

**Układ Współrzędnych**

Nazwa:	Układ 1965
System odniesienia:	Układ 1965
Strefa:	4
Geoida:	Geoida PL
Pionowy układ odniesienia:	Kronsztadt 86

**Raport Objętości Robót Ziemnych****Niesklasyfikowany powierzchnia porównany do Niesklasyfikowany powierzchnia****Powierzchnie****teren-pierwotny  
nasyp**Źródło: mapa do celów projektowych  
Pomiar bezpośredni merodą RTN**Objętości Stanu Naturalnego Na Podstawie Jedynie Geometrii Powierzchni**

<b>Materiał wykopu:</b>	<b>0 m<sup>3</sup></b>
<b>Materiał nasypu:</b>	<b>16380,0 m<sup>3</sup></b>

<b>OBJĘTOŚĆ NASYPU:</b>	<b>16380,0 m<sup>3</sup></b>
<b>POWIERZCHNIA MODELU NASYPU</b>	<b>32067 m<sup>2</sup></b>

Uwaga: Powyższe objętości są obliczone wyłącznie na podstawie geometrii wybranych powierzchni. Do obliczenia powyższych liczb nie zastosowano żadnych właściwości materiału.

Data:2017-06-30 17:17:18 Trimble Business Center	<b>AGRAD</b> Biuro Geodezyjno Projektowe Marcin Kostrzewski ul. Mostowa 5a, 58-500 Jelenia Góra	<b>Wykonał:</b> Geodeta uprawniony inż. Marcin Kostrzewski upr. 19635 w zakresie 1,2,4
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GEODETA UPRAWNIONY

inż. Marcin Kostrzewski  
nr upr. 19635

## WYKAZ WSPÓLRZĘDNYCH Z POMIARU NASYPU

Nr	X	Y	H
1	5541907.317	3643549.050	396.686
2	5541901.703	3643558.010	397.073
3	5541896.161	3643566.926	397.207
4	5541890.557	3643575.973	397.166
5	5541884.514	3643584.958	397.249
6	5541877.835	3643593.378	397.400
7	5541871.587	3643601.922	397.539
8	5541865.048	3643610.560	397.886
9	5541858.221	3643618.853	398.187
10	5541851.376	3643627.163	398.277
11	5541844.076	3643635.388	398.513
12	5541837.002	3643644.040	398.693
13	5541835.584	3643647.172	398.642
14	5541845.649	3643646.249	398.411
15	5541852.253	3643638.412	398.402
16	5541858.570	3643630.476	398.236
17	5541865.223	3643621.497	397.991
18	5541871.766	3643612.557	397.708
19	5541878.587	3643603.600	397.465
20	5541884.561	3643594.518	397.256
21	5541890.489	3643585.347	397.166
22	5541895.681	3643575.772	397.097
23	5541901.906	3643566.816	397.076
24	5541907.322	3643558.499	396.872
25	5541911.303	3643550.175	396.478
26	5541919.792	3643554.360	396.249
27	5541913.857	3643563.465	396.749
28	5541907.300	3643571.731	396.998
29	5541900.726	3643580.145	396.971
30	5541893.389	3643588.380	397.094
31	5541886.582	3643596.594	397.268
32	5541879.929	3643605.529	397.515
33	5541873.430	3643614.244	397.647
34	5541866.675	3643622.160	397.971
35	5541860.143	3643630.340	398.202
36	5541852.768	3643637.847	398.386
37	5541846.827	3643645.724	398.444
38	5541857.098	3643644.559	398.312
39	5541864.069	3643636.734	398.211
40	5541870.611	3643628.443	397.973
41	5541876.909	3643620.299	397.718
42	5541883.281	3643612.012	397.490
43	5541889.662	3643603.275	397.307
44	5541895.992	3643594.502	397.148
45	5541902.317	3643585.798	396.879
46	5541907.929	3643577.354	396.893
47	5541914.850	3643568.658	396.748
48	5541920.337	3643560.034	396.482
49	5541923.001	3643557.287	396.335
50	5541930.438	3643562.063	395.880
51	5541924.262	3643569.975	396.459
52	5541917.753	3643577.563	396.728
53	5541911.371	3643585.712	396.841
54	5541905.304	3643593.807	396.988
55	5541899.065	3643602.455	397.175
56	5541892.840	3643611.272	397.393
57	5541886.618	3643619.323	397.527
58	5541880.245	3643627.416	397.768
59	5541873.939	3643634.886	397.917
60	5541867.166	3643642.169	398.039

