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Structure Index - Phase I Wind Development Areas

Structure Number	Northing	Easting	Structure Type	Typical Detail
CM-A-01	700710	1316330	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-A-02	700683	1316543	Tangent	Single Circuit, Delta Configuration
CM-A-03	700644	1316852	Tangent	Single Circuit, Delta Configuration
CM-A-04	700601	1317189	Tangent	Single Circuit, Delta Configuration
CM-A-05	700559	1317517	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-A-06	700637	1317771	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-A-07	700681	1318130	Tangent	Single Circuit, Delta Configuration
CM-A-08	700793	1319052	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-A-09	701004	1319955	Tangent	Single Circuit, Canyon Delta Configuration
CM-A-10	701227	1320903	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CM-A-11	701316	1321262	Tangent	Single Circuit, Canyon Delta Configuration
CM-A-12	701474	1321892	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CM-A-13	701712	1322130	Tangent	Single Circuit, Canyon Delta Configuration
CM-A-14	701980	1322399	Tangent	Single Circuit, Delta Configuration
CM-A-15	702248	1322666	Tangent	Single Circuit, Delta Configuration
CM-A-16	702470	1322889	Tangent	Single Circuit, Delta Configuration
CM-A-17	702744	1323162	Tangent	Single Circuit, Delta Configuration
CM-A-18	702987	1323406	Tangent	Single Circuit, Delta Configuration
CM-A-19	703235	1323653	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-A-20	703546	1323657	Tangent	Single Circuit, Delta Configuration
CM-A-21	703781	1323660	Tangent	Single Circuit, Delta Configuration
CM-A-22	704037	1323663	Tangent	Single Circuit, Delta Configuration
CM-A-23	704514	1323670	Tangent	Single Circuit, Delta Configuration
CM-A-24	705255	1323679	Tangent	Single Circuit, Delta Configuration
CM-A-25	705680	1323684	Tangent	Single Circuit, Delta Configuration
CM-A-26	706335	1323693	Tangent	Single Circuit, Delta Configuration
CM-A-27	706792	1323688	Tangent	Single Circuit, Delta Configuration
CM-A-28	707311	1323684	Tangent	Single Circuit, Delta Configuration
CM-A-29	707678	1323680	Tangent	Single Circuit, Delta Configuration
CM-A-30	708064	1323676	Tangent	Single Circuit, Delta Configuration
CM-A-31	708438	1323673	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-A-32	708694	1324140	Tangent	Single Circuit, Canyon Delta Configuration
CM-A-33	709031	1324756	Tangent	Single Circuit, Guyed Vertical Configuration
CM-A-34	709218	1325097	Tangent	Single Circuit, Delta Configuration
CM-A-35	709423	1325472	Tangent	Single Circuit, Guyed Vertical Configuration
CM-A-36	709683	1325947	Tangent	Single Circuit, Delta Configuration
CM-A-37	709900	1326345	Tangent	Single Circuit, Delta Configuration
CM-A-38	710071	1326657	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-A-39	710153	1326944	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-A-40	710278	1327048	Riser	Stick Figure
CM-B-01	707584	1301657	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-B-02	707286	1301875	Tangent	Single Circuit, Delta Configuration
CM-B-03	706967	1302108	Tangent	Single Circuit, Delta Configuration
CM-B-04	706601	1302376	Tangent	Single Circuit, Delta Configuration
CM-B-05	706309	1302589	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-B-06	705975	1302611	Tangent	Single Circuit, Delta Configuration
CM-B-07	705604	1302636	Tangent	Single Circuit, Delta Configuration
CM-B-08	705265	1302660	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-B-09	705089	1303014	Tangent	Single Circuit, Delta Configuration
CM-B-10	704917	1303360	Tangent	Single Circuit, Delta Configuration
CM-B-11	704726	1303745	Tangent	Single Circuit, Delta Configuration
CM-B-12	704505	1304192	Tangent	Single Circuit, Delta Configuration
CM-B-13	704197	1304812	Tangent	Single Circuit, Delta Configuration
CM-B-14	704035	1305137	Tangent	Single Circuit, Delta Configuration
CM-B-15	703847	1305516	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-B-16	703730	1305719	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-B-17	703762	1305745	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-B-18	703614	1306015	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-19	703429	1306299	Tangent	Double Circuit, Vertical Configuration
CM-B-20	703250	1306576	Tangent	Double Circuit, Vertical Configuration
CM-B-21	703065	1306861	Tangent	Double Circuit, Vertical Configuration
CM-B-22	702864	1307172	Tangent	Double Circuit, Vertical Configuration
CM-B-23	702681	1307454	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-24	702601	1307668	Tangent	Double Circuit, Vertical Configuration
CM-B-25	702453	1307978	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-26	702490	1308008	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-B-27	702380	1308259	Tangent	Double Circuit, Vertical Configuration
CM-B-28	702285	1308514	Tangent	Double Circuit, Vertical Configuration
CM-B-29	702026	1309205	Tangent	Double Circuit, Vertical Configuration
CM-B-30	701922	1309483	Tangent	Double Circuit, Vertical Configuration
CM-B-31	701813	1309775	Tangent	Double Circuit, Vertical Configuration
CM-B-32	701706	1310062	Tangent	Double Circuit, Vertical Configuration
CM-B-33	701626	1310319	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-B-34	701590	1310314	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-35	701506	1310593	Tangent	Double Circuit, Vertical Configuration
CM-B-36	701401	1310868	Tangent	Double Circuit, Vertical Configuration
CM-B-37	701276	1311200	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-38	701156	1312134	Tangent	Double Circuit, Vertical Configuration
CM-B-39	701096	1312609	Tangent	Double Circuit, Vertical Configuration
CM-B-40	701055	1312923	Tangent	Double Circuit, Vertical Configuration
CM-B-41	701012	1313263	Tangent	Double Circuit, Vertical Configuration
CM-B-42	700967	1313618	Tangent	Double Circuit, Vertical Configuration
CM-B-43	700918	1313998	Tangent	Double Circuit, Vertical Configuration
CM-B-44	700860	1314448	Tangent	Double Circuit, Horizontal Configuration
CM-B-45	700751	1315302	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CM-B-46	700694	1315748	Tangent	Double Circuit, Vertical Configuration
CM-B-47	700652	1316073	Tangent	Double Circuit, Vertical Configuration
CM-B-48	700621	1316321	Tangent	Double Circuit, Vertical Configuration

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Structure Number	Northing	Easting	Structure Type	Typical Detail
CM-B-49	700594	1316533	Tangent	Double Circuit, Vertical Configuration
CM-B-50	700554	1316841	Tangent	Double Circuit, Vertical Configuration
CM-B-51	700511	1317178	Tangent	Double Circuit, Vertical Configuration
CM-B-52	700469	1317507	Tangent	Double Circuit, Vertical Configuration
CM-B-53	700431	1317809	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-B-54	700500	1318112	Tangent	Double Circuit, Horizontal Configuration
CM-B-55	700722	1319075	Tangent	Double Circuit, Horizontal Configuration
CM-B-56	700925	1319960	Tangent	Double Circuit, Horizontal Configuration
CM-B-57	701136	1320875	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CM-B-58	701237	1321307	Tangent	Double Circuit, Vertical Configuration
CM-B-59	701384	1321941	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-B-60	701636	1322197	Tangent	Double Circuit, Vertical Configuration
CM-B-61	701909	1322475	Tangent	Double Circuit, Vertical Configuration
CM-B-62	702172	1322743	Tangent	Double Circuit, Vertical Configuration
CM-B-63	702392	1322967	Tangent	Double Circuit, Vertical Configuration
CM-B-64	702659	1323239	Tangent	Double Circuit, Vertical Configuration
CM-B-65	702922	1323507	Tangent	Double Circuit, Vertical Configuration
CM-B-66	703161	1323750	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-B-67	703424	1323751	Tangent	Double Circuit, Vertical Configuration
CM-B-68	703783	1323753	Tangent	Double Circuit, Vertical Configuration
CM-B-69	704044	1323754	Tangent	Double Circuit, Vertical Configuration
CM-B-70	704311	1323755	Tangent	Double Circuit, Vertical Configuration
CM-B-71	704576	1323756	Tangent	Double Circuit, Vertical Configuration
CM-B-72	705248	1323758	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-73	705675	1323760	Tangent	Double Circuit, Vertical Configuration
CM-B-74	706331	1323762	Tangent	Double Circuit, Vertical Configuration
CM-B-75	706787	1323764	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-76	707304	1323766	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-77	707688	1323760	Tangent	Double Circuit, Vertical Configuration
CM-B-78	708065	1323754	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-79	708413	1323796	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-B-80	708628	1324181	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-81	708972	1324795	Tangent	Double Circuit, Vertical Configuration
CM-B-82	709165	1325139	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-83	709371	1325508	Tangent	Double Circuit, Vertical Configuration
CM-B-84	709629	1325968	Tangent	Double Circuit, Long Span Vertical Configuration
CM-B-85	709860	1326380	Tangent	Double Circuit, Vertical Configuration
CM-B-86	710034	1326712	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-B-87	710088	1326988	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-B-88	710233	1327104	Riser	Stick Figure
CM-C-01	692681	1314527	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-C-02	692941	1314925	Tangent	Single Circuit, Delta Configuration
CM-C-03	693172	1315280	Tangent	Single Circuit, Delta Configuration
CM-C-04	693423	1315664	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-C-05	693667	1315693	Tangent	Single Circuit, Delta Configuration
CM-C-06	694622	1315809	Tangent	Single Circuit, Delta Configuration
CM-C-07	694960	1315850	Tangent	Single Circuit, Delta Configuration
CM-C-08	695200	1315879	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-C-09	695273	1315982	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-C-10	695420	1316191	Tangent	Single Circuit, Delta Configuration
CM-C-11	695677	1316556	Tangent	Single Circuit, Delta Configuration
CM-C-12	695900	1316917	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-C-13	695937	1316900	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-C-14	696131	1317202	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-C-15	696449	1317408	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-C-16	696533	1317409	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-C-17	696771	1317559	Tangent	Double Circuit, Vertical Configuration
CM-C-18	697095	1317740	Tangent	Double Circuit, Vertical Configuration
CM-C-19	697417	1317920	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-20	697783	1317815	Tangent	Double Circuit, Vertical Configuration
CM-C-21	698067	1317734	Tangent	Double Circuit, Vertical Configuration
CM-C-22	698412	1317636	Tangent	Double Circuit, Vertical Configuration
CM-C-23	698718	1317549	Tangent	Double Circuit, Vertical Configuration
CM-C-24	699023	1317462	Tangent	Double Circuit, Vertical Configuration
CM-C-25	699355	1317367	Tangent	Double Circuit, Vertical Configuration
CM-C-26	699647	1317284	Tangent	Double Circuit, Vertical Configuration
CM-C-27	699906	1317210	Tangent	Double Circuit, Vertical Configuration
CM-C-28	700194	1317128	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-29	700287	1317532	Tangent	Double Circuit, Horizontal Configuration
CM-C-30	700430	1318152	Tangent	Double Circuit, Horizontal Configuration
CM-C-31	700657	1319136	Tangent	Double Circuit, Horizontal Configuration
CM-C-32	700863	1320031	Tangent	Double Circuit, Horizontal Configuration
CM-C-33	701053	1320853	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CM-C-34	701167	1321344	Tangent	Double Circuit, Vertical Configuration
CM-C-35	701315	1321978	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-36	701583	1322255	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-37	701852	1322534	Tangent	Double Circuit, Vertical Configuration
CM-C-38	702076	1322765	Tangent	Double Circuit, Vertical Configuration
CM-C-39	702330	1323029	Tangent	Double Circuit, Vertical Configuration
CM-C-40	702593	1323301	Tangent	Double Circuit, Vertical Configuration
CM-C-41	702852	1323569	Tangent	Double Circuit, Vertical Configuration
CM-C-42	703103	1323830	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-43	703435	1323834	Tangent	Double Circuit, Vertical Configuration
CM-C-44	703782	1323838	Tangent	Double Circuit, Vertical Configuration
CM-C-45	704042	1323840	Tangent	Double Circuit, Vertical Configuration
CM-C-46	704304	1323843	Tangent	Double Circuit, Vertical Configuration
CM-C-47	704733	1323848	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-48	705672	1323858	Tangent	Double Circuit, Long Span Vertical Configuration

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Structure Number	Northing	Easting	Structure Type	Typical Detail
CM-C-49	706335	1323865	Tangent	Double Circuit, Vertical Configuration
CM-C-50	706783	1323870	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-51	707291	1323875	Tangent	Double Circuit, Vertical Configuration
CM-C-52	707660	1323879	Tangent	Double Circuit, Vertical Configuration
CM-C-53	708052	1323884	Tangent	Double Circuit, Vertical Configuration
CM-C-54	708349	1323887	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-55	708544	1324231	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-56	708905	1324870	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-57	709094	1325205	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-58	709294	1325559	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-59	709555	1326020	Tangent	Double Circuit, Vertical Configuration
CM-C-60	709783	1326424	Tangent	Double Circuit, Long Span Vertical Configuration
CM-C-61	709916	1326659	RunAngle	Double Circuit, Guyed Vertical Configuration
CM-C-62	710014	1327018	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-C-63	710187	1327160	Riser	Stick Figure
CM-D-01	701047	1336448	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-D-02	701293	1336166	Tangent	Single Circuit, Delta Configuration
CM-D-03	701549	1335873	Tangent	Single Circuit, Delta Configuration
CM-D-04	701840	1335539	Tangent	Single Circuit, Delta Configuration
CM-D-05	702122	1335216	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-D-06	702363	1334941	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-D-07	702531	1334515	Tangent	Single Circuit, Delta Configuration
CM-D-08	702771	1333907	Tangent	Single Circuit, Delta Configuration
CM-D-09	702951	1333453	Tangent	Single Circuit, Delta Configuration
CM-D-10	703063	1333169	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-D-11	703750	1332919	Tangent	Single Circuit, Delta Configuration
CM-D-12	704370	1332694	Tangent	Single Circuit, Delta Configuration
CM-D-13	704789	1332542	Tangent	Single Circuit, Delta Configuration
CM-D-14	705132	1332417	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-D-15	705633	1331982	Tangent	Single Circuit, Delta Configuration
CM-D-16	706136	1331546	Tangent	Single Circuit, Delta Configuration
CM-D-17	706460	1331265	Tangent	Single Circuit, Delta Configuration
CM-D-18	706835	1330940	Tangent	Single Circuit, Delta Configuration
CM-D-19	707213	1330612	Tangent	Single Circuit, Delta Configuration
CM-D-20	707590	1330286	Tangent	Single Circuit, Delta Configuration
CM-D-21	707951	1329972	Tangent	Single Circuit, Delta Configuration
CM-D-22	708218	1329731	RunAngle	Single Circuit, Guyed Vertical Configuration
CM-D-23	708572	1329181	Tangent	Single Circuit, Delta Configuration
CM-D-24	708815	1328804	Tangent	Single Circuit, Delta Configuration
CM-D-25	709075	1328399	Tangent	Single Circuit, Delta Configuration
CM-D-26	709433	1327842	Tangent	Single Circuit, Delta Configuration
CM-D-27	709697	1327431	Tangent	Single Circuit, Delta Configuration
CM-D-28	709941	1327052	DeadEnd	Single Circuit, Guyed Vertical Configuration
CM-D-29	710142	1327215	Riser	Stick Figure
CM-E-01	708381	1329746	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-E-02	708353	1329716	Riser	3 Pole, Single Circuit, Horizontal Steel Riser
CM-E-03	708678	1329248	Tangent	Double Circuit, Vertical Configuration
CM-E-04	708920	1328871	Tangent	Double Circuit, Vertical Configuration
CM-E-05	709197	1328477	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-E-06	709169	1328447	Riser	3 Pole, Single Circuit, Horizontal Riser
CM-E-07	709538	1327910	Tangent	Double Circuit, Vertical Configuration
CM-E-08	709803	1327499	Tangent	Double Circuit, Vertical Configuration
CM-E-09	710000	1327192	DeadEnd	Double Circuit, Guyed Vertical Configuration
CM-E-10	710096	1327271	Riser	Stick Figure
CN-A-1	761517	1336695	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-2	761539	1336777	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-3	761607	1337025	Tangent	Single Circuit, Delta Configuration
CN-A-4	761732	1337481	Tangent	Single Circuit, Delta Configuration
CN-A-5	761843	1337883	Tangent	Single Circuit, Delta Configuration
CN-A-6	761953	1338284	Tangent	Single Circuit, Delta Configuration
CN-A-7	762044	1338613	Tangent	Single Circuit, Delta Configuration
CN-A-8	762149	1338997	Tangent	Single Circuit, Delta Configuration
CN-A-9	762240	1339329	Tangent	Single Circuit, Delta Configuration
CN-A-10	762306	1339570	RunAngle	Single Circuit, Vertical Configuration
CN-A-11	762313	1339870	Tangent	Single Circuit, Delta Configuration
CN-A-12	762319	1340123	Tangent	Single Circuit, Delta Configuration
CN-A-13	762324	1340363	Tangent	Single Circuit, Delta Configuration
CN-A-14	762294	1340588	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-15	762329	1340590	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-16	762317	1340729	Tangent	Double Circuit, Vertical Configuration
CN-A-17	762329	1340941	Tangent	Double Circuit, Vertical Configuration
CN-A-18	762343	1341256	Tangent	Double Circuit, Vertical Configuration
CN-A-19	762348	1341489	Tangent	Double Circuit, Vertical Configuration
CN-A-20	762356	1341840	Tangent	Double Circuit, Vertical Configuration
CN-A-21	762363	1342158	Tangent	Double Circuit, Vertical Configuration
CN-A-22	762372	1342563	Tangent	Double Circuit, Vertical Configuration
CN-A-23	762378	1342851	DeadEnd	Double Circuit, Vertical Configuration
CN-A-24	762646	1343460	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-25	762848	1343921	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-26	763123	1344547	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-27	763301	1344952	Tangent	Double Circuit, Vertical Configuration
CN-A-28	763436	1345259	DeadEnd	Double Circuit, Vertical Configuration
CN-A-29	763313	1345423	RunAngle	Double Circuit, Vertical Configuration
CN-A-30	763109	1345627	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-31	763140	1345652	RunAngle	Single Circuit, Vertical Configuration
CN-A-32	762737	1346186	DeadEnd	Double Circuit, Vertical Configuration
CN-A-33	763069	1346543	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-34	763380	1346876	RunAngle	Double Circuit, Vertical Configuration

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Drawn: KM/TR
Record Drawing by/date:

Revisions:

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Prepared for:

Power Company of Wyoming LLC
555 Seventeenth Street, Suite 2400
Denver, CO 80202 USA

Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

Overhead Collection Structure Index

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15

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Structure Number	Northing	Easting	Structure Type	Typical Detail
CN-A-35	763597	1347232	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-36	763810	1347582	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-37	763994	1347884	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-38	764222	1348259	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-39	764450	1348634	DeadEnd	Double Circuit, Vertical Configuration
CN-A-40	764893	1348739	RunAngle	Single Circuit, Vertical Configuration
CN-A-41	764905	1348773	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-A-42	765232	1348819	DeadEnd	Double Circuit, Vertical Configuration
CN-A-43	765497	1349133	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-44	765802	1349496	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-45	766095	1349844	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-46	766399	1350205	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-47	766682	1350540	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-48	766966	1350877	RunAngle	Double Circuit, Vertical Configuration
CN-A-49	767164	1351293	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-50	767472	1351940	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-51	767692	1352403	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-52	767864	1352764	DeadEnd	Double Circuit, Vertical Configuration
CN-A-53	768250	1352997	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-54	768629	1353225	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-55	768856	1353362	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-56	769251	1353600	DeadEnd	Double Circuit, Vertical Configuration
CN-A-57	769544	1353977	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-58	769874	1354402	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-59	770159	1354767	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-60	770428	1355115	RunAngle	Double Circuit, Vertical Configuration
CN-A-61	770714	1355345	Tangent	Double Circuit, Vertical Configuration
CN-A-62	771001	1355577	Tangent	Double Circuit, Long Span Vertical Configuration
CN-A-63	771310	1355826	Tangent	Double Circuit, Vertical Configuration
CN-A-64	771620	1356077	DeadEnd	Double Circuit, Vertical Configuration
CN-A-65	771877	1356207	Riser	Stick Figure
CN-B-01	771173	1335164	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-B-02	771255	1335341	Tangent	Single Circuit, Delta Configuration
CN-B-03	771602	1336082	Tangent	Single Circuit, Delta Configuration
CN-B-04	771818	1336542	Tangent	Single Circuit, Delta Configuration
CN-B-05	772091	1337155	Tangent	Single Circuit, Delta Configuration
CN-B-06	772277	1337571	Tangent	Single Circuit, Delta Configuration
CN-B-07	772448	1337956	Tangent	Single Circuit, Delta Configuration
CN-B-08	772820	1338790	RunAngle	Single Circuit, Vertical Configuration
CN-B-09	772995	1339107	DeadEnd	Double Circuit, Vertical Configuration
CN-B-10	772884	1339434	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-B-11	772851	1339422	Tangent	Single Circuit, Delta Configuration
CN-B-12	772743	1339689	Tangent	Double Circuit, Vertical Configuration
CN-B-13	772615	1339968	Tangent	Double Circuit, Vertical Configuration
CN-B-14	772519	1340186	Tangent	Double Circuit, Vertical Configuration
CN-B-15	772365	1340536	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-16	771352	1342219	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-17	771205	1342463	Tangent	Double Circuit, Vertical Configuration
CN-B-18	771031	1342753	Tangent	Double Circuit, Vertical Configuration
CN-B-19	770882	1343001	Tangent	Double Circuit, Vertical Configuration
CN-B-20	770710	1343295	Tangent	Double Circuit, Vertical Configuration
CN-B-21	770518	1343621	Tangent	Double Circuit, Vertical Configuration
CN-B-22	770360	1343893	Tangent	Double Circuit, Vertical Configuration
CN-B-23	770178	1344203	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-24	769600	1345742	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-25	769705	1346154	RunAngle	Double Circuit, Vertical Configuration
CN-B-26	769918	1346432	Tangent	Double Circuit, Vertical Configuration
CN-B-27	770047	1346622	Tangent	Double Circuit, Vertical Configuration
CN-B-28	770245	1346893	Tangent	Double Circuit, Vertical Configuration
CN-B-29	770428	1347143	Tangent	Double Circuit, Vertical Configuration
CN-B-30	770608	1347390	Tangent	Double Circuit, Vertical Configuration
CN-B-31	770841	1347709	Tangent	Double Circuit, Vertical Configuration
CN-B-32	771027	1347964	Tangent	Double Circuit, Vertical Configuration
CN-B-33	771207	1348210	RunAngle	Double Circuit, Vertical Configuration
CN-B-34	771522	1348428	Tangent	Double Circuit, Vertical Configuration
CN-B-35	771714	1348561	Tangent	Double Circuit, Vertical Configuration
CN-B-36	771990	1348753	Tangent	Double Circuit, Vertical Configuration
CN-B-37	772220	1348912	Tangent	Double Circuit, Vertical Configuration
CN-B-38	772490	1349100	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-39	772299	1349743	Tangent	Double Circuit, Horizontal Configuration
CN-B-40	771888	1351121	DeadEnd	Double Circuit, Self Supporting, Canyon Delta Configuration
CN-B-41	772008	1351461	Tangent	Double Circuit, Vertical Configuration
CN-B-42	772114	1351762	Tangent	Double Circuit, Vertical Configuration
CN-B-43	772232	1352097	Tangent	Double Circuit, Vertical Configuration
CN-B-44	772341	1352406	Tangent	Double Circuit, Vertical Configuration
CN-B-45	772459	1352742	Tangent	Double Circuit, Vertical Configuration
CN-B-46	772576	1353075	Tangent	Double Circuit, Vertical Configuration
CN-B-47	772686	1353386	DeadEnd	Double Circuit, Vertical Configuration
CN-B-48	772582	1353698	Tangent	Double Circuit, Vertical Configuration
CN-B-49	772466	1354048	Tangent	Double Circuit, Vertical Configuration
CN-B-50	772363	1354359	Tangent	Double Circuit, Vertical Configuration
CN-B-51	772265	1354653	Tangent	Double Circuit, Vertical Configuration
CN-B-52	772153	1354991	Tangent	Double Circuit, Vertical Configuration
CN-B-53	772041	1355326	Tangent	Double Circuit, Vertical Configuration
CN-B-54	771940	1355631	Tangent	Double Circuit, Vertical Configuration
CN-B-55	771824	1355980	DeadEnd	Double Circuit, Vertical Configuration
CN-B-56	771946	1356039	DeadEnd	Stick Figure
CN-C-01	770893	1343130	Riser	3 Pole, Single Circuit, Horizontal Riser

