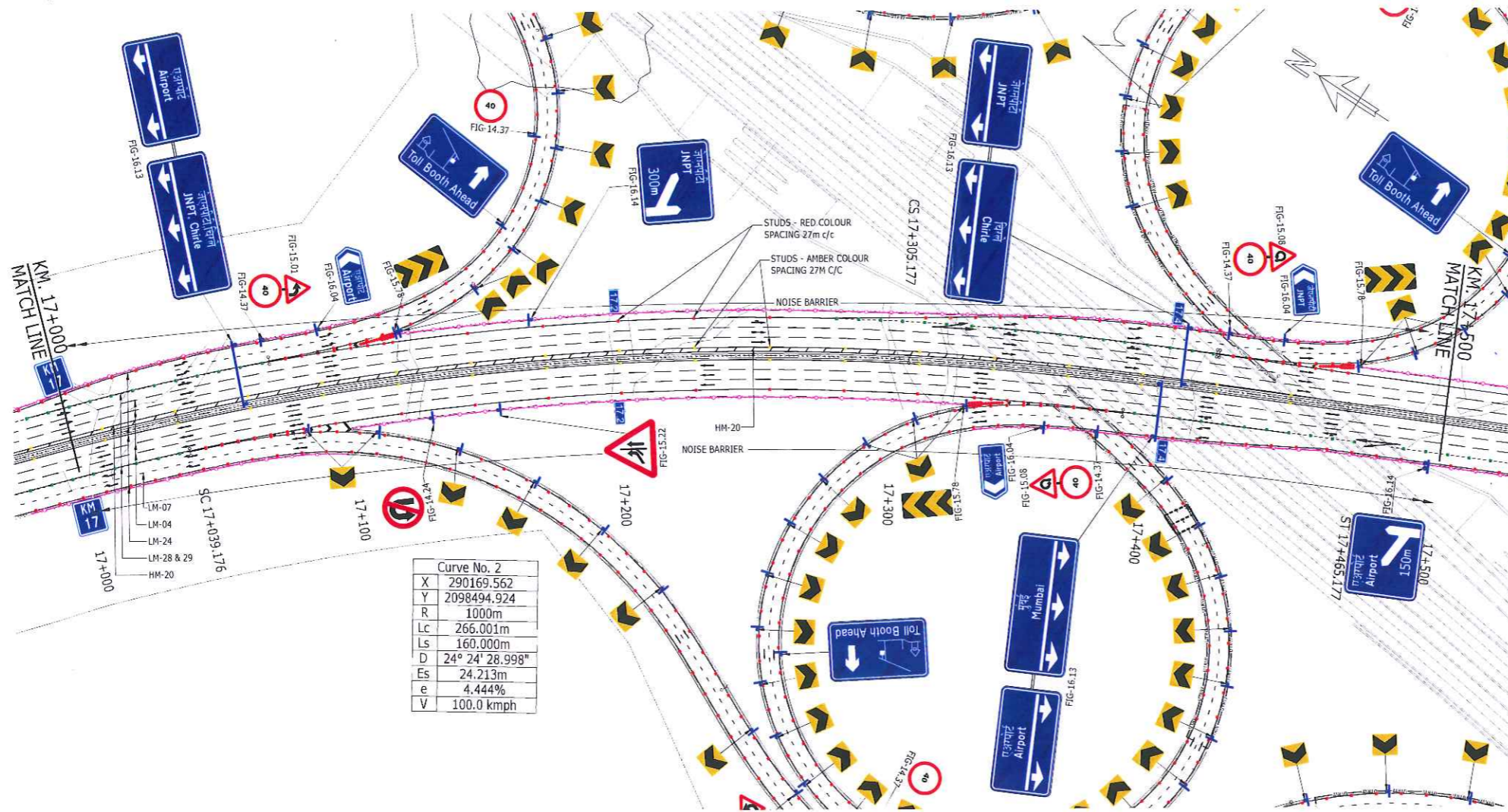
Independent Design Consultant:
ATKINS
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

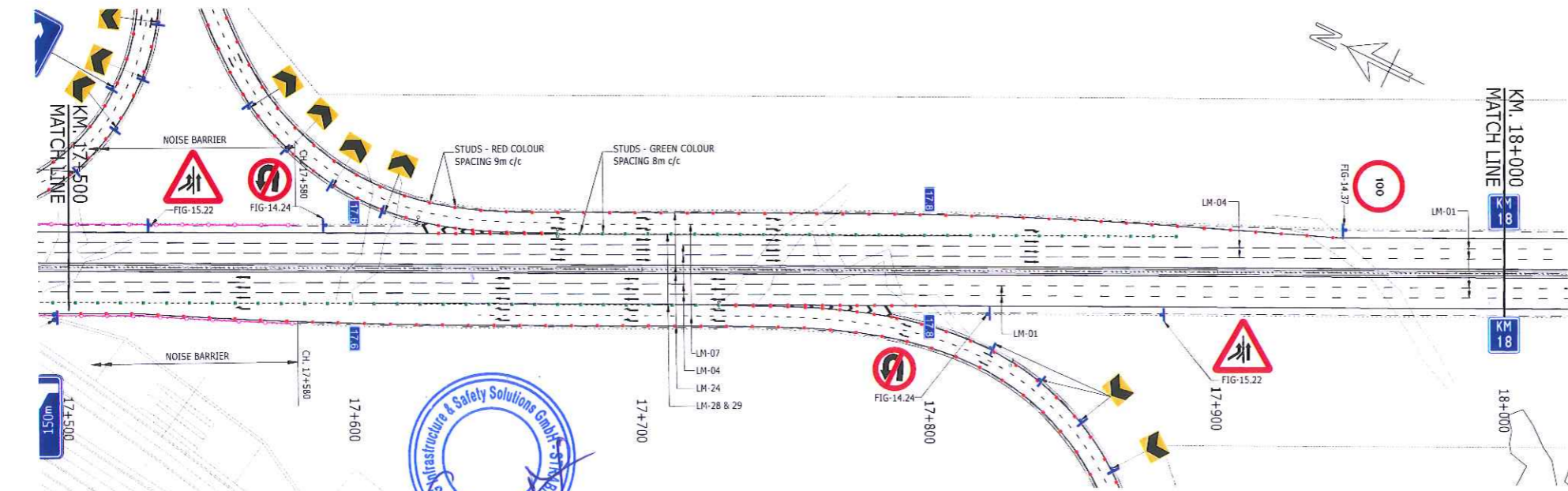
Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

← SEWRI (MUMBAI)

CHIRLE (NAVI MUMBAI) →



PLAN SCALE 1:1000



PLAN SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF NOISE BARRIER REFER DRAWING NOS. HX-00-0313.

000327



LEGEND:

KEY PLAN

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T3	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T2	REVISION AS CLOUDED	04.10.19	NSB	NB	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
T0	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Client: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

General consultant: AECOM PADCOR

EPC Contractor: TATA PROJECTS DAEWOO E&C

Independent Design Consultant: ATKINS

Design Consultant: RAMBOLL

Name of Project: MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 17+000 TO KM. 18+000

2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

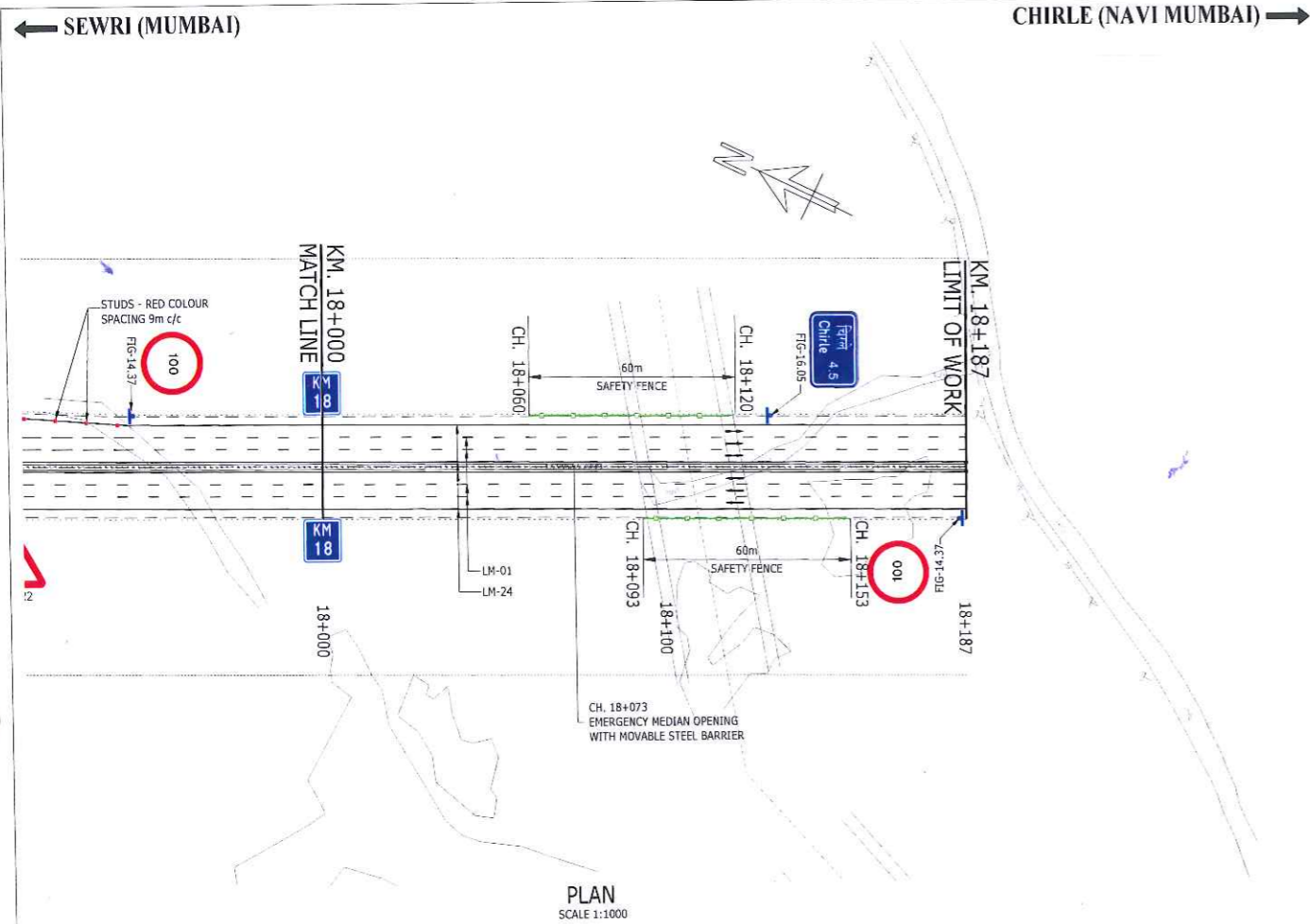
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

DAEWOO-TPL JOINT VENTURE 11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

WS Atkins India Pvt. Ltd. 18th & 19th Floor, Tower-C, DLF Cyber Greens, DLF Cyber City, Phase-III, Sector 24, Gurugram, Haryana - 122002

RAMBOLL INDIA PVT. LTD. LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Drawn: N. Barnis	Date: MAR, 2019	Scale (at A1): 1:1000
Drawing No: HX-ML-0257	Status: CONSTRUCTION	Revision: CO



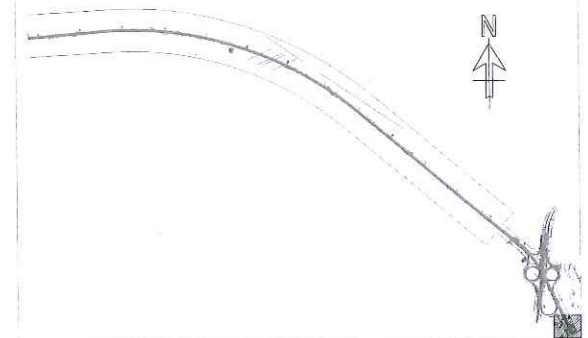
PLAN
SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
- TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR TYPICAL DETAILS OF EMERGENCY MEDIAN OPENING REFER DRAWING NOS. HX-00-0312.
- TYPICAL DETAILS OF SAFETY FENCE REFER DRAWING NOS. HX-00-0313.

000328

LEGEND:



KEY PLAN

GOOD FOR CONSTRUCTION

No.	Description	Date	Drawn	CHK	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T1	REVISION AS CLOUDDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

Rev	Description	Date	Drawn	CHK	App

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Drawing title: ROAD MARKING AND TRAFFIC SIGNAGE MAINLINE KM. 18+000 TO KM. 18+187		
Drawn: N. Bannis	Date: MAR, 2019	Scale: (at AS): 1:1000
Drawing No: HX-ML-0258	Status: CONSTRUCTION	Revision: CO



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.



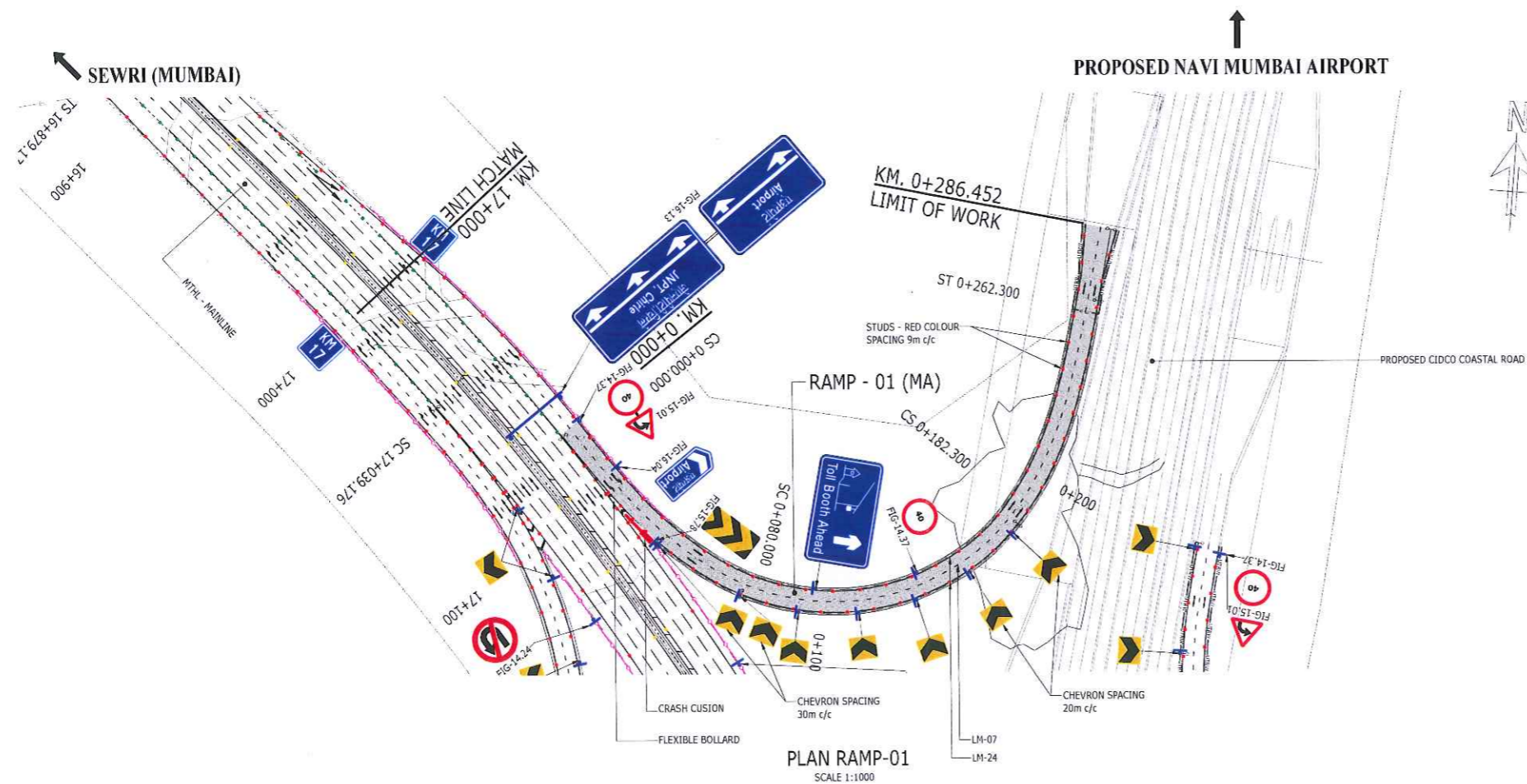
General consultant:
AECOM **PARSCO**
TYLIN
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
TATA PROJECTS
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)



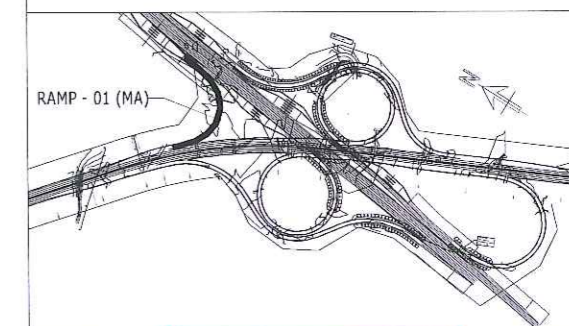
PLAN RAMP-01
SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000329

LEGEND:



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T2	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title: ROAD MARKING & TRAFFIC SIGNAGE SHIVAJI NAGAR INTERCHANGE RAMP-01 KM. 0+000 TO KM. 0+286.452	
Drawn: N. Barnis	Date: MAR, 2019
Drawing No: HX-SI-0250	Status: CONSTRUCTION
Scale: (at A1): AS SHOWN	Revision: C0



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.



General consultant:
AECOM PARDECO
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

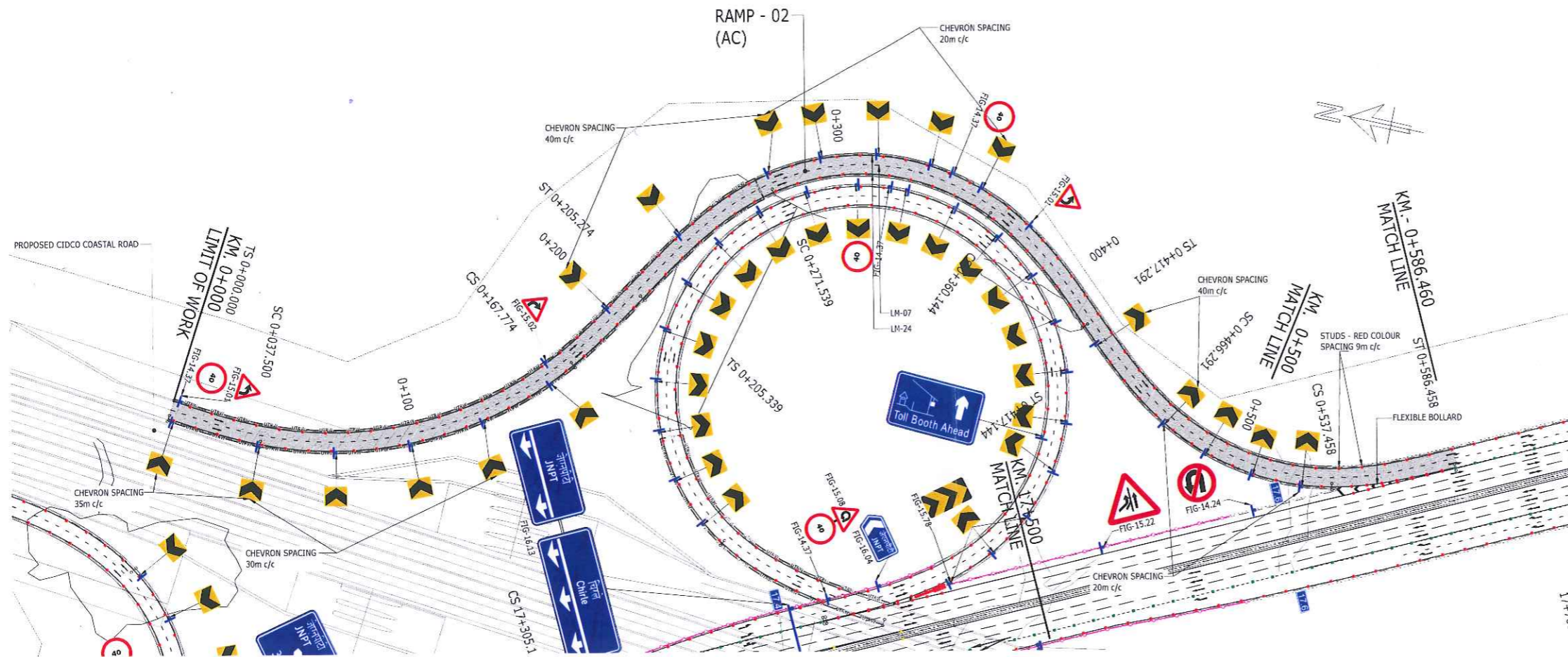
Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)



← PROPOSED NAVI MUMBAI AIRPORT

MTHL (CHIRLE) →



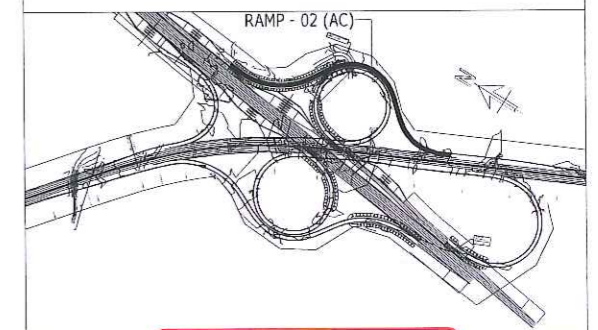
PLAN RAMP-02
SCALE 1:1000

NOTES

1. FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
2. FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
3. LOCATION OF SIGN BOARD IS INDICATIVE; THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
4. TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
5. FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
6. FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000330

LEGEND:



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T2	REVISION AS CLOUDED	04.10.19	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

General consultant:



EPC Contractor:



Independent Design Consultant:



WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS
DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM,
HARYANA - 122002

Design Consultant:



RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY,
PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:

MUMBAI TRANS HARBOUR LINK PROJECT
(PACKAGE-2) (CONSTRUCTION OF A 7.807 KM
LONG BRIDGE SECTION (CH:10+380-CH:18+187)
ACROSS THE MUMBAI BAY INCLUDING
SHIVAJI NAGAR INTERCHANGE)

Drawing title:

ROAD MARKING & TRAFFIC SIGNAGE
SHIVAJI NAGAR INTERCHANGE
RAMP-02
KM. 0+000 TO KM. 0+586.460

Drawn:	N. Barnis	Date:	MAR, 2019	Scale (at A1):	AS SHOWN
Drawing No.:	HX-SI-0251	Status:	CONSTRUCTION	Revision:	CO