61	5541866.508	3643644.289	397.947
62	5541875.241	3643642.562	397.721
63	5541881.630	3643634.067	397.776
64	5541887.481	3643625.492	397.588
65	5541894.004	3643617.099	397.376
66	5541900.552	3643609.057	397.269
67	5541907.051	3643600.291	397.027
68	5541914.069	3643592.009	396.836
69	5541920.603	3643583.627	396.688
70	5541926.712	3643574.807	396.452
71	5541932.174	3643565.662	395.993
72	5541933.125	3643563.930	395.805
73	5541940.907	3643570.357	395.883
74	5541934.071	3643578.479	396.199
75	5541926.930	3643585.985	396.549
76	5541920.109	3643593.524	396.725
77	5541913.263	3643601.875	396.930
78	5541906.223	3643610.232	397.140
79	5541899.252	3643618.334	397.278
80	5541892.409	3643626.652	397.429
81	5541885.323	3643634.971	397.669
82	5541881.813	3643638.852	397.678
83	5541880.930	3643640.973	397.284
84	5541886.309	3643639.681	397.494
85	5541889.391	3643637.345	397.444
86	5541895.443	3643629.216	397.348
87	5541901.901	3643621.241	397.174
88	5541909.132	3643613.707	396.991
89	5541916.810	3643606.219	396.844
90	5541924.231	3643598.519	396.663
91	5541930.920	3643590.307	396.458
92	5541938.306	3643582.633	396.019
93	5541945.193	3643575.425	395.713
94	5541946.841	3643573.712	395.493
95	5541949.313	3643580.449	395.777
96	5541943.265	3643585.931	395.978
97	5541935.734	3643592.317	396.258
98	5541927.759	3643599.445	396.541
99	5541919.633	3643606.084	396.756
100	5541912.172	3643613.184	396.927
101	5541904.525	3643620.107	397.092
102	5541897.101	3643628.473	397.359
103	5541889.643	3643635.591	397.533
104	5541885.255	3643639.823	397.543
105	5541890.358	3643636.584	397.492
106	5541897.406	3643630.333	397.340
107	5541903.040	3643623.224	397.151
108	5541906.837	3643619.159	396.897
109	5541913.798	3643613.251	396.807
110	5541919.110	3643609.300	396.656
111	5541927.898	3643601.412	396.422
112	5541936.429	3643593.099	396.232
113	5541944.271	3643586.980	395.854
114	5541948.700	3643584.022	395.584
115	5541949.526	3643581.787	395.632
116	5541948.303	3643575.931	395.527
117	5541908.347	3643545.390	393.936
118	5541909.868	3643543.493	393.260
119	5541910.348	3643544.931	393.427
120	5541911.285	3643544.378	393.079
121	5541912.367	3643545.182	393.019
122	5541914.714	3643546.025	393.015
123	5541915.274	3643546.646	393.057