Structure Index - Phase I Wind Development Areas

Structure Number	Northing	Easting	Structure Type	Typical Detail
CN-C-02	770703	1343476	Tangent	Single Circuit, Delta Configuration
CN-C-03	770458	1343922	Tangent	Single Circuit, Delta Configuration
CN-C-04	770262	1344278	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CN-C-05	769714	1345742	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CN-C-06	769872	1346088	Tangent	Single Circuit, Delta Configuration
CN-C-07	770006	1346381	RunAngle	Single Circuit, Vertical Configuration
CN-C-08	770286	1346747	Tangent	Single Circuit, Delta Configuration
CN-C-09	770573	1347121	Tangent	Single Circuit, Delta Configuration
CN-C-10	770864	1347502	Tangent	Single Circuit, Delta Configuration
CN-C-11	771129	1347849	RunAngle	Single Circuit, Vertical Configuration
CN-C-12	771475	1348181	Riser	3 Pole, Single Circuit, Horizontal Riser
CN-C-13	771745	1348439	Tangent	Single Circuit, Delta Configuration
CN-C-14	772066	1348669	Tangent	Single Circuit, Delta Configuration
CN-C-15	772349	1348871	Tangent	Single Circuit, Delta Configuration
CN-C-16	772624	1349068	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CN-C-17	772435	1349780	Tangent	Single Circuit, Delta Configuration
CN-C-18	772053	1351222	DeadEnd	Single Circuit, Self Supporting, Canyon Delta Configuration
CN-C-19	772183	1351590	Tangent	Single Circuit, Delta Configuration
CN-C-20	772322	1351983	Tangent	Single Circuit, Delta Configuration
CN-C-21	772493	1352467	Tangent	Single Circuit, Delta Configuration
CN-C-22	772664	1352952	Tangent	Single Circuit, Delta Configuration
CN-C-23	772813	1353373	DeadEnd	Single Circuit, Vertical Configuration
CN-C-24	772709	1353673	Tangent	Single Circuit, Delta Configuration
CN-C-25	772552	1354122	Tangent	Single Circuit, Delta Configuration
CN-C-26	772395	1354572	Tangent	Single Circuit, Delta Configuration
CN-C-27	772228	1355020	Tangent	Single Circuit, Delta Configuration
CN-C-28	772047	1355506	Tangent	Single Circuit, Delta Configuration
CN-C-29	771889	1355931	DeadEnd	Single Circuit, Vertical Configuration
CN-C-30	771978	1355969	DeadEnd	Stick Figure
CP-A-01	682278	1319328	Riser	3 Pole, Single Circuit, Horizontal Riser
CP-A-02	683125	1319361	RunAngle	Double Circuit, Vertical Configuration
CP-A-03	683917	1319754	RunAngle	Double Circuit, Vertical Configuration
CP-A-04	684345	1320047	RunAngle	Double Circuit, Vertical Configuration
CP-A-05	684815	1320226	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-06	685259	1320395	DeadEnd	Double Circuit, Vertical Configuration
CP-A-07	685379	1320649	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-08	685566	1321044	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-09	685869	1321686	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-10	686117	1322209	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-11	686282	1322560	DeadEnd	Double Circuit, Vertical Configuration
CP-A-12	686604	1322732	DeadEnd	Double Circuit, Vertical Configuration
CP-A-13	686931	1323223	RunAngle	Double Circuit, Vertical Configuration
CP-A-14	687125	1323615	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-15	687419	1324207	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-16	687627	1324625	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-17	687852	1325079	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-18	688077	1325531	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-19	688302	1325986	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-20	688530	1326446	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-21	688755	1326898	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-22	688982	1327355	Tangent	Double Circuit, Long Span Vertical Configuration
CP-A-23	689148	1327690	DeadEnd	Double Circuit, Vertical Configuration
CP-A-24	689287	1327625	Riser	Stick Figure
CP-B-01	674543	1329491	Riser	3 Pole, Single Circuit, Horizontal Riser
CP-B-02	675167	1329020	Tangent	Double Circuit, Horizontal Configuration
CP-B-03	675827	1328521	Tangent	Double Circuit, Horizontal Configuration
CP-B-04	676278	1328180	RunAngle	Double Circuit, Vertical Configuration
CP-B-05	676701	1328033	Tangent	Double Circuit, Vertical Configuration
CP-B-06	677117	1327889	Tangent	Double Circuit, Vertical Configuration
CP-B-07	677528	1327746	Tangent	Double Circuit, Vertical Configuration
CP-B-08	677938	1327603	Tangent	Double Circuit, Vertical Configuration
CP-B-09	678354	1327459	Tangent	Double Circuit, Vertical Configuration
CP-B-10	678632	1327362	DeadEnd	Double Circuit, Vertical Configuration
CP-B-11	679035	1327657	Tangent	Double Circuit, Long Span Vertical Configuration
CP-B-12	679377	1327908	Tangent	Double Circuit, Vertical Configuration
CP-B-13	679728	1328165	Tangent	Double Circuit, Vertical Configuration
CP-B-14	680074	1328418	Tangent	Double Circuit, Vertical Configuration
CP-B-15	680383	1328644	Tangent	Double Circuit, Vertical Configuration
CP-B-16	680681	1328862	DeadEnd	Double Circuit, Vertical Configuration
CP-B-17	680864	1328602	Tangent	Double Circuit, Vertical Configuration
CP-B-18	681108	1328256	Tangent	Double Circuit, Vertical Configuration
CP-B-19	681244	1328064	Tangent	Double Circuit, Vertical Configuration
CP-B-20	681395	1327849	DeadEnd	Double Circuit, Vertical Configuration
CP-B-21	681636	1327772	Tangent	Double Circuit, Vertical Configuration
CP-B-22	681924	1327680	Tangent	Double Circuit, Long Span Vertical Configuration
CP-B-23	682402	1327527	Tangent	Double Circuit, Vertical Configuration
CP-B-24	682793	1327402	DeadEnd	Double Circuit, Vertical Configuration
CP-B-25	683300	1327521	Tangent	Double Circuit, Long Span Vertical Configuration
CP-B-26	683802	1327638	RunAngle	Double Circuit, Vertical Configuration
CP-B-27	684239	1327683	Tangent	Double Circuit, Vertical Configuration
CP-B-28	684681	1327727	Tangent	Double Circuit, Vertical Configuration
CP-B-29	685115	1327771	Tangent	Double Circuit, Vertical Configuration
CP-B-30	685496	1327810	Tangent	Double Circuit, Vertical Configuration
CP-B-31	685849	1327846	RunAngle	Double Circuit, Vertical Configuration
CP-B-32	686263	1327818	Tangent	Double Circuit, Vertical Configuration
CP-B-33	686686	1327790	Tangent	Double Circuit, Vertical Configuration
CP-B-34	687122	1327760	Tangent	Double Circuit, Vertical Configuration
CP-B-35	687543	1327732	Tangent	Double Circuit, Vertical Configuration

Structure Index - Phase I Wind Development Areas

Structure Number	Northing	Easting	Structure Type	Typical Detail
CP-B-36	687990	1327702	Tangent	Double Circuit, Vertical Configuration
CP-B-37	688399	1327674	Tangent	Double Circuit, Vertical Configuration
CP-B-38	688678	1327656	RunAngle	Double Circuit, Vertical Configuration
CP-B-39	689147	1327833	DeadEnd	Double Circuit, Vertical Configuration
CP-B-40	689344	1327732	DeadEnd	Stick Figure
CP-C-1	694826	1329487	Riser	3 Pole, Single Circuit, Horizontal Riser
CP-C-2	694805	1329471	Riser	3 Pole, Single Circuit, Horizontal Riser
CP-C-3	694531	1329258	Tangent	Single Circuit, Delta Configuration
CP-C-4	694133	1328949	Tangent	Single Circuit, Delta Configuration
CP-C-5	693751	1328653	Tangent	Single Circuit, Delta Configuration
CP-C-6	693466	1328432	DeadEnd	Single Circuit, Vertical Configuration
CP-C-7	693217	1328398	Tangent	Single Circuit, Delta Configuration
CP-C-8	692973	1328364	Tangent	Single Circuit, Delta Configuration
CP-C-9	692018	1328232	Tangent	Single Circuit, Delta Configuration
CP-C-10	691675	1328185	DeadEnd	Single Circuit, Vertical Configuration
CP-C-11	690965	1328377	Tangent	Single Circuit, Delta Configuration
CP-C-12	690298	1328558	DeadEnd	Single Circuit, Vertical Configuration
CP-C-13	689885	1328420	Tangent	Single Circuit, Delta Configuration
CP-C-14	689573	1328316	Tangent	Single Circuit, Delta Configuration
CP-C-15	689263	1328213	DeadEnd	Single Circuit, Vertical Configuration
CP-C-16	689211	1327941	DeadEnd	Single Circuit, Vertical Configuration
CP-C-17	689403	1327839	Riser	Stick Figure
CS-A-01	753171	1346117	Riser	3 Pole, Single Circuit, Horizontal Riser
CS-A-02	753474	1346319	Tangent	Single Circuit, Delta Configuration
CS-A-03	753788	1346529	DeadEnd	Single Circuit, Vertical Configuration
CS-A-04	753937	1347029	Tangent	Single Circuit, Delta Configuration
CS-A-05	754087	1347528	Tangent	Single Circuit, Delta Configuration
CS-A-06	754287	1348200	RunAngle	Single Circuit, Vertical Configuration
CS-A-07	754347	1348851	Tangent	Single Circuit, Delta Configuration
CS-A-08	754395	1349371	Tangent	Single Circuit, Delta Configuration
CS-A-09	754436	1349824	DeadEnd	Single Circuit, Delta Configuration
CS-A-10	754832	1349914	DeadEnd	Single Circuit, Vertical Configuration
CS-A-11	755060	1350611	Tangent	Single Circuit, Delta Configuration
CS-A-12	755287	1351307	Tangent	Single Circuit, Delta Configuration
CS-A-13	755509	1351954	Tangent	Single Circuit, Delta Configuration
CS-A-14	755670	1352421	Tangent	Single Circuit, Delta Configuration
CS-A-15	756057	1353542	Riser	3 Pole, Single Circuit, Horizontal Riser
CS-A-16	755898	1353081	Tangent	Single Circuit, Delta Configuration
CS-A-17	756144	1353794	DeadEnd	Double Circuit, Vertical Configuration
CS-A-18	756319	1354107	Tangent	Double Circuit, Vertical Configuration
CS-A-19	756504	1354429	Tangent	Double Circuit, Vertical Configuration
CS-A-20	756658	1354713	Tangent	Double Circuit, Vertical Configuration
CS-A-21	756820	1355002	Tangent	Double Circuit, Vertical Configuration
CS-A-22	756982	1355290	Tangent	Double Circuit, Vertical Configuration
CS-A-23	757152	1355595	DeadEnd	Double Circuit, Vertical Configuration
CS-A-24	757422	1355606	Tangent	Double Circuit, Long Span Vertical Configuration
CS-A-25	758338	1355645	Tangent	Double Circuit, Long Span Vertical Configuration
CS-A-26	758675	1355659	Tangent	Double Circuit, Vertical Configuration
CS-A-27	759011	1355673	DeadEnd	Double Circuit, Vertical Configuration
CS-A-28	759276	1355836	Tangent	Double Circuit, Vertical Configuration
CS-A-29	759604	1356039	Tangent	Double Circuit, Vertical Configuration
CS-A-30	759824	1356174	DeadEnd	Double Circuit, Vertical Configuration
CS-A-31	759889	1356524	Tangent	Double Circuit, Vertical Configuration
CS-A-32	759951	1356865	Tangent	Double Circuit, Vertical Configuration
CS-A-33	760016	1357214	Tangent	Double Circuit, Vertical Configuration
CS-A-34	760074	1357532	Tangent	Double Circuit, Vertical Configuration
CS-A-35	760139	1357884	Tangent	Double Circuit, Vertical Configuration
CS-A-36	760190	1358160	DeadEnd	Double Circuit, Vertical Configuration
CS-A-37	760451	1358169	Tangent	Double Circuit, Vertical Configuration
CS-A-38	760763	1358179	Tangent	Double Circuit, Vertical Configuration
CS-A-39	761112	1358190	Tangent	Double Circuit, Vertical Configuration
CS-A-40	761393	1358200	DeadEnd	Double Circuit, Vertical Configuration
CS-A-41	761400	1358398	DeadEnd	Stick Figure
CS-B-01	750840	1352869	Riser	3 Pole, Single Circuit, Horizontal Riser
CS-B-02	751311	1352931	Tangent	Single Circuit, Delta Configuration
CS-B-03	751766	1352991	Tangent	Single Circuit, Delta Configuration
CS-B-04	752299	1353061	Riser	3 Pole, Single Circuit, Horizontal Riser
CS-B-05	752630	1353115	Tangent	Single Circuit, Delta Configuration
CS-B-06	753066	1353186	Tangent	Single Circuit, Delta Configuration
CS-B-07	753479	1353253	Tangent	Single Circuit, Delta Configuration
CS-B-08	753942	1353328	RunAngle	Single Circuit, Vertical Configuration
CS-B-09	754427	1353430	Tangent	Single Circuit, Delta Configuration
CS-B-10	754937	1353538	Tangent	Single Circuit, Delta Configuration
CS-B-11	755435	1353644	Tangent	Single Circuit, Delta Configuration
CS-B-12	755907	1353744	Riser	3 Pole, Single Circuit, Horizontal Riser

Westwood

Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344

PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 1-888-937-5150

www.westwoodps.com

Designed: DK/KM
Checked: RC/PC
Drawn: KM/TR
Record Drawing by/date:

Revisions:

#	DATE	DESCRIPTION
.	.	.

Prepared for:

Power Company of Wyoming LLC
555 Seventeenth Street, Suite 2400
Denver, CO 80202 USA

Chokecherry and Sierra Madre Wind Energy Project

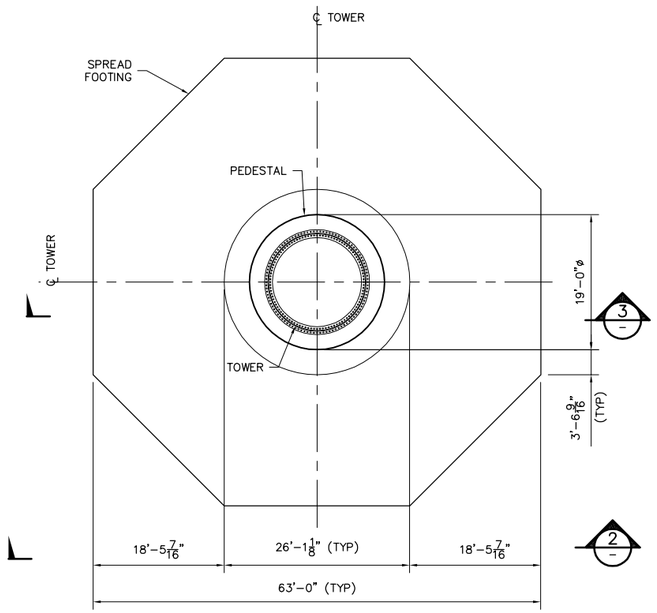
Carbon County, Wyoming

Overhead Collection Structure Index

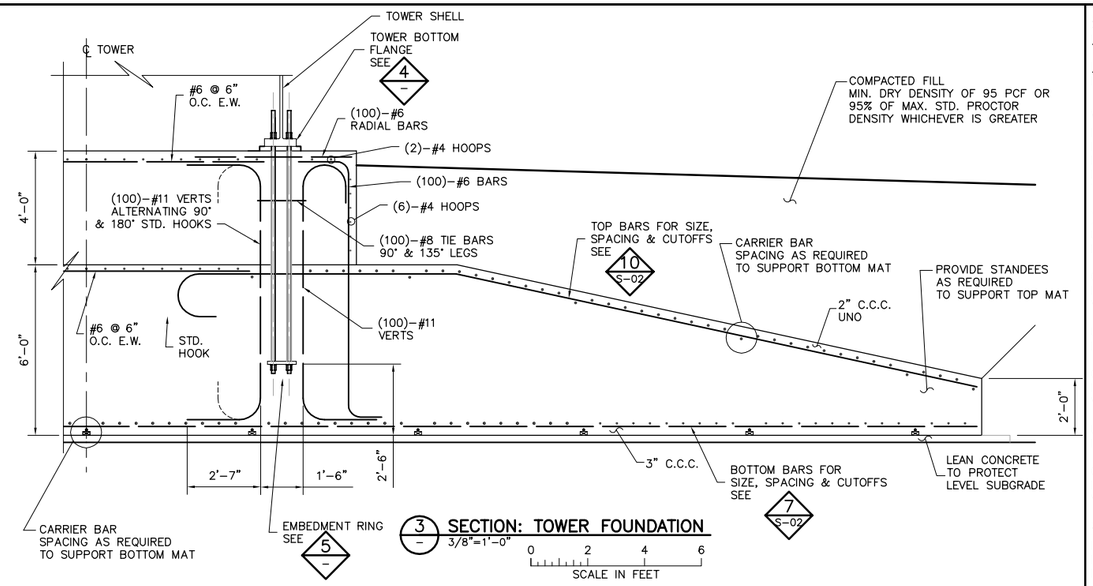
Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure

NOT FOR CONSTRUCTION

Date: 01/05/15



1 PLAN: TOWER FOUNDATION
3/32"=1'-0"
0 5 10 20 30
SCALE



3 SECTION: TOWER FOUNDATION
3/8"=1'-0"
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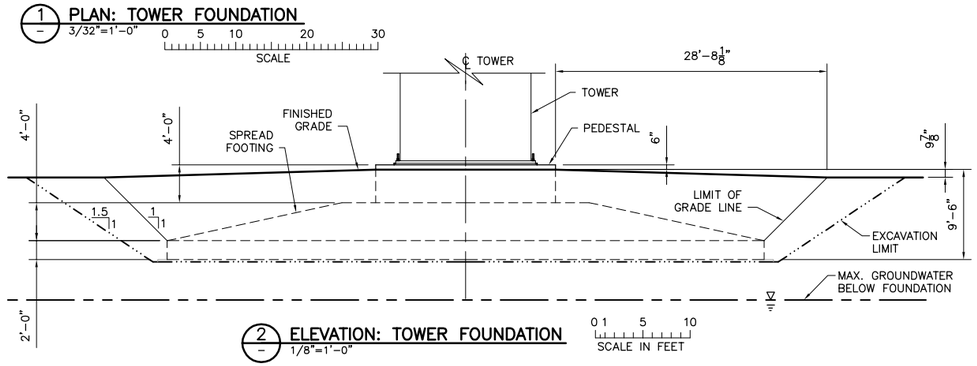
SCALE IN FEET



2 ELEVATION: TOWER FOUNDATION
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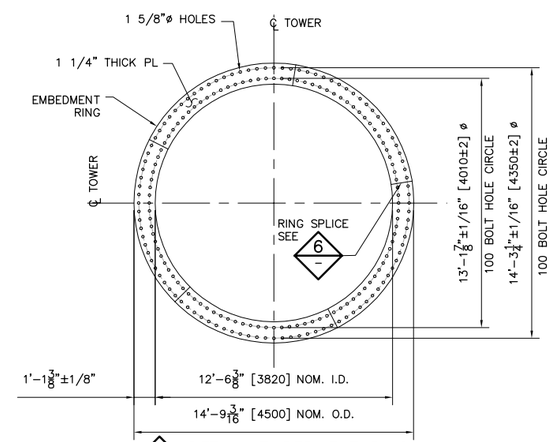
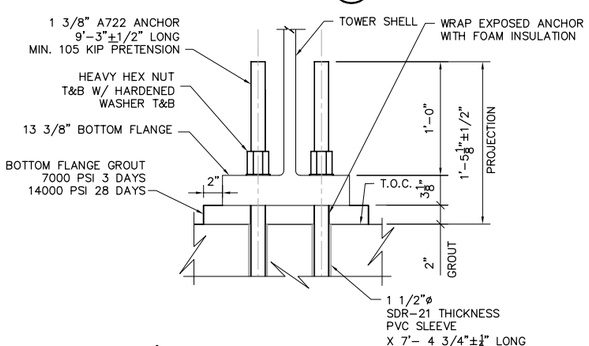
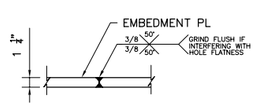
0 1 5 10
SCALE IN FEET



5 DETAIL: EMBEDMENT RING
1/4"=1'-0"
0 1 5
SCALE IN FEET



4 DETAIL: TOWER BOTTOM FLANGE
1 1/2"=1'-0"
0 3" 6" 9" 1' 2'
SCALE



6 DETAIL: EMBEDMENT PL WELD
1 1/2"=1'-0"
0 3" 6" 9" 1' 2'
SCALE

PRELIMINARY
FOR PERMITTING
PURPOSES ONLY
READ DRAWING IN CONJUNCTION
WITH DRAWING S-02 and S-03

BUILDING AND DESIGN CODES:
INTERNATIONAL BUILDING CODE, 2009, INTERNATIONAL CODE COUNCIL.

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318, 2011, AMERICAN CONCRETE INSTITUTE.

WIND TURBINE AND TOWER:
MANUFACTURER: TO BE DETERMINED
MODEL: –
POWER OUTPUT: –
ROTOR DIAMETER: –
TURBINE HUB HEIGHT: –

DESIGN SERVICE LOADS:
UNFACTORED SERVICE LOADS DUE TO NORMAL EXTREME LOAD:
DLC 4.2 LOAD FACTOR = 1.35

OVERTURNING MOMENT, Mxy = 81,900 kN–m
HORIZONTAL BASE SHEAR, Hxy = 960 kN
VERTICAL TOWER LOAD, Wz = 3,300 kN

UNFACTORED SERVICE LOADS DUE TO ABNORMAL EXTREME LOAD:
DLC 6.2 LOAD FACTOR = 1.1

OVERTURNING MOMENT, Mxy = 90,700 kN–m
HORIZONTAL BASE SHEAR, Hxy = 1,140 kN
VERTICAL TOWER LOAD, Wz = 3,300 kN

UNFACTORED SERVICE LOADS DUE TO NORMAL LOAD:
DLC 1.0 LOAD FACTOR = 1.00

OVERTURNING MOMENT, Mxy = 50,400 kN–m
HORIZONTAL BASE SHEAR, Hxy = 620 kN
VERTICAL TOWER LOAD, Wz = 3,300 kN

FOUNDATION DESIGN DATA:
MIN. FACTOR OF SAFETY AGAINST OVERTURNING: >2.0
MIN. FACTOR OF SAFETY AGAINST SLIDING: >2.0
MIN. FACTOR OF SAFETY AGAINST BEARING CAPACITY FAILURE: >2.26 ON EXTREME

REFERENCE DOCUMENTS:
1. LOAD DOCUMENT TO BE DETERMINED.

MIN. 28–DAY COMPRESSIVE STRENGTH OF CONCRETE:
5000 PSI – FOOTING & PEDESTAL
5 TO 15% AGGREGATE SIZE RETAINED ON THE 1" SIEVE

MIN. YIELD POINT STRENGTH OF REINFORCING BAR:
75 KSI FOOTING TOP AND BOTTOM REBAR 60 KSI ALL OTHER BARS

MIN. STRENGTH OF ANCHOR BOLTS:
TENSILE – 100 KSI YIELD – 75 KSI

MIN. COMPRESSIVE STRENGTH OF NON–SHRINK GROUT:
12,000 PSI. @ 28 DAYS, 7,000 PSI @ 3 DAYS

MIN. YIELD POINT STRENGTH OF EMBEDMENT PLATE:
36 KSI

VOLUME OF FOUNDATION AS DIMENSIONED:
563 CUBIC YARDS

ESTIMATED QUANTITY OF REINFORCING STEEL:
53 TONS

MASS CONCRETE REQUIREMENTS:
MAX. CONCRETE TEMPERATURE DURING CURING=158°F
MAX. FOOTING TEMPERATURE DIFFERENTIAL DURING CURING=35°F
MINIMUM FOOTING PROTECTION PERIOD=14 DAYS
MINIMUM CONCRETE PLACEMENT RATE=180 C.Y. PER HOUR

ABBREVIATIONS:

ASR	ALKALI SILICA REACTION	MIN.	MINIMUM
B.O.	BOTTOM OF	O.C.	ON CENTER
C.C.C.	CLEAR CONCRETE COVER	O.D.	OUTSIDE DIAMETER
℄	CENTER LINE	R	RADIUS
C.Y.	CUBIC YARDS	STD.	STANDARD
DLC	DESIGN LOAD CASE	T&B	TOP AND BOTTOM
EL.	ELEVATION	T.O.C.	TOP OF CONCRETE
E.W.	EACH WAY	UNO	UNLESS NOTED OTHERWISE
EX.	EXISTING	TYP	TYPICAL
I.D.	INSIDE DIAMETER	W/	WITH
MAX.	MAXIMUM	ø	DIAMETER

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	CAK	–	CAK	02/12/14	INITIAL RELEASE
B	CAK	–	CAK	04/08/14	PEDESTAL CONCRETE STRENGTH, TIE BAR, VERT

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WYOMING.

