



PUNTOS DE CONTROL VERTICAL (BM)			
PUNTOS	COORDENADAS UTM		COTA
	NORTE	ESTE	
GPS_PB-05/BM-040	8579386.310	513127.260	4372.672
GPS_BM-041	8579238.348	513115.133	4352.760
GPS_AZ-05/BM-041A	8579213.200	513658.294	4327.032
GPS_BM-042	8579098.662	514127.797	4305.416
GPS_BM-043	8578882.182	514537.522	4285.532
GPS_BM-044	8578774.502	515045.425	4260.172
GPS_BM-045	8578850.414	515031.091	4235.759
GPS_BM-046	8578922.827	515072.408	4222.192
GPS_BM-047	8578690.849	515403.311	4205.680
GPS_BM-048	8578841.337	515744.245	4221.781
GPS_BM-049	8579016.635	516172.859	4248.673
GPS_PB-06/BM-050	8579091.686	516503.421	4272.523
GPS_BM-051	8578681.215	516606.646	4261.272
GPS_AZ-06/BM-052	8578373.711	516806.519	4274.605
GPS_BM-053	8577917.836	516938.843	4301.847
GPS_BM-054	8577486.457	517230.217	4317.103
GPS_BM-055	857759.110	517562.271	4337.098
GPS_BM-056	8577467.485	517933.182	4351.249
GPS_BM-057	8577224.834	518302.379	4360.465
GPS_BM-058	8576870.893	518269.024	4344.568
GPS_BM-059	8576465.544	517988.407	4333.511
GPS_PB-07/BM-060	8576100.585	517828.517	4320.515
GPS_AZ-07/BM-061	8576001.348	517400.716	4312.215
GPS_BM-062	8575656.186	517360.468	4313.227
GPS_BM-063	8575276.378	517578.522	4307.833
GPS_BM-064	8574827.653	517725.080	4275.476
GPS_BM-065	8574465.625	517967.460	4256.986
GPS_BM-066	8574670.124	518242.773	4247.873
GPS_BM-067	8574345.396	518436.743	4221.855
GPS_BM-068	8574439.109	518445.247	4207.663
GPS_BM-069	8574100.606	518654.590	4179.874
GPS_PB-08/BM-070	8573648.164	518381.489	4152.184
GPS_BM-071	8573584.893	518518.520	4141.840
GPS_AZ-08/BM-072	8573894.042	518887.596	4128.787
GPS_BM-073	8573461.393	519074.092	4126.424
GPS_BM-074	8573659.839	519096.175	4141.181
GPS_BM-075	8573936.116	519210.472	4167.712
GPS_BM-076	8574255.135	519500.401	4190.086
GPS_BM-077	8573922.038	519775.478	4219.305
GPS_BM-078	8573729.103	520037.101	4234.371
GPS_BM-079	8573986.392	520386.533	4254.058
GPS_BM-080	8573819.599	520802.540	4268.548
GPS_AZ-09/BM-081	8573349.972	520825.599	4282.433
GPS_BM-082	8572945.393	520763.356	4282.459
GPS_BM-083	8572739.554	521098.458	4264.078
GPS_BM-084	8572667.452	521565.292	4245.662
GPS_BM-085	8572374.112	521855.567	4231.468
GPS_BM-086	8571991.958	521911.618	4215.860
GPS_BM-087	8571584.060	521731.903	4200.312
GPS_BM-088	8571418.990	521271.925	4184.465
GPS_BM-089	8571188.982	521179.552	4179.485
GPS_BM-090	8571272.210	521731.544	4175.176