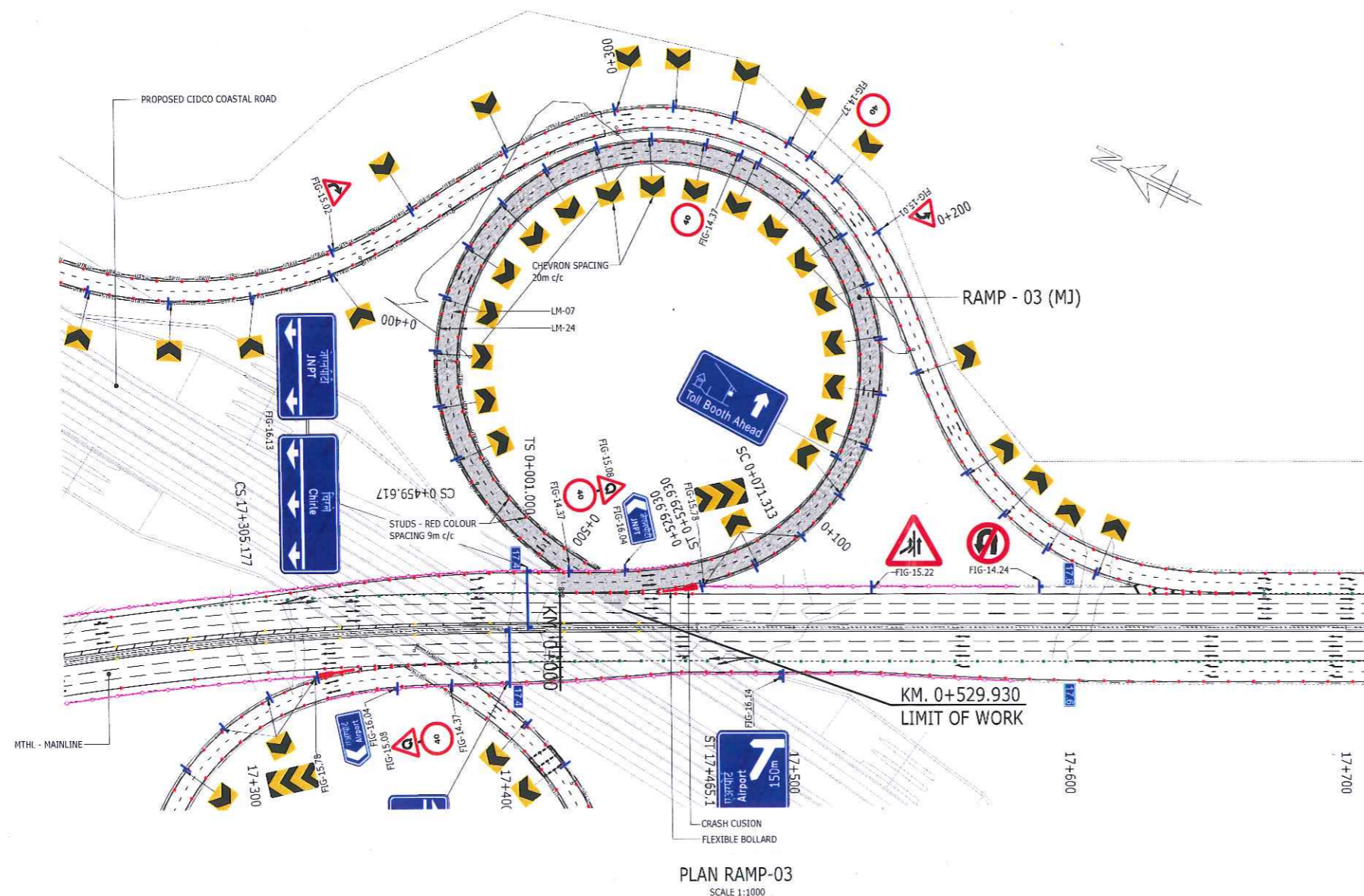
← SEWRI (MUMBAI)

PROPOSED CIDCO COASTAL ROAD (JNPT) →

NOTES

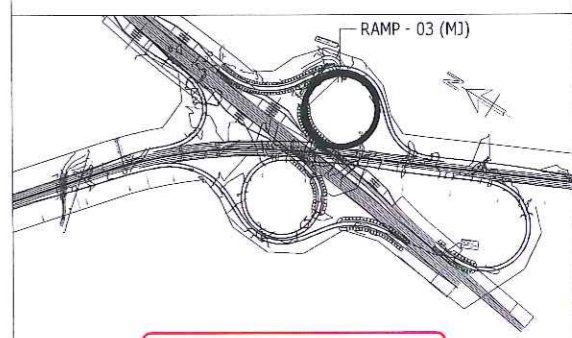
- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
- TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000331



PLAN RAMP-03
SCALE 1:1000

LEGEND:



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
C0	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T3	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T2	REVISION AS CLOUDED	04.10.19	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
T0	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:
AECOM
dar al-hadithah
TYLIN

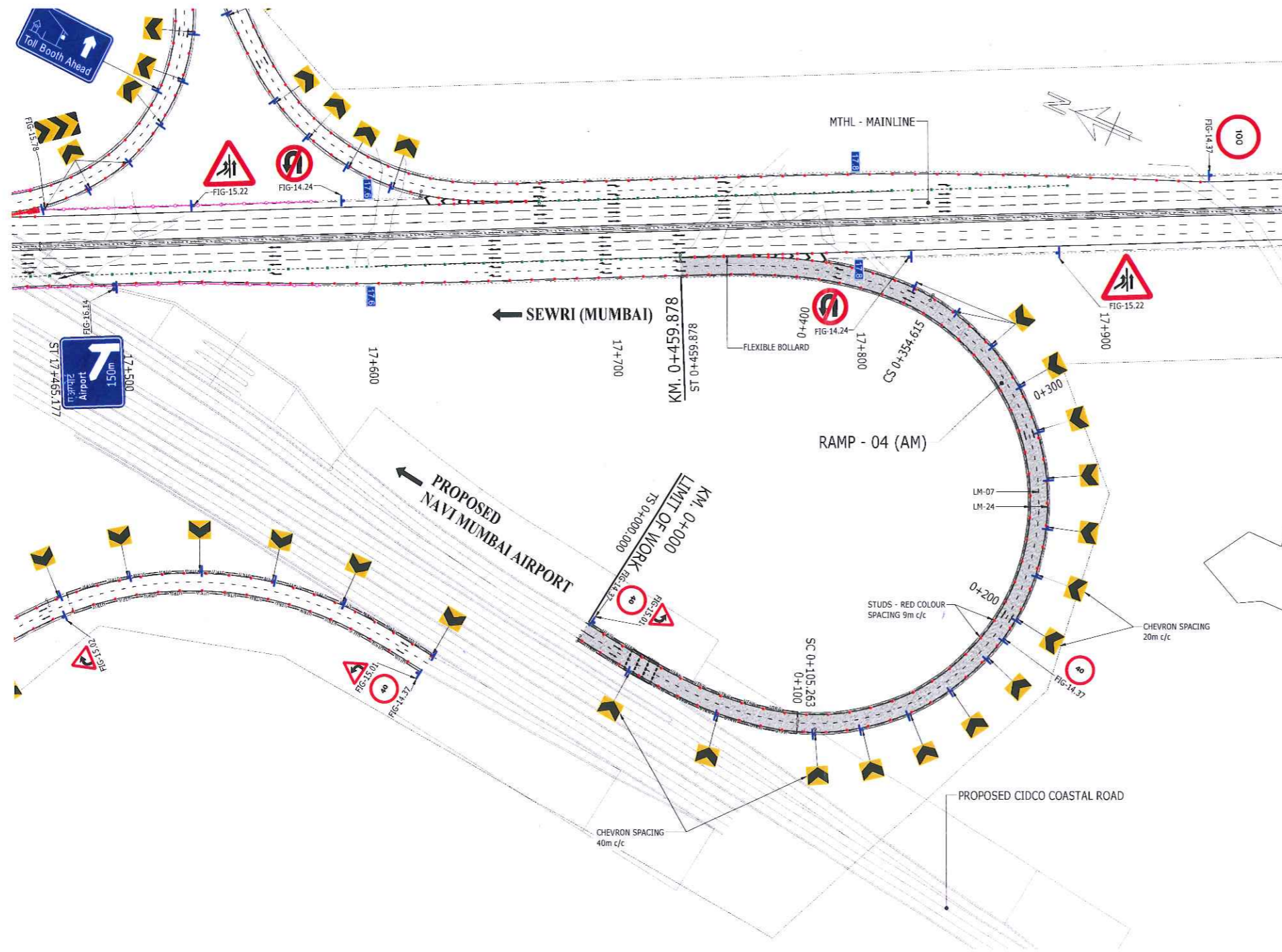
EPC Contractor:
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title:
ROAD MARKING & TRAFFIC SIGNAGE SHIVAJI NAGAR INTERCHANGE RAMP-03 KM. 0+000 TO KM. 0+529.930
Drawn: N.Barris Date: MAR, 2019 Scale: (at A1) AS SHOWN
Drawing No: HX-SI-0252 Status: CONSTRUCTION Revision: C0

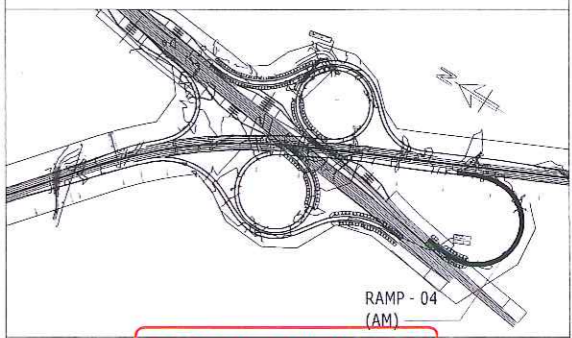


PLAN RAMP-04
SCALE 1:1000

- NOTES**
- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
 - FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
 - LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
 - TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
 - FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
 - FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000332

LEGEND:



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk.	App.
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title: ROAD MARKING & TRAFFIC SIGNAGE SHIVAJI NAGAR INTERCHANGE RAMP-04 KM. 0+000 TO KM. 0+459.878

Drawn:	N. Barris	Date:	MAR, 2019	Scale (at A1):	AS SHOWN
Drawing No.:	HX-SI-0253	Status:	CONSTRUCTION	Revision:	C0



Client: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant: AECOM PARSONS
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor: TATA PROJECTS DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant: ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant: RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

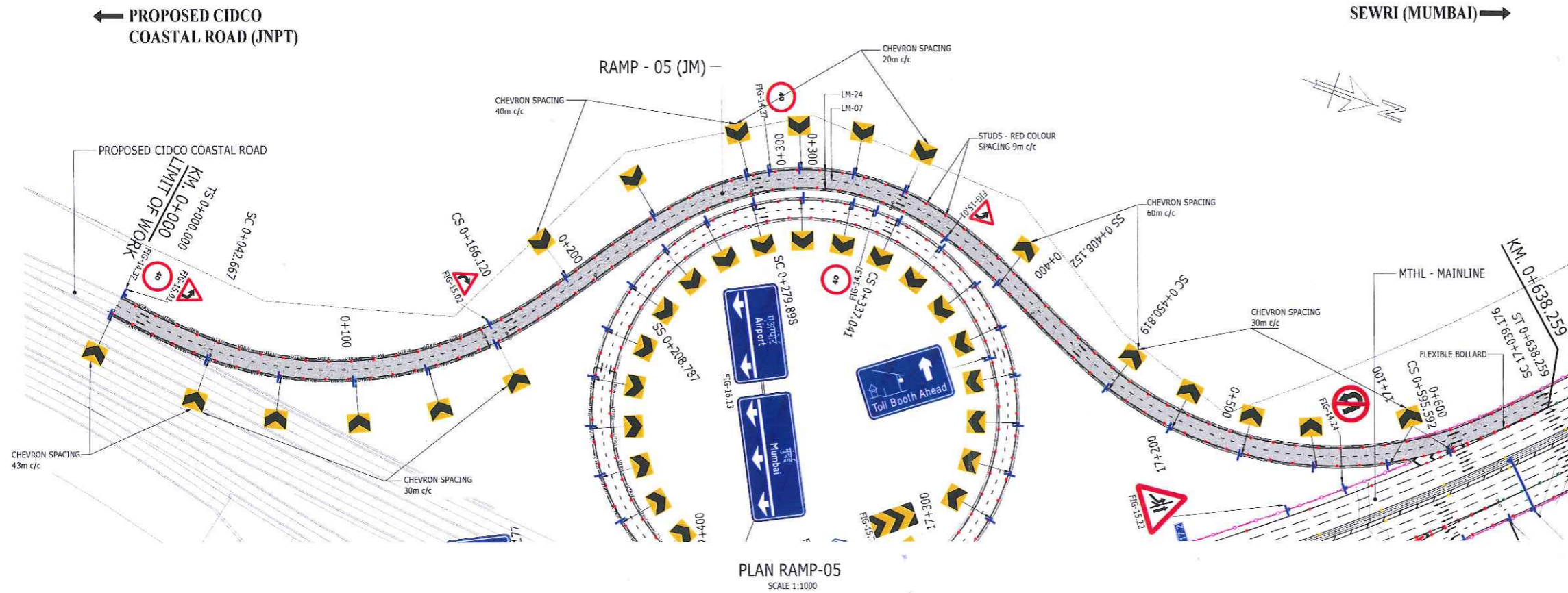
Name of Project: MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)



NOTES

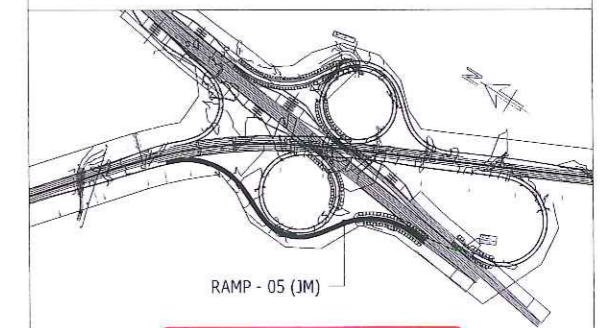
- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
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- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000333



LEGEND:

■ SIGN BOARD	■ 200m MARKER	■ KILOMETRE MARKER
■ STUD	■ SAFETY FENCE	■ CRASH CUSION
■ CHEVRON	■ NOISE BARRIER	■ CONCRETE CRASH BARRIER
■ SUBSTATION PLATFORM		



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NEH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Drawing title:		ROAD MARKING & TRAFFIC SIGNAGE SHIVAJI NAGAR INTERCHANGE RAMP-05 KM. 0+000 TO KM. 0+638.259	
Drawn:	N.Barris	Date:	MAR, 2019
Scale:	(of A1)	Status:	CONSTRUCTION
Revision:	CO		



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.



General consultant:
AECOM **PADECO**
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037.

EPC Contractor:
DAEWOO E&C
TATA PROJECTS
ATKINS
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

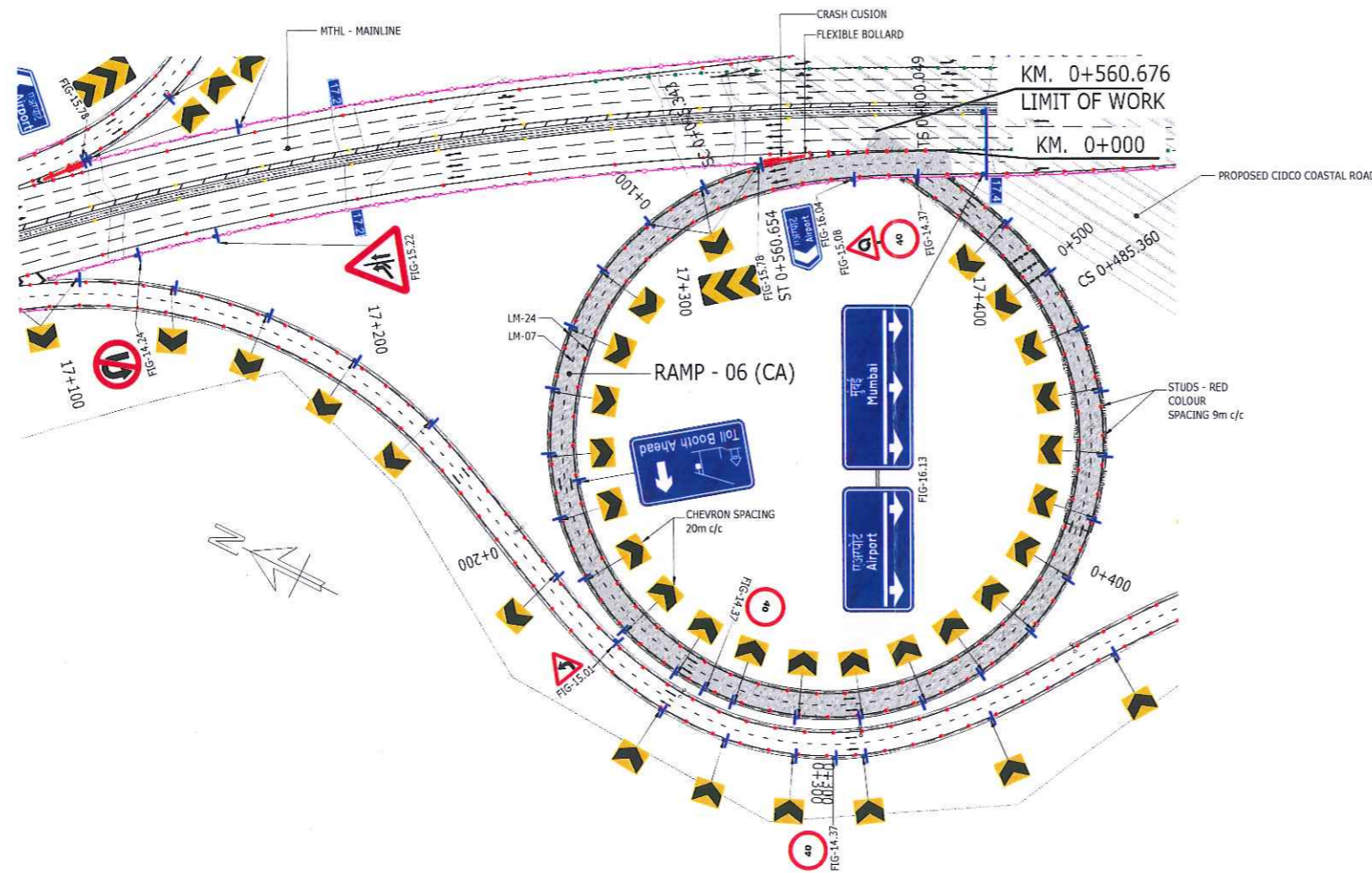
Independent Design Consultant:
ATKINS
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

← MTHL (CHIRLE)

PROPOSED NAVI MUMBAI →
AIRPORT



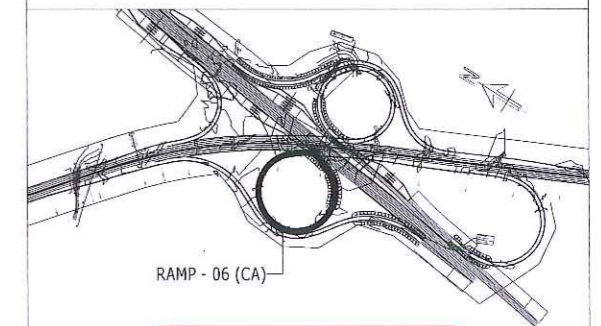
PLAN RAMP-06
SCALE 1:1000

NOTES

- FOR ROAD MARKING DETAILS REFER DRAWING NOS. HX-00-0300 & HX-00-0301.
- FOR ROAD SIGNAGE DETAILS REFER DRAWING NOS. HX-00-0303 & HX-00-0304.
- LOCATION OF SIGN BOARD IS INDICATIVE. THE ACTUAL SITING OF BOARD SHALL BE AS PER SITE CONDITION.
- TEXT AND GRAPHICS ON ALL DIRECTION SIGNS AND OVERHEAD SIGNS SHOWN ON THIS PLAN ARE INDICATIVE ONLY. ACTUAL TEXT AND GRAPHICS SHALL BE FINALIZED AT THE TIME OF INSTALLATION ON VENDOR DRAWINGS.
- FOR ROAD STUD DETAILS REFER DRAWING NOS. HX-00-0302.
- FOR FLEXIBLE BOLLARD AND IMPACT ATTENUATOR DETAILS REFER DRAWING NO. HX-00-0305.

000334

LEGEND:



GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk	App
CO	FOR CONSTRUCTION	03.09.20	AGA	NBH	AS
T3	REVISED AS PER GC COMMENTS	24.02.20	NSB	NBH	AS
T2	REVISION AS CLOUDED	04.10.19	NSB	NBH	AS
T1	REVISION AS CLOUDED	24.05.19	NSB	RP	AS
TO	TECHNICAL DESIGN	19.04.19	NSB	RP	AS

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Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:
AECOM **PARSCO**
TYLIN
A-1, UNIT NO. 116, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037.