SIGNATURE _____
PRINTED NAME _____
DATE _____ REG. NO. _____

RELEASED TO/FOR	A	B	0	1	2	3	4
CLIENT	02/12/14	04/08/14					
BID							
CONSTRUCTION							
	DATE RELEASED						

BARR
Corporate Headquarters: Minneapolis, Minnesota
Ph: 1–800–632–2277

Project Office:
BARR ENGINEERING CO.
4700 WEST 77TH STREET
MINNEAPOLIS, MN.
55435–4803
Ph: 1–800–632–2277
Fax: (952) 832–2601
www.barr.com

Scale	AS SHOWN
Date	01/05/15
Drawn	CAK
Checked	–
Designed	CAK
Approved	CAK

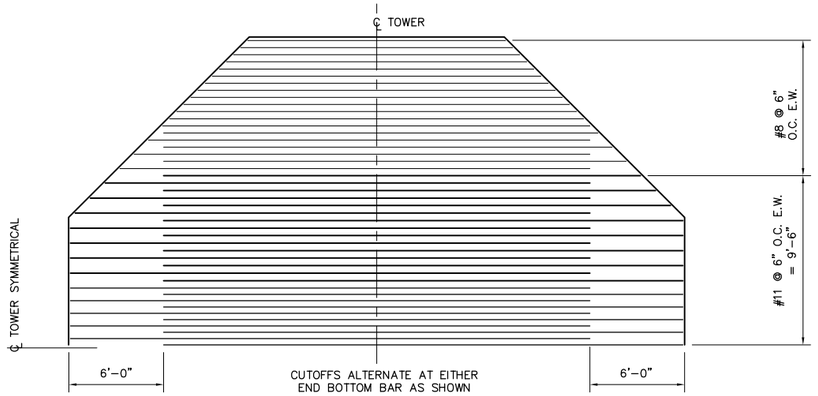
POWER COMPANY OF WYOMING
DENVER, COLORADO

CHOKECHERRY AND SIERRA MADRE
WIND ENERGY PROJECT
CARBON COUNTY, WYOMING

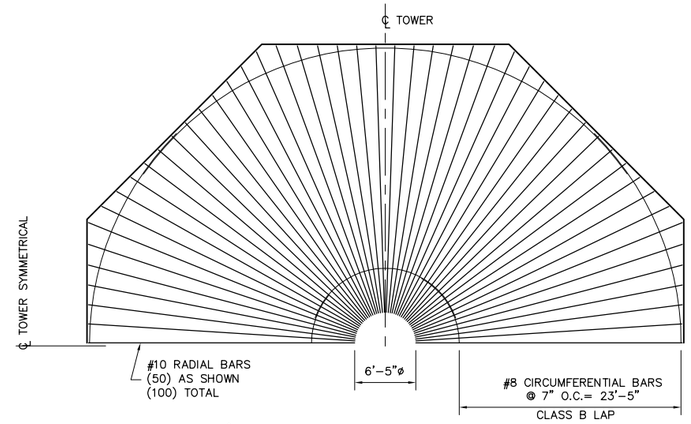
SPREAD FOOTING FOUNDATION
PLAN, ELEVATION, SECTION & DETAILS

BARR PROJECT No. 50/04–1001
CLIENT PROJECT No. –
DWG. No. 35 of 254
REV. No. B

CAK m:\adept\50041001_ccsm_s-01.dwg Plot AT 1 02/12/2014 18:33:00



7 S-01 **DETAIL: FOOTING BOTTOM BARS**
N.T.S.



10 S-01 **DETAIL: FOOTING TOP BARS**
1/8"=1'-0"

0 1 5 10
SCALE IN FEET

PRELIMINARY
FOR PERMITTING
PURPOSES ONLY
READ DRAWING IN CONJUNCTION
WITH DRAWING S-01 AND S-03

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	CAK	–	CAK	02/12/14	INITIAL RELEASE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WYOMING.

SIGNATURE _____
PRINTED NAME _____
DATE _____ REG. NO. _____

RELEASED TO/FOR	A	0	1	2	3	4	5
CLIENT	02/12/14						
BID							
CONSTRUCTION							
DATE RELEASED							

BARR
Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277

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4700 WEST 77TH STREET
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Scale	AS SHOWN
Date	01/05/15
Drawn	CAK
Checked	–
Designed	CAK
Approved	CAK

POWER COMPANY OF WYOMING
DENVER, COLORADO

CHOKECHERRY AND SIERRA MADRE
WIND ENERGY PROJECT
CARBON COUNTY, WYOMING

SPREAD FOOTING FOUNDATION
ADDITIONAL REINFORCING DETAILS

BARR PROJECT No. 50/04-1001
CLIENT PROJECT No. –
DWG. No. 36 of 254
REV. No. A

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1.0 EXCAVATION, SUBGRADE PREPARATION, BACKFILL, & COMPACTION

A. GENERAL

1. ENSURE FOUNDATION SITE IS EXCAVATED AND GRADED IN ACCORDANCE WITH THE DRAWINGS.
2. ENSURE UNIFORM BEARING CONDITIONS ARE PROVIDED FOR THE FOUNDATION. DO NOT PLACE THE FOUNDATION ON VARIABLE OR DISTURBED SOIL CONDITIONS. UNIFORMITY SHALL BE VERIFIED BY MEANS OF PROOF ROLLING AND/OR AS STIPULATED BELOW.

B. SUBMITTALS

1. SUBMIT GRAIN SIZE ANALYSIS, NATURAL MOISTURE CONTENT, AND STANDARD PROCTOR MAXIMUM DRY DENSITY TEST DATA FOR COMMON FILL SOIL MATERIALS.
2. SUBMIT COMPACTION TEST RESULTS FOR FILL PLACED OVER THE FOUNDATION INDICATING LOCATION OF TEST, DRY DENSITY, AND MOISTURE CONTENT OF PLACED FILL.
3. SUBMIT SUBGRADE INSPECTION REPORT FOR EACH FOUNDATION COMPLETED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER.

C. PRODUCTS

1. **LEAN CONCRETE:** CONTAINING ASTM C150, TYPE II CEMENT. 28 DAY COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN 1,000 PSI.

2. **COMMON FILL:** SHALL CONSIST OF SUITABLE MATERIALS EXCAVATED FROM THE FOUNDATION SITE OR IMPORTED AS NECESSARY. ADDITIONAL CRUSHING AND SCREENING MAY BE REQUIRED TO PROCESS THE MATERIAL TO THE SPECIFICATION REQUIREMENTS.
   a. MATERIALS BACKFILLED WITHIN 1 FOOT OF THE PEDESTAL SHALL BE FINE, WELL GRADED MATERIAL WITH A PARTICLE SIZE NO GREATER THAN 3".
   b. MATERIALS BACKFILLED OUTSIDE THIS AREA MAY CONSIST OF ALL OTHER EXCAVATED MATERIALS PROVIDED THEY MEET THE DENSITY REQUIREMENTS AND CAN BE PLACED USING METHODS THAT WILL PREVENT VOIDS FROM OCCURRING.
   c. ALL EXCAVATED AREAS AROUND THE FOUNDATION MUST BE BACKFILLED AND COMPACTED TO THE REQUIREMENTS LISTED BELOW.

D. EXECUTION

1. REMOVE TOPSOIL FROM THE PLAN AREA AND STORE IN AN OWNER DESIGNATED AREA. THE TOPSOIL SHALL BE USED FOR SITE RESTORATION.

2. EXCAVATE SOILS TO THE LIMITS INDICATED ON DRAWING S-01 USING TECHNIQUES (E.G. A SMOOTH EDGED EXCAVATOR BUCKET) THAT WILL MINIMIZE DISTURBANCE TO THE SUBGRADE. CONTRACTOR IS RESPONSIBLE FOR CONTROL OF SURFACE WATER AND/OR GROUNDWATER FLOWS INTO THE EXCAVATION.

3. PRIOR TO PLACING PROTECTIVE LEAN CONCRETE SURFACE, HAVE A GEOTECHNICAL ENGINEER INSPECT THE SUBGRADE CONDITIONS AND RECORD THE SOIL TYPE ENCOUNTERED, GROUNDWATER CONDITIONS OR OTHER SUBSURFACE CONDITIONS. CHECK THAT OBSERVATIONS TAKEN ARE CONSISTENT WITH THE OBSERVATIONS CONTAINED IN THE GEOTECHNICAL DOCUMENTS REFERENCED ON DRAWING S-01.

4. SURFACE COMPACT THE TOP OF THE SUBGRADE TO CONSOLIDATE LOOSE SOILS CREATED DURING EXCAVATION.

5. VERIFY THE UNIFORMITY OF THE SUBGRADE, PROOF ROLL THE SUBGRADE WITH A FULLY LOADED 25 TON TANDEM AXLE DUMP TRUCK OR EQUAL. IN THE EVENT THAT SUBGRADE FAILS THE PROOF ROLL TEST (WHEREBY RUTS GREATER THAN 1 INCH OR PUMPING ARE OBSERVED), OBTAIN WRITTEN INSTRUCTIONS FROM THE BARR FOUNDATION ENGINEER AS TO THE MEANS TO BE UNDERTAKEN. OBTAIN WRITTEN CONFIRMATION FROM BARR FOUNDATION ENGINEER THAT THE NECESSARY ACTIONS WERE COMPLETED.

6. FOR PROTECTION OF THE SUBGRADE AND ESTABLISHMENT OF A WORKING SURFACE, PLACE LEAN CONCRETE FILL AS INDICATED ON THE DRAWING. IT IS RECOMMENDED THAT THE LEAN CONCRETE FILL BE PLACED AS LEVEL AS PRACTICAL TO FACILITATE PLACEMENT OF THE REINFORCING STEEL AND EMBEDMENT RING. THE LEAN CONCRETE FILL MUST BE THICK ENOUGH TO SUPPORT THE REINFORCING STEEL AND THE ANCHOR BOLT CAGE.

7. BACKFILL AND COMPACTION: PLACE AND COMPACT COMMON FILL MATERIALS TO THE LIMITS, DEPTH AND DRY DENSITY INDICATED ON DRAWING S-01. IN ADDITION TO THE DRY DENSITY REQUIREMENT, BACKFILL MUST BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR. PLACE FILL IN MAXIMUM LOOSE LIFTS OF 12 INCHES OR LESS TO ACHIEVE THE SPECIFIED DENSITY. BACKFILL MAY BE PLACED WHEN THE FOOTING AND PEDESTAL HAVE REACHED A COMPRESSIVE STRENGTH OF 2000 PSI.

8. GRADE THE SITE IN ACCORDANCE WITH DRAWINGS TO PREVENT WATER FROM PONDING OVER THE FOUNDATION WHILE MAINTAINING AT LEAST THE MINIMUM DEPTH OF FILL SPECIFIED ON THE DRAWINGS. RESTORE THE SITE IN ACCORDANCE WITH OWNER REQUIREMENTS.

E. TESTING AND INSPECTION

1. FOR EVERY 2500 CUBIC YARDS OF PLACED COMMON FILL, OBTAIN SAMPLES OF COMMON FILL MATERIALS AND PERFORM GRAIN SIZE ANALYSIS, MOISTURE CONTENT, PROCTOR AND/OR RELATIVE DENSITY TESTS.

2. FOR ALL PLACED AND COMPACTED COMMON FILLS AROUND THE FOUNDATION, PROVIDE ONE DENSITY TEST PER LIFT INDICATING TEST LOCATION, DRY DENSITY AND MOISTURE CONTENT.

3. WHERE COMMON OR STRUCTURAL FILL MATERIAL CANNOT BE TESTED USING CONVENTIONAL NUCLEAR DENSITY METHODS DUE TO THE PRESENCE OF LARGE PARTICLES, USE A BULK DENSITY TEST METHOD WHEREBY A GIVEN OR STANDARD AMOUNT OF MATERIAL IS REMOVED FROM A COMPACTED LIFT OF BACKFILL AND REPLACED WITH A KNOWN VOLUME OF SAND OR WATER (SUCH AS ASTM D1556, D5030 OR OTHER APPROVED METHOD).

4. PROVIDE A SUBGRADE INSPECTION REPORT TO BE COMPLETED BY A GEOTECHNICAL ENGINEER.

PRELIMINARY
FOR PERMITTING
PURPOSES ONLY

2.0 CAST-IN-PLACE CONCRETE AND STEEL REINFORCING

A. GENERAL

1. CONCRETE WORK SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS:
   a. ACI 318-08, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
   b. ACI 301, STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE.

B. SUBMITTALS

1. FOR EACH CONCRETE TYPE USED, SUBMIT FOR APPROVAL A MIX DESIGN CERTIFIED BY A PROFESSIONAL ENGINEER AND MEETING THE MINIMUM SPECIFIED REQUIREMENTS.
2. SUBMIT PRODUCT DATA FOR ADMIXTURES, POZZOLAN, AND CURING MEMBRANE USED ON THE PROJECT. INCLUDE GRADATION OF COARSE AGGREGATE IF MAX. AGGREGATE SIZE SPECIFIED.
3. SUBMIT REINFORCING FABRICATION AND PLACEMENT SHOP DRAWINGS.
4. SUBMIT MILL REPORTS OF REINFORCING STEEL, CONFIRMING THE GRADE AND STRENGTH OF REINFORCING STEEL PROVIDED ON THE PROJECT.
5. SUBMIT QUALITY CONTROL FIELD TESTS OF AIR CONTENT, SLUMP, AIR TEMPERATURE, AND CONCRETE TEMPERATURE.
6. SUBMIT CONCRETE CYLINDER STRENGTH TEST RESULTS.
7. SUBMIT A PLAN FOR HOT AND COLD WEATHER PROTECTION OF CONCRETE IN ACCORDANCE WITH ACI 305-306.

C. PRODUCTS

1. **REINFORCING BARS:** TO ASTM A615, GRADE 60, DEFORMED, UNCOATED.
2. **CEMENT:** TO ASTM C150, TYPE II.
3. **FLY ASH:** TO ASTM C618, CLASS C OR F.
4. **MINIMUM CEMENTITIOUS CONTENT:** IN ACCORDANCE WITH APPROVED MIX DESIGN.
5. **COARSE AGGREGATES:** TO ASTM C33, GRADATION IN ACCORDANCE WITH SPECIFICATIONS AND APPROVED MIX DESIGN WITH A MINIMUM OF 5%-15% RETAINED ON 1" SIZE SIEVE. AGGREGATES MUST BE NON-REACTIVE WITH CEMENT TO PREVENT ASR.
6. **FINE AGGREGATES:** TO ASTM C33, GRADATION IN ACCORDANCE WITH APPROVED MIX DESIGN.
7. **AIR ADMIXTURE AND CONTENT:** TO ASTM C260, RANGING FROM 4% ± 1.5% FOR PEDESTAL ONLY, NO AIR CONTENT REQUIREMENT FOR FOOTING. AGGREGATES MUST BE NON-REACTIVE WITH CEMENT TO PREVENT ASR.
8. **OTHER ADMIXTURES:** WATER REDUCING MIXTURE AND SUPERPLASTICIZER AS REQUIRED.
9. **MAXIMUM WATER CEMENT RATIO:** 0.45.
10. **28 DAY COMPRESSIVE STRENGTH:** 5,000 PSI FOOTING, 6,500 PSI PEDESTAL.
11. **SLUMP:** IN ACCORDANCE WITH APPROVED MIX DESIGN AT THE POINT OF DEPOSITION WITH THE ADDITION OF ADMIXTURES.
12. **CURING MEMBRANE:** TO ASTM C309, TYPE 2 (WHITE), CLASS A OR B.
13. **CONCRETE UNIT WEIGHT:** 145 PCF (MINIMUM).

D. EXECUTION

1. PLACE CONCRETE AND REINFORCING AS SHOWN AND IN ACCORDANCE WITH THE FOLLOWING DIMENSIONAL TOLERANCES:
   a. REINFORCING PLAN SPACING: PLUS OR MINUS 2 INCHES.
   b. REINFORCING VERTICAL SPACING: PLUS OR MINUS 1 INCH.
   c. FOOTING CLEAR CONCRETE COVER: MINUS 0 INCHES, PLUS 3 INCHES.
   d. PEDESTAL CLEAR CONCRETE COVER: MINUS 0 INCHES, PLUS 2 INCHES.
   e. FOOTING PLAN DIMENSIONS: MINUS 0 INCHES, PLUS 3 INCHES.
   f. FOOTING THICKNESS: MINUS 0 INCHES, PLUS 3 INCHES.
   g. PEDESTAL PLAN DIMENSIONS: MINUS 0 INCHES, PLUS 2 INCHES.
   h. PEDESTAL HEIGHT: MINUS 1 INCH, PLUS 0 INCHES.
   i. PEDESTAL CENTERED TO WITHIN 2 INCHES RELATIVE TO FOOTING.

2. PROVIDE NECESSARY TIES, CHAIRS, AND STANDEES TO SECURE AND SUPPORT REBAR AND PREVENT MOVEMENT OR DISPLACEMENT OF THE BARS DURING PLACEMENT OF CONCRETE.

3. REINFORCEMENT SHALL BE FREE OF LOOSE RUST, MILL SCALE, EARTH, ICE, CONCRETE, OR OTHER MATERIALS WHICH COULD PREVENT BONDING TO NEW CONCRETE.

4. SET FORMWORK IN ACCORDANCE WITH SPECIFIED DIMENSIONS AND TOLERANCES. PREVENT FORMWORK FROM DEFLECTING GREATER THAN 1 INCH DURING PLACEMENT OF CONCRETE. FORMWORK MUST BE REMOVED AFTER CONCRETE WORK IS COMPLETED.

5. PLACE CONCRETE IN ACCORDANCE WITH ACI 318. PLACE SUCCESSIVE LIFTS OF CONCRETE AS QUICKLY AS POSSIBLE TO ENSURE PROPER AMALGAMATION OF CONCRETE BETWEEN SUCCESSIVE LIFTS.

6. CONSOLIDATE CONCRETE IN ACCORDANCE WITH ACI 318 PREVENTING THE FORMATION OF JOINTS, VOIDS, HONEYCOMBING OR SEGREGATION OF AGGREGATE.

7. ROUGH FINISH TOP OF CONCRETE FOOTING USING A ROLLER SCREED.

8. PRIOR TO PLACING PEDESTAL CONCRETE, REMOVE CONCRETE SURFACE LAITANCE AND OTHER DEBRIS FROM TOP OF FOOTING.

9. TROWEL AND BROOM FINISH TOP OF PEDESTAL.

10. CURE CONCRETE FOOTING AND PEDESTAL IN ACCORDANCE WITH ACI 318. IF A CURING MEMBRANE IS USED, APPLY CURING MEMBRANE AS SOON AS BLEEDING HAS STOPPED AND FREE WATER HAS DISAPPEARED FROM THE SURFACE.

11. ALL METAL DEVICES USED TO SUPPORT FORMWORK OR TEMPORARY BRACING THAT ARE EMBEDDED IN THE FOOTING OR PEDESTAL SHALL BE REMOVED TO A DEPTH OF ONE INCH FROM THE SURFACE OF THE CONCRETE AND FILLED WITH GROUT.

E. TESTING AND INSPECTION

1. FOR EACH FOOTING PLACED, CAST A MINIMUM OF 10 – 6" DIAMETER CONCRETE CYLINDERS FOR LABORATORY STRENGTH TESTING WITH TWO TESTS AT 28 DAYS (AVERAGE OF TWO CYLINDER BREAKS FOR EACH STRENGTH TEST) AND IF NECESSARY ONE AT 56 DAYS. CAST ADDITIONAL CYLINDERS AS REQUIRED TO DETERMINE CONCRETE STRENGTH AT OTHER TIMES.
2. FOR EACH PEDESTAL, CAST A MINIMUM OF 4 – 6" DIAMETER CONCRETE CYLINDERS FOR LABORATORY STRENGTH TESTING WITH ONE TEST AT 28 DAYS (AVERAGE OF TWO CYLINDER BREAKS FOR EACH STRENGTH TEST) AND IF NECESSARY ONE AT 56 DAYS. CAST ADDITIONAL CYLINDERS AS REQUIRED TO DETERMINE CONCRETE STRENGTH AT OTHER TIMES.
3. PERFORM A MINIMUM OF ONE AIR TEST AND A MINIMUM OF ONE SLUMP TEST PER SET OF CYLINDERS CAST. RECORD AMBIENT AIR TEMPERATURE AND CONCRETE TEMPERATURE.

3.0 ANCHOR BOLTS AND EMBEDMENT RING

A. GENERAL

1. PRODUCTS, SUBMITTALS, EXECUTION, AND TESTING ARE SPECIFIED TO PROVIDE DURABLE ANCHOR BOLTS AND EMBEDMENT PLATES.

B. SUBMITTALS

1. SUBMIT PRODUCT DATA FOR ANCHORS AND HARDWARE.
2. SUBMIT A 12-INCH LONG PRODUCT SAMPLE OF THE ANCHOR COMPLETE WITH WASHER AND NUT.
3. SUBMIT MILL CERTIFICATES FOR ANCHORS INDICATING YIELD AND TENSILE STRENGTH OF ANCHORS.

4. SUBMIT MILL CERTIFICATES FOR THE EMBEDMENT RING INDICATING THAT THE MATERIAL MEETS THE MINIMUM STRENGTH REQUIREMENTS.

5. SUBMIT 5 LABORATORY TENSION TESTS OF ANCHOR COMPLETE WITH THREADS.

6. SUBMIT A TENSIONING CALIBRATION PROCEDURE FOR REVIEW, INCLUDING VERIFICATION THAT THE EQUIPMENT PROVIDED AND TENSIONING METHODS USED ARE DELIVERING THE NECESSARY LOCK OFF LOAD.

7. SUBMIT A TENSIONING PROCEDURE FOR REVIEW.

8. SUBMIT A TENSION TESTING PROCEDURE FOR REVIEW.

9. SUBMIT TENSION TEST DATA FOR ANCHOR BOLTS THAT ARE TESTED INDICATING BOLT LOCATION AND TENSION VALUE.

10. SUBMIT EMBEDMENT RING SHOP DRAWING.

C. PRODUCTS

1. **ANCHOR BOLTS:** 1 3/8" NOMINAL SIZE WITH MATERIAL TO ASTM A722 TYPE I, FABRICATED WITH COLD ROLLED THREADS, A MINIMUM YIELD STRENGTH OF 125 KSI, A MINIMUM TENSILE STRENGTH OF 150 KSI, A MAXIMUM THREAD DIAMETER OF 1 9/16" INCHES, AND A MINIMUM NET AREA OF 1.56 SQUARE INCHES.

2. **ANCHOR BOLT SLEEVES:** PVC TO ASTM D1784, MANUFACTURED TO ASTM D2241, SDR21 THICKNESS.

3. **EMBEDMENT RING:** TO ASTM A36, PLAIN FINISH.

4. **HEAVY HEX NUTS:** TO ASTM A194, GRADE 2H, EXCEPT FOR THE DIMENSIONAL REQUIREMENTS. OR TO AISI-1045 HT TO HRC 24/36. NUTS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TENSILE STRENGTH OF THE ANCHOR.

5. **HARDENED STEEL WASHERS:** TO ASTM F436, EXTRA THICK WASHER, PLAIN FINISH.

D. EXECUTION

1. THE FOLLOWING DIMENSIONAL TOLERANCES SHALL BE ADHERED TO FOR PLACEMENT OF ANCHOR BOLTS:

   a. ANCHOR BOLT PLAN LOCATION – PLUS OR MINUS 1/16 INCH.
   b. ANCHOR BOLT PLUMBNESS – LESS THAN 1/4 DEGREE.
   c. TEMPLATE AND EMBEDMENT RING PLAN DIMENSION – PLUS OR MINUS 1/16 INCH.
   d. EMBEDMENT RING LEVEL – PLUS OR MINUS 1/4 INCH.
   e. EMBEDMENT RING ELEVATION – PLUS OR MINUS 1/2 INCH.

2. USE A TEMPLATE RING TO SET ANCHOR BOLT PLUMBNESS AND POSITION. ENSURE THE TEMPLATE RING IS SET IN ACCORDANCE WITH THE SPECIFIED CONSTRUCTION TOLERANCES.

3. PLACE AND LEVEL THE EMBEDMENT RING IN ACCORDANCE WITH THE SPECIFIED TOLERANCES. ENSURE THE EMBEDMENT RING IS PROPERLY ANCHORED TO PREVENT MOVEMENT. IT IS ACCEPTABLE TO WELD SUPPLEMENTAL STEEL BRACING TO THE EMBEDMENT RING OR TEMPLATE RING TO PREVENT MOVEMENT.

4. AFTER PLACEMENT OF CONCRETE PEDESTAL, PREVENT WATER FROM ENTERING THE SLEEVE ANNULUS FROM THE TOP SURFACE PRIOR TO SETTING OF TOWER AND GROUTING OF BASEPLATE.

5. AFTER SETTING OF THE LOWER TOWER SECTION(S) AND GROUTING OF THE BASEPLATE AND USING AN APPROVED TENSIONING PROCEDURE, APPLY A LOCK-OFF FORCE TO EACH ANCHOR BOLT WHICH IS AT LEAST GREATER THAN SHOWN ON DRAWING S-01 BUT NO GREATER THAN 5 KIPS MORE IN ORDER TO ACHIEVE A MINIMUM TENSION FORCE INDICTAED ON DRAWING S-01. THE LOCK-OFF FORCE SELECTED BY THE CONTRACTOR SHOULD ACCOUNT FOR TENSION LOSSES DUE TO THE TENSIONING PROCEDURE TO ENSURE THE SPECIFIED TENSION TEST VALUE IS ACHIEVED. THE TENSIONING EQUIPMENT FOR THE ANCHOR BOLTS SHOULD BE CALIBRATED IN ACCORDANCE WITH THE APPROVED PROCEDURE ON A REGULAR BASIS TO ENSURE REQUIRED TENSIONS ARE ACHIEVED.

E. TESTING AND INSPECTION

1. SUBMIT 5 LABORATORY TENSION TESTS ON PROJECT ANCHORS, COMPLETE WITH THREADS, PERFORMED BY AN INDEPENDENT TESTING LABORATORY. PERFORM TEST IN ACCORDANCE WITH ASTM A370, AND REPORT YIELD STRESS AND TENSILE STRESS.