PUNTOS DE POLIGONAL PRINCIPAL			
PUNTOS	COORDENADAS UTM		COTA
	NORTE	ESTE	
GPS_P-029	8579202.477	513763.816	4323.616
GPS_P-030	8579077.329	514201.130	4300.636
GPS_P-031	8578914.008	515201.532	4217.148
GPS_P-032	8578853.485	515415.278	4203.599
GPS_P-033	8578750.870	515517.394	4214.412
GPS_P-034	8579244.783	516409.496	4265.976
GPS_P-035	8577653.435	517167.350	4311.373
GPS_P-036	8577673.701	517268.567	4323.041
GPS_P-037	8577722.567	517667.811	4343.316
GPS_P-038	8577628.484	517823.946	4351.101
GPS_P-039	8577328.008	518179.043	4359.170
GPS_P-040	8577004.632	518434.184	4353.544
GPS_P-041	8576836.285	518376.991	4345.592
GPS_P-042	8576315.498	517965.499	4329.675
GPS_P-043	8574760.921	517781.199	4275.459
GPS_P-044	8574611.134	518090.958	4256.015
GPS_P-045	8574324.535	518541.163	4196.223
GPS_P-046	8574046.322	518646.757	4178.528
GPS_P-047	8573837.011	518906.111	4132.192
GPS_P-048	8573732.533	519123.213	4146.088
GPS_P-049	8574002.161	519223.610	4170.066
GPS_P-050	8574199.455	519370.679	4185.406
GPS_P-051	8574239.316	519607.360	4196.252
GPS_P-052	8574084.104	519714.419	4207.564
GPS_P-053	8573194.940	520963.615	4273.903
GPS_P-054	8573041.073	520880.060	4274.686
GPS_P-055	8572761.408	521266.402	4259.824
GPS_P-056	8572499.310	521876.660	4235.219
GPS_P-057	8572463.470	521883.536	4234.729
GPS_P-058	8571912.986	521943.399	4213.881
GPS_P-059	8571716.290	521903.071	4208.304
GPS_P-060	8571638.546	521856.936	4205.507
GPS_P-061	8571448.230	521497.045	4193.454
GPS_P-062	8571377.110	521247.148	4183.828
GPS_P-063	8571262.150	521109.377	4181.004
GPS_P-064	8571237.185	521024.048	4181.053
GPS_P-065	8571266.559	521397.538	4177.347

PUNTOS PRINCIPALES GNSS			
PUNTOS	COORDENADAS UTM		COTA
	NORTE	ESTE	
GPS_PB-05/BM-040	8579386.31	513127.26	4372.672
GPS_AZ-05/BM-041A	8579213.200	513658.294	4327.032
GPS_PB-06/BM-050	8579091.686	516503.421	4272.523
GPS_AZ-06/BM-052	8578373.711	516806.519	4274.605
GPS_PB-07/BM-060	8576100.585	517828.517	4320.515
GPS_AZ-07/BM-061	8576001.348	517400.716	4312.215
GPS_PB-08/BM-070	8573648.164	518381.489	4152.1835
GPS_AZ-08/BM-072	8573894.042	518887.596	4128.787
GPS_PB-09	8573715.465	520887.523	4276.215
GPS_AZ-09/BM-081	8573349.972	520825.599	4282.433
GPS_PB-10	8571316.188	521894.443	4179.1775
GPS_AZ-10	8571446.132	522404.677	4191.050

LEYENDA	
POLIGONAL DE APOYO	
CARRETERA EXISTENTE	
PUNTOS DE CONTROL HORIZONTAL (AZ)	
PUNTOS DE CONTROL HORIZONTAL (PB)	
PUNTOS DE POLIGONAL (P)	
PUNTOS DE CONTROL VERTICAL (BM)	

<p>Ministerio de Transportes y Comunicaciones</p>	<p>Provias Nacional</p>	<p>HOB CONSULTORES S.A. CALLE AGUIAQUA BLANCA N° 102 - LIMA 33 - PERU TELÉFONO 715-8111 FAX: 715-8324 Email: hob@hobperu.com</p>	Jefe Estudio: ING. CESAR GUEVARA Especialista: ING. CARLOS URQUIAGA Revisión: Proceso y Platos: GER. ESTUDIOS-HOB	Aprobación: REVISIONES	ESTUDIO DEFINITIVO DE LA REHABILITACION Y MEJORAMIENTO CARRETERA: HUANCAVELICA - LIRCAY TRAMO: 1+550(Av. Los Chancas)-LIRCAY CONTRATO N° 7341-2012	PLANO DE GEOREFERENCIACION COORDENADAS UTM	FECHA: SEPTIEMBRE 2013 ESCALA FORMATO A1: 1/7500 ESCALA FORMATO A3: 1/15000 7341-12-PGUTM-02
			HOB CONSULTORES S.A.		HOB CONSULTORES S.A.		