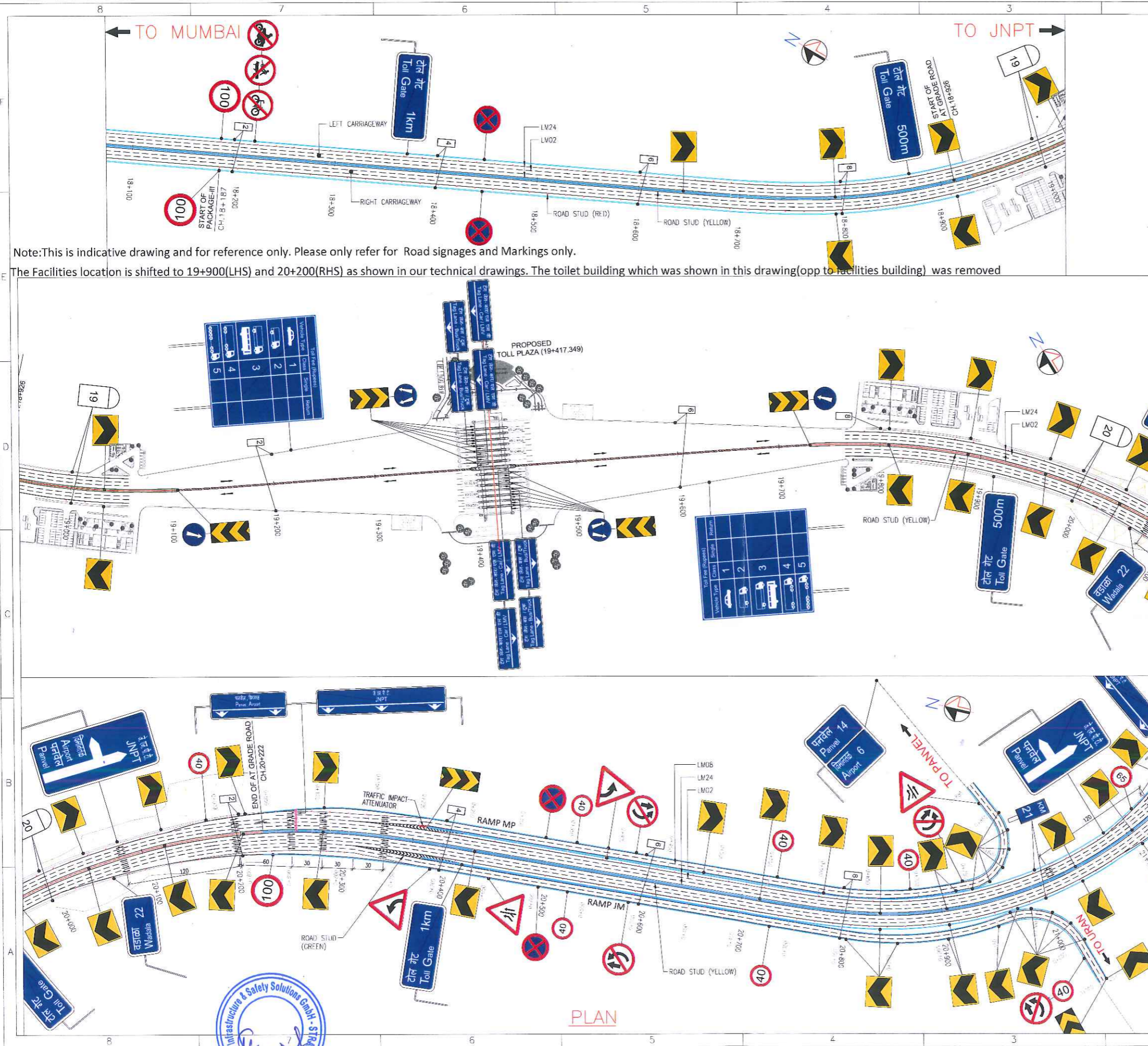
EPC Contractor:
DAEWOO E&C
TATA PROJECTS
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-II, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title:
ROAD MARKING & TRAFFIC SIGNAGE SHIVAJI NAGAR INTERCHANGE RAMP-06 KM. 0+000 TO KM. 0+560.676
Drawn: N.Barnis Date: MAR, 2019 Scale (at A1): AS SHOWN
Drawing No: HX-SI-0255 Status: CONSTRUCTION Revision: C0



Note: This is indicative drawing and for reference only. Please only refer for Road signages and Markings only.
 The Facilities location is shifted to 19+900(LHS) and 20+200(RHS) as shown in our technical drawings. The toilet building which was shown in this drawing (opp to facilities building) was removed

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- NOTES:-**
- LM02/LM05/LM24 REPRESENT CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015.
 - HMO3/HMO6/HMO9/HM20 REPRESENT CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015.
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015 TABLE NO. 5.2 & 5.3.
 - MATERIAL DETAILS SHALL BE AS PER CL. NO. 801.2 OF MORTH SPECIFICATION.

LEGENDS:

- ROAD STUD
- TRAFFIC IMPACT ATTENUATOR
- BRIDGE CONCRETE BARRIER
- 2 4 6 8 200m MARKINGS
- KILOMETER MARKINGS
- GANTRY MOUNTED SIGN

- REFERENCE DRAWINGS:-**
- MTHL-P3-HB-RR-142...ROAD SIGN PLAN km 21+000 TO km 21+811.046
 - MTHL-P3-HB-RR-143...TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 1 OF 6)
 - MTHL-P3-HB-RR-144...DETAILS OF NORMAL / WARNING LANE MARKINGS FOR 6-LANE ROAD (SH. 2 OF 6)
 - MTHL-P3-HB-RR-145...TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 3 OF 6)
 - MTHL-P3-HB-RR-146...TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 4 OF 6)
 - MTHL-P3-HB-RR-147...TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 5 OF 6)
 - MTHL-P3-HB-RR-148...TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 6 OF 6)
 - MTHL-P3-HB-RR-149...DETAILS OF TRAFFIC IMPACT ATTENUATOR

REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
R1	24/03/21	REVISED AS PER GC'S COMMENTS MDE LETTER CC CRS-1447 INCORPORATED	CLS	SSP	KLK	JCA

PROJECT: MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE - 3)

ORGANIZATION: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

GENERAL CONSULTANT: AECOM PADECO dar al-handasah TYLINI INTERNATIONAL

EPC CONTRACTOR: L&T Construction Heavy Civil Infrastructure IC

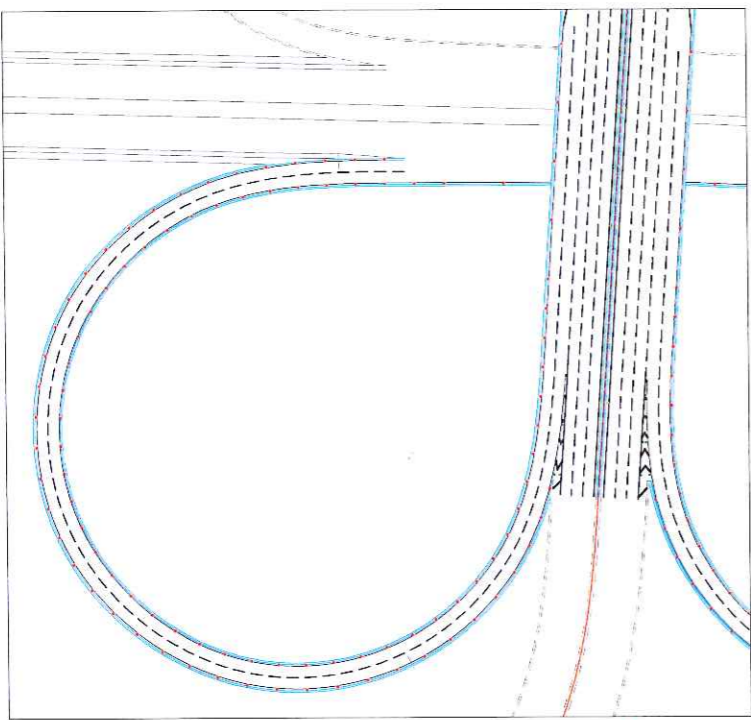
DETAIL DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

INDEPENDENT DESIGN CHECKER: TPF Engineering Pvt. Ltd.

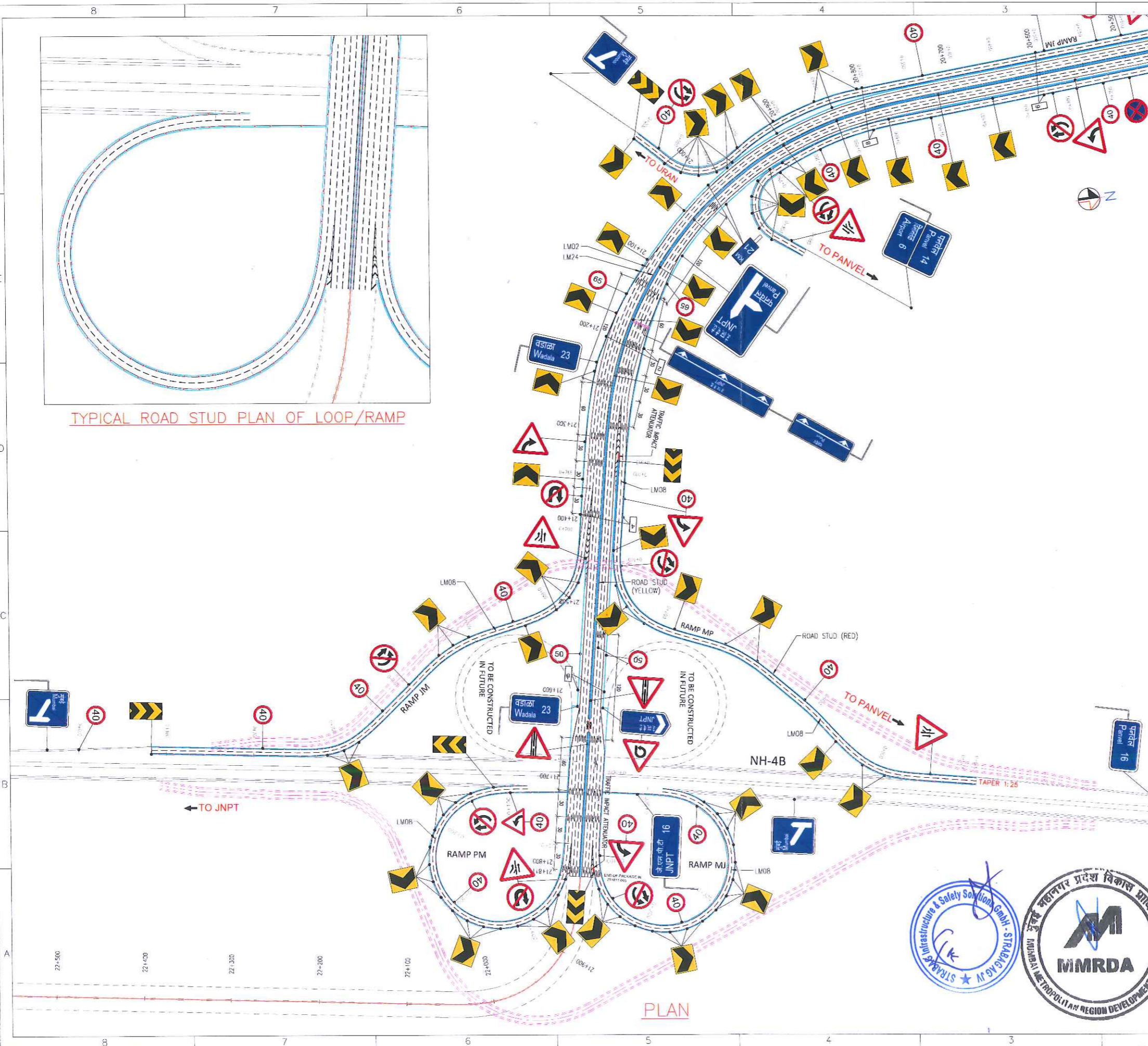
TITLE: ROAD SIGN PLAN km 18+187 TO km 21+000

JOB No:	0 - 17187	SIZE	A2	RELEASED FOR
NAME	CLS	DATE	2010/2020	<input type="checkbox"/> INITIAL DESIGN (I)
DSGN	SSP	sd/-	2010/2020	<input checked="" type="checkbox"/> TECHNICAL DESIGN (T)
CHKD	KLK	sd/-	2010/2020	<input type="checkbox"/> CONSTRUCTION DESIGN (C)
APPD	DBJ	sd/-	2010/2020	<input type="checkbox"/> AS BUILT (B)
DRG. No:	MTHL - P 3 - H B - R R - 0 1 4 1	CODE	REV	1
SHEET NO.				





TYPICAL ROAD STUD PLAN OF LOOP/RAMP



PLAN

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- NOTES:-
- LM02/LM08/LM24 REPRESENT CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - HM03/HM06/HM09/HM20 REPRESENT CODE NAMES OF LONGITUDINAL MARKING AS PER IRC 35:2015
 - ROAD STUDS RED/ GREEN/ YELLOW REPRESENTS ROAD STUDS AS PER IRC 35:2015 TABLE NO. 5.2 & 5.3.
 - MATERIAL DETAILS SHALL BE AS PER CL. NO. 801.2 OF MoRTH SPECIFICATION.

- LEGENDS:
- ROAD STUD
 - TRAFFIC IMPACT ATTENUATOR
 - BRIDGE CONCRETE BARRIER
 - 200m MARKINGS
 - KILOMETER MARKINGS
 - GANTRY MOUNTED SIGN

- REFERENCE DRAWINGS:-
- MTHL-P3-HB-RR-141.....ROAD SIGN PLAN km 18+187 TO km 21+000
 - MTHL-P3-HB-RR-143.....TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 1 OF 6)
 - MTHL-P3-HB-RR-144.....DETAILS OF NORMAL / WARNING LANE MARKINGS FOR 6-LANE ROAD (SH. 2 OF 6)
 - MTHL-P3-HB-RR-145.....TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 3 OF 6)
 - MTHL-P3-HB-RR-146.....TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 4 OF 6)
 - MTHL-P3-HB-RR-147.....TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 5 OF 6)
 - MTHL-P3-HB-RR-148.....TYPICAL DETAILS OF ROAD MARKINGS & ROAD SIGNS (SH. 6 OF 6)
 - MTHL-P3-HB-RR-149.....DETAILS OF TRAFFIC IMPACT ATTENUATOR

REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED
R1	24/03/21	REVISED AS PER CC'S COMMENTS W/DE LETTER CC CR5-1447 INCORPORATED.	CLS	SSP	KLK	DCA

PROJECT : MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE - 3)

ORGANIZATION
 OWNER: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

GENERAL CONSULTANT:
 AECOM PADECO dar al-handasa TYLINT INTERNATIONAL
 AECOM ASIA COMPANY LTD. PADECO Co. Ltd. DAR AL-HANDASAH CONSULTANTS TY L IN INTERNATIONAL CONSORTIUM

EPC CONTRACTOR:
 L&T Construction Heavy Civil Infrastructure IC

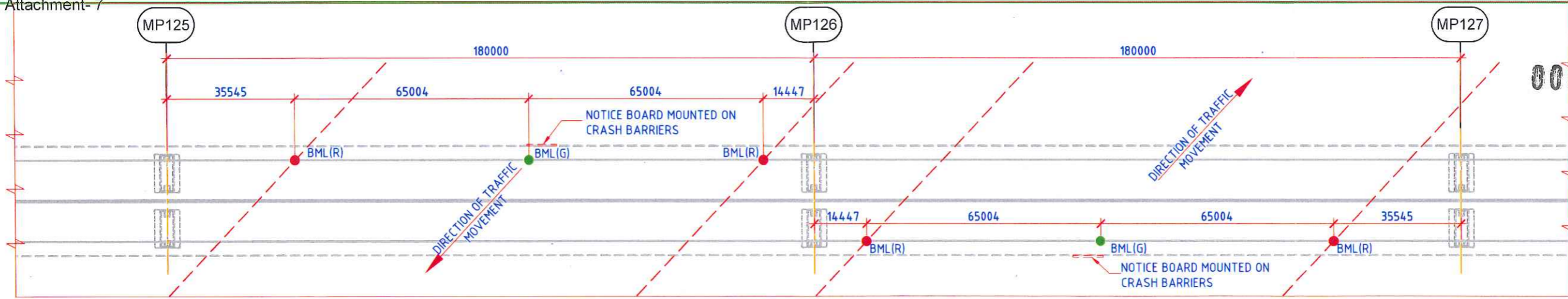
DETAIL DESIGN CONSULTANT:
 STUP Consultants Pvt. Ltd.

INDEPENDENT DESIGN CHECKER:
 TPF Engineering Pvt. Ltd.

TITLE: ROAD SIGN PLAN km 21+000 TO km 21+811.046

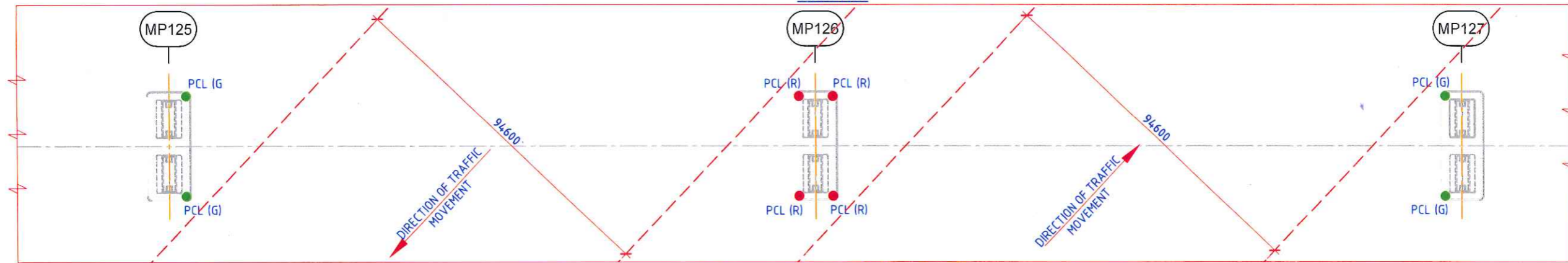
JOB No:	O - 17187	SIZE	A2	RELEASED FOR
NAME	SIGN	DATE	PROJECTION	<input type="checkbox"/> INITIAL DESIGN (I)
RAWN	CLS	20/10/2020		<input checked="" type="checkbox"/> TECHNICAL DESIGN (T)
DSGN	SSP	sd/-	FIRST ANGLE	<input type="checkbox"/> CONSTRUCTION DESIGN (C)
CHKD	KLK	sd/-	SCALE	<input type="checkbox"/> AS BUILT (B)
APPD	DBJ	sd/-	1/2500	
DRG. No.:	MTHL - P 3 - H B - R R - 0 1 4 2 T 1			CODE REV
SHEET NO.				





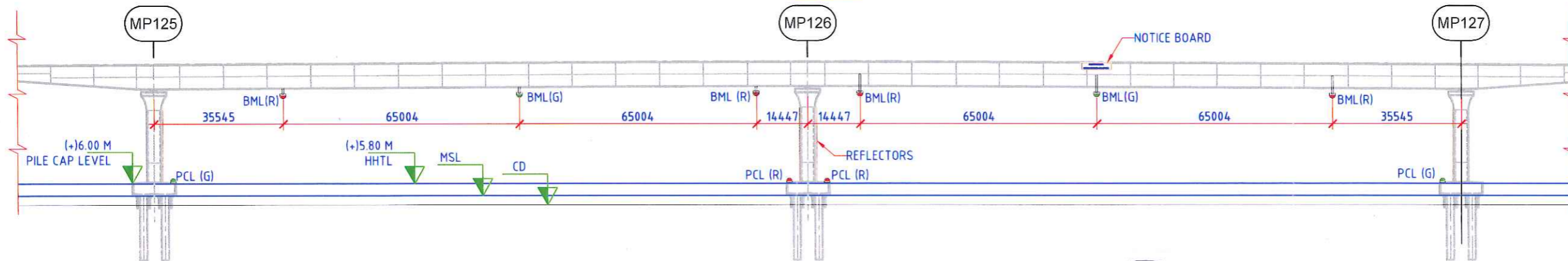
PLAN AT SOFFIT LEVEL

SCALE: 1:1250



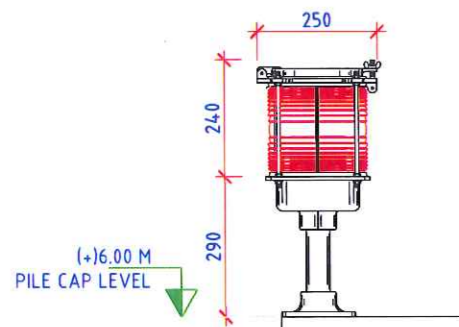
PLAN AT PILE CAP LEVEL

SCALE: 1:1250



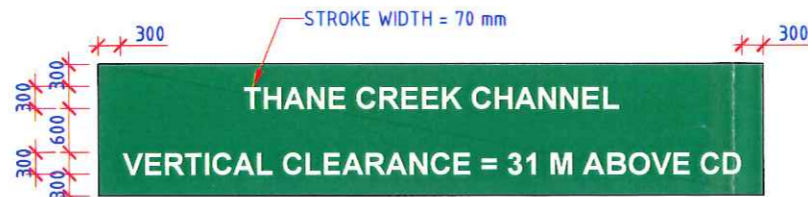
ELEVATION

SCALE: 1:1250



DETAIL OF PIER CORNER LIGHT
(RED/GREEN)

SCALE: 1:15



DETAIL OF NOTICE BOARD

SCALE: 1:100

1. TEXT COLOR : WHITE
2. TEXT FONT : ARIAL BOLD
3. TEXT HEIGHT: 300 mm
4. BACKGROUND COLOR: GREEN



LEGEND

	PCL(R)	PIER CORNER LIGHT (RED)
	PCL(G)	PIER CORNER LIGHT (GREEN)
	BML(R)	BRIDGE MARKING LIGHT (RED)
	BML(G)	BRIDGE MARKING LIGHT (GREEN)

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PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

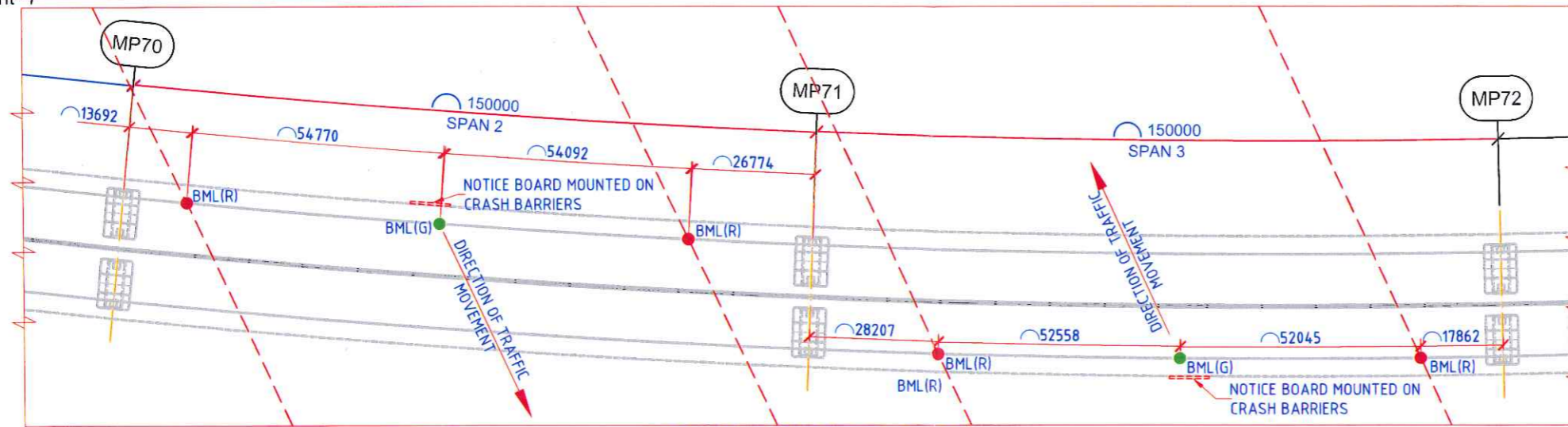
PROJECT: NAVIGATIONAL AIDS FOR MTHL PACKAGE-1
 TITLE: DETAILS OF NAVIGATIONAL AIDS FOR THANE CREEK CHANNEL SPAN - (OS-04)



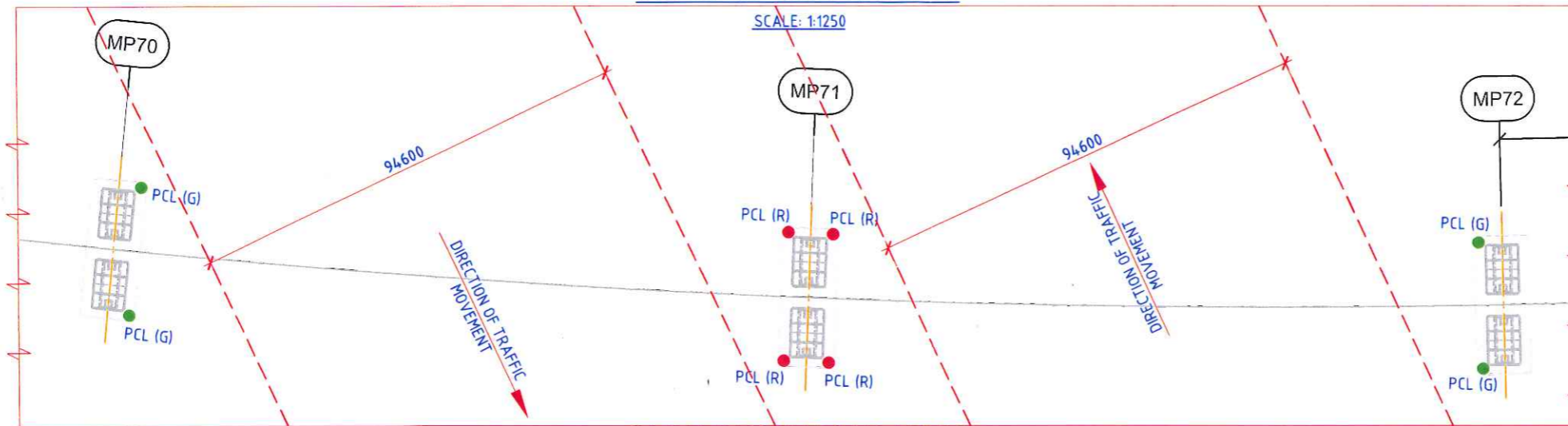
L&T Infrastructure Engineering Ltd.