2. AFTER ALL BOLTS HAVE BEEN TENSIONED, A MINIMUM OF 10% OF THE TOTAL BOLTS INSTALLED PER FOUNDATION SHALL BE RANDOMLY TESTED TO VERIFY THAT SPECIFIED MINIMUM TENSION LOAD INDICATED ON DRAWING S-01 HAS BEEN ACHIEVED BY USE OF AN APPROVED TENSION TESTING PROCEDURE. IF ANY OF THE BOLTS DO NOT MEET THE REQUIRED TENSION TEST VALUE, THEN ALL BOLTS OF THE TOWER MUST BE RETENSIONED AND THE TENSION TEST MUST BE REPEATED. REPEAT THE PROCEDURE UNTIL ALL THE TENSION TESTS PASS.

4.0 TOWER BASE GROUT

A. GENERAL

1. NO ITEMS.

B. SUBMITTALS

1. SUBMIT MANUFACTURER'S GROUT PRODUCT DATA AND MANUFACTURER'S APPROVED MIXING, PLACING AND CURING INSTRUCTIONS FOR GROUT TO BE PLACED.

2. SUBMIT GROUT CUBE STRENGTH TEST RESULTS.

3. SUBMIT CONTRACTOR'S TOWER BASE SETTING/GROUTING PLAN.

– CONTINUED FROM SECTION 4.0

C. PRODUCTS

1. **CEMENTITIOUS NON-SHRINK GROUT:** PREPACKAGED GROUT CONFORMING TO ASTM C1107, WITH A MINIMUM COMPRESSIVE STRENGTH OF 14,000 PSI AFTER 28 DAYS ACCORDING TO ASTM C109.

2. **EPOXY NON-SHRINK GROUT:** PREPACKAGED EPOXY GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 11,000 PSI AFTER 28 DAYS ACCORDING TO ASTM C579 AND A MAXIMUM COEFFICIENT OF THERMAL EXPANSION OF 30 X 10-6 IN/IN/°F IN ACCORDANCE WITH ASTM C531.

D. EXECUTION

1. MIX, PLACE, AND CURE GROUT IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS.

2. FOR CEMENT GROUTS, PROVIDE GROUT SHOULDERS IN ACCORDANCE WITH DRAWING DETAILS. DO NOT ALLOW GROUT TO BE PLACED AGAINST THE SIDE OF THE TOWER FLANGE.

3. FOR EPOXY GROUTS, POUR GROUT UP THE SIDE OF THE TOWER FLANGE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND ALSO PROVIDE A 1/4" EXPANSION JOINT BETWEEN THE TOWER FLANGE AND THE GROUT.

4. COORDINATE GROUTING PROCEDURES WITH THE REQUIREMENTS OF THE TOWER MANUFACTURER.

E. TESTING

1. CAST MINIMUM OF 9 GROUT CUBES, AND PERFORM TWO LABORATORY STRENGTH TESTS AT 28 DAYS (AVERAGE OF THREE CUBE BREAKS FOR EACH STRENGTH TEST) AND IF NECESSARY ONE AT 56 DAYS. CAST ADDITIONAL GROUT CUBES AS REQUIRED TO DETERMINE STRENGTH AT OTHER TIMES.

5.0 MISCELLANEOUS CONCRETE EMBEDMENTS

A. GENERAL

1. COORDINATE THE LOCATION AND PLACEMENT OF GROUNDING GRIDS, CONTROL CONDUIT AND ELECTRICAL CONDUIT.

B. SUBMITTALS

1. SUBMIT CONDUIT PLACEMENT DETAILS TO THE FOUNDATION ENGINEER FOR APPROVAL SHOWING DISTANCE FROM TOP OF PEDESTAL TO TOP CONDUIT PENETRATION (THROUGH SIDE OF PEDESTAL).

C. PRODUCTS
1. NO ITEMS.

D. EXECUTION

1. VERIFY THE LOCATION OF MISCELLANEOUS CONCRETE EMBEDMENTS AND CONDUIT SO AS NOT TO INTERFERE WITH THE FOUNDATION'S STRUCTURAL REINFORCING STEEL.

2. ENSURE THAT MISCELLANEOUS EMBEDMENTS ARE PROPERLY SECURED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

3. TOP OF CONDUIT MUST BE A MINIMUM OF 24 INCHES BELOW TOP OF PEDESTAL.

6.0 SUBMITTALS

A. SUBMIT ONE ELECTRONIC COPY OF THE SUBMITTALS SPECIFIED TO THE FOUNDATION ENGINEER OF RECORD. SUBMITTALS SHALL BE MADE A MINIMUM OF ONE WEEK PRIOR TO ITS INCORPORATION INTO THE WORK.

B. THE FOUNDATION ENGINEER OF RECORD WILL REVIEW THE SUBMITTAL FOR CONFORMANCE AND COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.

C. THE REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN CONSTRUCTION OF THE WORK DUE TO ERRORS CONTAINED IN THOSE DOCUMENTS.

7.0 TESTING AND INSPECTION REQUIREMENTS

A. SUBMIT A LIST OF THE TESTING COMPANIES THAT WILL BE UTILIZED ON THE PROJECT FOR PERFORMANCE OF TESTS SPECIFIED.

B. SUBMIT NAME AND QUALIFICATIONS OF THE GEOTECHNICAL ENGINEER.

C. SUBMIT ONE ELECTRONIC COPY OF TESTING AND INSPECTION RECORDS SPECIFIED TO THE FOUNDATION ENGINEER OF RECORD.

D. THE FOUNDATION ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.

E. EACH FOUNDATION CONSTRUCTED IS SUBJECT TO THE STIPULATED TESTING REQUIREMENTS.

8.0 TOWER ERECTION AND ANCHOR TENSIONING REQUIREMENTS

A. UP TO THREE TOWER SECTIONS MAY BE ERECTED, LEVELED AND GROUTED WHEN CONCRETE STRENGTH OF THE FOOTING AND PEDESTAL HAS REACHED 4000 PSI.

B. THE NACELLE AND BLADES MAY BE ERECTED WHEN:

1. THE CONCRETE STRENGTH OF THE FOOTING AND PEDESTAL HAS REACHED THE SPECIFIED 28 DAY STRENGTH.

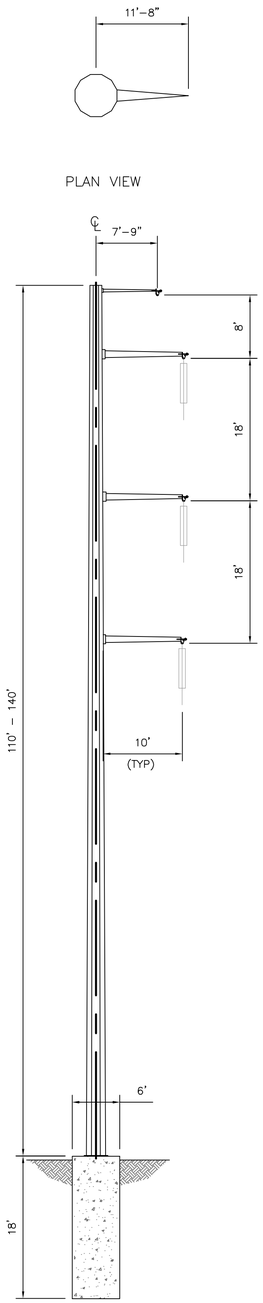
2. THE GROUT STRENGTH HAS REACHED THE SPECIFIED 28 DAY STRENGTH.

3. UPON COMPLETION OF THE ANCHOR BOLT TENSIONING AND TESTING AS FOUND IN SECTION 3.E.2 VERIFYING THAT THE REQUIRED TENSION VALUE HAS BEEN ACHIEVED.

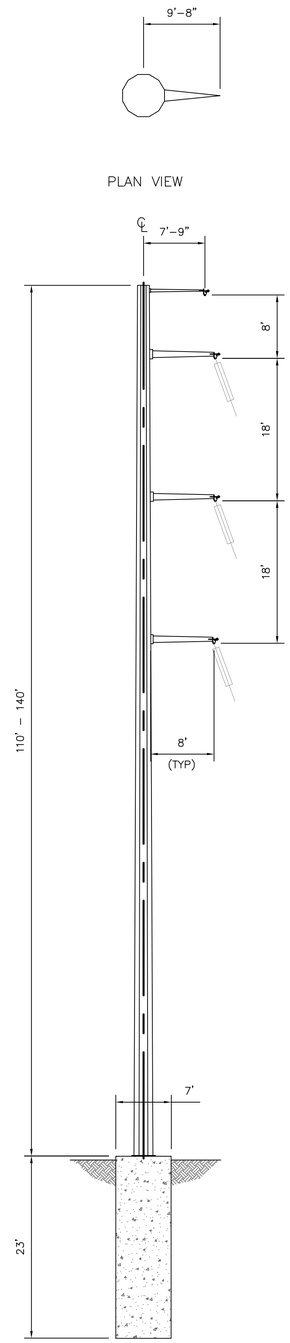
C. ANCHORS MAY BE TENSIONED WHEN:

1. THE CONCRETE STRENGTH OF THE FOOTING AND PEDESTAL HAS REACHED THE SPECIFIED 28 DAY STRENGTH.

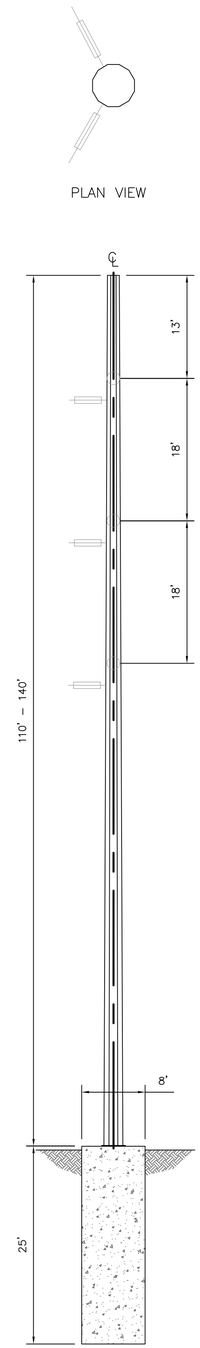
2. THE GROUT STRENGTH HAS REACHED 7,500 PSI.



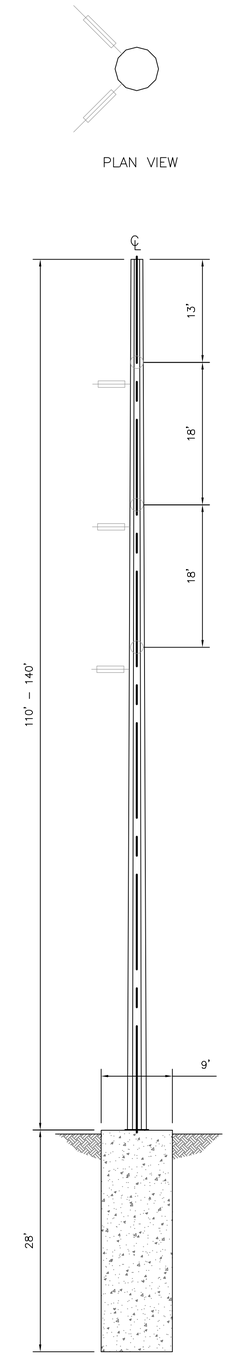
SINGLE CIRCUIT
0° – 1° TANGENT



SINGLE CIRCUIT
1° – 30° SUSPENSION ANGLE



SINGLE CIRCUIT
0° – 60° LIGHT DEADEND



SINGLE CIRCUIT
60° – 90° HEAVY DEADEND

NOTES:
1. DIMENSIONS ARE PRELIMINARY AND WILL VARY DEPENDING GRADE AND LINE ANGLES. TYPICAL POLE HEIGHTS ARE DESIGNED FOR PROJECT CONDITIONS.

BLACK & VEATCH CORP.
6300 S SYRACUSE WY
SUITE 300
CENTENNIAL CO, 80111

Designed: AGR
Checked: -
Drawn: JRF
Record Drawing by/date:

Revisions:

#	DATE	DESCRIPTION
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Prepared for:

Power Company of Wyoming LLC

555 Seventeenth Street, Suite 2400
Denver, CO 80202 USA

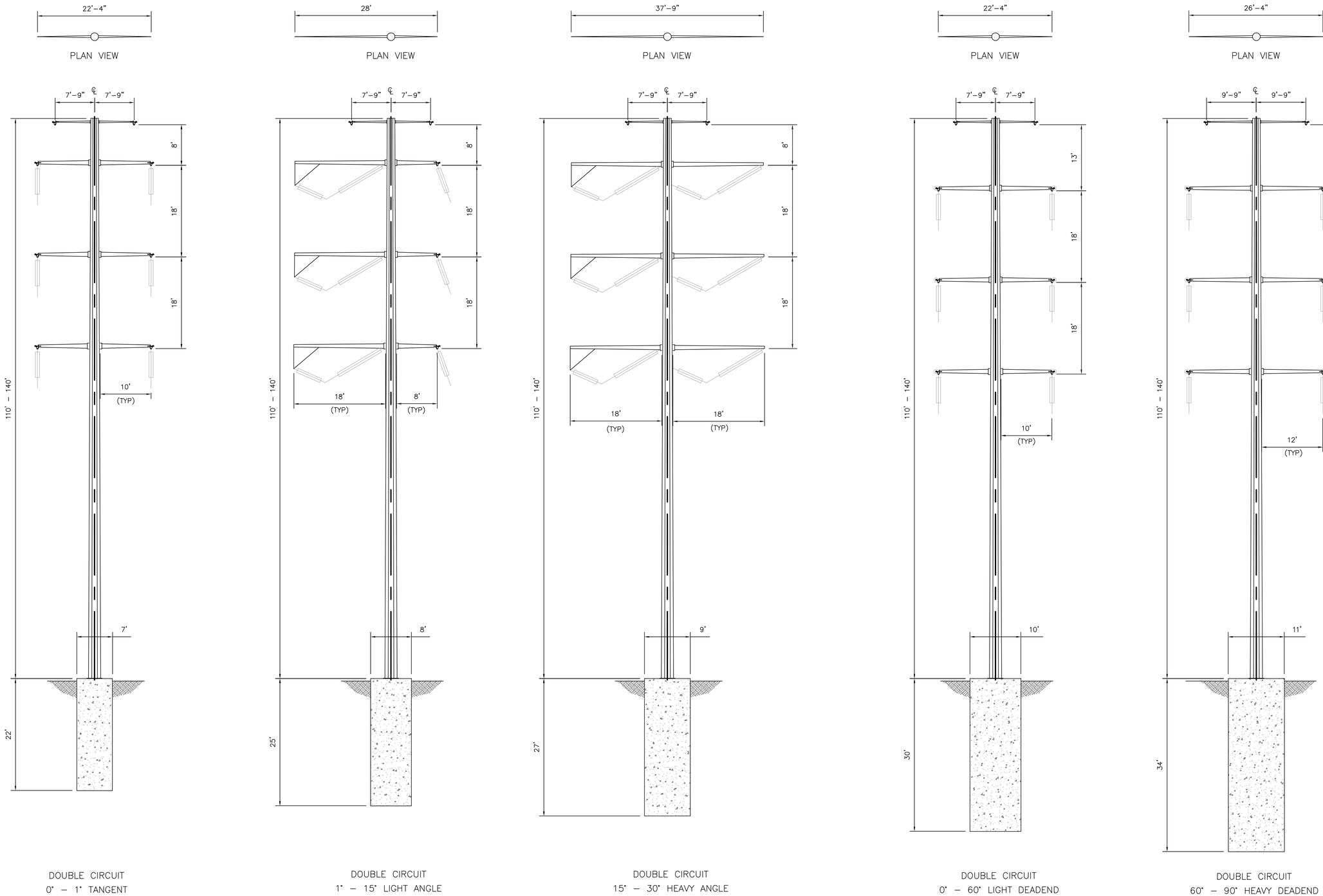
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

230KV Single Circuit Steel Pole Structures

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 38 of 254



NOTES:

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SUITE 300
CENTENNIAL CO, 80111

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Denver, CO 80202 USA

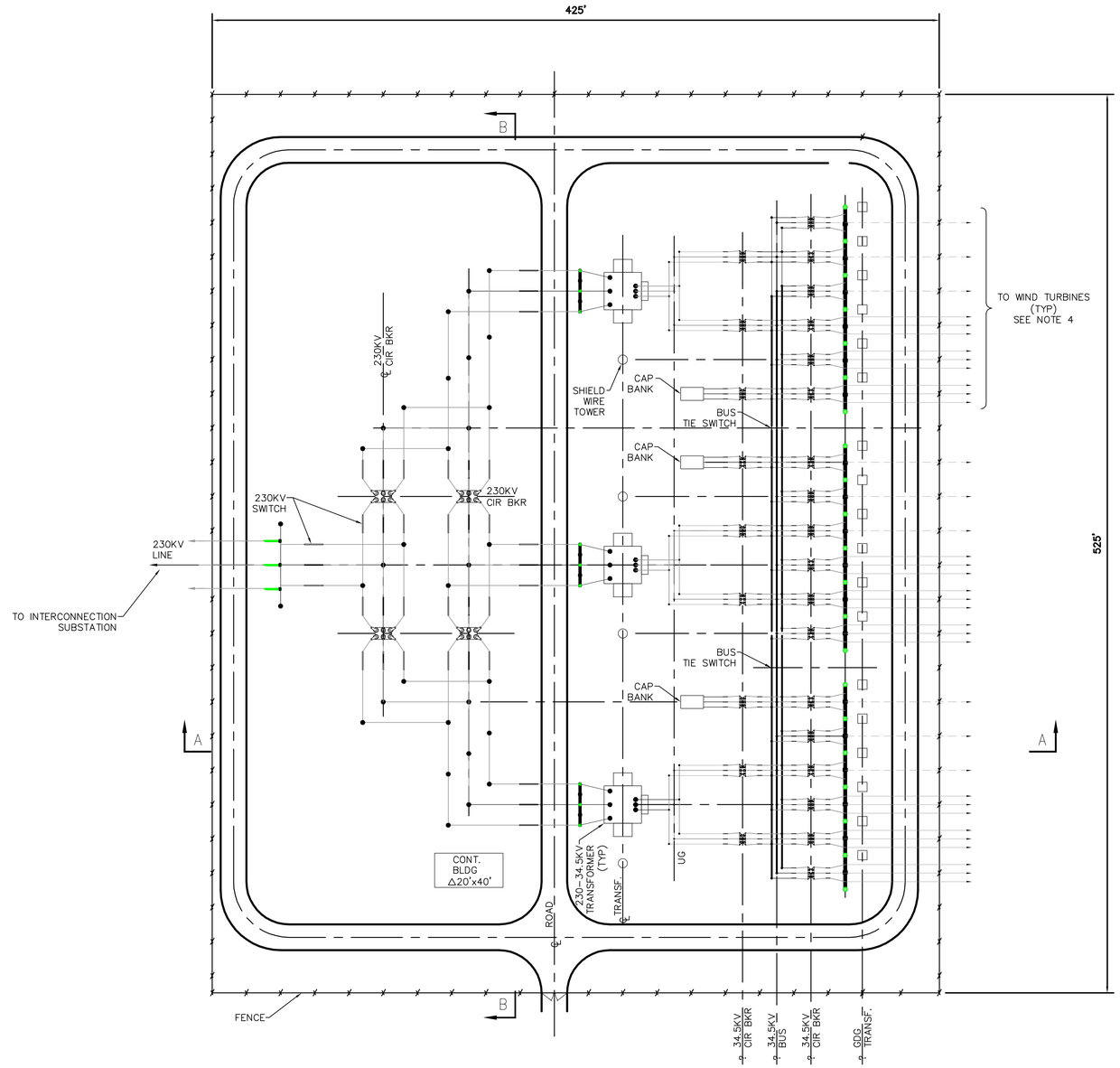
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

230KV Double Circuit Steel Pole Structures

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 39 of 254



40' 20' 0 20' 40' 80'

SCALE IN FEET
1"=40'-0"

NOTES:

1. THIS DRAWING IS PRELIMINARY AND INTENDED TO SHOW THE GENERAL SIZE AND DIMENSIONS OF A TYPICAL ARRANGEMENT BASED ON THE CURRENT CONCEPTUAL DESIGN.
2. ACTUAL NUMBER OF 34.5KV CIRCUITS PER TRANSFORMER BANK COULD VARY BETWEEN 4–6 CIRCUITS. 6 CIRCUITS ARE SHOWN AS A CONSERVATIVE MEASURE.
3. 34.5KV BUS CONFIGURATION IS PRELIMINARY. ACTUAL CONFIGURATION TO BE DETERMINED LATER BASED ON FINALIZED LAYOUTS, DESIGN PARAMETERS, AND OPERATIONS.
4. 34.5KV CIRCUITS FROM WIND TURBINES WILL ENTER THE SUBSTATION AS AN OVERHEAD OR UNDERGROUND CIRCUIT. BOTH OVERHEAD AND UNDERGROUND ARRANGEMENTS ARE SHOWN ON THIS DRAWING.
5. BUS TIE SWITCHES INTENDED TO BE NORMALLY OPEN. IN THE EVENT OF A XFMR FAILURE, THE BUS TIE SWITCH WOULD BE CLOSED TO MINIMIZE LOSS OF GENERATION. THIS SITUATION WOULD REQUIRE SPECIAL OPERATING PROCEDURES AND MAY REQUIRE SOME CURTAILING IN ORDER TO STAY WITHIN EQUIPMENT RATINGS.
6. SEE SHEET 33 FOR CONCEPTUAL ELEVATION VIEWS.