124	5541915.512	3643545.773	392.797
125	5541916.619	3643545.368	392.656
126	5541918.133	3643546.332	392.563
127	5541918.027	3643547.893	392.771
128	5541917.657	3643547.755	392.859
129	5541916.932	3643547.637	393.262
130	5541916.175	3643547.345	393.344
131	5541915.483	3643546.818	393.187
132	5541919.282	3643548.276	392.771
133	5541920.816	3643548.676	392.351
134	5541923.078	3643549.890	392.098
135	5541925.817	3643551.732	391.800
136	5541928.591	3643554.628	391.957
137	5541931.012	3643556.735	391.974
138	5541936.671	3643559.221	390.959
139	5541937.652	3643557.709	390.766
140	5541936.286	3643556.274	390.901
141	5541933.428	3643554.691	391.340
142	5541929.310	3643552.751	391.456
143	5541926.151	3643549.790	391.536
144	5541924.296	3643548.173	391.722
145	5541920.768	3643545.797	392.060
146	5541919.143	3643547.299	392.474
147	5541918.607	3643547.113	392.460
148	5541918.935	3643546.159	392.383
149	5541937.229	3643559.025	390.846
150	5541939.847	3643560.367	390.637
151	5541942.278	3643562.622	390.932
152	5541944.264	3643563.986	390.897
153	5541945.390	3643564.702	390.908
154	5541946.961	3643565.351	390.810
155	5541948.985	3643566.355	390.539
156	5541951.371	3643568.074	390.316
157	5541952.625	3643570.136	390.416
158	5541954.269	3643571.967	390.519
159	5541955.190	3643572.731	390.437
160	5541956.043	3643574.030	390.513
161	5541956.512	3643576.900	390.656
162	5541957.056	3643576.720	390.530
163	5541960.525	3643572.703	389.883
164	5541958.062	3643568.480	389.654
165	5541956.399	3643566.116	389.550
166	5541954.161	3643563.740	389.624
167	5541948.479	3643560.461	389.920
168	5541945.531	3643558.869	390.190
169	5541939.165	3643558.321	390.600
170	5541955.972	3643578.073	391.187
171	5541955.195	3643579.489	391.458
172	5541954.411	3643581.525	392.008
173	5541956.072	3643581.799	391.548
174	5541957.128	3643581.669	391.486
175	5541957.158	3643578.756	391.063
176	5541953.287	3643583.355	392.738
177	5541950.556	3643586.346	393.163
178	5541947.823	3643588.307	393.490
179	5541945.545	3643589.993	393.586
180	5541943.122	3643591.730	394.205
181	5541940.318	3643592.819	394.437
182	5541937.848	3643595.261	394.437
183	5541935.811	3643597.422	394.409
184	5541934.505	3643598.987	394.275
185	5541932.598	3643601.111	394.164
186	5541930.581	3643603.217	394.212

187	5541928.406	3643604.596	394.356
188	5541926.657	3643605.634	394.578
189	5541927.542	3643606.451	394.300
190	5541923.781	3643608.132	394.708
191	5541925.232	3643608.869	394.355
192	5541924.336	3643610.161	394.327
193	5541923.356	3643609.971	394.457
194	5541922.664	3643609.379	394.837
195	5541917.219	3643614.688	394.808
196	5541915.255	3643615.936	394.968
197	5541914.550	3643615.334	395.386
198	5541913.337	3643616.184	395.451
199	5541913.746	3643617.004	395.083
200	5541911.710	3643617.305	395.576
201	5541912.485	3643618.145	395.237
202	5541909.433	3643619.601	395.609
203	5541909.997	3643620.191	395.359
204	5541905.940	3643623.337	395.685
205	5541906.298	3643624.010	395.527
206	5541905.147	3643624.980	395.601
207	5541902.439	3643627.717	395.608
208	5541898.103	3643633.235	395.718
209	5541895.006	3643635.808	395.729
210	5541891.181	3643639.051	395.721
211	5541889.609	3643640.167	395.908
212	5541887.310	3643641.467	395.852
213	5541883.903	3643642.805	395.894
214	5541881.300	3643643.107	395.952
215	5541879.048	3643643.869	395.856
216	5541876.176	3643644.898	395.861
217	5541874.149	3643645.507	395.856
218	5541872.698	3643645.524	395.971
219	5541870.573	3643645.665	395.948
220	5541865.949	3643646.687	396.166
221	5541861.852	3643647.563	396.241
222	5541856.111	3643647.762	396.266
223	5541850.720	3643648.540	396.503
224	5541848.207	3643648.290	396.647
225	5541841.028	3643648.868	396.800
226	5541838.422	3643649.347	396.807
227	5541836.676	3643649.943	396.770
228	5541833.005	3643650.991	396.896
229	5541836.643	3643661.428	397.890
230	5541851.346	3643658.600	397.839
231	5541863.408	3643664.145	397.719
232	5541887.447	3643650.406	397.549
233	5541900.030	3643652.284	397.719
234	5541907.540	3643638.149	397.056
235	5541921.284	3643628.366	396.571
236	5541933.114	3643627.186	396.403
237	5541950.546	3643609.531	395.636
238	5541962.140	3643603.661	395.232
239	5541909.017	3643537.723	393.138
240	5541916.484	3643539.925	392.308
241	5541936.181	3643550.088	391.341
242	5541942.581	3643553.226	390.525
243	5541951.501	3643557.805	389.979
244	5541960.976	3643563.479	389.452