REPORT NO:	MA-001
PROJECT NO:	C1191101
DATE:	01/06/20
MADE:	VVY
FIGURE NO:	FD0004
REV:	C

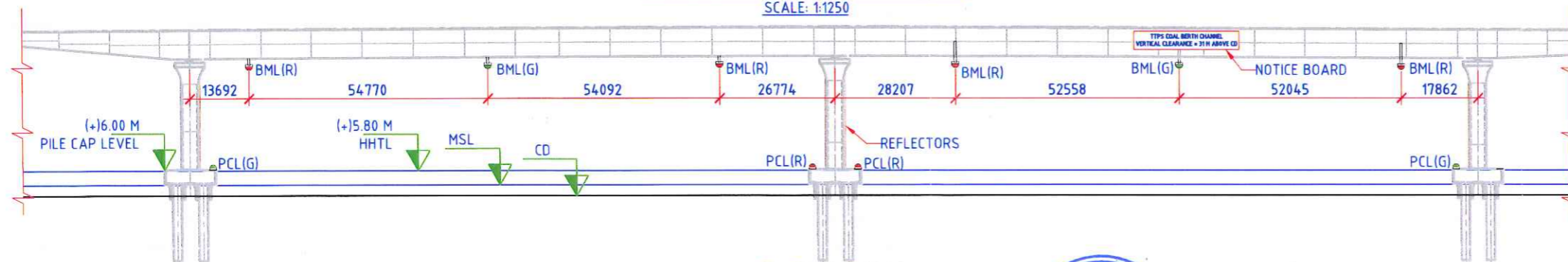
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PLAN AT SOFFIT LEVEL

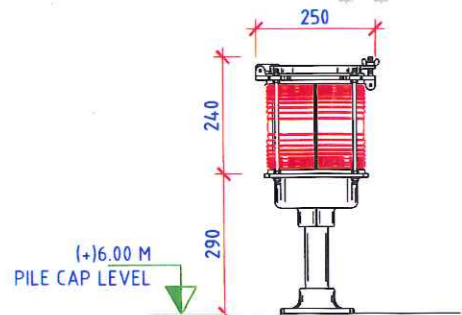


PLAN AT PILE CAP LEVEL



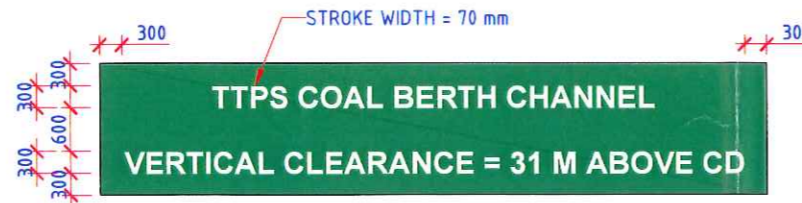
ELEVATION

SCALE: 1:1250



DETAIL OF PIER CORNER LIGHT (RED/GREEN)

SCALE: 1:15



TTPS COAL BERTH CHANNEL

VERTICAL CLEARANCE = 31 M ABOVE CD

1. TEXT COLOR : WHITE
2. TEXT FONT : ARIAL BOLD
3. TEXT HEIGHT: 300 mm
4. BACKGROUND COLOR: GREEN

DETAIL OF NOTICE BOARD

SCALE: 1:100

LEGEND

	PCL(R)	PIER CORNER LIGHT (RED)
	PCL(G)	PIER CORNER LIGHT (GREEN)
	BML(R)	BRIDGE MARKING LIGHT (RED)
	BML(G)	BRIDGE MARKING LIGHT (GREEN)



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PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

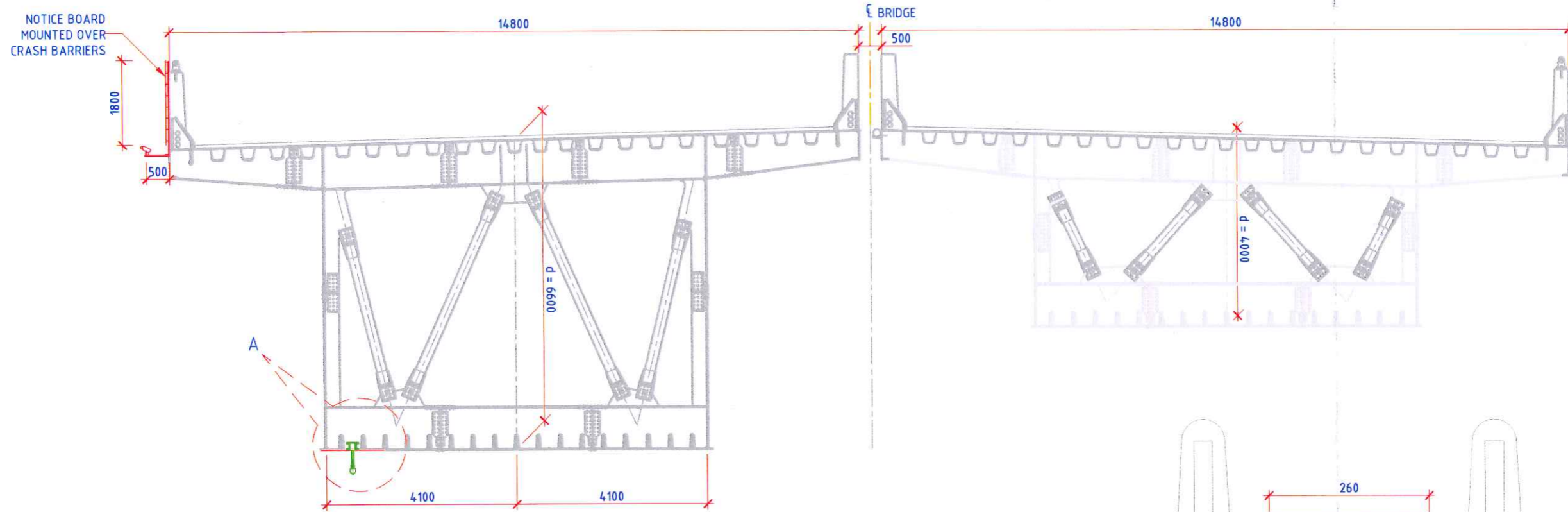
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 TITLE: DETAILS OF NAVIGATIONAL AIDS FOR TTPS COAL BERTH CHANNEL SPAN - (OS-02)



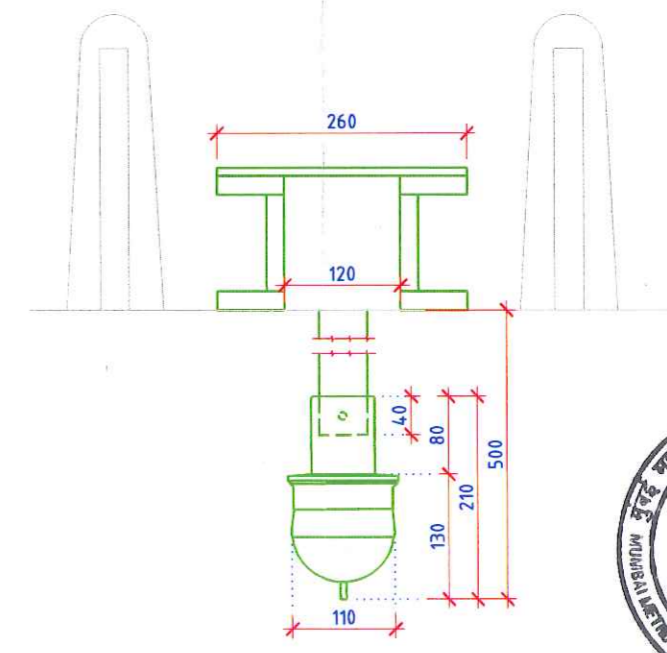
L&T Infrastructure Engineering Ltd.

REPORT NO: MA-001
PROJECT NO: C1191101
DATE: 01/06/20
MADE: VVY
FIGURE NO: FD0005
REV: C

AUTO PATH: IN:FILE EXCHANGE\VVV\VA-001-RC-FINAL REPORT_02JUN20\FD0005-RC-VVY-DETAILS OF NAVIGATIONAL AIDS FOR TTPS COAL BERTH CHANNEL SPAN - (OS-02).DWG



**GIRDER CROSS SECTION
(DIRECTION TOWARDS SEWRI)**
SCALE: 1:100



**DETAIL-A
CHANNEL MARKER LIGHT (RED/GREEN)**
SCALE 1:7.5



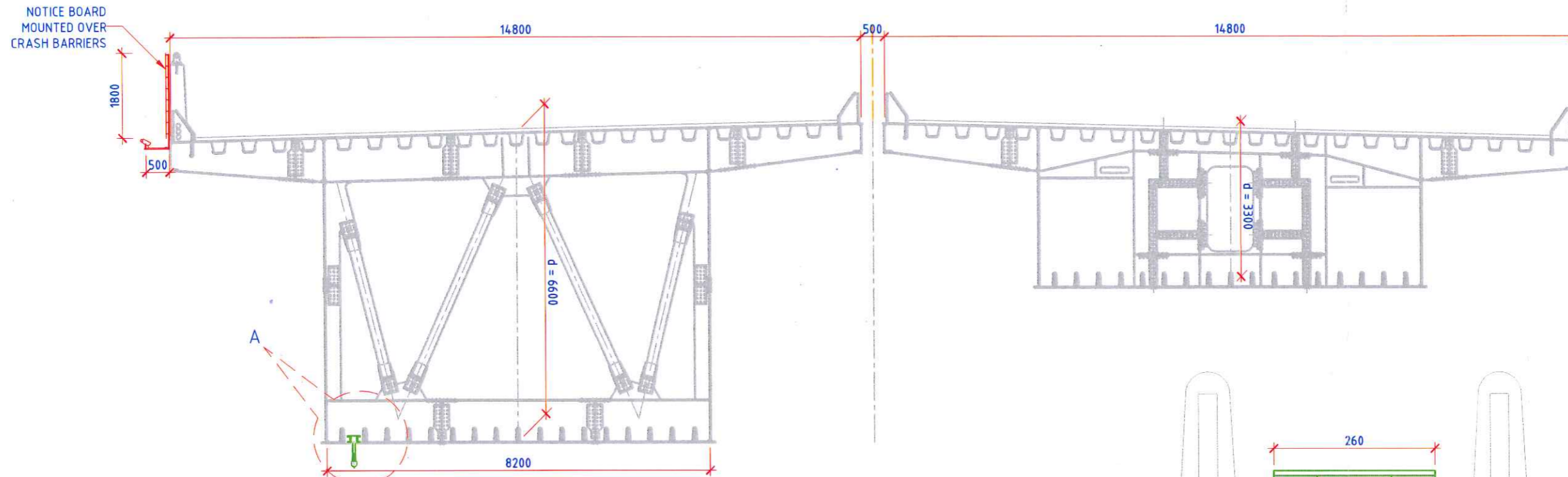
NOTES:
1. ALL DIMENSION ARE IN MILLIMETRES.



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	TITLE:	SECTIONAL VIEW OF NAVIGATIONAL AIDS FOR THANE CREEK CHANNEL SPAN - (OS-04)	PROJECT NO:	C1191101
			DATE:	01/06/20
			MADE:	AST
			FIGURE NO:	FD0006
			REV:	C

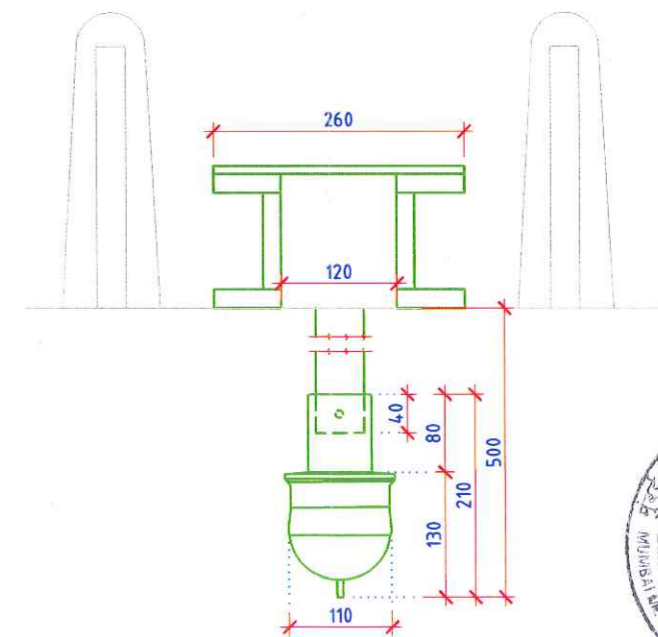


L&T Infrastructure Engineering Ltd.



GIRDER CROSS SECTION
(DIRECTION TOWARDS SEWRI)

SCALE: 1:1250



DETAIL-A
CHANNEL MARKER LIGHT (RED/GREEN)

SCALE 1:7.5



NOTES:

1. ALL DIMENSION ARE IN MILLIMETRES.



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P.A.T.H. REFER BOTTOM LEFT CORNER OF THE DRAWING

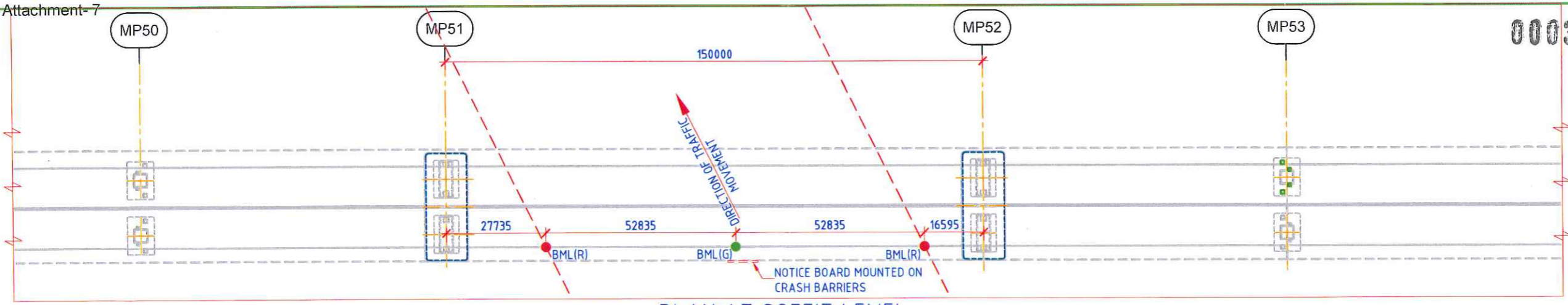
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TITLE:	SECTIONAL VIEW OF NAVIGATIONAL AIDS FOR - TTPS COAL BERTH CHANNEL SPAN - (OS-02)



L&T Infrastructure Engineering Ltd.

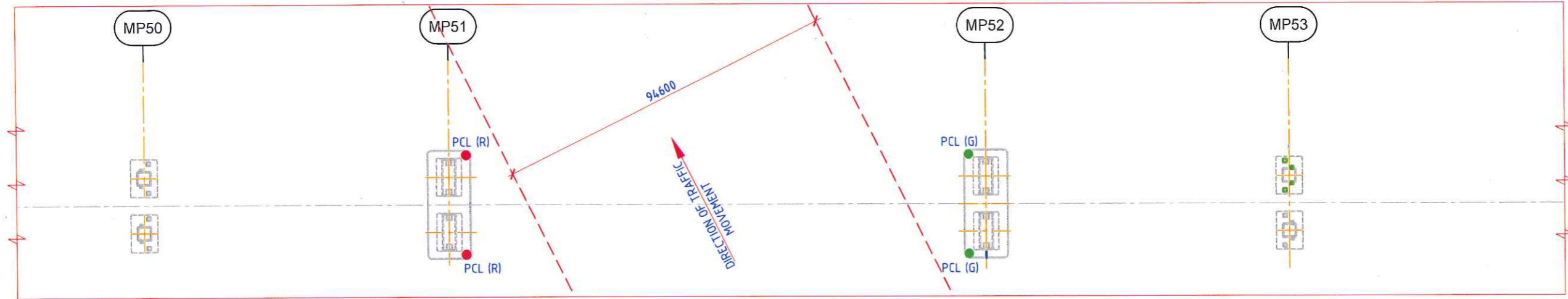
REPORT NO:	MA-001
PROJECT NO:	C1191101
DATE:	01/06/20
MADE:	AST
FIGURE NO:	FD0007
REV:	C

AUTO PATH IN FILE EXCHANGE \VV\Y\A-001-RC-FINAL REPORT_01JUN20\FD0007-RC-AST-SECTIONAL VIEW OF NAVIGATIONAL AIDS FOR TTPS COAL BERTH CHANNEL SPAN - (OS-02).DWG



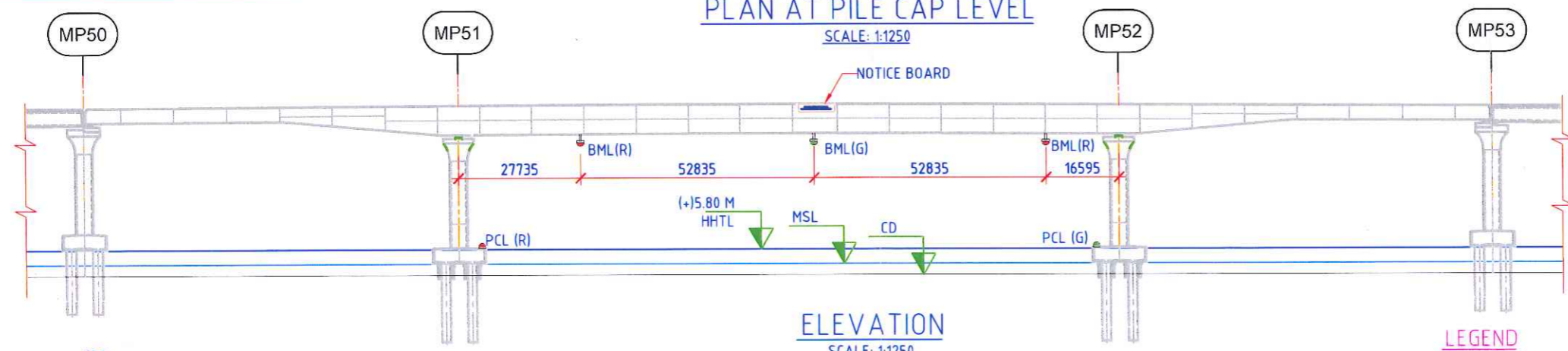
PLAN AT SOFFIT LEVEL

SCALE: 1:1250



PLAN AT PILE CAP LEVEL

SCALE: 1:1250



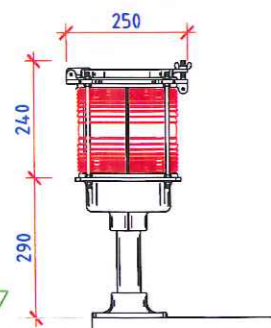
ELEVATION

SCALE: 1:1250



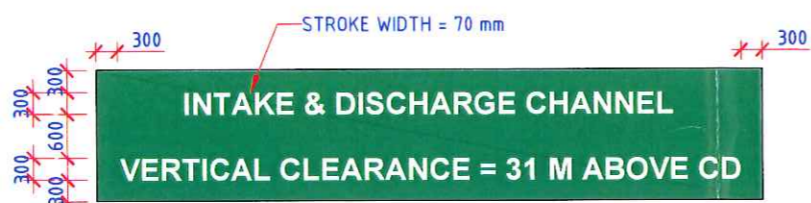
LEGEND

	PCL (R)	PIER CORNER LIGHT (RED)
	PCL (G)	PIER CORNER LIGHT (GREEN)
	BML (R)	BRIDGE MARKING LIGHT (RED)
	BML (G)	BRIDGE MARKING LIGHT (GREEN)



DETAIL OF PIER CORNER LIGHT (RED/GREEN)

SCALE: 1:15



DETAIL OF NOTICE BOARD

SCALE: 1:100

1. TEXT COLOR : WHITE
2. TEXT FONT : ARIAL BOLD
3. TEXT HEIGHT: 300 mm
4. BACKGROUND COLOR: GREEN



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P.A.T.H. REFER BOTTOM LEFT CORNER OF THE DRAWING

PROJECT: NAVIGATIONAL AIDS FOR MTHL PACKAGE-1
TITLE: DETAILS OF NAVIGATIONAL AIDS FOR TTPS INTAKE & DISCHARGE CHANNEL SPAN - (OS-01)



L&T Infrastructure Engineering Ltd.