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6300 S SYRACUSE WY
SUITE 300
CENTENNIAL CO, 80111

Designed: AGR
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Drawn: JBF
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Chokecherry and Sierra Madre Wind Energy Project

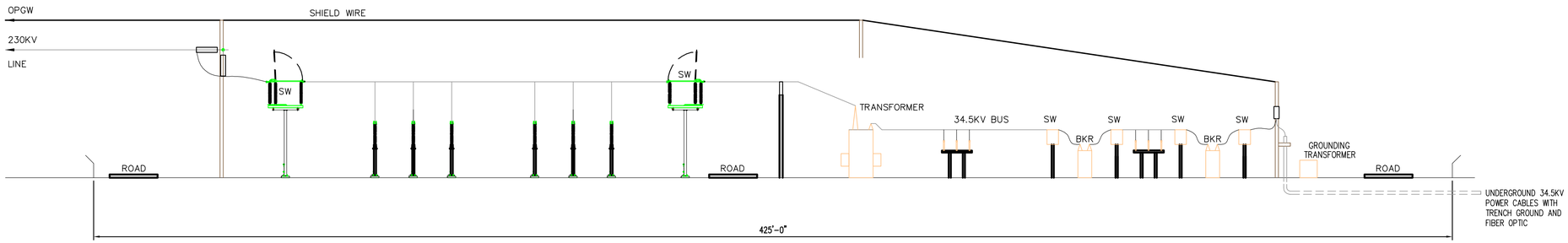
Carbon County, Wyoming

34.5/230KV Substation Plan View 3 Transformer Layout

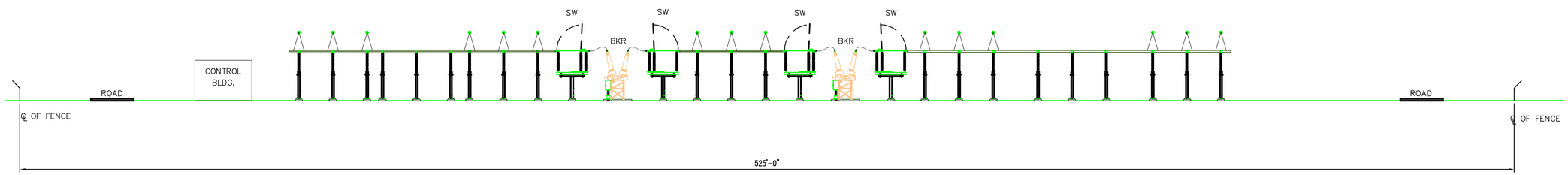
Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure

NOT FOR CONSTRUCTION

Date: 01/05/15



SECTION A–A



SECTION B–B

NOTES:

1. SEE SHEET 32 FOR CONCEPTUAL PLAN VIEW.

20' 10' 0 10' 20' 40'

SCALE IN FEET
1"=20'-0"

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SUITE 300
CENTENNIAL CO, 80111

Designed: AGR
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Drawn: JEF
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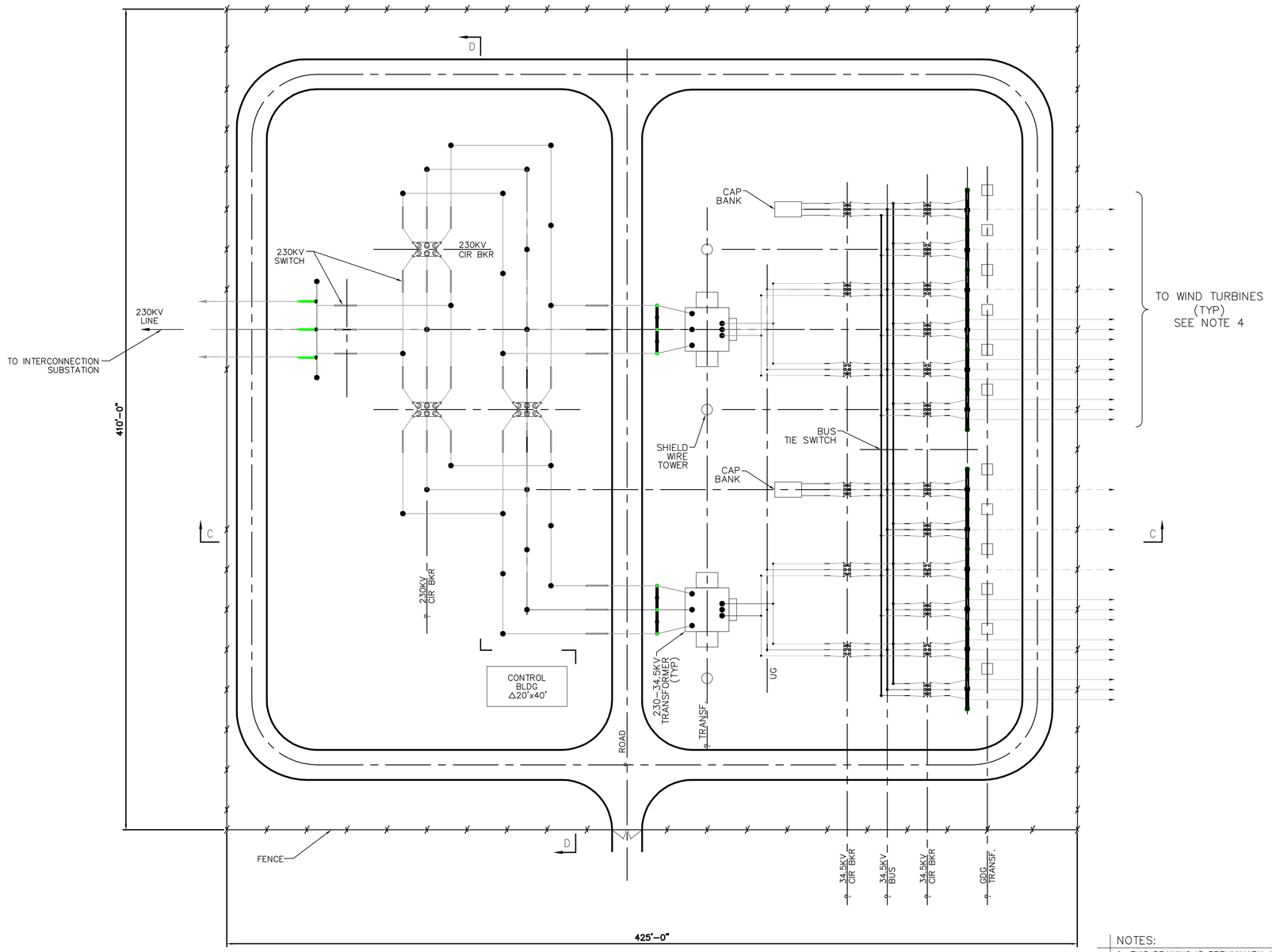
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

34.5/230KV
Substation Elevation
3 Transformer Layout

Phase I Wind Development
Area Wind Turbine Sites &
Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 41 of 254



30' 15' 0 15' 30' 60'

SCALE IN FEET
1"=30'-0"

NOTES:

1. THIS DRAWING IS PRELIMINARY AND INTENDED TO SHOW THE GENERAL SIZE AND DIMENSIONS OF A TYPICAL ARRANGEMENT BASED ON THE CURRENT CONCEPTUAL DESIGN.
2. ACTUAL NUMBER OF 34.5KV CIRCUITS PER TRANSFORMER BANK COULD VARY BETWEEN 4–6 CIRCUITS. 6 CIRCUITS ARE SHOWN AS A CONSERVATIVE MEASURE.
3. 34.5KV BUS CONFIGURATION IS PRELIMINARY. ACTUAL CONFIGURATION TO BE DETERMINED LATER BASED ON FINALIZED LAYOUTS, DESIGN PARAMETERS, AND OPERATIONS.
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6. SEE SHEET 35 FOR CONCEPTUAL ELEVATION VIEWS.

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SUITE 300
CENTENNIAL CO, 80111

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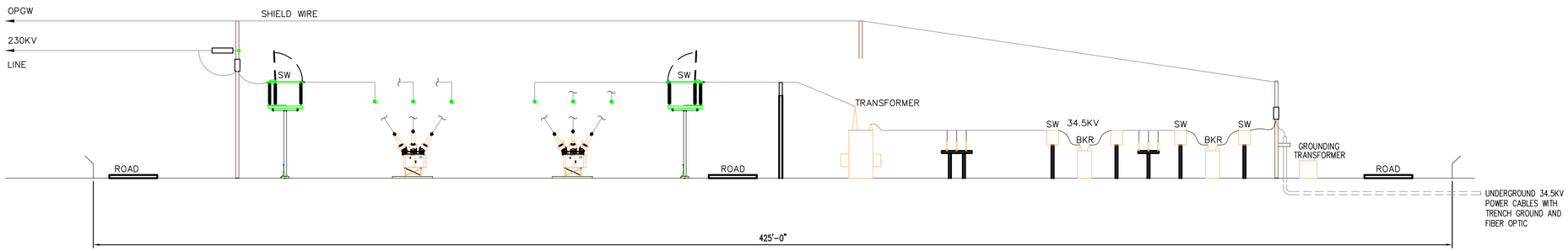
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

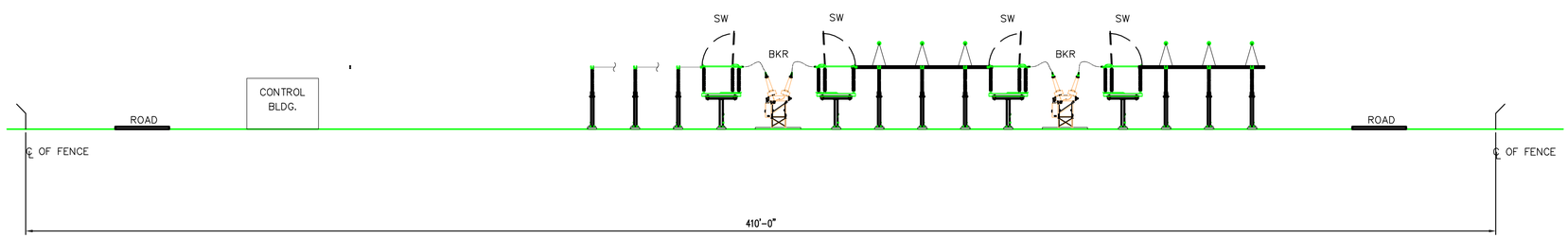
34.5/230KV Substation Plan View 2 Transformer Layout

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 42 of 254



SECTION C–C



SECTION D–D

20' 10' 0 10' 20' 40'

SCALE IN FEET
1"=20'-0"

NOTES:

1. SEE SHEET 34 FOR CONCEPTUAL PLAN VIEW.

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CENTENNIAL CO, 80111

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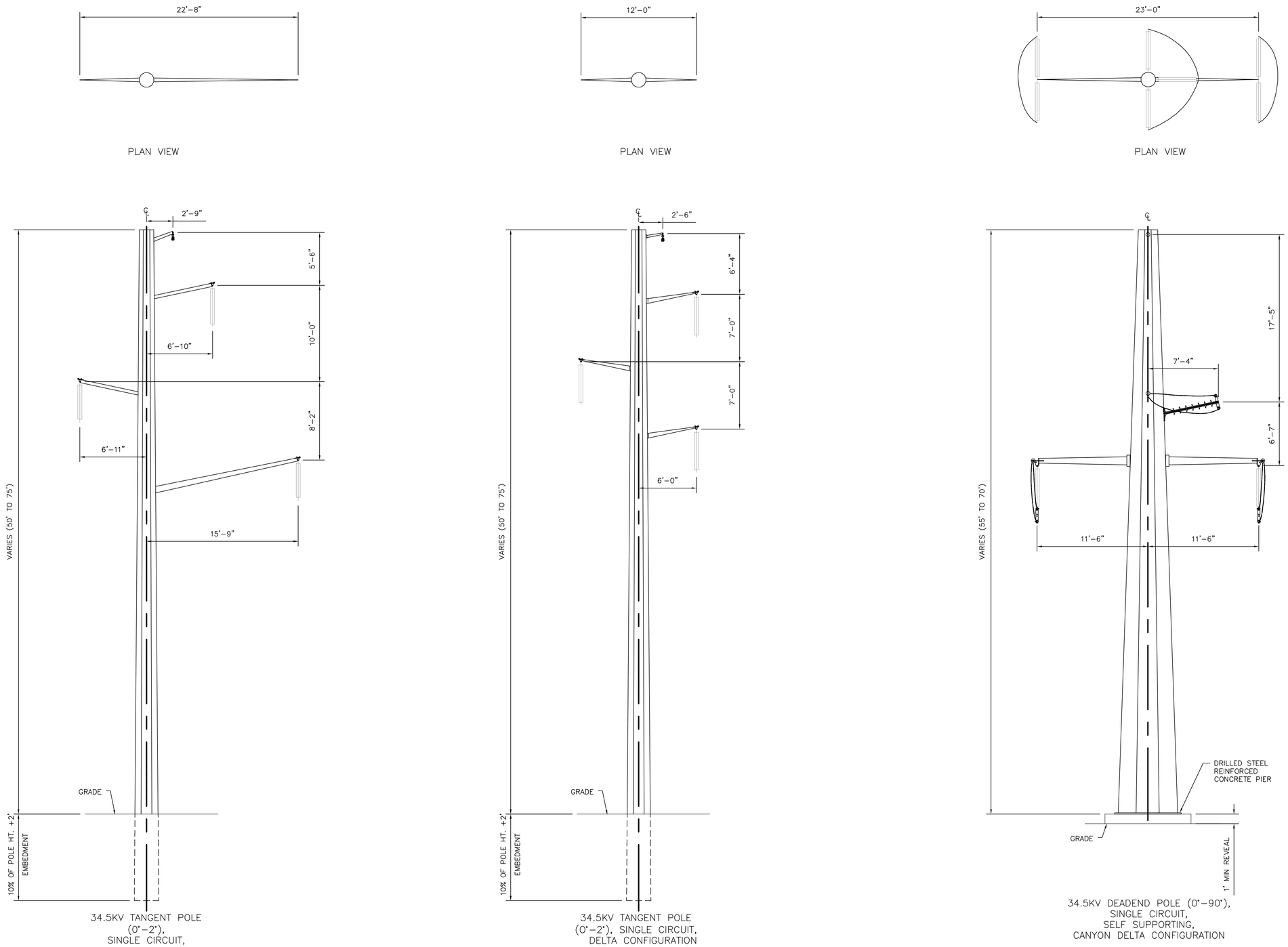
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

34.5/230KV
Substation Elevation
2 Transformer Layout

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 43 of 254



NOTES:

1. DIMENSIONS ARE PRELIMINARY AND WILL VARY DEPENDING GRADE AND LINE ANGLES. TYPICAL POLE HEIGHTS ARE DESIGNED FOR PROJECT CONDUTIONS.
2. POLE TYPE SHOWN IS STEEL; HOWEVER, FINAL DESIGN MAY UTILIZE WOOD AND/OR STEEL POLES DEPENDING ON GEOTECH AND LOADING COMBINATIONS.
3. FOUNDATIONS ARE TO BE TYPICAL AUGER DRILLED AND BACKFILLED WITH NATIVE MATERIAL., UNLESS NOTED OTHERWISE.

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SUITE 300
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Chokecherry and Sierra Madre Wind Energy Project

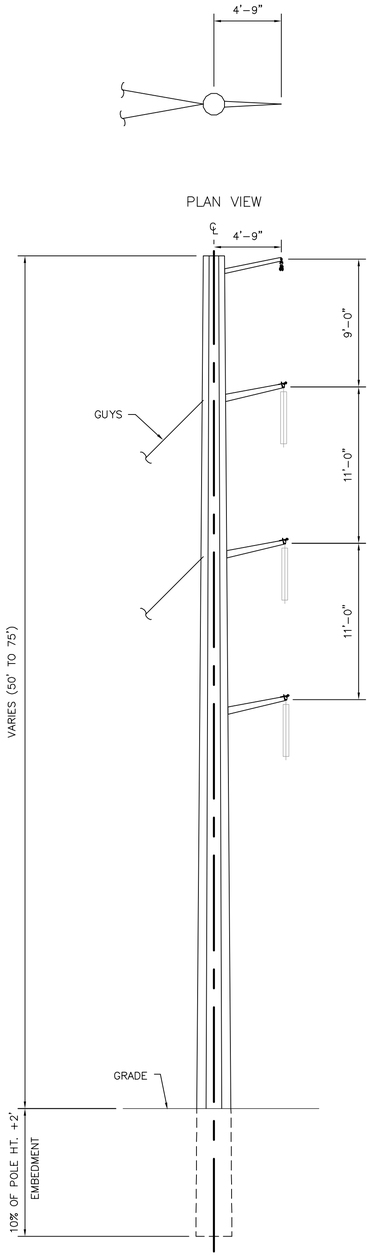
Carbon County, Wyoming

34.5KV Steel Single Circuit Pole Structures

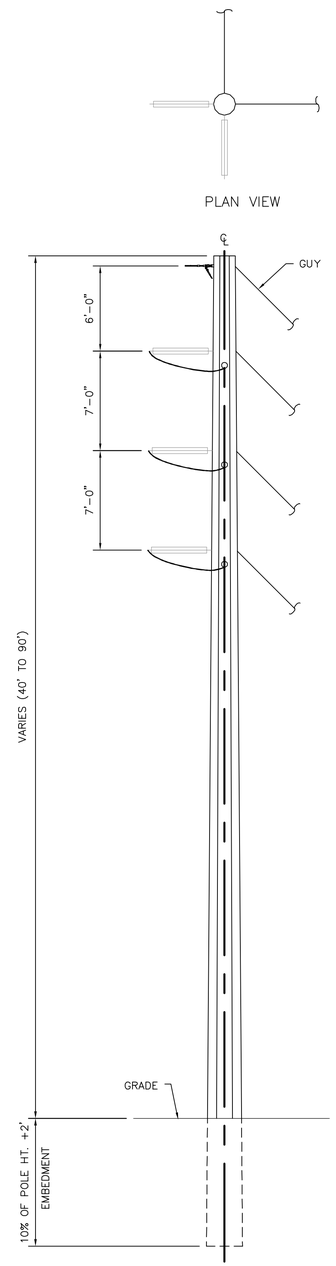
Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure

NOT FOR CONSTRUCTION

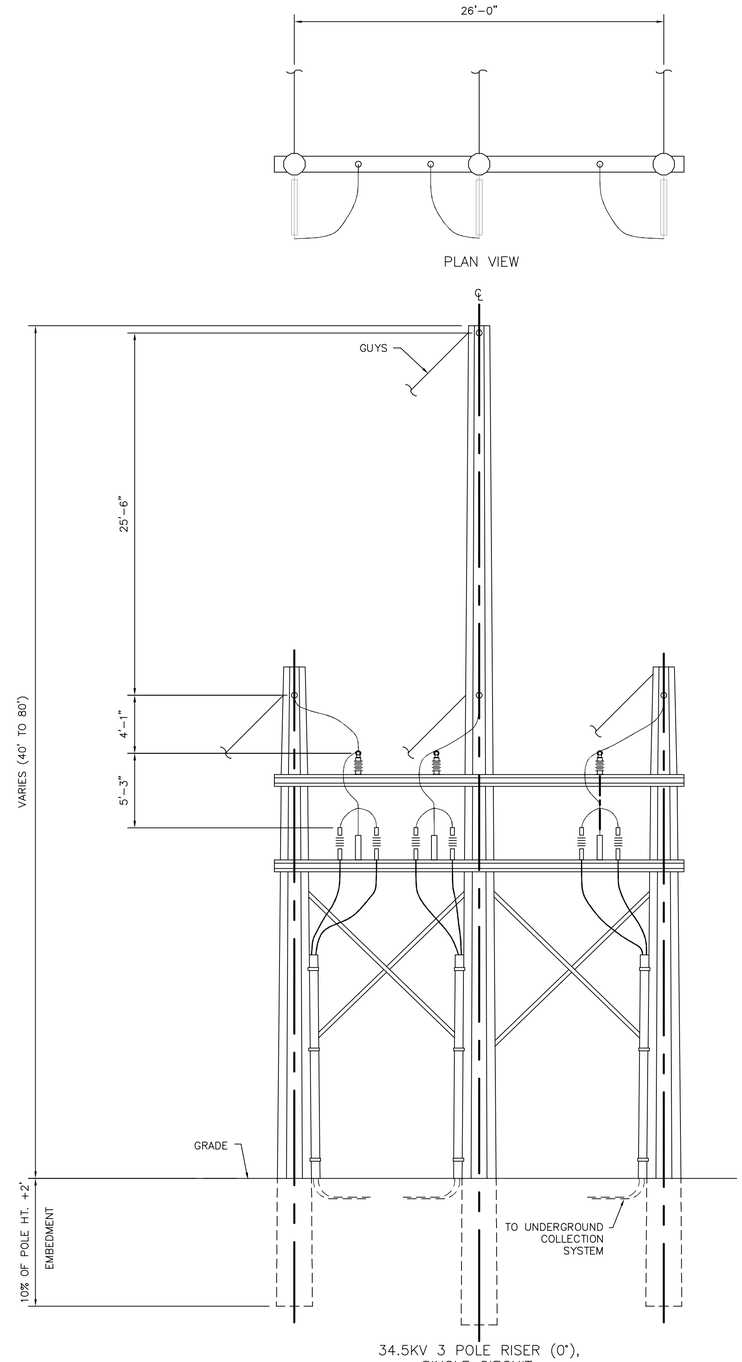
Date: 01/05/15



34.5KV RUNNING ANGLE POLE
(2°–25°),
SINGLE CIRCUIT,
GUYED VERTICAL CONFIGURATION



34.5KV DEADEND POLE
(>25°), SINGLE CIRCUIT,
GUYED VERTICAL
CONFIGURATION



34.5KV 3 POLE RISER (0°),
SINGLE CIRCUIT,
GUYED HORIZONTIAL
CONFIGURATION

NOTES:

1. DIMENSIONS ARE PRELIMINARY AND WILL VARY DEPENDING GRADE AND LINE ANGLES. TYPICAL POLE HEIGHTS ARE DESIGNED FOR PROJECT CONDUTIONS.
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Denver, CO 80202 USA

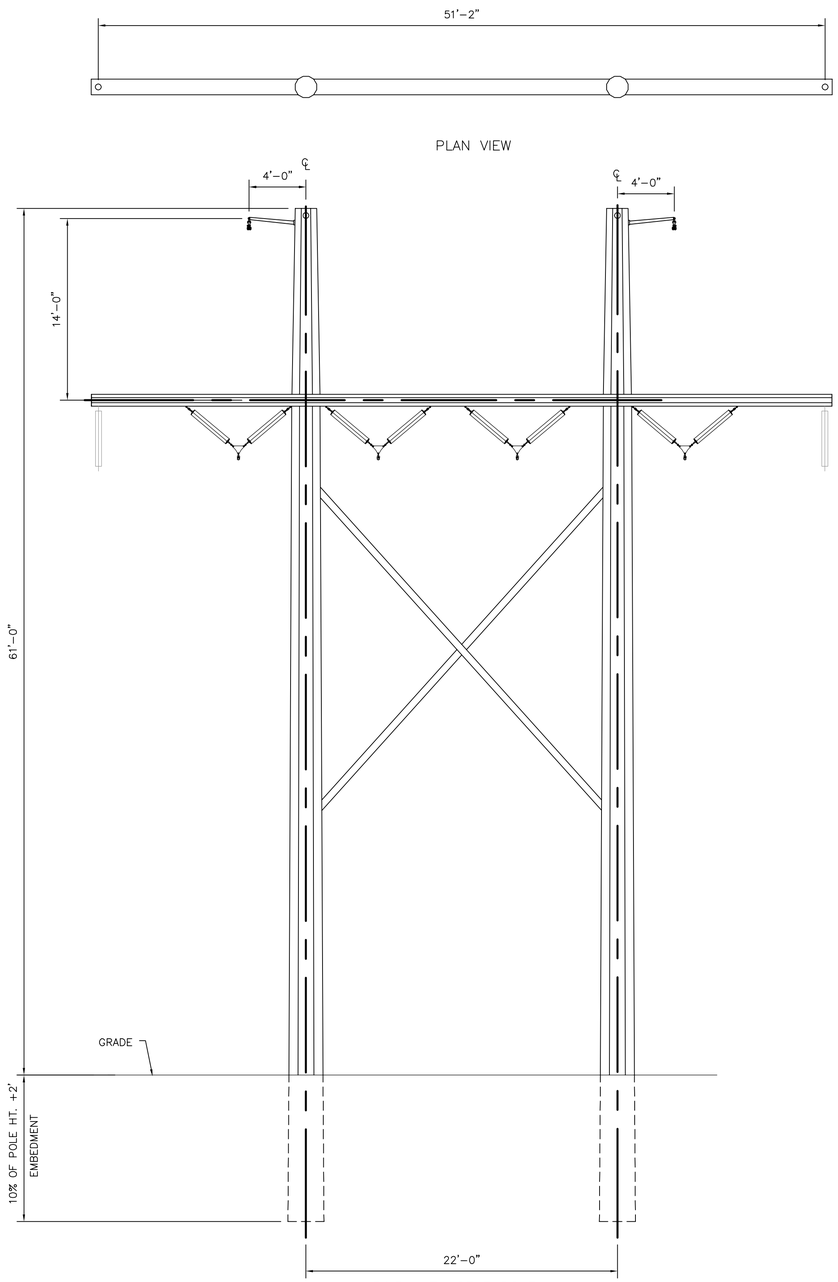
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

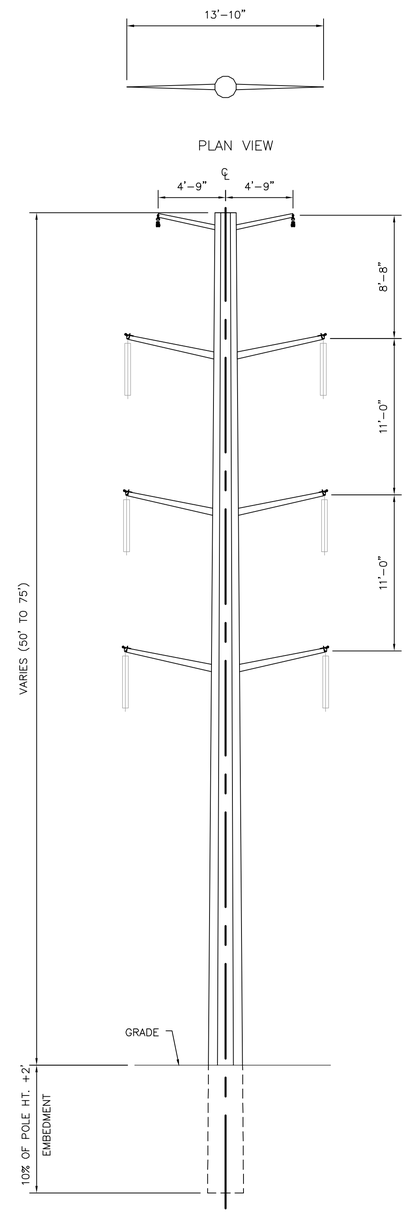
34.5KV Steel Single Circuit Pole Structures

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

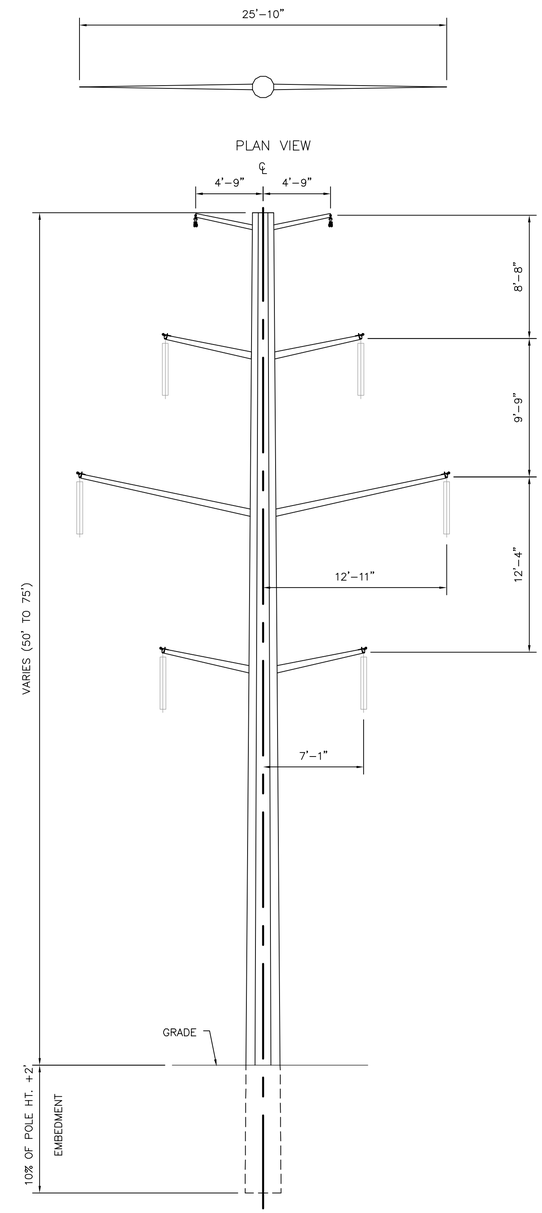
Date: 01/05/15
Sheet: 45 of 254



34.5KV TANGENT POLE
(0°-2°),
DOUBLE CIRCUIT,
HORIZONTAL CONFIGURATION



34.5KV TANGENT POLE
(0°-2°),
DOUBLE CIRCUIT,
VERTICAL CONFIGURATION



34.5KV TANGENT POLE
(0°-2°),
DOUBLE CIRCUIT,
VERTICAL CONFIGURATION

NOTES:

1. DIMENSIONS ARE PRELIMINARY AND WILL VARY DEPENDING GRADE AND LINE ANGLES. TYPICAL POLE HEIGHTS ARE DESIGNED FOR PROJECT CONDUTIONS.
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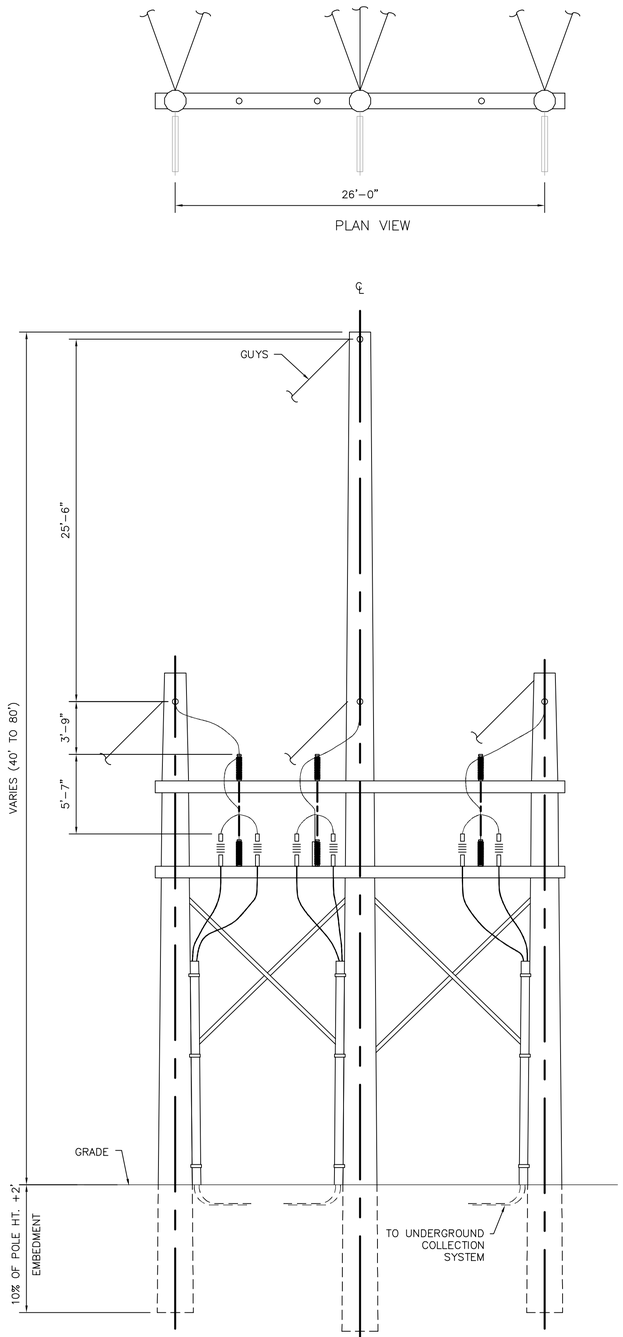
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

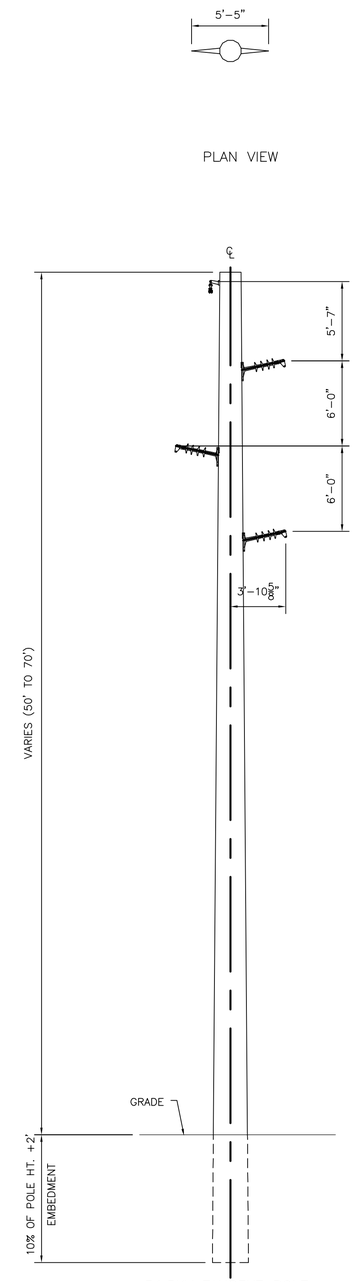
34.5KV Steel Double Circuit Pole Structures

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 46 of 254



34.5KV 3 POLE RISER (0°), SINGLE CIRCUIT, GUYED HORIZONTIAL CONFIGURATION



34.5KV TANGENT POLE (0°-2°), SINGLE CIRCUIT, DELTA CONFIGURATION

NOTES:

1. DIMENSIONS ARE PRELIMINARY AND WILL VARY DEPENDING GRADE AND LINE ANGLES. TYPICAL POLE HEIGHTS ARE DESIGNED FOR PROJECT CONDUTIONS.
2. POLE TYPE SHOWN IS STEEL; HOWEVER, FINAL DESIGN MAY UTILIZE WOOD AND/OR STEEL POLES DEPENDING ON GEOTECH AND LOADING COMBINATIONS.
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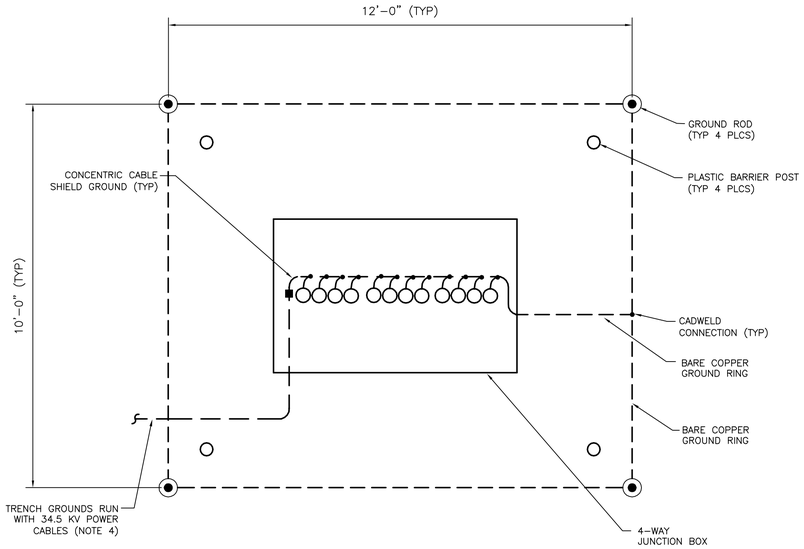
Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

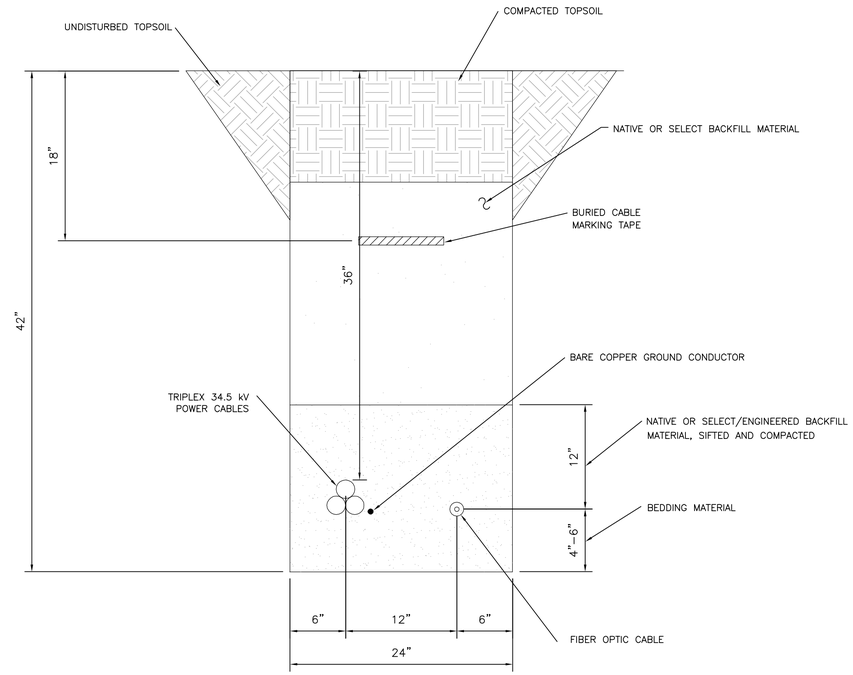
34.5KV Wood Single Circuit Pole Structures

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

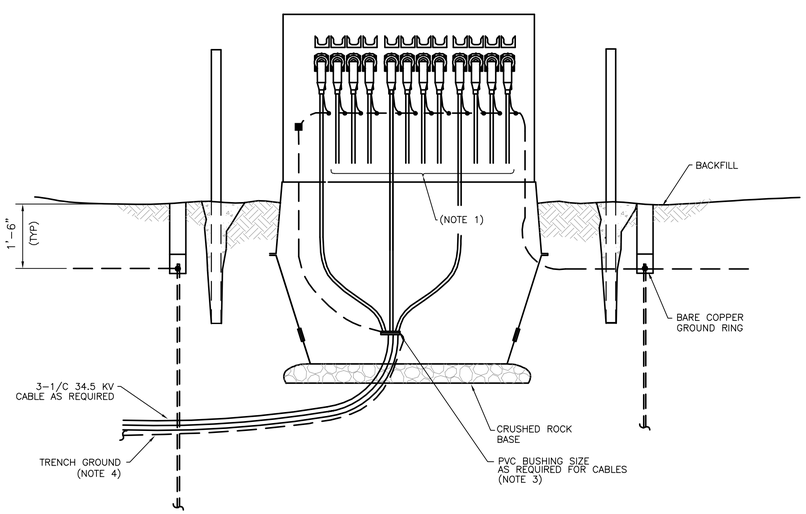
Date: 01/05/15
Sheet: 47 of 254



TYPICAL 4-WAY CABLE JUNCTION BOX PLAN VIEW



34.5 KV TYPICAL TRENCH SECTION



TYPICAL 4-WAY CABLE JUNCTION BOX PROFILE VIEW

NOTES:

1. THIS DRAWING SHOWS A TYPICAL TRENCH CROSS SECTION AND JUNCTION BOX DETAIL FOR UNDERGROUND COLLECTION SYSTEM SEGMENTS.
2. TYPICAL DIMENSIONS ARE SHOWN FOR SITE SPECIFIC PLAN OF DEVELOPMEN DOCUMENTATION.
3. ONLY ONE SET OF 34.5 KV CABLES IS SHOWN FOR CLARITY. ADDITIONAL CABLES ARE SIMILAR. DIRECTION OF EXIT FROM BOX WILL VARY.
4. ONLY ONE (1) TRENCH GROUND WIRE IS SHOWN FOR CLARITY.

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6300 S SYRACUSE WY
SUITE 300
CENTENNIAL CO, 80111

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Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

34.5KV Underground Details

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

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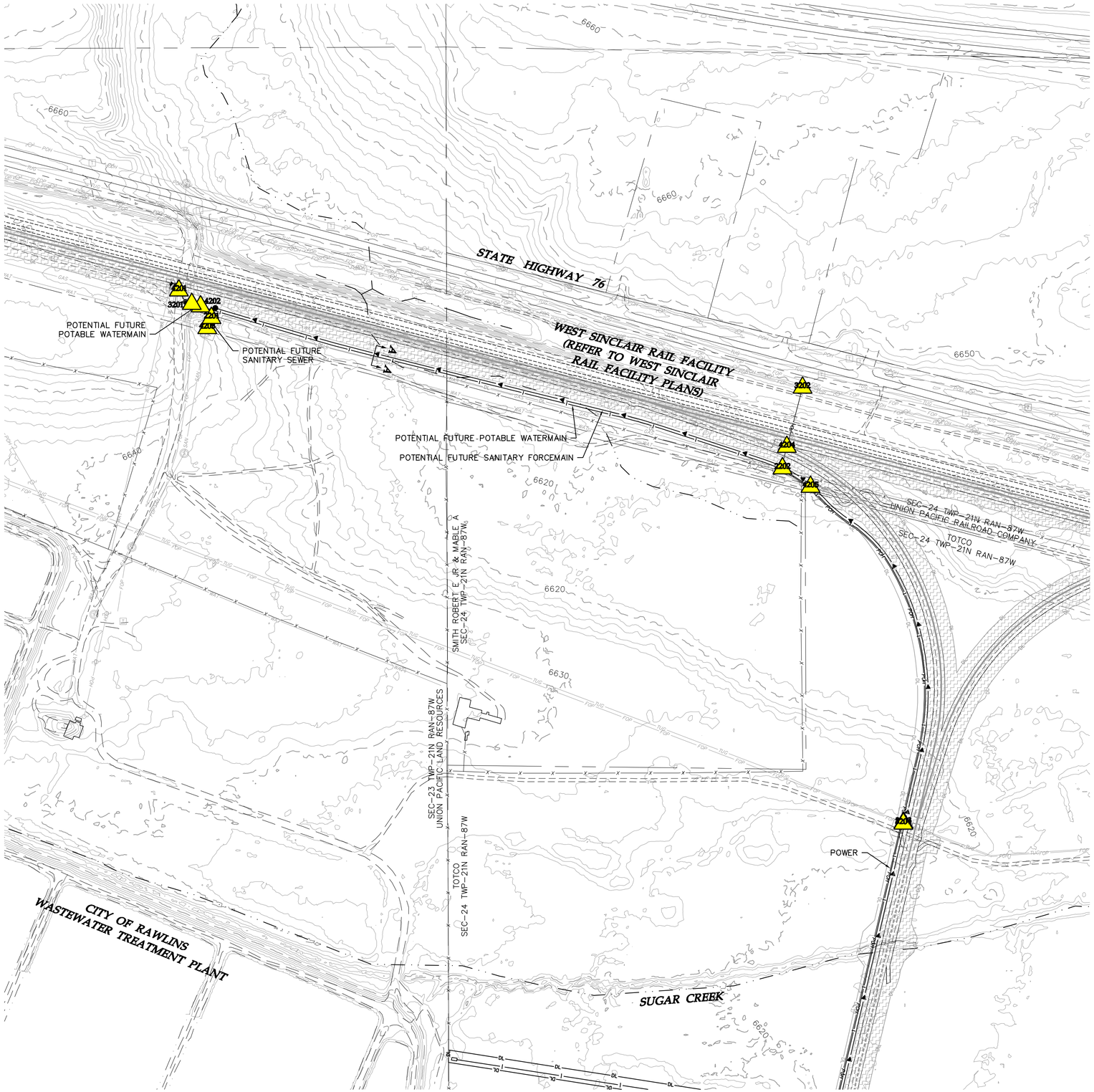
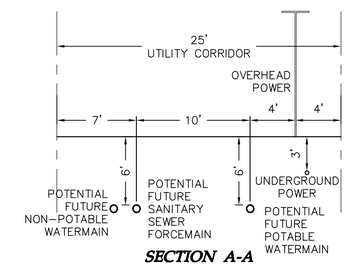


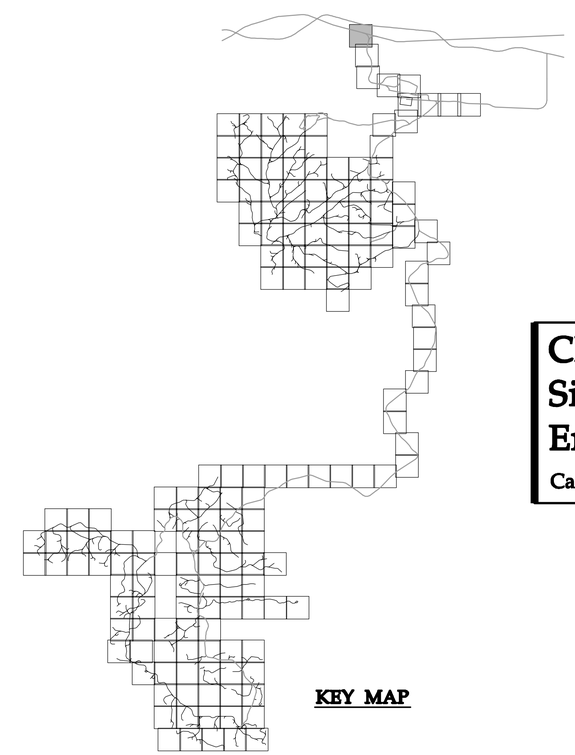
LEGEND:

- PROPOSED ARTERIAL ROAD AND CRANE PATH
- PROPOSED ARTERIAL ROAD
- PROPOSED TURBINE ROAD AND CRANE PATH
- PROPOSED FACILITY ROAD
- PROPOSED CRANE PATH
- PROPOSED 6% OR GREATER ROAD GRADE
- DL — PROPOSED DISTURBANCE LIMITS
- AL — PROPOSED ACTIVITY LIMITS
- P-PUG — PROPOSED UNDERGROUND COLLECTION
- P-POH — PROPOSED OVERHEAD COLLECTION
- P-POH — PROPOSED 230 kV TRANSMISSION
- PROPOSED POTABLE WATERMAIN
- PROPOSED NON-POTABLE WATERMAIN
- PROPOSED SANITARY SEWER/FORCEMAIN
- POH — PROPOSED OVERHEAD POWER
- ROADWAY AS PART OF PREVIOUS PLANS ISSUED FOR PERMIT
- PROPOSED 10' CONTOURS
- PROPOSED 2' CONTOURS
- XXXX — UTILITY CROSSING (SEE TABLE)
- XXXX — FENCE CROSSING (SEE TABLE)
- FACILITY AS PART OF PREVIOUS PLANS
- PROPOSED FACILITY
- TURBINE LOCATION
- XXX-X-XX — TURBINE NUMBER
- EX. DIRT ROAD/TRAIL
- X — EX. FENCE
- EX. CULVERT
- TUG — EX. TELEPHONE LINE
- POH — EX. OVERHEAD POWER
- FOP — EX. FIBER OPTIC LINE
- WAT — EX. WATER LINE
- GAS — EX. GAS PIPELINE
- 7480 — EX. 10' CONTOURS
- EX. 2' CONTOURS
- EX. TREE LINE
- EX. WATERWAY (GIS)

NOTE:
THE DESIGNATION (TYP) INDICATES THAT THE LABELED ITEM IS TYPICAL OF OTHER ITEMS OF THE SAME TYPE ON THE SITE PLAN SHEET WHICH ARE REPRESENTED IN THE SAME MANNER WITH A SYMBOL, HATCHING OR LINETYPE.



SECTION A-A



KEY MAP

Westwood
Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344
PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 1-888-937-5150
www.westwoodps.com

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0' 200' 400' 600'

Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

Site Plan

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15

20111120-05SP-P02.dwg

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LEGEND:

- PROPOSED ARTERIAL ROAD AND CRANE PATH
- PROPOSED ARTERIAL ROAD
- PROPOSED TURBINE ROAD AND CRANE PATH
- PROPOSED FACILITY ROAD
- PROPOSED CRANE PATH
- PROPOSED 6% OR GREATER ROAD GRADE
- DL — PROPOSED DISTURBANCE LIMITS
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- P-POH — PROPOSED 230 kV TRANSMISSION
- PROPOSED POTABLE WATERMAIN
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- PROPOSED SANITARY SEWER/FORCEMAIN
- POH — PROPOSED OVERHEAD POWER
- ROADWAY AS PART OF PREVIOUS PLANS ISSUED FOR PERMIT
- PROPOSED 10' CONTOURS
- PROPOSED 2' CONTOURS
- XXXX — UTILITY CROSSING (SEE TABLE)
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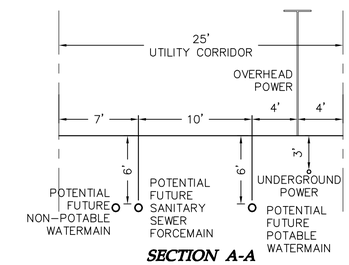

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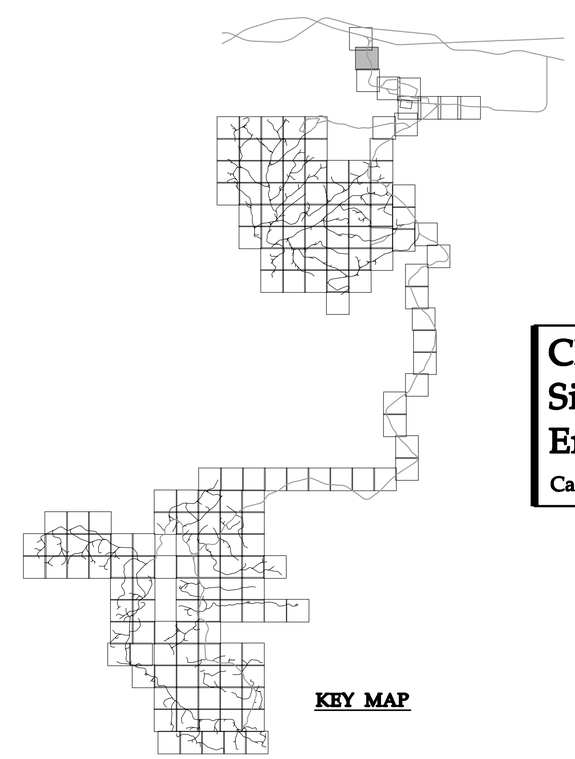

KEY MAP

Westwood

Westwood Professional Services, Inc.
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PHONE 952-937-5150
FAX 952-937-5822
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www.westwoodps.com

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Prepared for:

Power Company of Wyoming LLC
555 Seventeenth Street, Suite 2400
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0' 200' 400' 600'

Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

Site Plan

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

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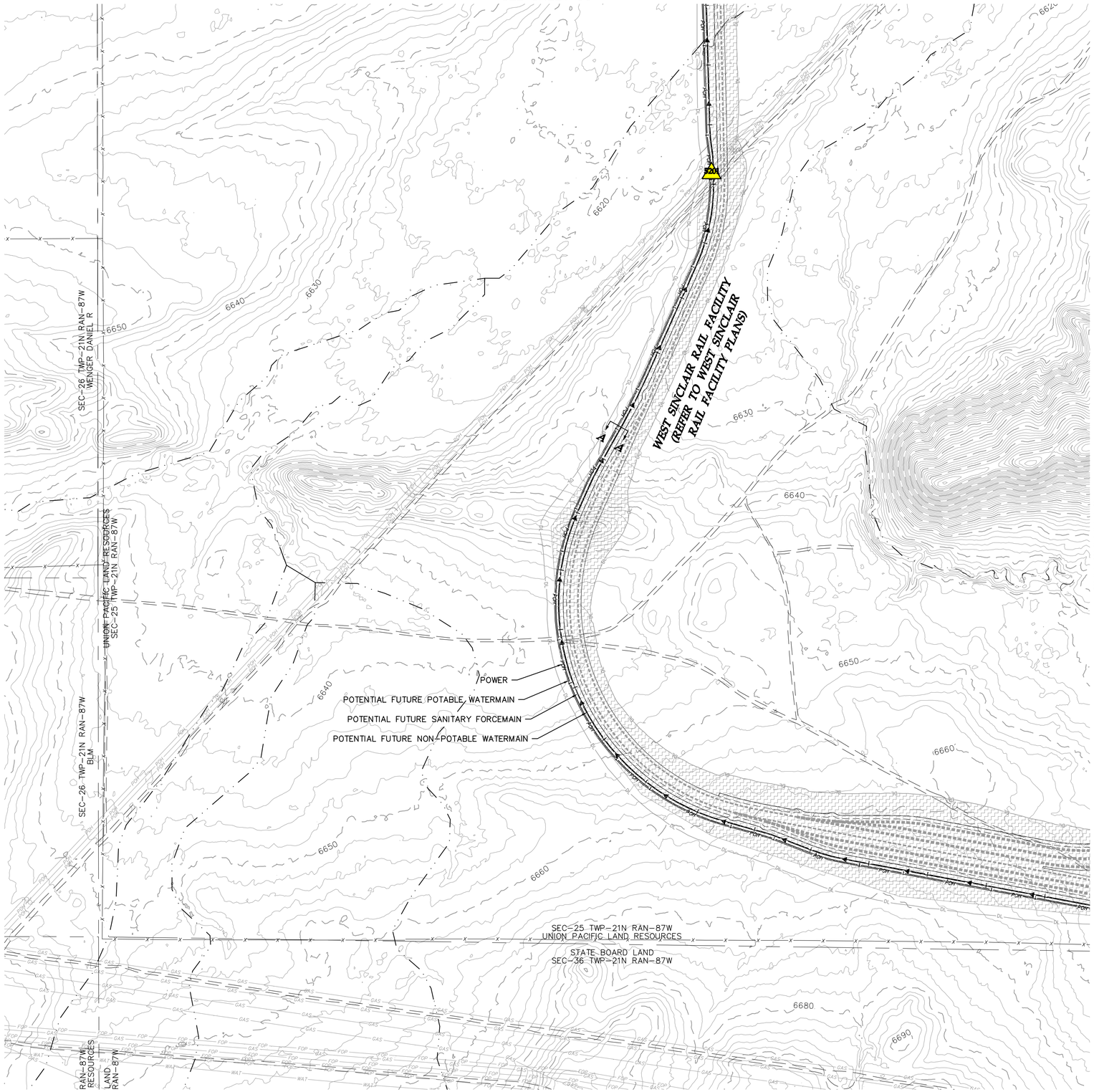

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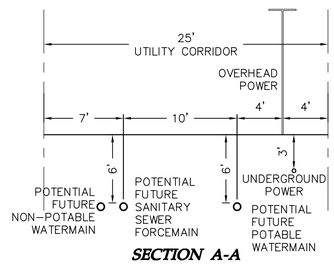

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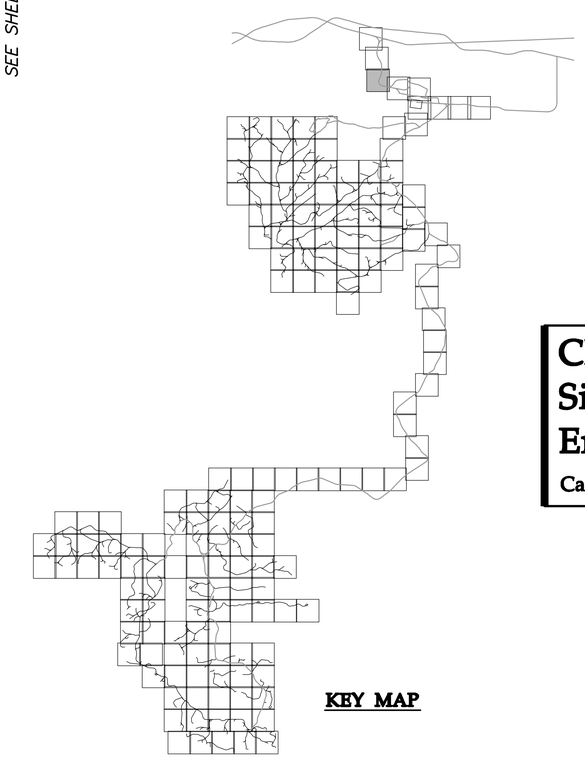

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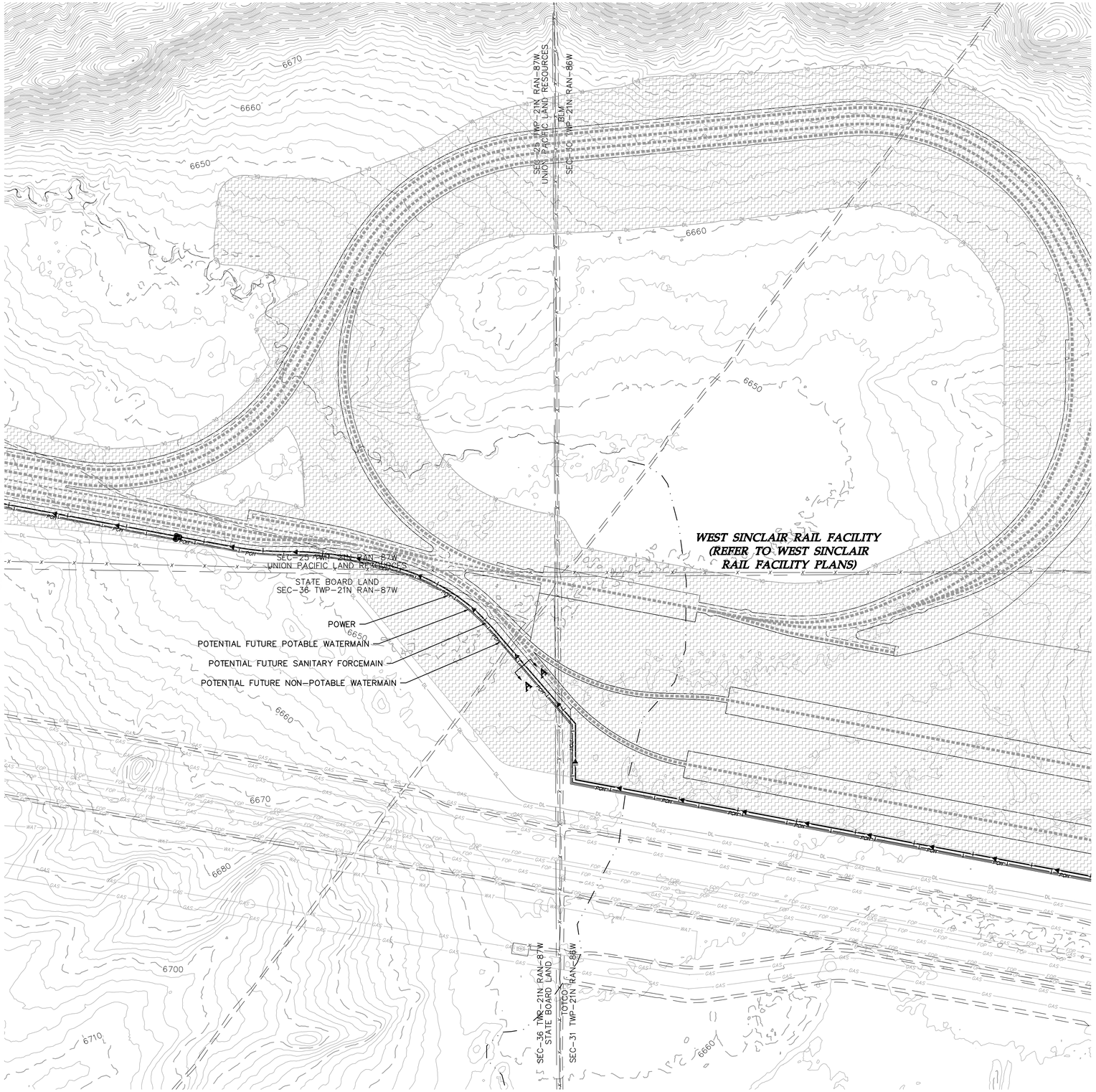

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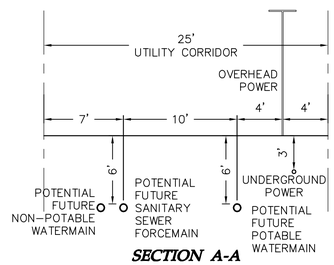

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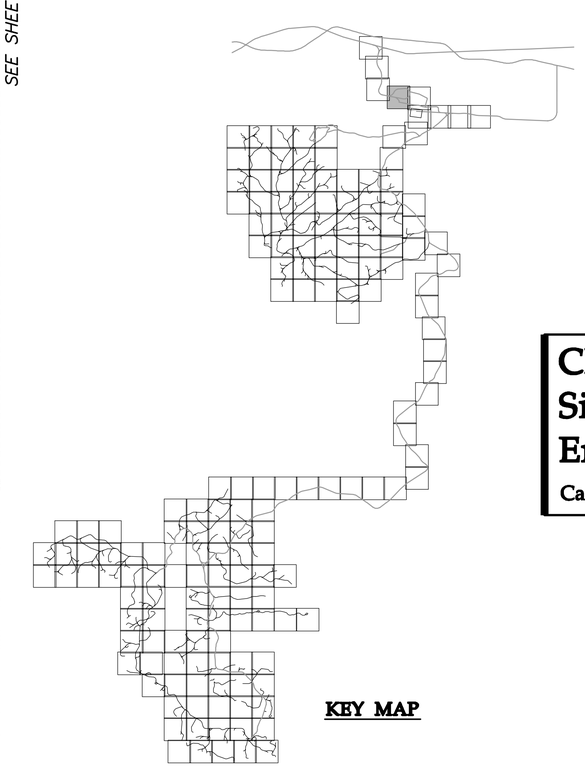

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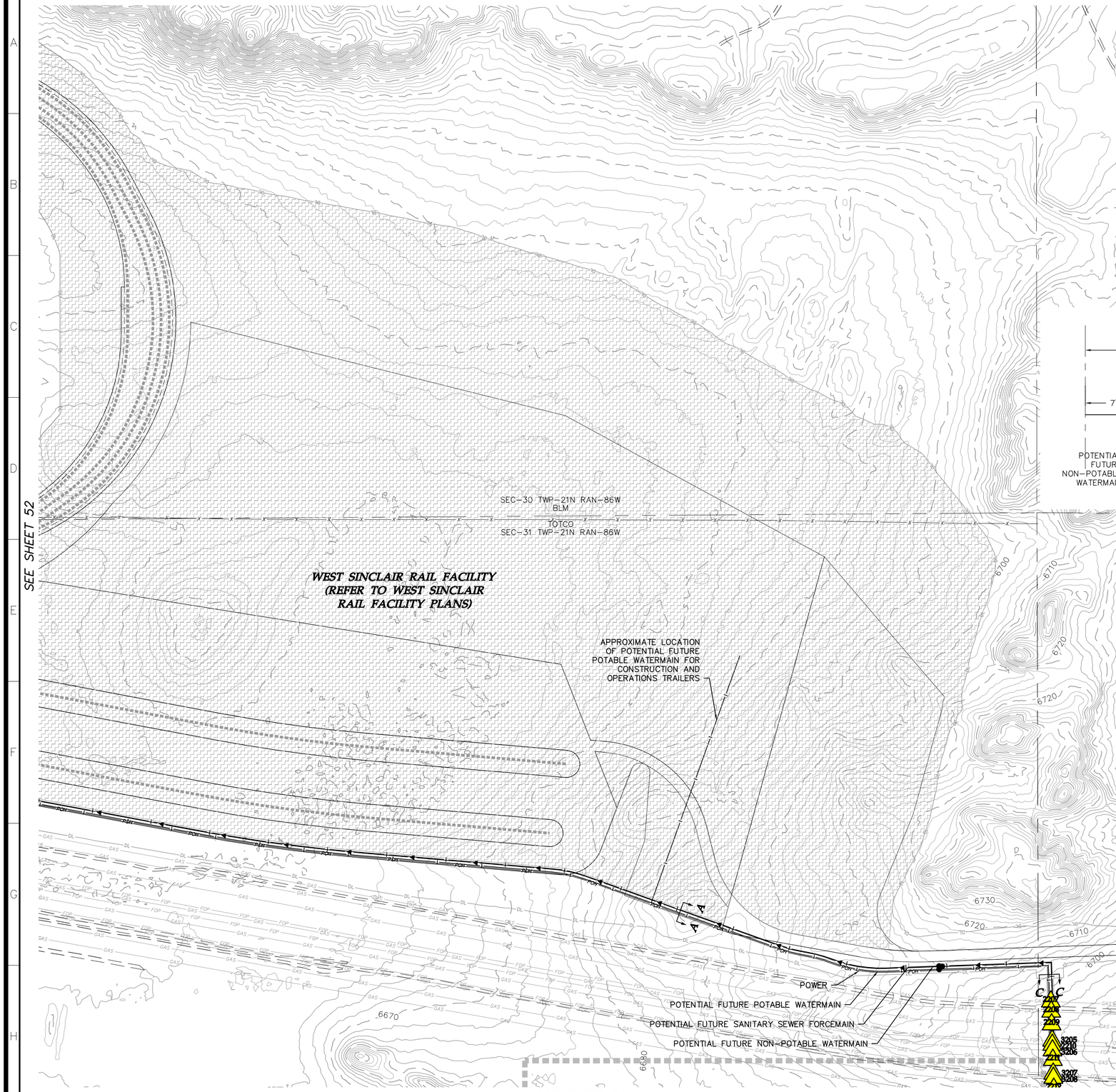

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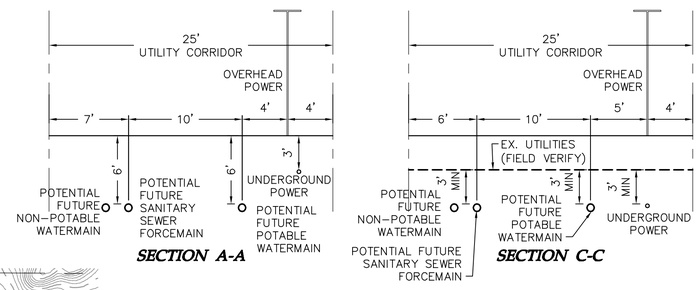

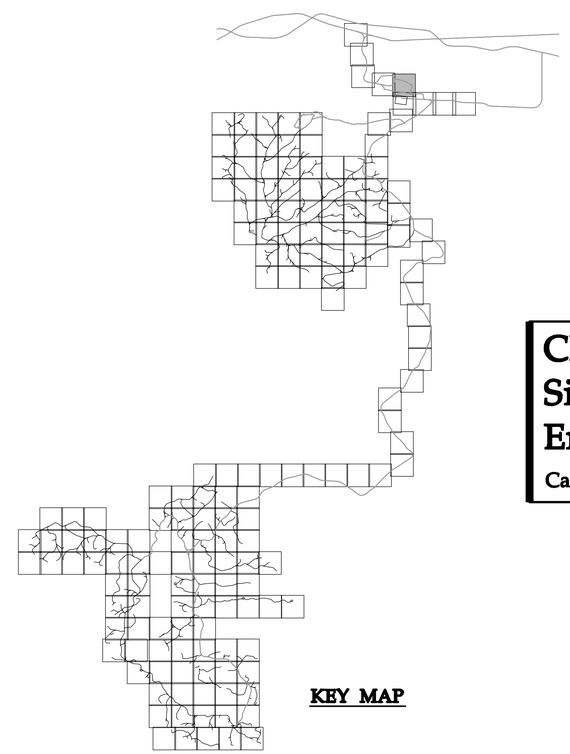

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Sheet: 53 OF 254

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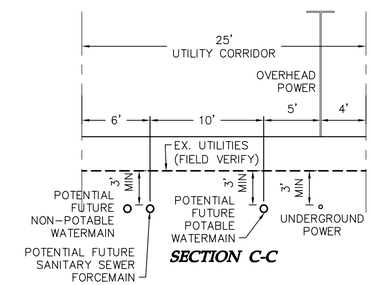

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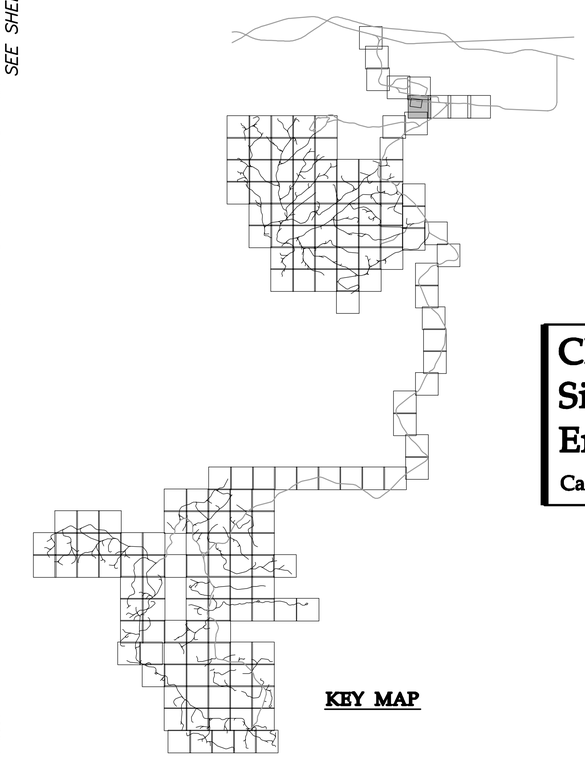

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Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

Site Plan

Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

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Sheet: 54 OF 254

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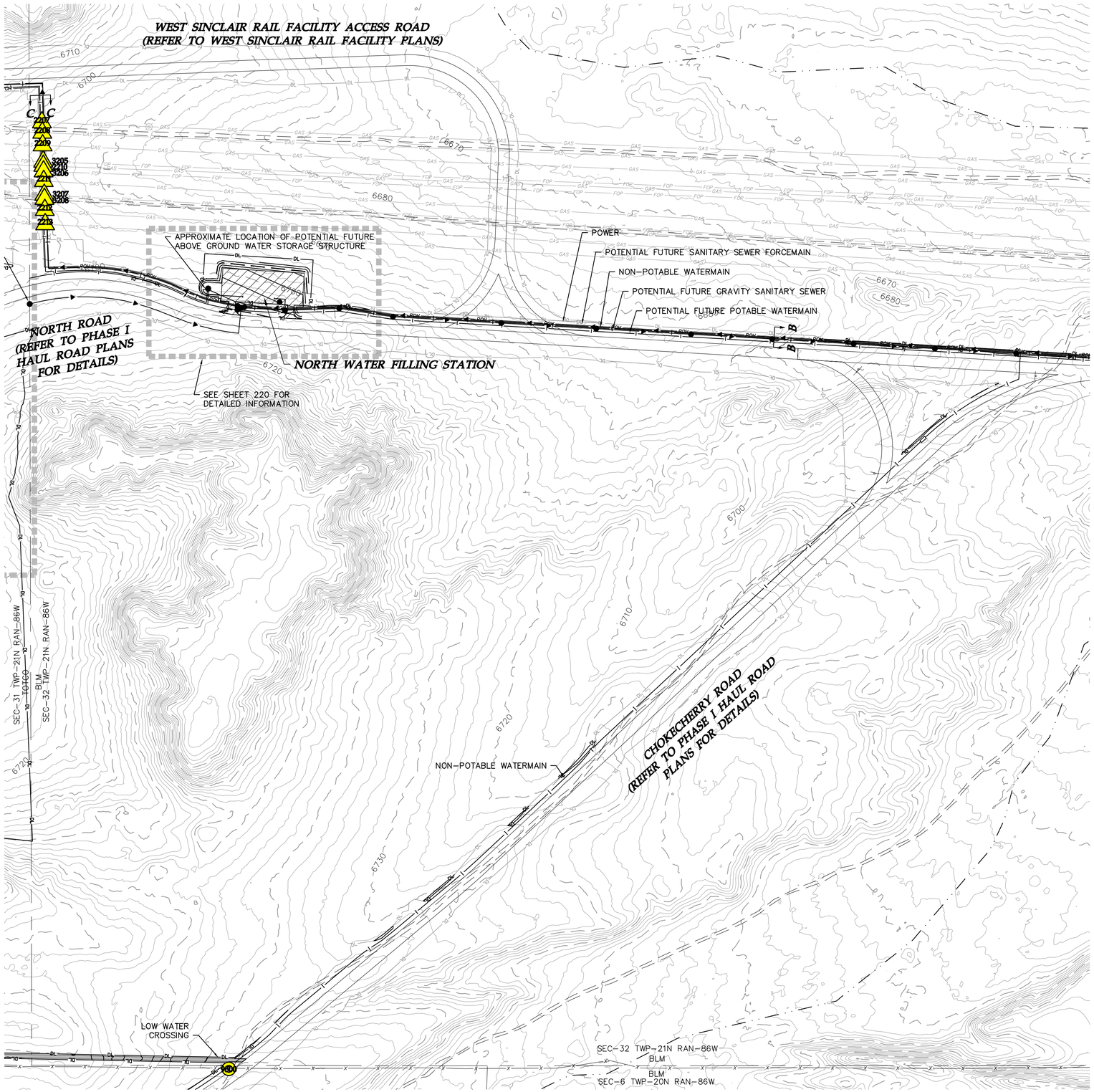

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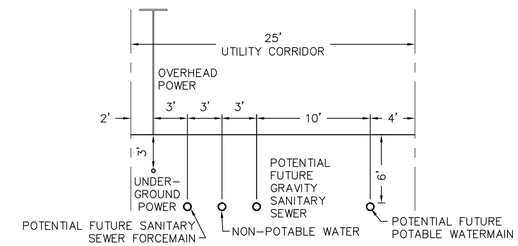

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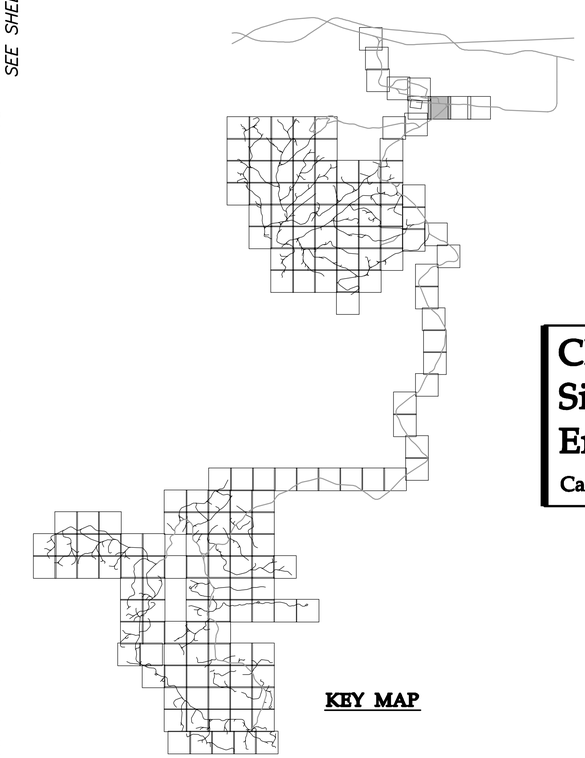

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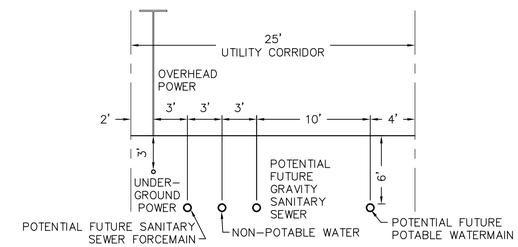

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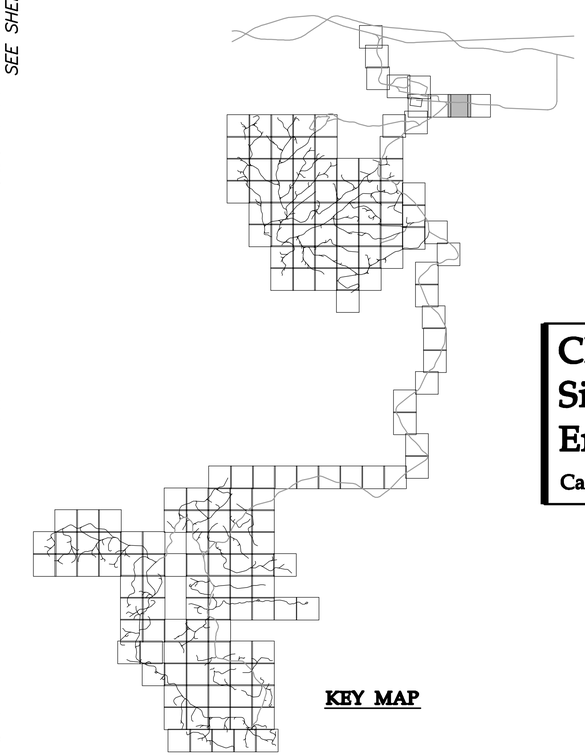