REPORT NO: MA-001

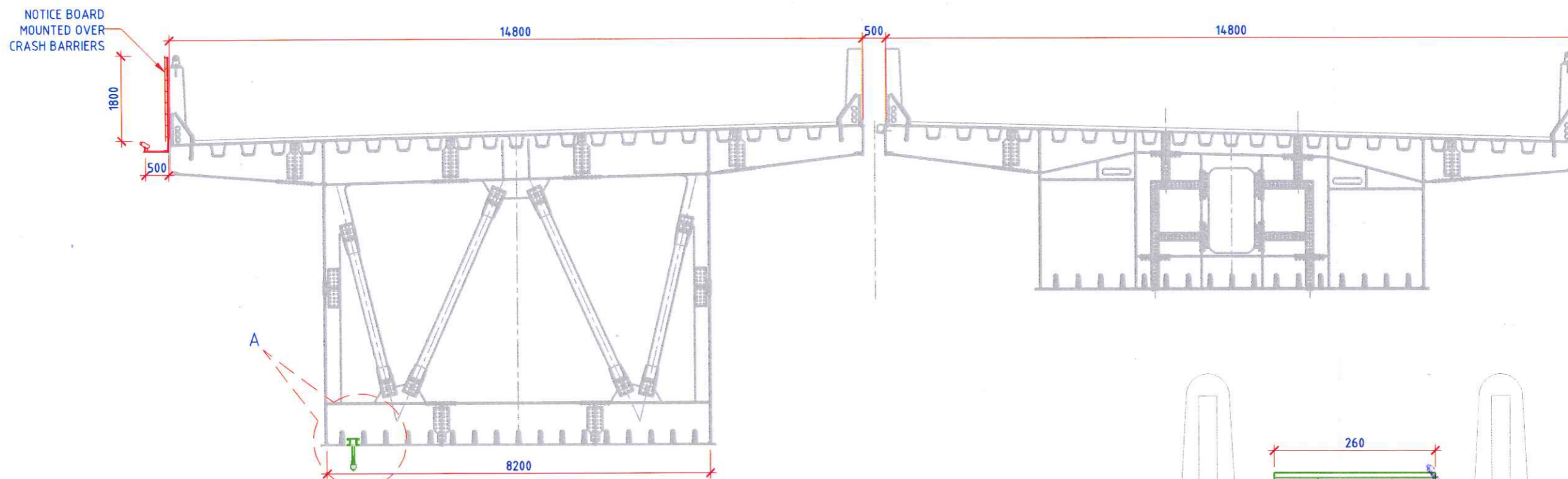
PROJECT NO: C1191101

DATE: 01/06/20

MADE: VVV

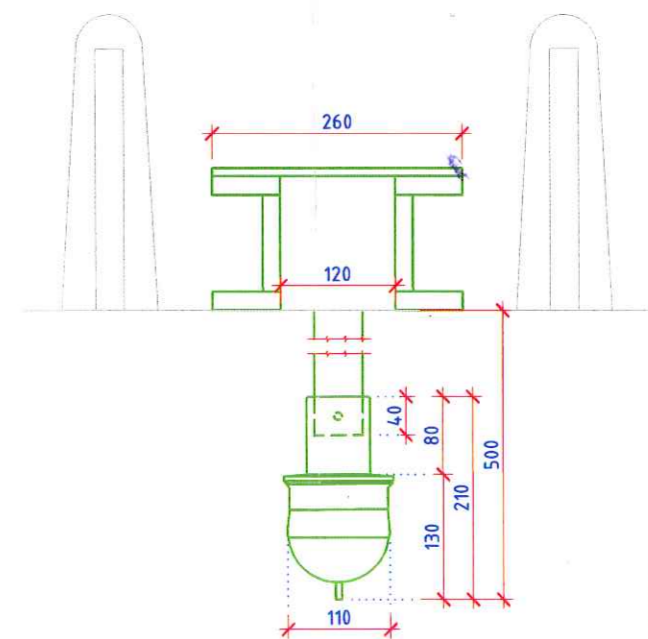
FIGURE NO: FD0008
REV: C

AUTO PATH: I:\FILE EXCHANGE\VVV\WA-001-RC-FINAL REPORT_01JUN20\FD0008-RC-VVVY-DETAILS OF NAVIGATIONAL AIDS FOR TTPS INTAKE & DISCHARGE CHANNEL SPAN - (OS-01).DWG



GIRDER CROSS SECTION
(DIRECTION TOWARDS SEWRI)

SCALE: 1:1250



DETAIL-A
CHANNEL MARKER LIGHT (RED/GREEN)

SCALE 1:7.5



NOTES:

1. ALL DIMENSION ARE IN MILLIMETRES.



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PATH: REFER BOTTOM LEFT CORNER OF THE DRAWING

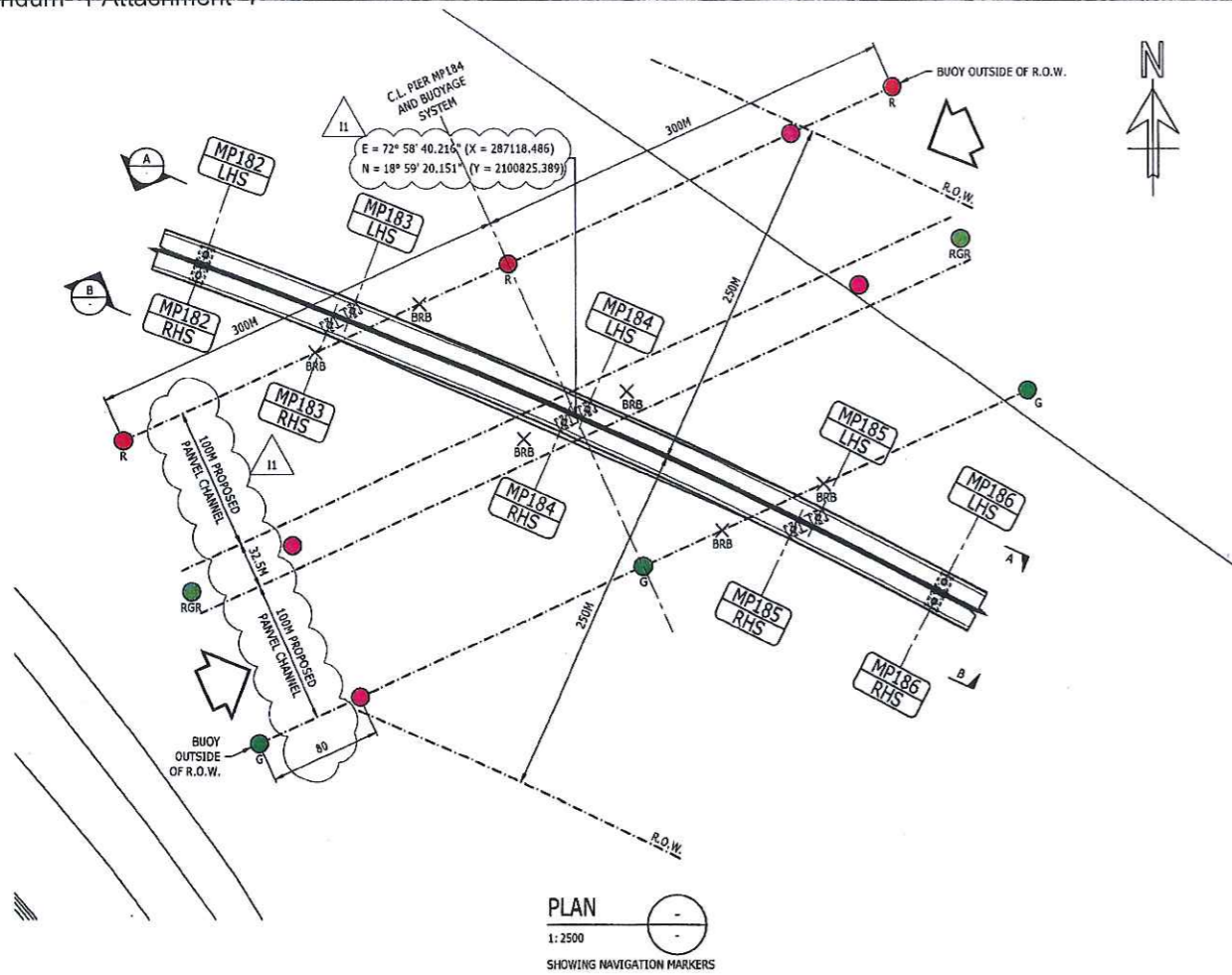
PROJECT:	NAVIGATIONAL AIDS FOR MTHL PACKAGE-1
TITLE:	SECTIONAL VIEW OF NAVIGATIONAL AIDS FOR TTPS INTAKE & DISCHARGE CHANNEL - (OS-01)



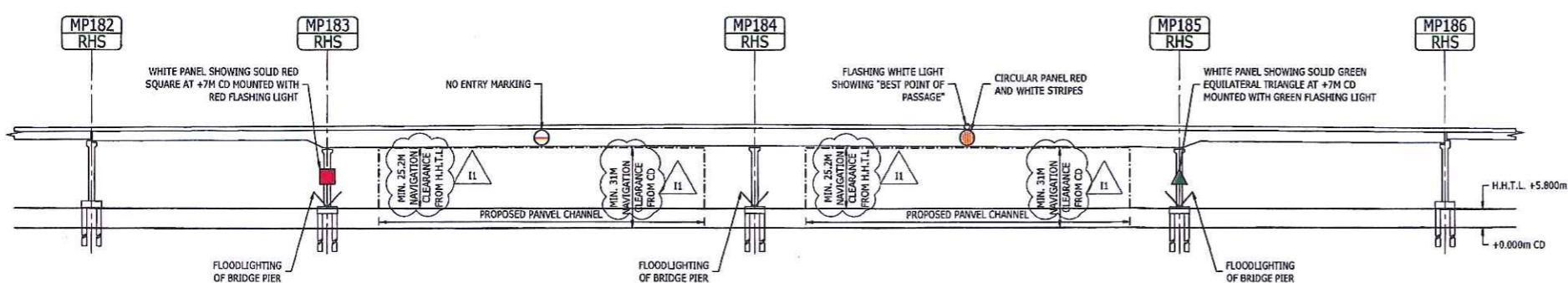
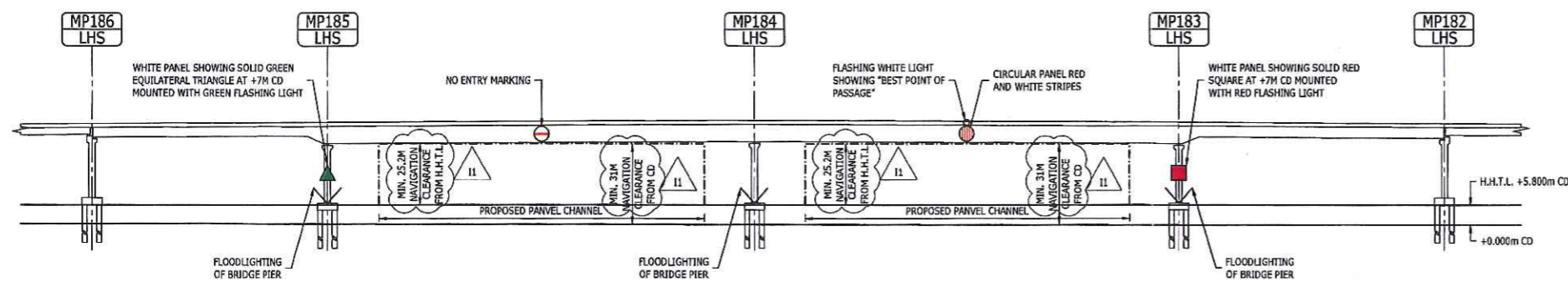
L&T Infrastructure Engineering Ltd.

REPORT NO:	MA-001
PROJECT NO:	C1191101
DATE:	01/06/20
MADE:	AST
FIGURE NO:	FD0009
REV:	C

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- NOTES**
- THE BUOYAGE SYSTEM COMPLIES WITH IALA ZONE A
 - ADDITIONAL OPTION OF SOLAR ENERGY AS AN ALTERNATE SOURCE OF POWER FOR THE BUOYS TO THE CONVENTIONAL SOURCE SHALL BE PROVIDED.
- KEY**
- RED PORT HAND LATERAL MARK
 - GREEN STARBOARD HAND LATERAL MARK
 - RED GREEN RED PREFERRED CHANNEL TO STARBOARD
 - AUXILIARY MARK SHOWING CLEARANCE HEIGHT +25.2M ABOVE H.H.T.L. TO BE LIT AT NIGHT
 - BLACK RED BLACK ISOLATED DANGER MARKS



Rev	Description	Date	Drawn	Chk	App
11	ISSUE	14.11.18	AGA	SK	AS
10	FIRST ISSUE	30.10.18	CAB	BF	MDN

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Drawing Title: NAVIGATION MARKERS

Drawn: C.Bargent	Date: OCT.2018	Scale (at A1): AS SHOWN
Drawing No: MX-SK-0001	Status: INITIAL	Page 17 of 29

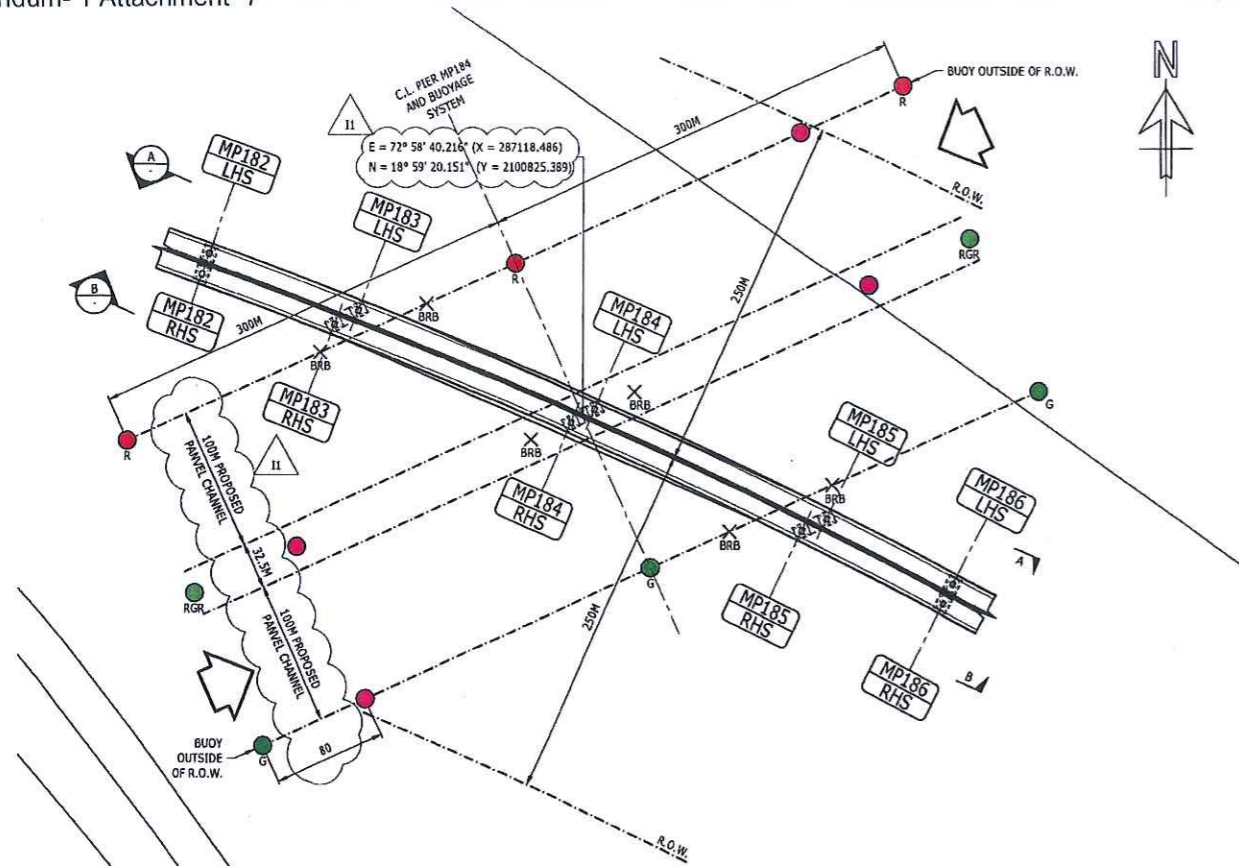
Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
 2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

EPC Contractor
DAEWOO-TPL JOINT VENTURE
 11TH FLOOR, HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant
WS ATKINS INDIA PVT. LTD.
 18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL INDIA PVT. LTD.
 LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002
 PH: +91-124-4611999

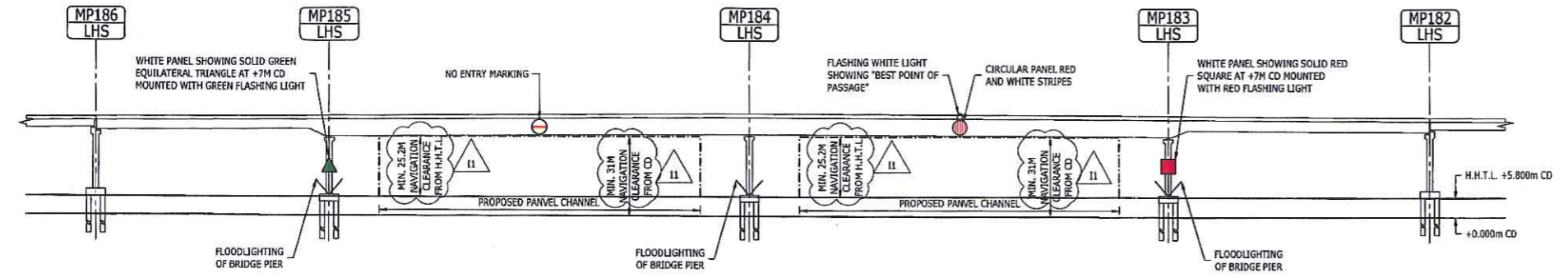
Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)



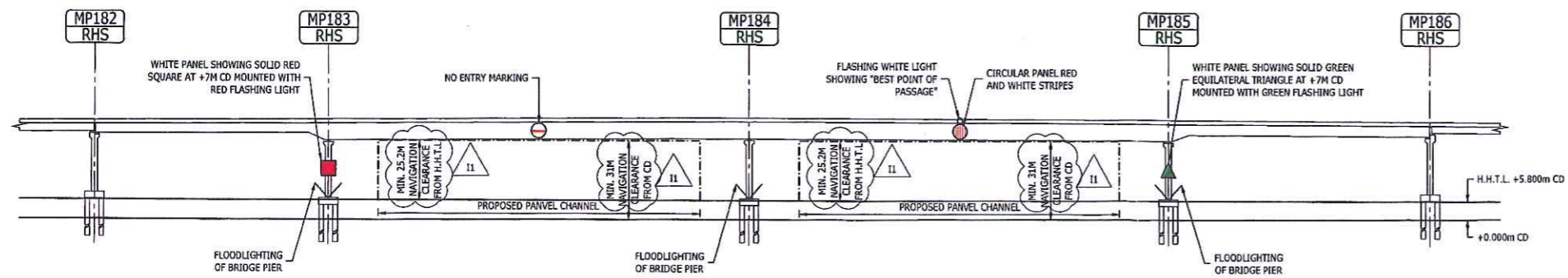
PLAN
1: 2500
SHOWING NAVIGATION MARKERS



- NOTES**
- 000372
- THE BUOYAGE SYSTEM COMPLIES WITH IALA ZONE A.
 - ADDITIONAL OPTION OF SOLAR ENERGY AS AN ALTERNATE SOURCE OF POWER FOR THE BUOYS TO THE CONVENTIONAL SOURCE SHALL BE PROVIDED.
- KEY**
- RED PORT HAND LATERAL MARK
 - GREEN STARBOARD HAND LATERAL MARK
 - RED GREEN RED PREFERRED CHANNEL TO STARBOARD
 - AUXILIARY MARK SHOWING CLEARANCE HEIGHT +25.2M ABOVE H.H.T.L. TO BE LIT AT NIGHT
 - BLACK RED BLACK ISOLATED DANGER MARKS



ELEVATION A-A
1: 1250



ELEVATION B-B
1: 1250

Rev	Description	Date	Drawn	Chk	App
11	ISSUE	14.11.18	ACA	SK	AS
10	FIRST ISSUE	30.10.18	CAB	BF	MDN

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BANDRA (E), MUMBAI-400051.

EPC Contractor:
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11TH FLOOR,
HIRANANDANI KNOWLEDGE PARK,
TECHNOLOGY STREET,
POWAI,
MUMBAI-400076.

Independent Design Consultant:
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18th & 19th FLOOR, TOWER-C,
DLF CYBER GREENS
DLF CYBER CITY, PHASE-III,
SECTOR 24, GURUGRAM,
HARYANA - 122002

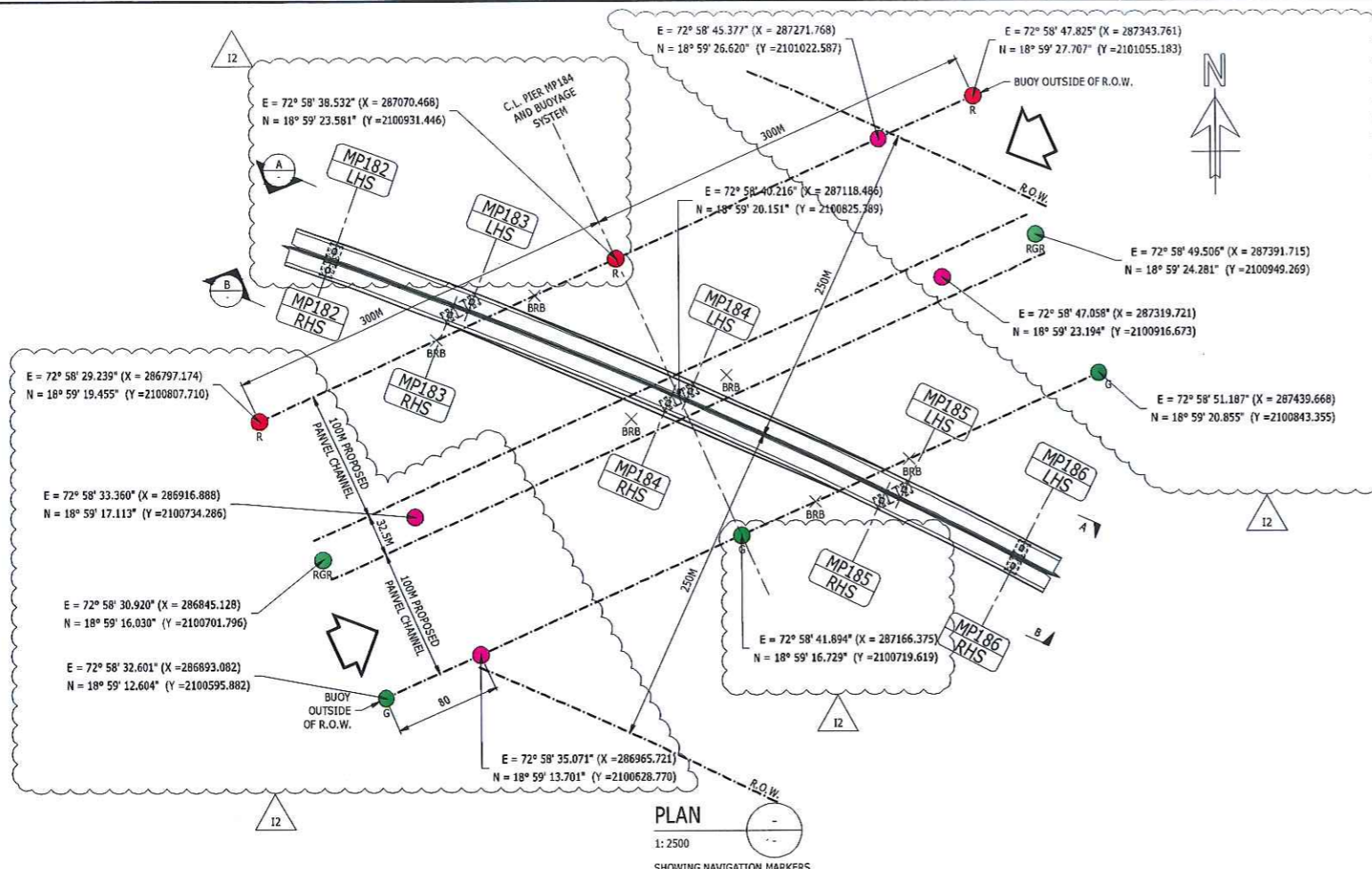
Design Consultant:
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B,
BUILDING NO.5 DLF CYBER CITY,
PHASE-III,
GURUGRAM-122002
PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT
(PACKAGE-2) (CONSTRUCTION OF A 7.807 KM
LONG BRIDGE SECTION (CH:10+380-CH:18+187)
ACROSS THE MUMBAI BAY INCLUDING
SHIVAJI NAGAR INTERCHANGE)

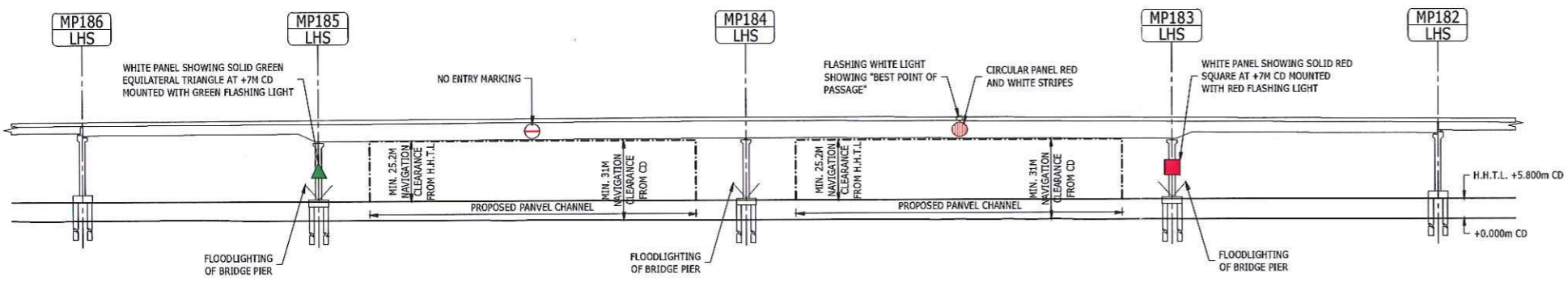
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Drawn: C.Bargent **Date:** OCT.2018 **Scale (at A1):** AS SHOWN

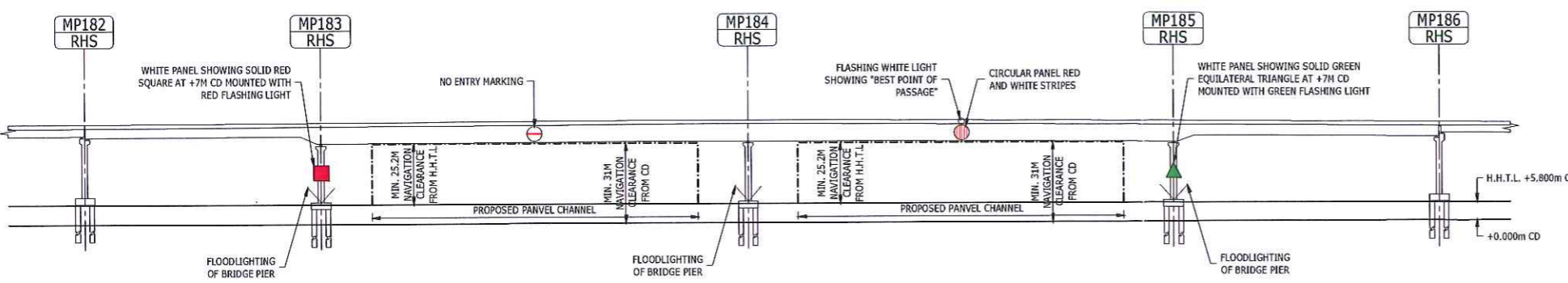
Drawing No.: MX-SK-0001 **Status:** INITIAL **Page 28 of 29**



PLAN
1: 2500
SHOWING NAVIGATION MARKERS



ELEVATION A-A
1: 1250



ELEVATION B-B
1: 1250

- NOTES**
- THE BUOYAGE SYSTEM COMPLIES WITH IALA ZONE A.
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Rev	Description	Date	Drawn	Chk	App
12	AS CLOUDED	26.12.16	NSB	SK	AS
11	ISSUE	14.11.16	AGA	SK	AS
10	FIRST ISSUE	30.10.16	CAB	BF	MDN

Cilent:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
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PLOT NO. R-05, R-06 & R-12, 'E' BLOCK,
BANDRA-KURLA COMPLEX,
BANDRA (E), MUMBAI-400051.

EPC Contractor
DAEWOO-TPL JOINT VENTURE
11TH FLOOR
HIRANANDANI KNOWLEDGE PARK,
TECHNOLOGY STREET,
POWAI,
MUMBAI-400076.

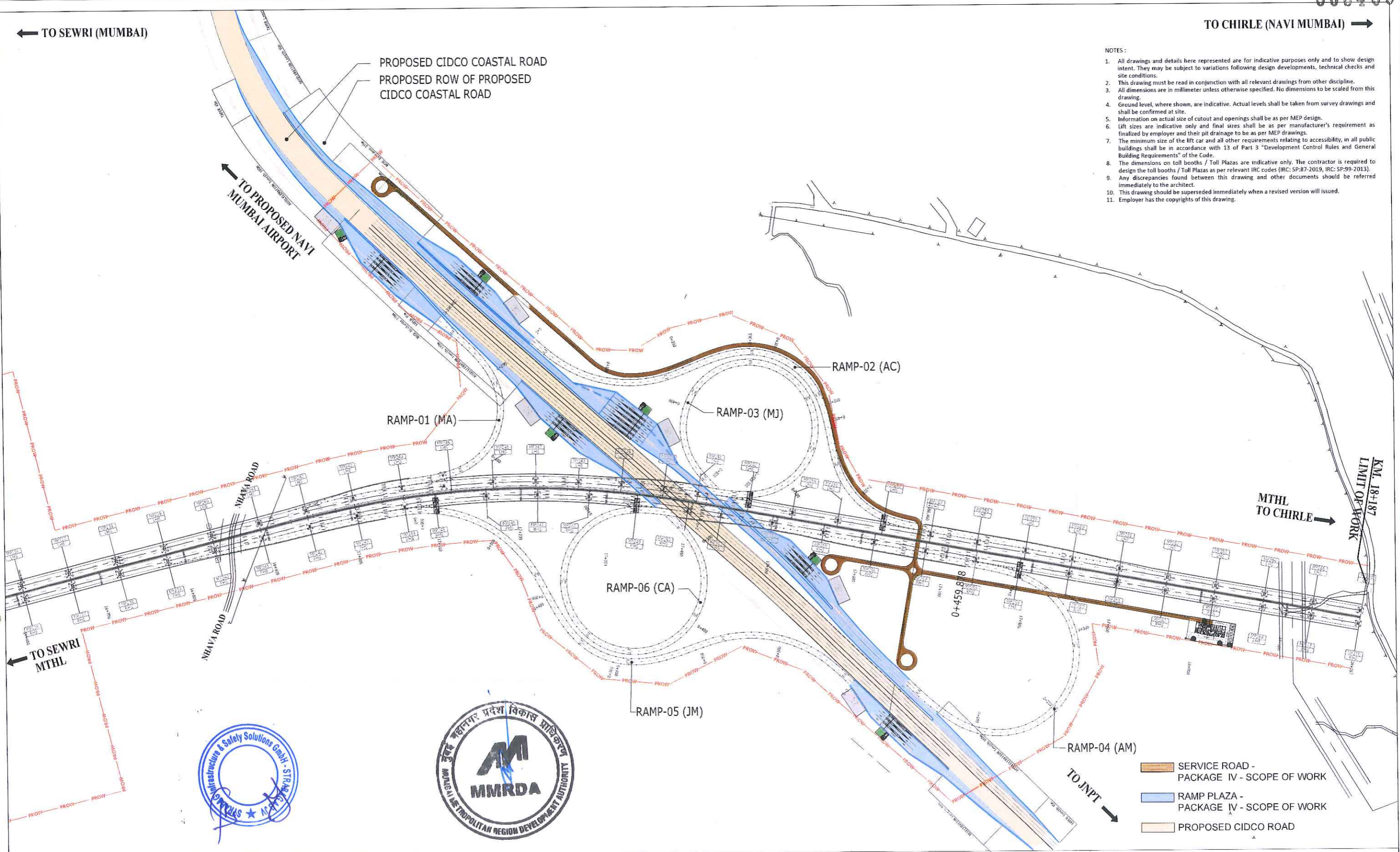
Independent Design Consultant
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C,
DLF CYBER GREENS
DLF CYBER CITY, PHASE-III,
SECTOR 24, GURUGRAM,
HARYANA - 122002

Design Consultant:
RAMBOLL INDIA PVT LTD.
18th & 19th FLOOR, TOWER-B,
BUILDING NO.5 DLF CYBER CITY,
PHASE-III,
GURUGRAM-122002
PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT
(PACKAGE-2) (CONSTRUCTION OF A 7.807 KM
LONG BRIDGE SECTION (CH:10+380-CH:18+187)
ACROSS THE MUMBAI BAY INCLUDING
SHIVAJI NAGAR INTERCHANGE)

Drawing title: NAVIGATION MARKERS

Drawn: C.Bargent	Date: OCT.2018	Scale (at A1): AS SHOWN
Drawing No.: MX-SK-0001	Status: INITIAL	Revision: 12



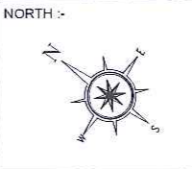
- NOTES :
1. All drawings and details here represented are for indicative purposes only and to show design intent. They may be subject to variations following design developments, technical checks and site conditions.
 2. This drawing must be read in conjunction with all relevant drawings from other discipline.
 3. All dimensions are in millimeter unless otherwise specified. No dimensions to be scaled from this drawing.
 4. Ground level, where shown, are indicative. Actual levels shall be taken from survey drawings and shall be confirmed at site.
 5. Information on actual size of cutout and openings shall be as per MEP design.
 6. Lift sizes are indicative only and final sizes shall be as per manufacturer's requirement as finalized by employer and their pit drainage to be as per MEP drawings.
 7. The minimum size of the lift car and all other requirements relating to accessibility, in all public buildings shall be in accordance with 13 of Part 3 "Development Control Rules and General Building Requirements" of the Code.
 8. The dimensions on toll booths / Toll Plazas are indicative only. The contractor is required to design the toll booths / Toll Plazas as per relevant IRC codes (IRC: 5P:87-2019, IRC: 5P:99-2013).
 9. Any discrepancies found between this drawing and other documents should be referred immediately to the architect.
 10. This drawing should be superseded immediately when a revised version will issued.
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NAME	SIGN
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CHECKED BY SB	
APPROVED BY TKS	

MMRDA
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

PROJECT :- **MUMBAI TRANS HARBOUR LINK PROJECT PACKAGE 4 - TENDER DRAWING**

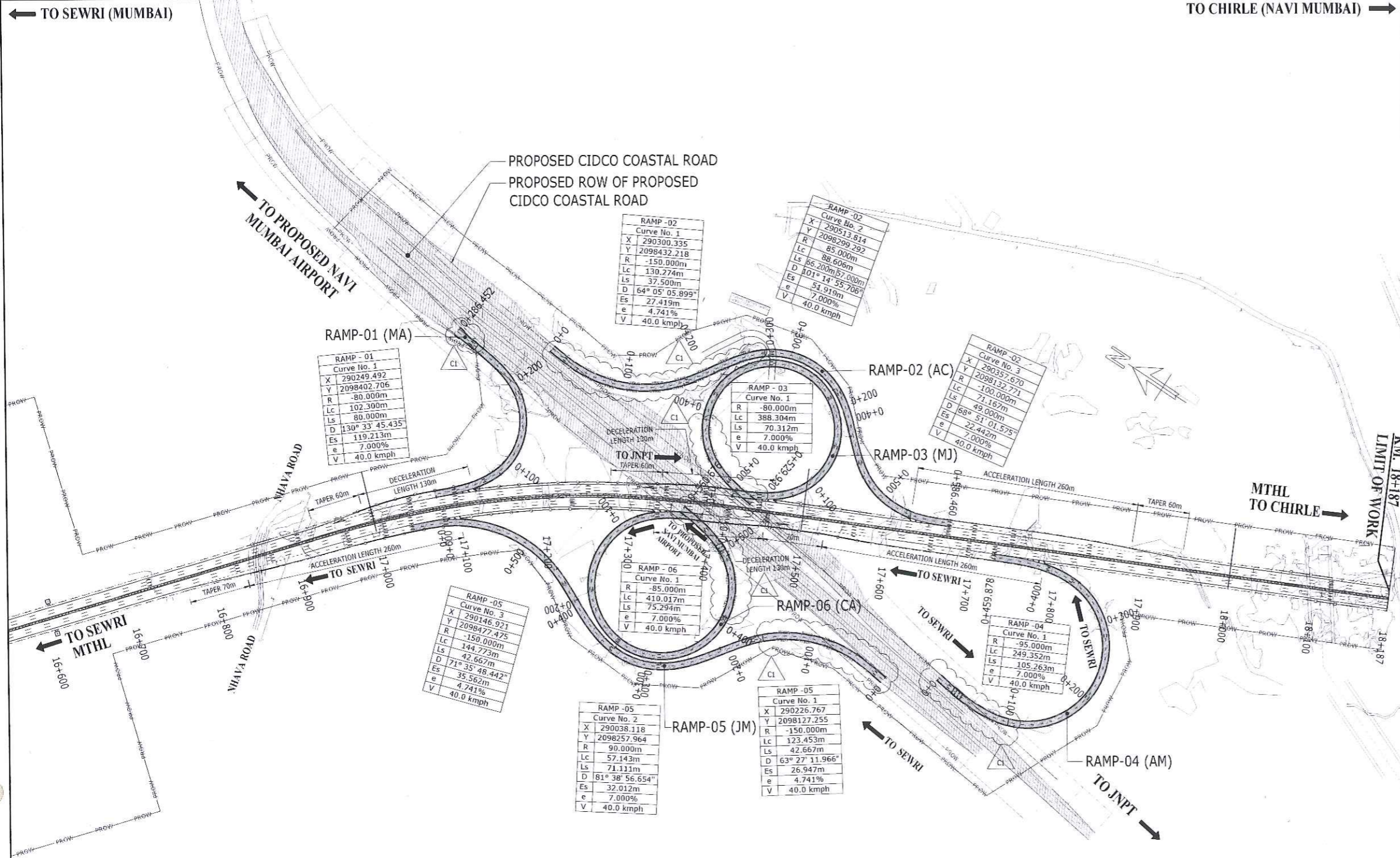


TITLE :- SHIVAJINAGAR INTERCHANGE RAMP PLAZA LOCATION PLAN			
DATE: 23.11.2021	DRAWING NO: SN-AR-01	PAPER SIZE: A1	REV: B

© pratikmmrda\mhl\package - 4\final tender drawings - 20.07.21\attachments\service road length - shiraj n.dwg 5-03-21 pratik garde monochrome.ctb

← TO SEWRI (MUMBAI)

TO CHIRLE (NAVI MUMBAI) →



NOTES

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- FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
- LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.

LEGEND:-

BY OTHERS (hatched area)

MTHL PACKAGE-2 (solid grey area)

GOOD FOR CONSTRUCTION

Rev	Description	Date	Drawn	Chk.	App.
C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
CD	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
14	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
13	INITIAL DESIGN - GENERAL UPDATE	28.11.18	NSB	RP	AS
12	INITIAL DESIGN - GENERAL UPDATE	18.10.18	NSB	RP	AS
11	INITIAL DESIGN - GENERAL UPDATE	28.08.18	NSB	RP	AS
10	INITIAL DESIGN	27.06.18	AGA	RP	AS

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General consultant:
AECOM PADECO

A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
TATA PROJECTS

DAEWOO E&C

DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS

WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

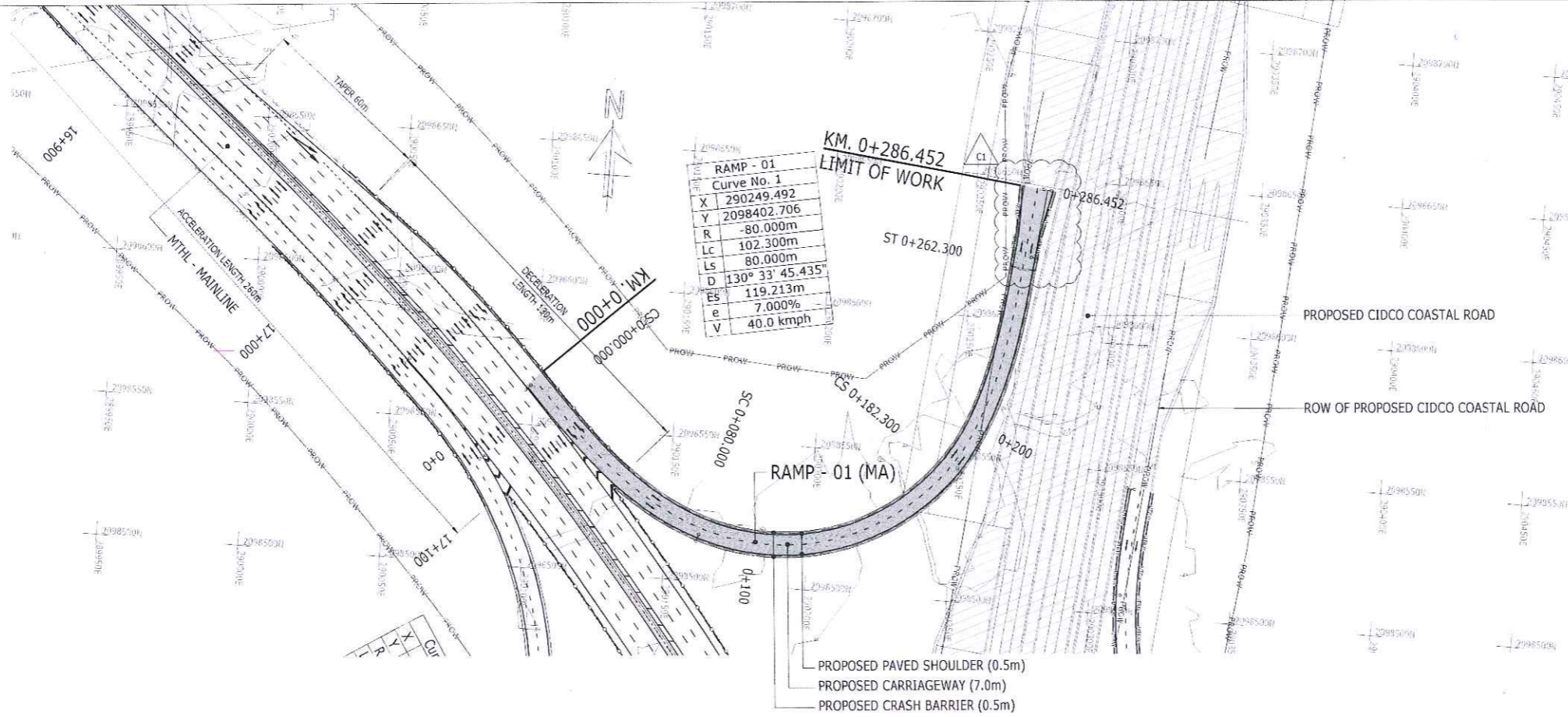
Design Consultant:
RAMBOLL

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Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

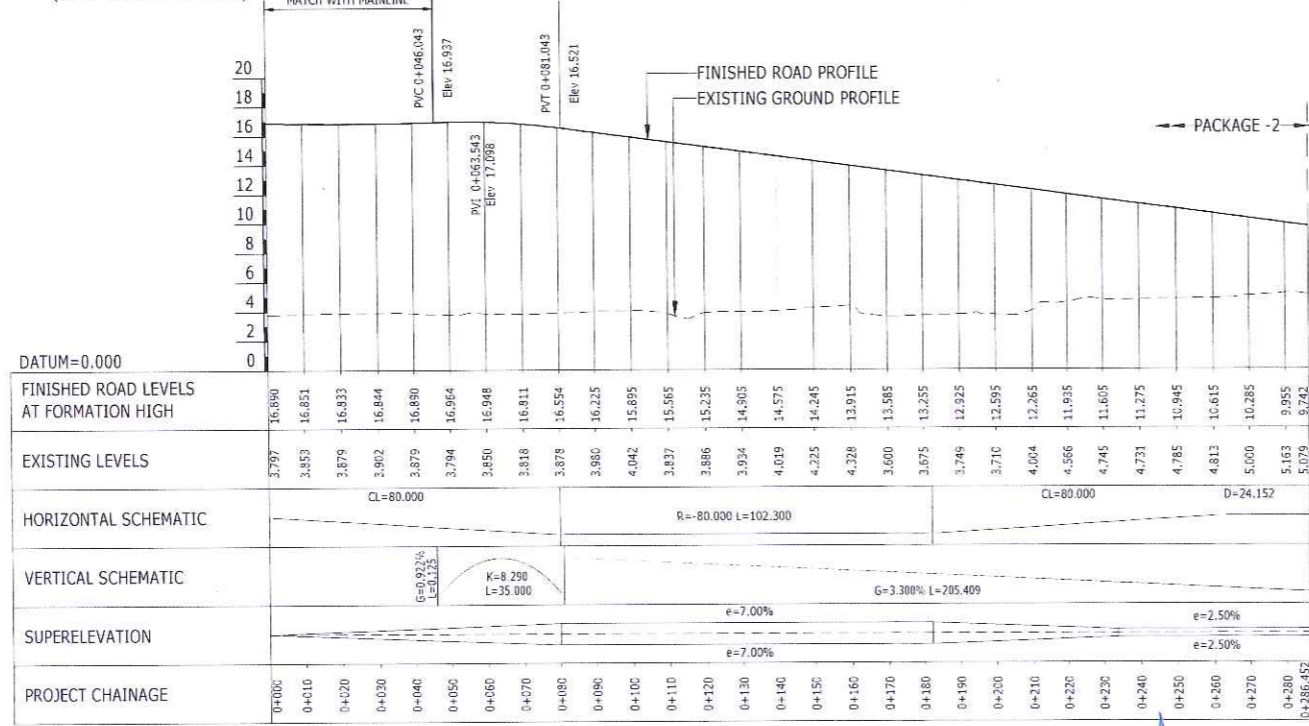
Drawing title:
SHIVAJI NAGAR INTERCHANGE GENERAL LAYOUT PLAN

Drawn: A.G Agrawal Date: JUN, 2018 Scale: (at A1) 1:2500
Drawing No: HX-SI-0161 Status: CONSTRUCTION Revision: C1



RAMP-01 PLAN
SCALE 1:1000

← MTHL (SEWRI / MUMBAI) PROPOSED NAVI MUMBAI AIRPORT →



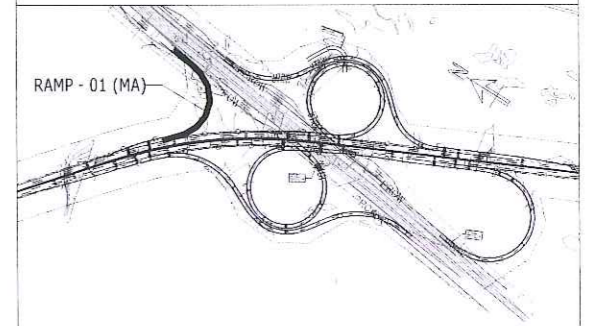
RAMP-01 LONGITUDINAL SECTION
SCALE H-1:1000, V-1:250

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 - FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
 - LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.

LEGEND:-

- BY OTHERS
- MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



KEY PLAN

Rev	Description	Date	Drawn	Chk	App
C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
C0	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
15	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
14	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
13	VERTICAL PROFILE UPDATED	16.10.18	NSB	RP	AS
12	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
11	INITIAL DESIGN - GENERAL UPDATE	28.08.18	NSB	RP	AS
10	INITIAL DESIGN	27.06.18	AGA	RP	AS

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General consultant:
AECOM PADECO
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
TATA PROJECTS
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

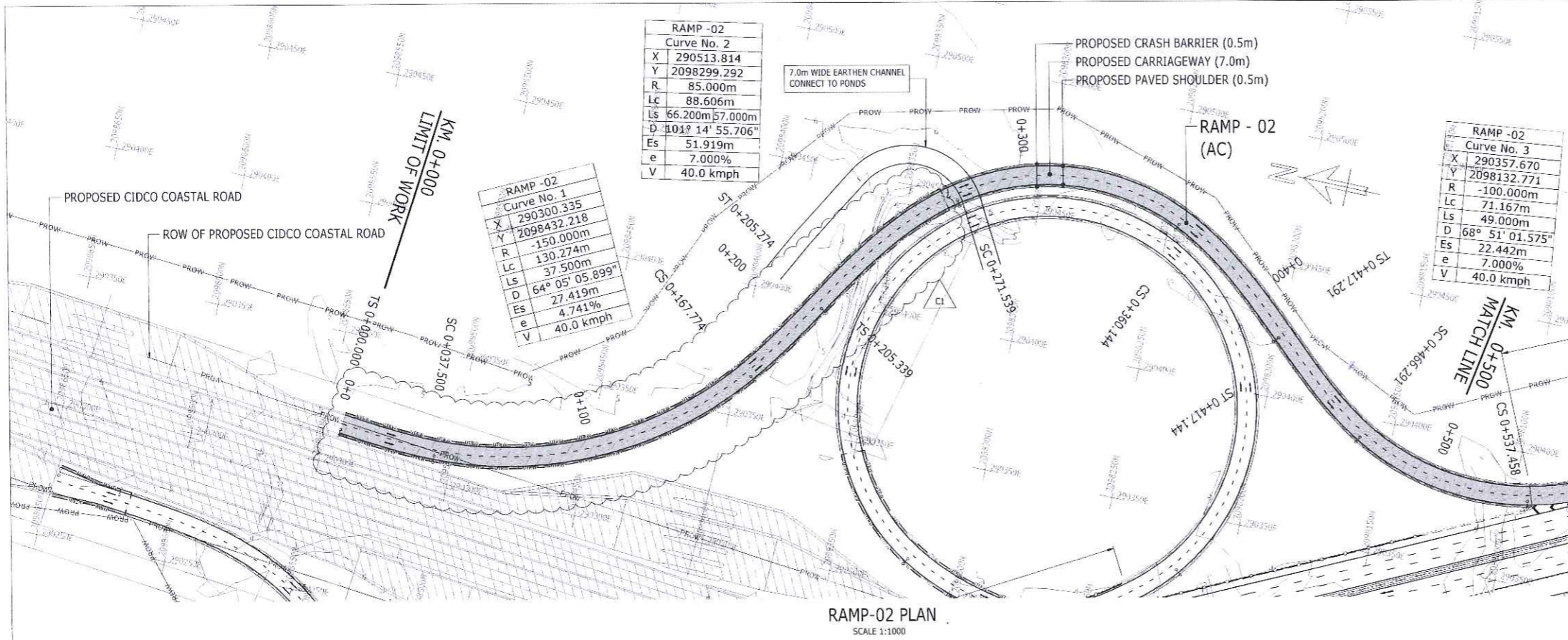
Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
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Drawing title:
SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-01 KM. 0+000 TO KM. 0+286.452

Drawn: A.G.Agrawal Date: JUN.2018 Scale: (at A1) AS SHOWN
Drawing No: HX-SI-0171 Status: CONSTRUCTION Revision: C1



RAMP-02 PLAN
SCALE 1:1000

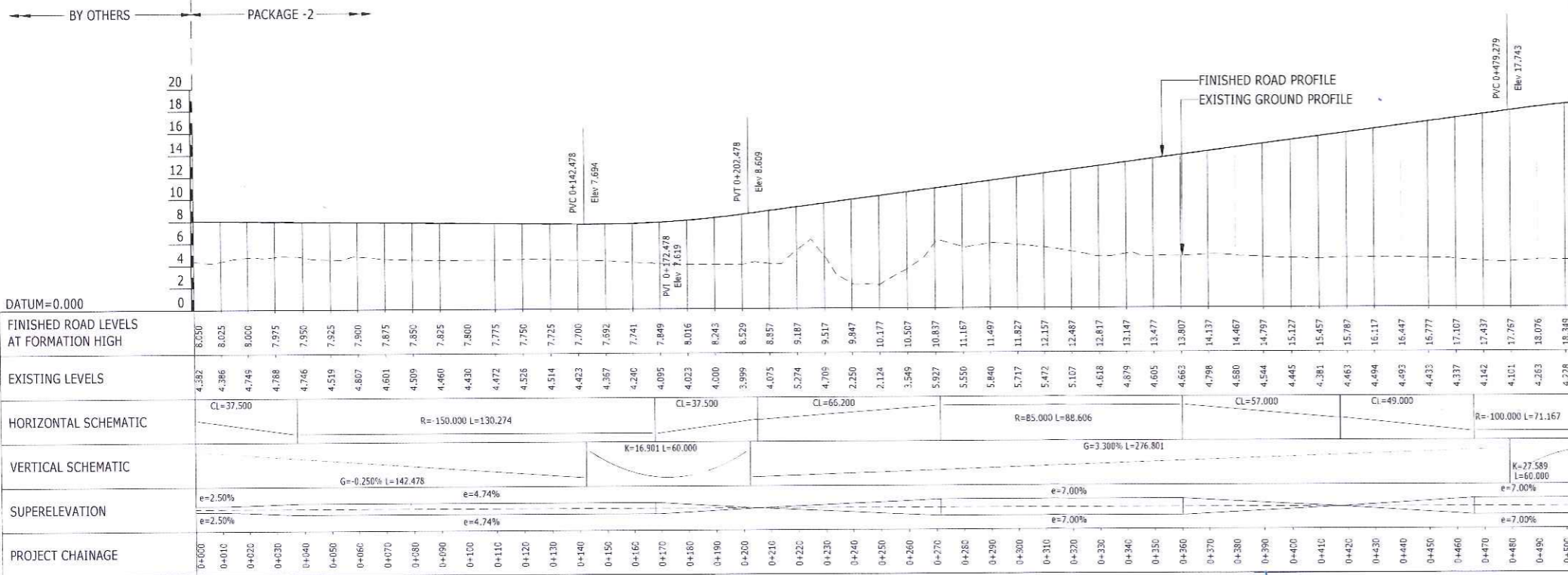
NOTES

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- FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
- LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.



← PROPOSED NAVI MUMBAI AIRPORT

MTHL (CHIRLE) →



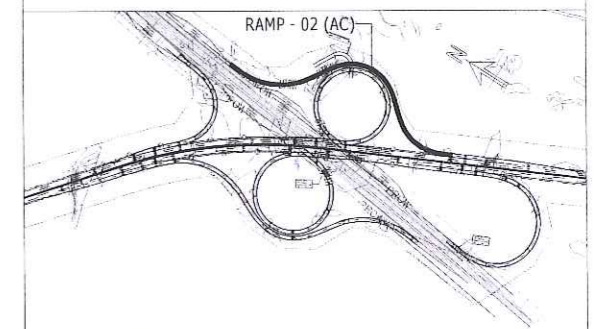
RAMP-02 LONGITUDINAL SECTION
SCALE H:1:1000, V:1:250



LEGEND:-

	BY OTHERS
	MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



KEY PLAN

Rev	Description	Date	Drawn	Chk	App
C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
CD	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
15	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
14	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
13	VERTICAL PROFILE UPDATED	18.10.18	NSB	RP	AS
12	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
11	INITIAL DESIGN - GENERAL UPDATE	26.08.18	NSB	RP	AS
10	INITIAL DESIGN	27.06.18	AGA	RP	AS

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General consultant:
AECOM PADECO

EPC Contractor:
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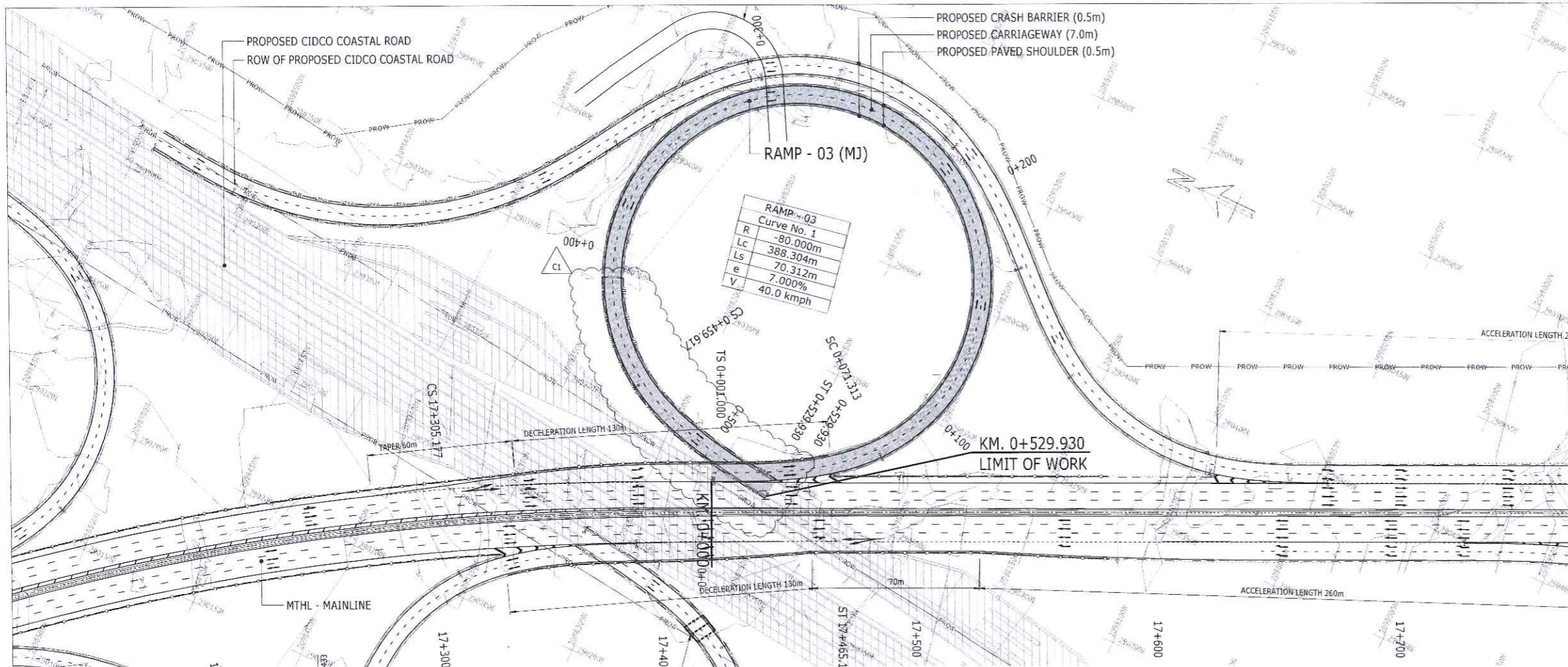
Independent Design Consultant:
ATKINS

Design Consultant:
RAMBOLL

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title:
SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-02 KM. 0+000 TO KM. 0+500

Drawn:	A.C.Agrawal	Date:	JUN.2018	Scale (at A1):	AS SHOWN
Drawing No.:	HX-SI-0172	Status:	CONSTRUCTION	Revision:	C1



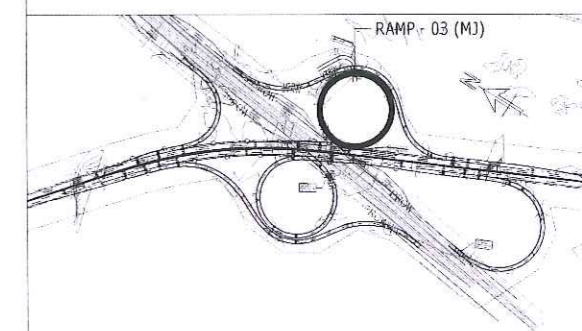
- NOTES**
- HORIZONTAL AND VERTICAL ALIGNMENT IS AS PER EMPLOYER'S OUTLINE DRAWING B-001-B-048_MAIN & INTERCHANGE THE BEARING AND COORDINATES SHOWN ARE BASED ON THE WGS84 DATUM IN UTM PROJECTION.
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 - LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.



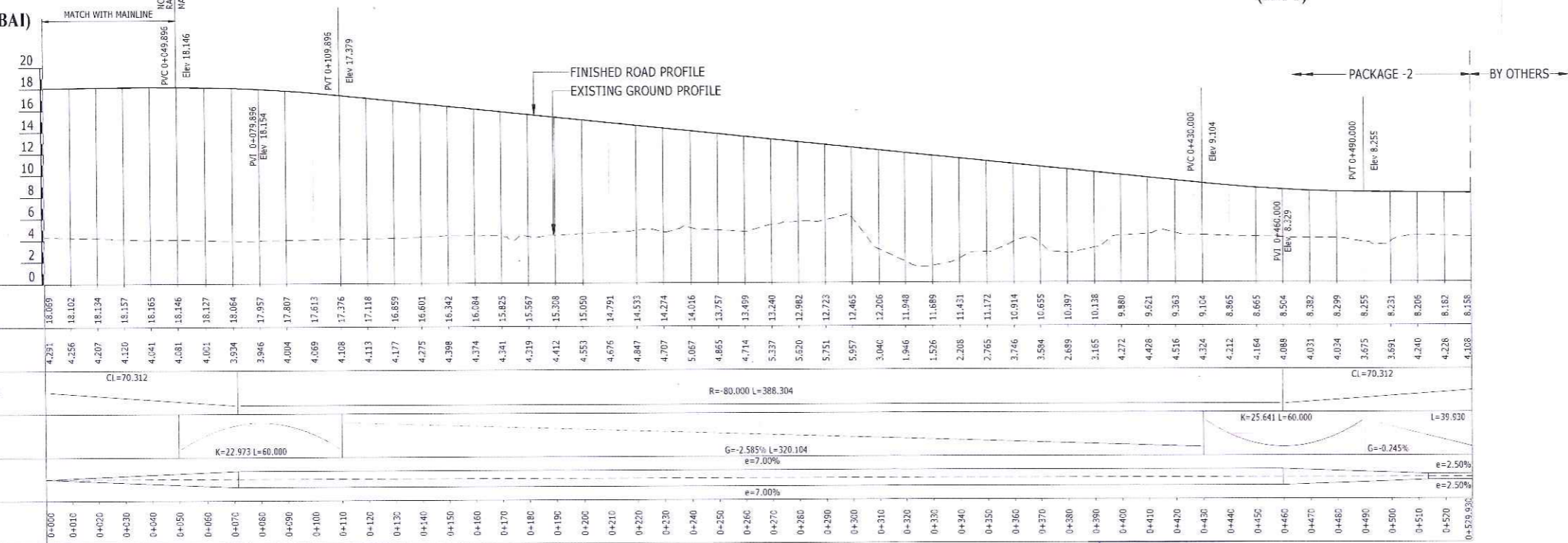
LEGEND:-

- BY OTHERS
- MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



MTHL (SEWRI / MUMBAI)



REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK.	APP.
C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
C0	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
I5	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
I4	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
I3	VERTICAL PROFILE UPDATED	18.10.18	NSB	RP	AS
I2	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
I1	INITIAL DESIGN - GENERAL UPDATE	28.08.18	NSB	RP	AS
I0	INITIAL DESIGN	27.06.18	AGA	RP	AS

Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY



General consultant:
AECOM PADECO

EPC Contractor:
DAEWOO E&C TATA PROJECTS

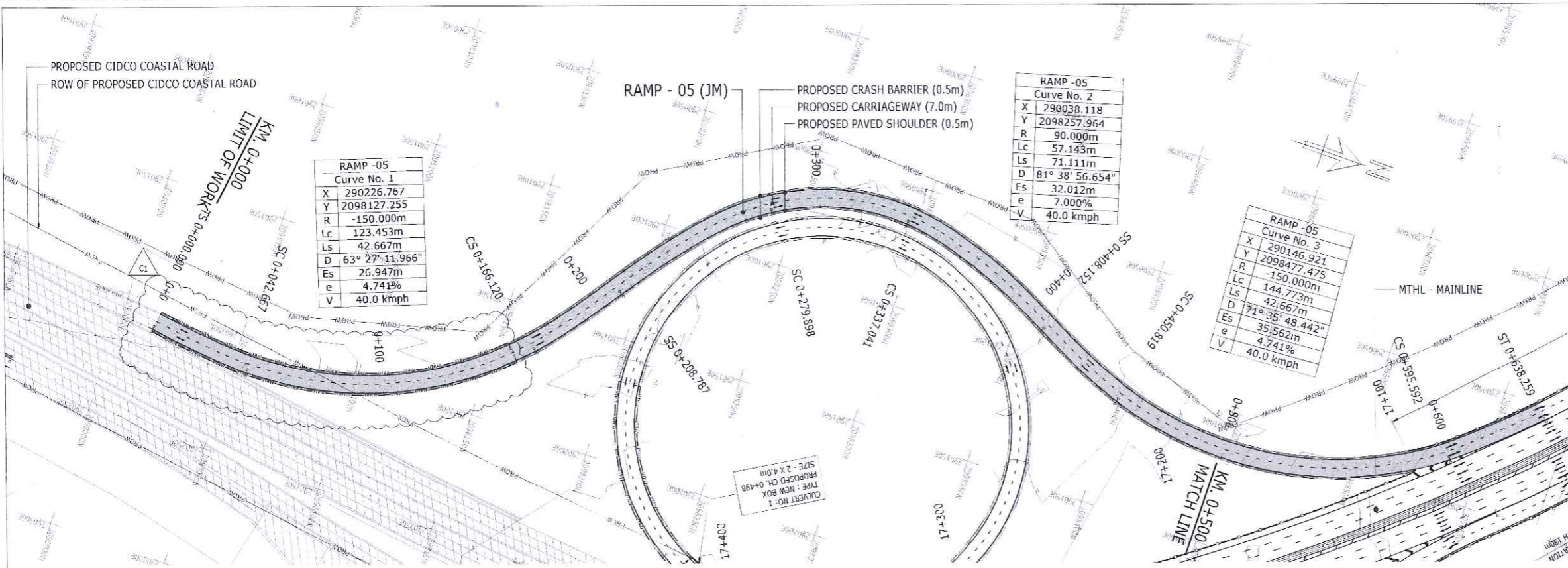
Independent Design Consultant:
ATKINS

Design Consultant:
RAMBOLL

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-03 KM. 0+000 TO KM. 0+529.930

Drawn: A.G.Agrawal Date: JUN, 2018 Scale: (as is) AS SHOWN
Drawing No: HX-SI-0174 Status: CONSTRUCTION Revision: C1

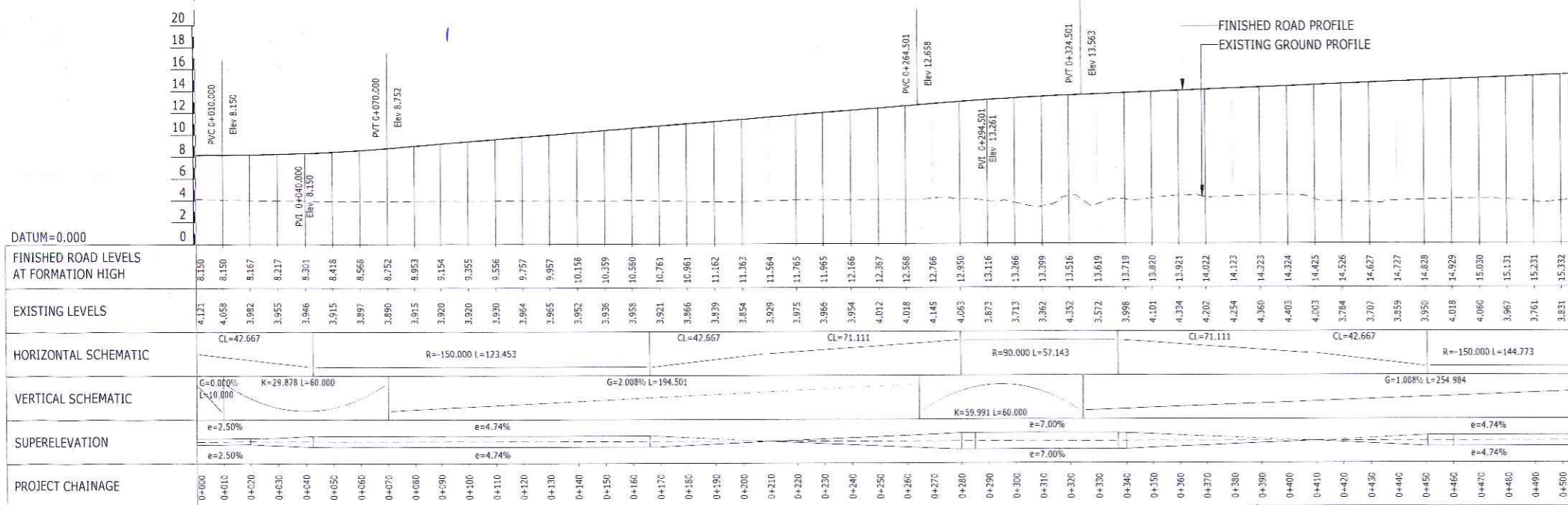


RAMP-05 PLAN
SCALE 1:1000

← PROPOSED CIDCO COASTAL ROAD (JNPT)

MTHL (SEWRI / MUMBAI) →

← BY OTHERS PACKAGE -2 →



RAMP-05 LONGITUDINAL SECTION
SCALE H:1:1000, V:1:250

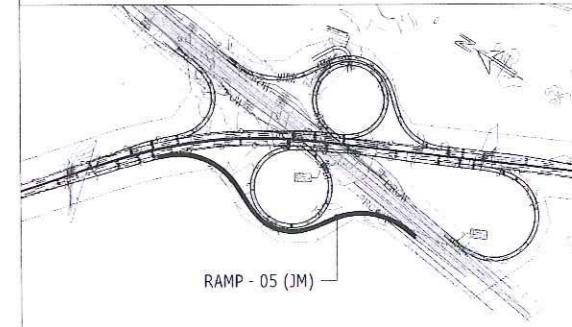
- 000170
- NOTES
- HORIZONTAL AND VERTICAL ALIGNMENT IS SUPEREMPLOYER'S OUTLINE DRAWING B-001-B-048 MAIN & INTERCHANGE. THE BEARING AND COORDINATES SHOWN ARE BASED ON THE WGS84 DATUM, UTM PROJECTION.
 - ELEVATIONS SHOWN ARE REFERENCED TO CHART DATUM.
 - ALL DIMENSIONS AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
 - THE PROPOSED CHAINAGES ARE IN X+Y FORMAT, WHERE 'X' IS IN KILOMETRES AND 'Y' IS IN METRES.
 - HORIZONTAL AND VERTICAL ALIGNMENTS OF INTERCHANGE RAMP ARE DESIGNED AT CARRIAGEWAY EDGE.
 - FOR LEGENDS AND ABBREVIATIONS REFER DRAWING No. HX-ML-0011
 - FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
 - LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.



LEGEND:-

	BY OTHERS
	MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



KEY PLAN

C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
C0	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
I5	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
I4	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
I3	VERTICAL PROFILE UPDATED	18.10.18	NSB	RP	AS
I2	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
I1	INITIAL DESIGN - GENERAL UPDATE	28.08.18	NSB	RP	AS
I0	INITIAL DESIGN	27.06.18	AGA	RP	AS

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Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.

General consultant:
AECOM PADECO
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

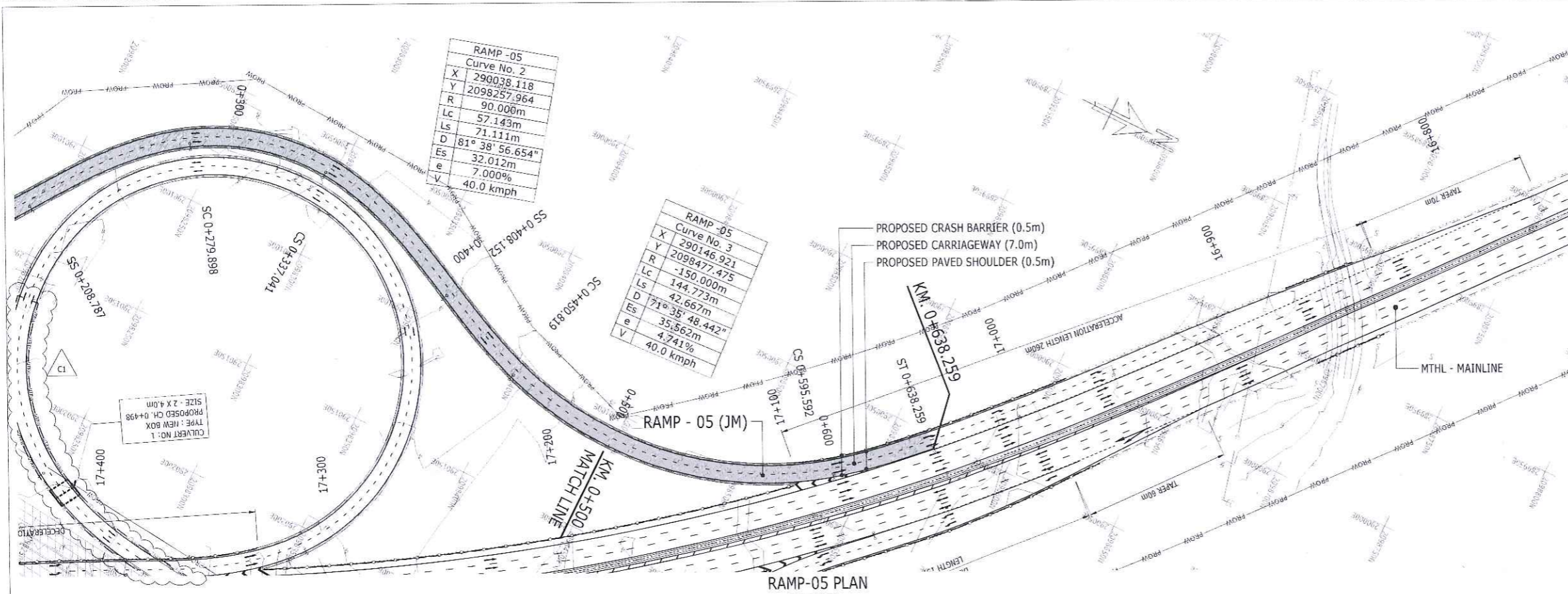
Independent Design Consultant:
ATKINS
WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title: SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-05 KM. 0+000 TO 0+500

Drawn: A.G.Agrawal	Date: JUN.2018	Scale: (as shown)
Drawing No: HX-SI-0177	Status: CONSTRUCTION	Revision: C1



- 000471
- HORIZONTAL AND VERTICAL ALIGNMENT DATA IS PER EMPLOYER'S OUTLINE DRAWING B-001-B-048 MAIN & INTERCHANGE. THE BEARING AND COORDINATES SHOWN ARE BASED ON THE WGS84 DATUM, UTM PROJECTION.
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 - FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
 - LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.

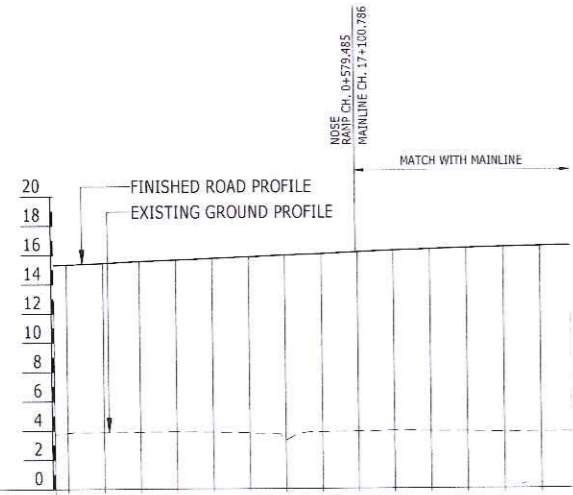
← PROPOSED CIDCO COASTAL ROAD (JNPT) MTHL (SEWRI / MUMBAI) →

RAMP-05 PLAN
SCALE 1:1000

LEGEND:-

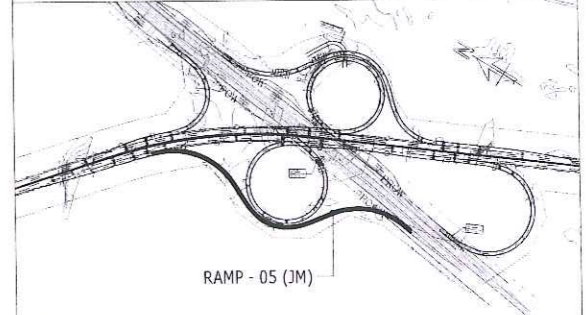
	BY OTHERS
	MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



DATUM=0.000	
FINISHED ROAD LEVELS AT FORMATION HIGH	15.332, 15.433, 15.534, 15.635, 15.735, 15.836, 15.937, 16.038, 16.139, 16.239, 16.325, 16.399, 16.400, 16.512, 16.554
EXISTING LEVELS	3.831, 3.855, 3.861, 3.897, 3.894, 3.864, 3.301, 3.864, 3.889, 3.914, 3.899, 3.867, 3.835, 3.829, 3.840
HORIZONTAL SCHEMATIC	R=150.000 L=144.773
VERTICAL SCHEMATIC	G=1.000% L=254.984
SUPERELEVATION	e=4.74% AS PER MAINLINE
PROJECT CHAINAGE	0+500, 0+510, 0+520, 0+530, 0+540, 0+550, 0+560, 0+570, 0+580, 0+590, 0+600, 0+610, 0+620, 0+630, 0+638.259

RAMP-05 LONGITUDINAL SECTION
SCALE H:1:1000, V:1:250



KEY PLAN

C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
C0	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
I5	TEMPLATE UPDATED	29.01.19	NSB	RP	AS
I4	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
I3	VERTICAL PROFILE UPDATED	18.10.18	NSB	RP	AS
I2	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
I1	INITIAL DESIGN - GENERAL UPDATE	26.08.18	NSB	RP	AS
I0	INITIAL DESIGN	27.06.18	AGA	RP	AS

Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY



General consultant:
AECOM PADECO
A-1, UNIT NO. 115, MMRDA BUILDING, FIRST FLOOR, NEAR WADALA RTO, WADALA EAST, MUMBAI-400037

EPC Contractor:
DAEWOO E&C
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

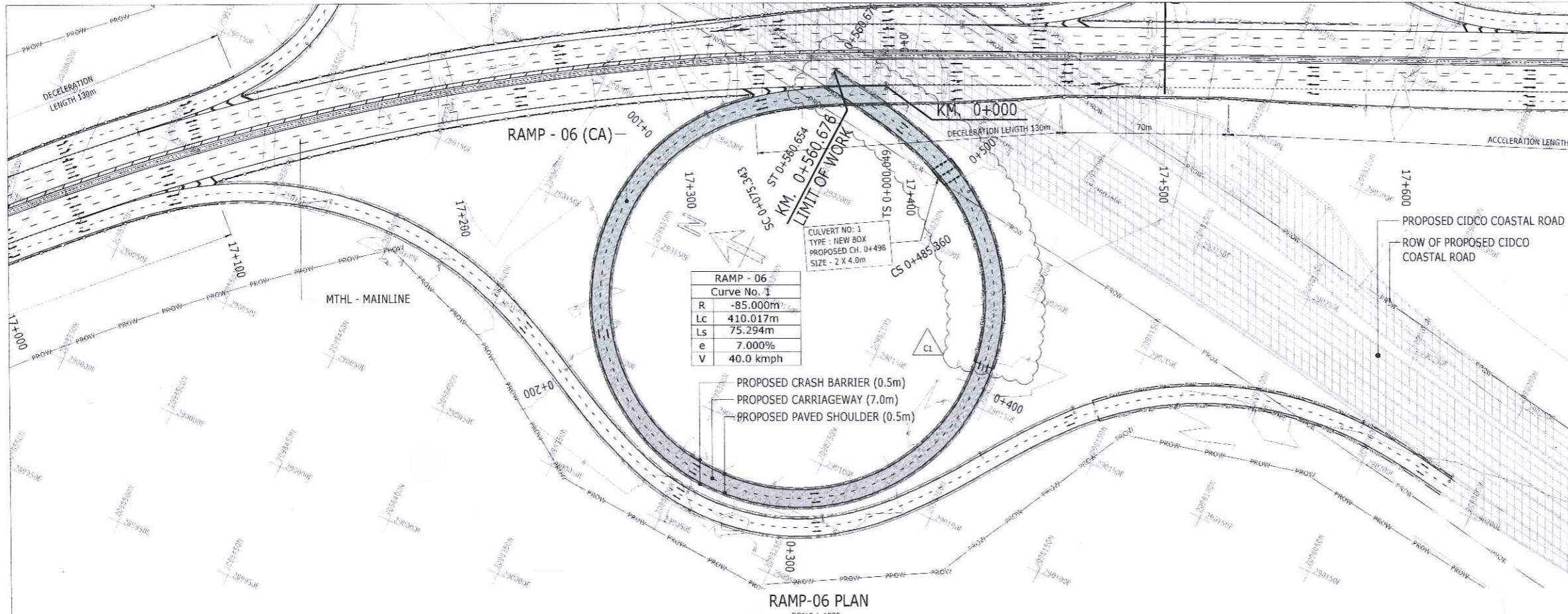
Independent Design Consultant:
ATKINS
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL
RAMBOLL INDIA PVT LTD. LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE-2) (CONSTRUCTION OF A 7.807 KM LONG BRIDGE SECTION (CH:10+380-CH:18+187) ACROSS THE MUMBAI BAY INCLUDING SHIVAJI NAGAR INTERCHANGE)

Drawing title: **SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-05 KM. 0+500 TO KM. 0+638.259**

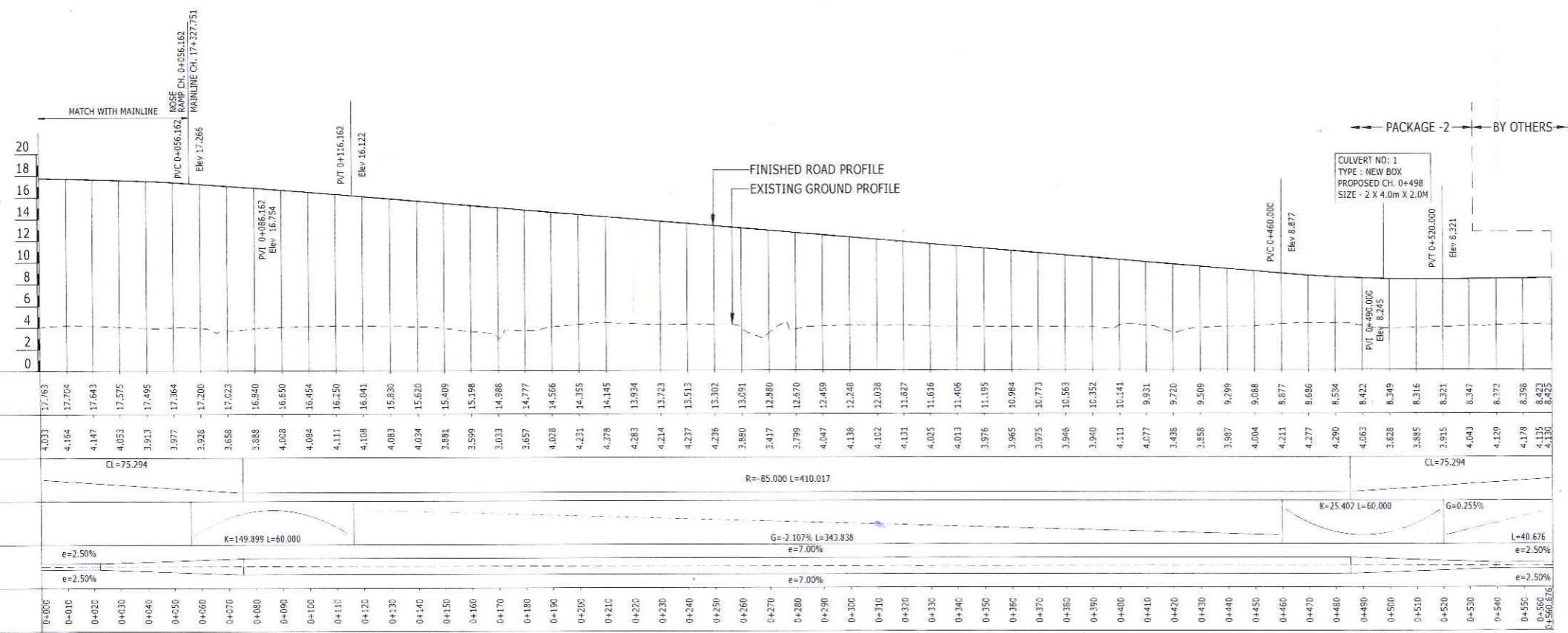
Drawn:	A.G.Agrawal	Date:	JUN.2018	Scale (to A1):	AS SHOWN
Drawing No:	HX-SI-0178	Status:	CONSTRUCTION	Revision:	C1



RAMP - 06	
Curve No. 1	
R	-85.000m
Lc	410.017m
Ls	75.294m
e	7.000%
V	40.0 kmph

← MTHL (CHIRLE)

→ PROPOSED NAVI MUMBAI AIRPORT



RAMP-06 LONGITUDINAL SECTION SCALE H-1:1000, V-1:250

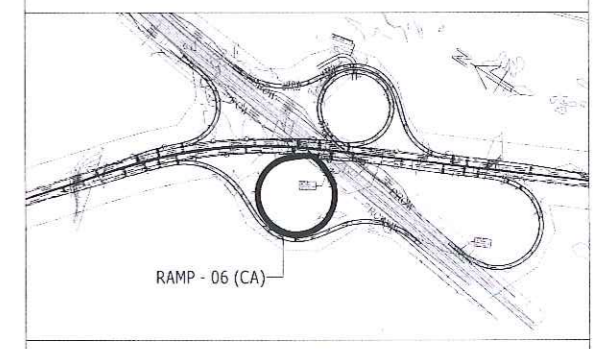
- 000172
- NOTES
- HORIZONTAL AND VERTICAL ALIGNMENT SUPER ELEVATIONS OUTLINE DRAWING B-001-B-048 MAIN & INTERCHANGE. THE BEARING AND COORDINATES SHOWN ARE BASED ON THE WGS84 DATUM, UTM PROJECTION.
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 - FOR TYPICAL CROSS SECTION REFER DRAWING No. HX-ML-0053
 - LINE MARKINGS & SIGNAGE DETAILS REFER HX-SI-250 TO HX-SI-255.



LEGEND:-

	BY OTHERS
	MTHL PACKAGE-2

GOOD FOR CONSTRUCTION



Rev	Description	Date	Drawn	Chk	App
C1	U TROUGH RETAINING WALL INCORPORATED	17.05.19	NSB	RP	AS
C0	FOR CONSTRUCTION	27.02.19	NSB	RP	AS
I5	TEMPLATE UPDATED	23.01.19	NSB	RP	AS
I4	LIMIT OF WORK UPDATED & RE WALLS INCORPORATED	28.11.18	NSB	RP	AS
I3	VERTICAL PROFILE UPDATED	18.10.18	NSB	RP	AS
I2	VERTICAL PROFILE UPDATED	19.09.18	AGA	RP	AS
I1	INITIAL DESIGN - GENERAL UPDATE	28.08.18	NSB	RP	AS
I0	INITIAL DESIGN	27.05.18	AGA	RP	AS



Client:
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

2ND FLOOR, NEW OFFICE BUILDING, PLOT NO. R-05, R-06 & R-12, 'E' BLOCK, BANDRA-KURLA COMPLEX, BANDRA (E), MUMBAI-400051.



General consultant:
AECOM PADECO

17th Floor Hiranandani Knowledge Park, Technology Street, Powai, Mumbai-400076.

EPC Contractor:
DAEWOO E&C

DAEWOO-TPL JOINT VENTURE
11TH FLOOR HIRANANDANI KNOWLEDGE PARK, TECHNOLOGY STREET, POWAI, MUMBAI-400076.

Independent Design Consultant:
ATKINS

WS ATKINS INDIA PVT. LTD.
18th & 19th FLOOR, TOWER-C, DLF CYBER GREENS, DLF CYBER CITY, PHASE-III, SECTOR 24, GURUGRAM, HARYANA - 122002

Design Consultant:
RAMBOLL

RAMBOLL INDIA PVT LTD.
LEVEL -17, TOWER-B, BUILDING NO.5 DLF CYBER CITY, PHASE-III, GURUGRAM-122002 PH: +91-124-4611999

Name of Project:
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Drawing title:
SHIVAJI NAGAR INTERCHANGE PLAN & PROFILE RAMP-06 KM. 0+000 TO KM. 0+560.676

Drawn: A.G. Agrawal Date: JUN.2018 Scale: (at A1) AS SHOWN
Drawing No: HX-SI-0179 Status: CONSTRUCTION Revision: C1