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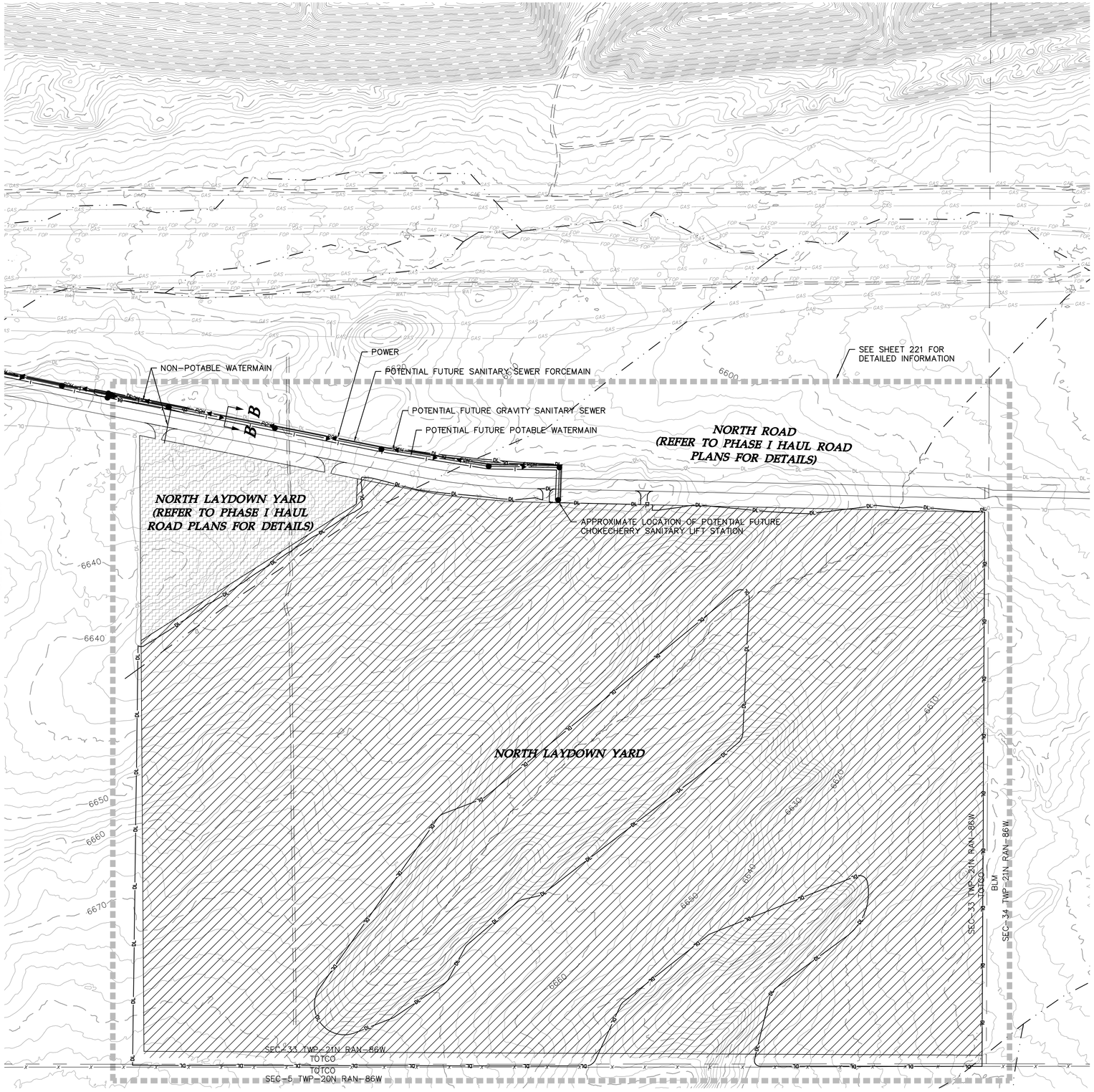

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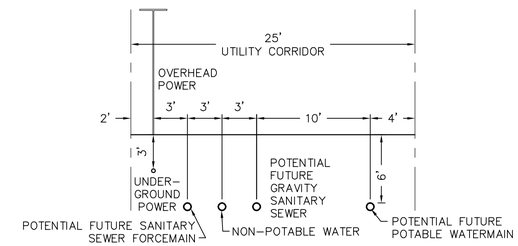

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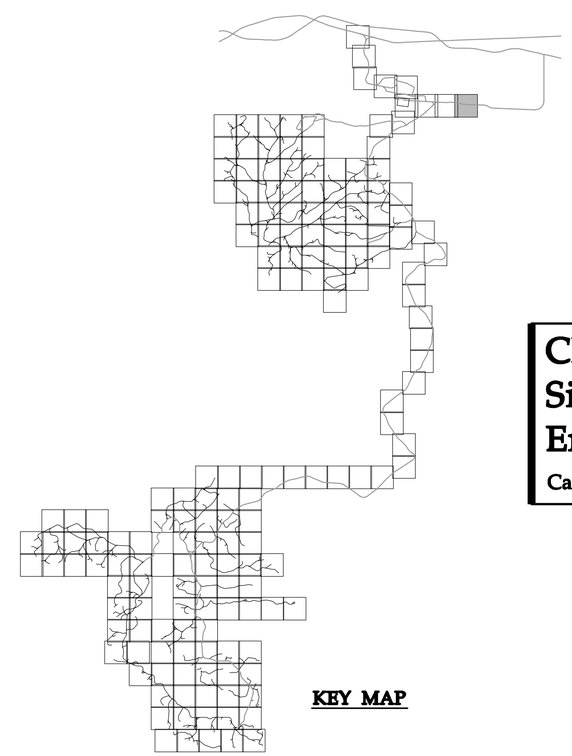

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Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
NOT FOR CONSTRUCTION

Date: 01/05/15
Sheet: 57 OF 254

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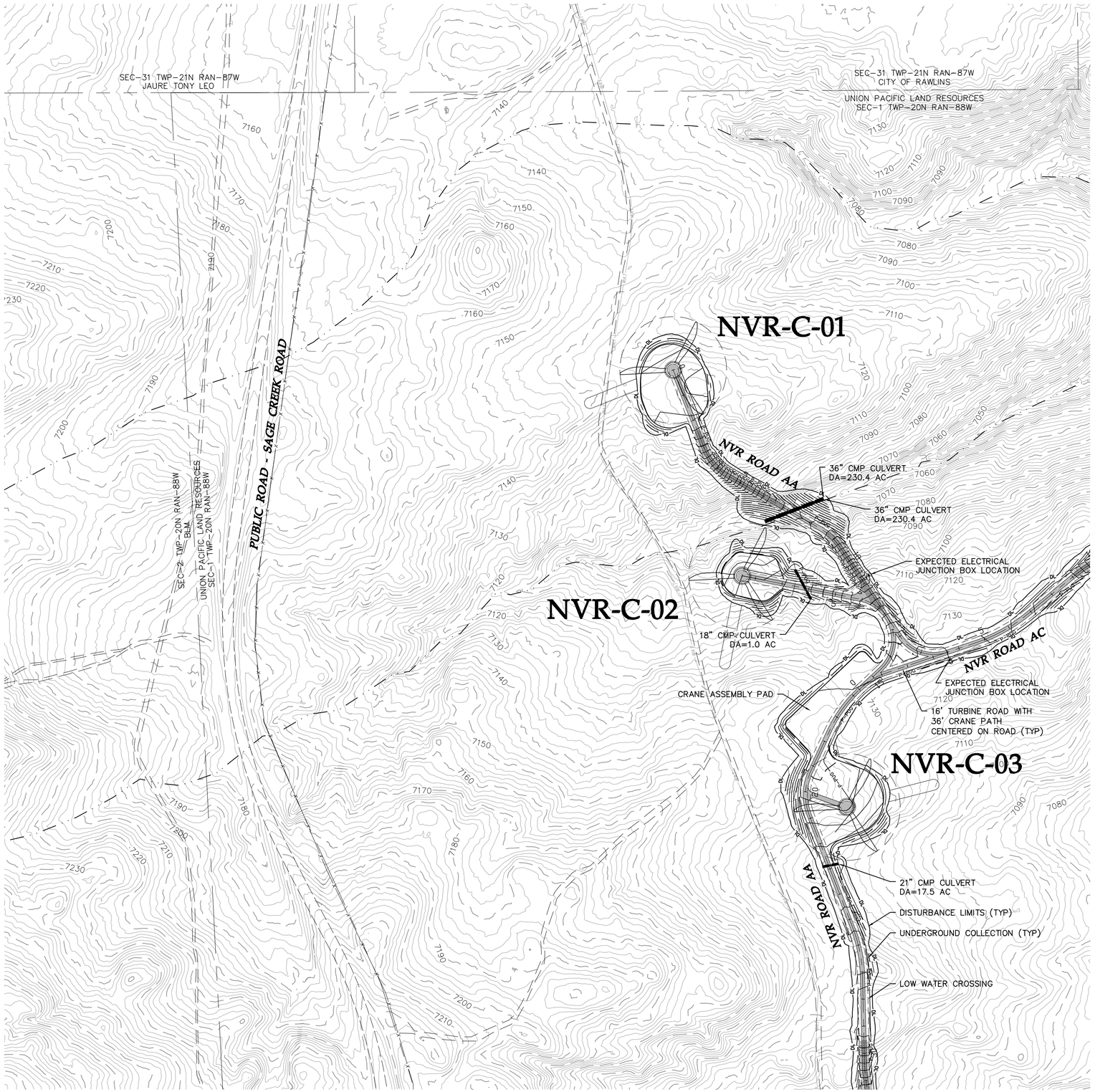

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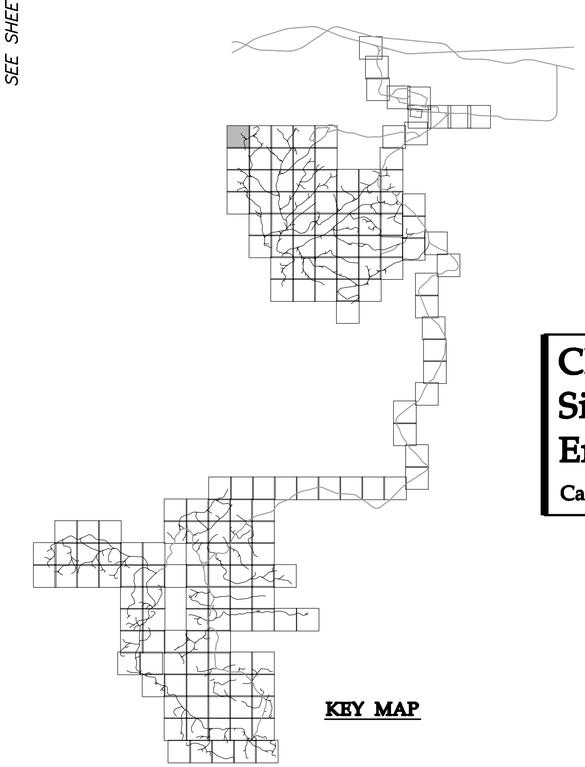

KEY MAP

Westwood

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7699 Anagram Drive
Eden Prairie, MN 55344

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FAX 952-937-5822
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www.westwoodps.com

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Revisions:

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Prepared for:

Power Company of Wyoming LLC
555 Seventeenth Street, Suite 2400
Denver, CO 80202 USA

0' 200' 400' 600'

Chokecherry and Sierra Madre Wind Energy Project

Carbon County, Wyoming

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Phase I Wind Development Area Wind Turbine Sites & Related Infrastructure
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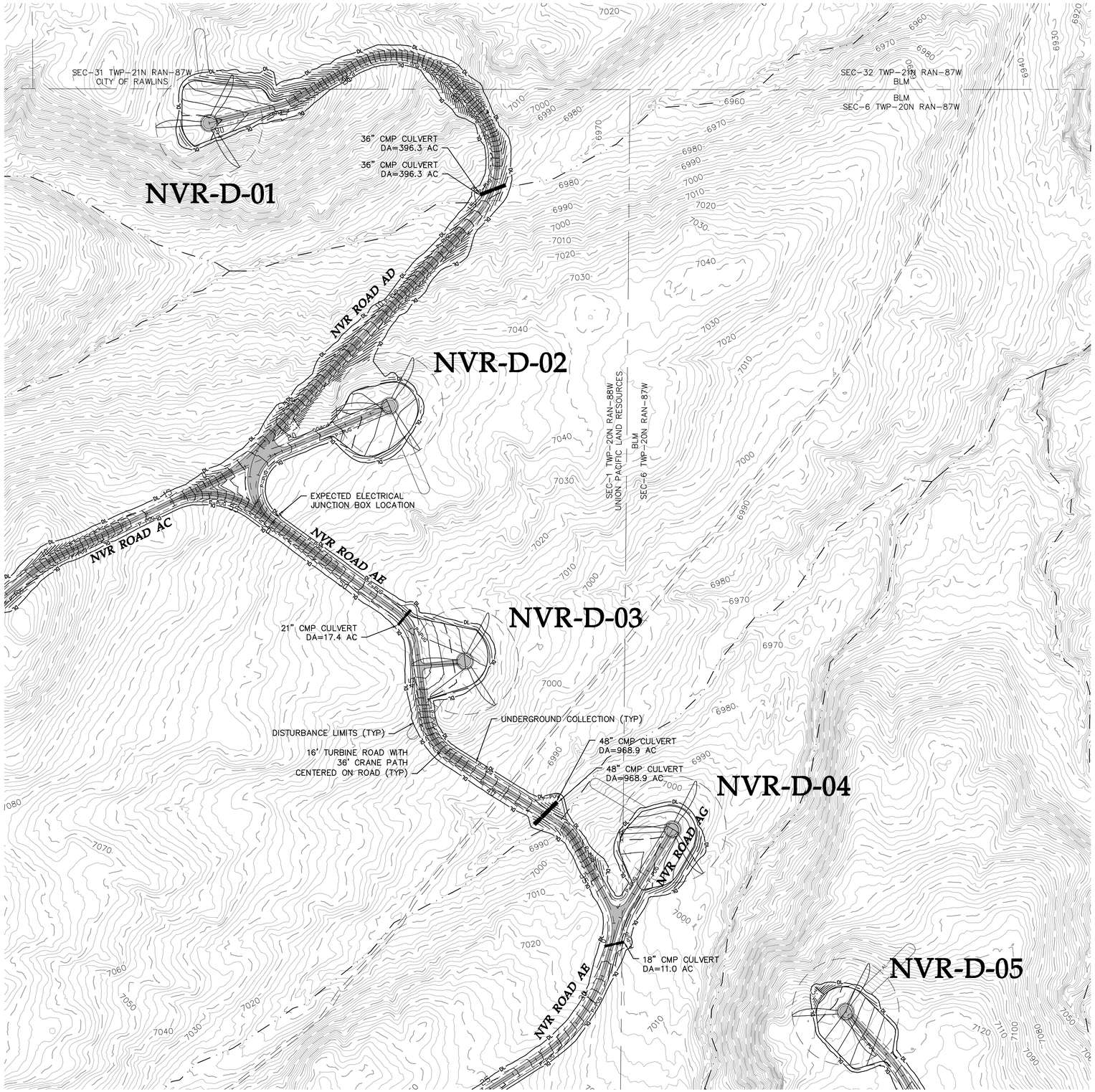

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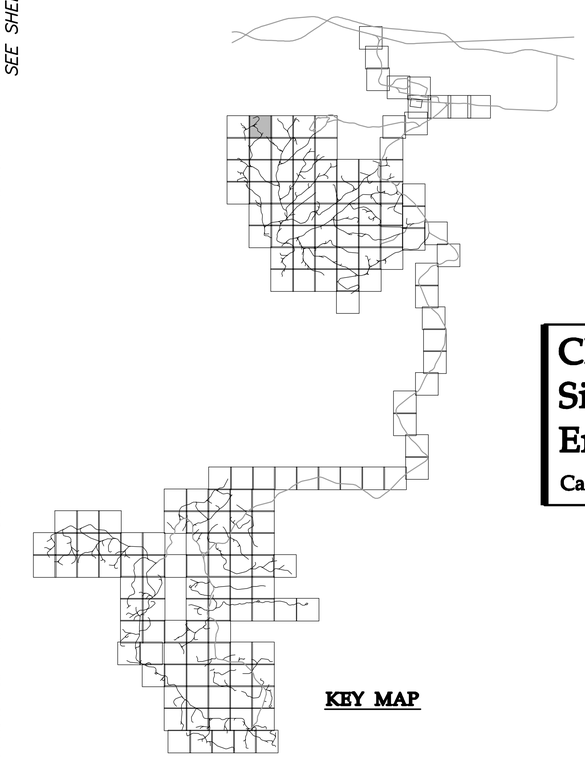

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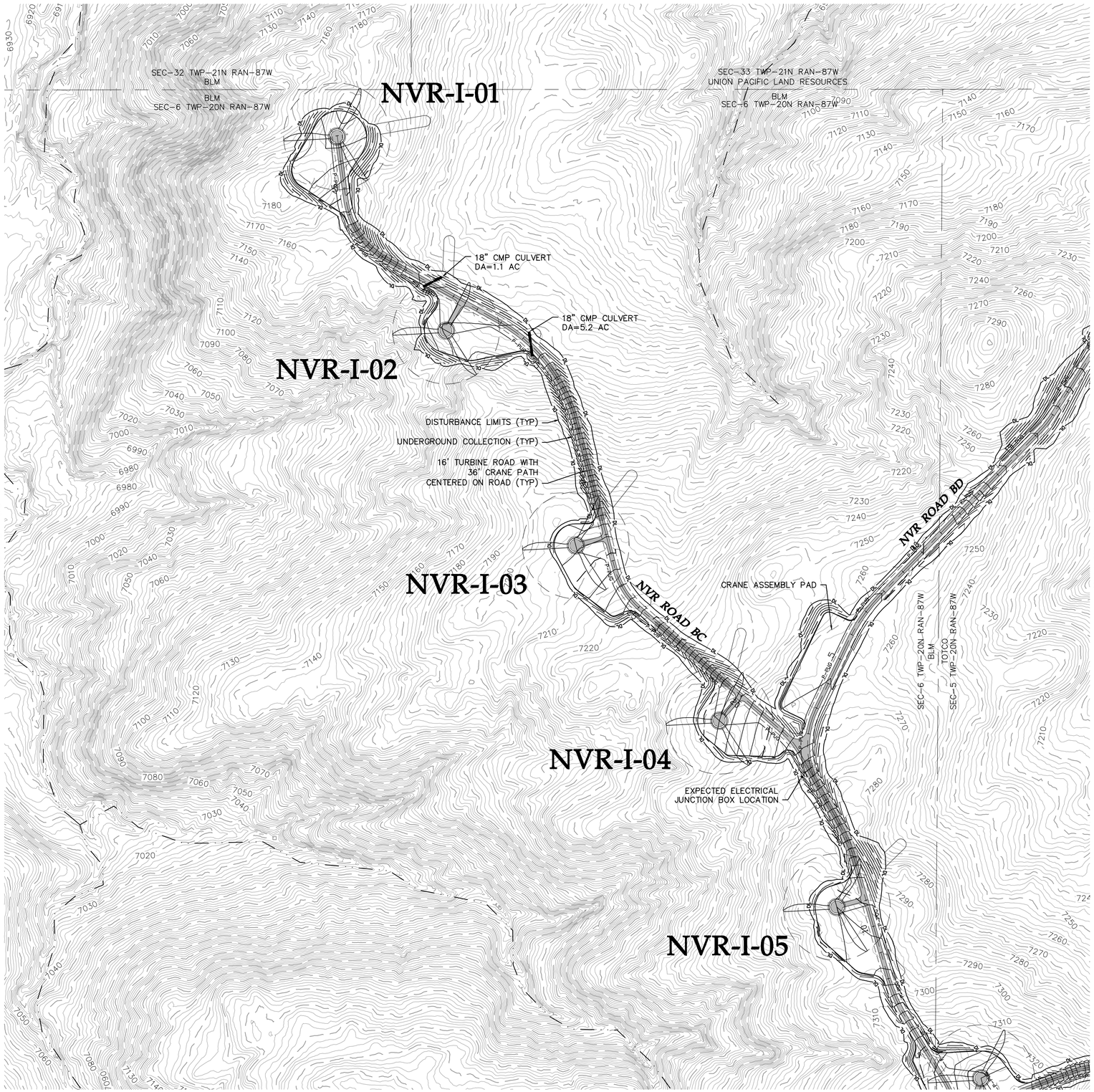

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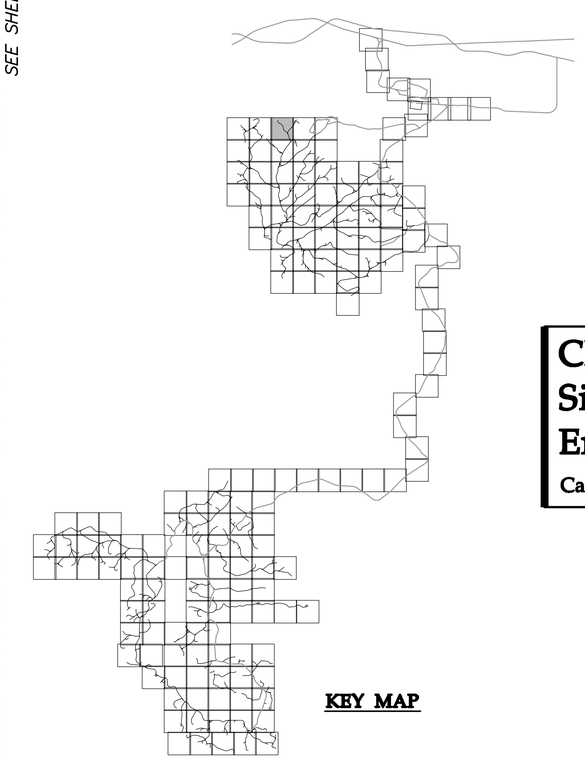

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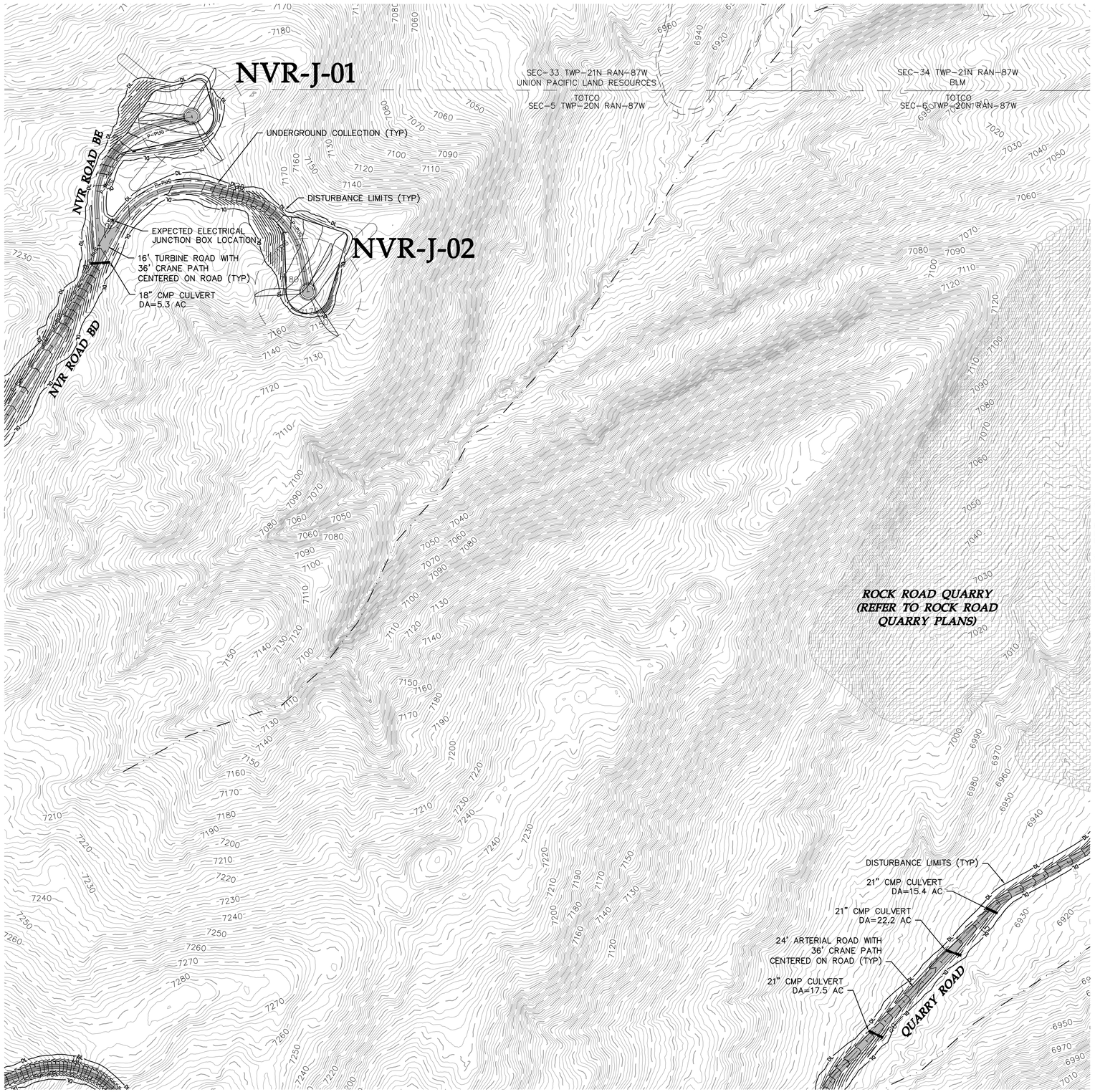

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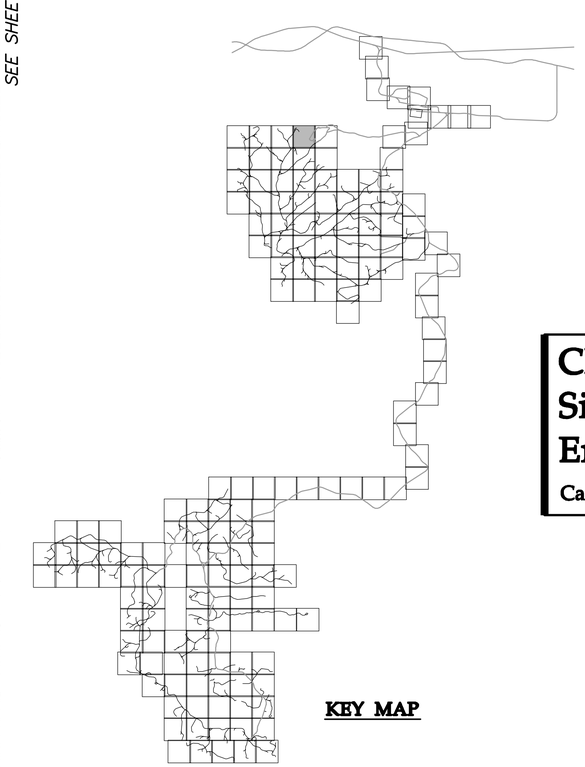

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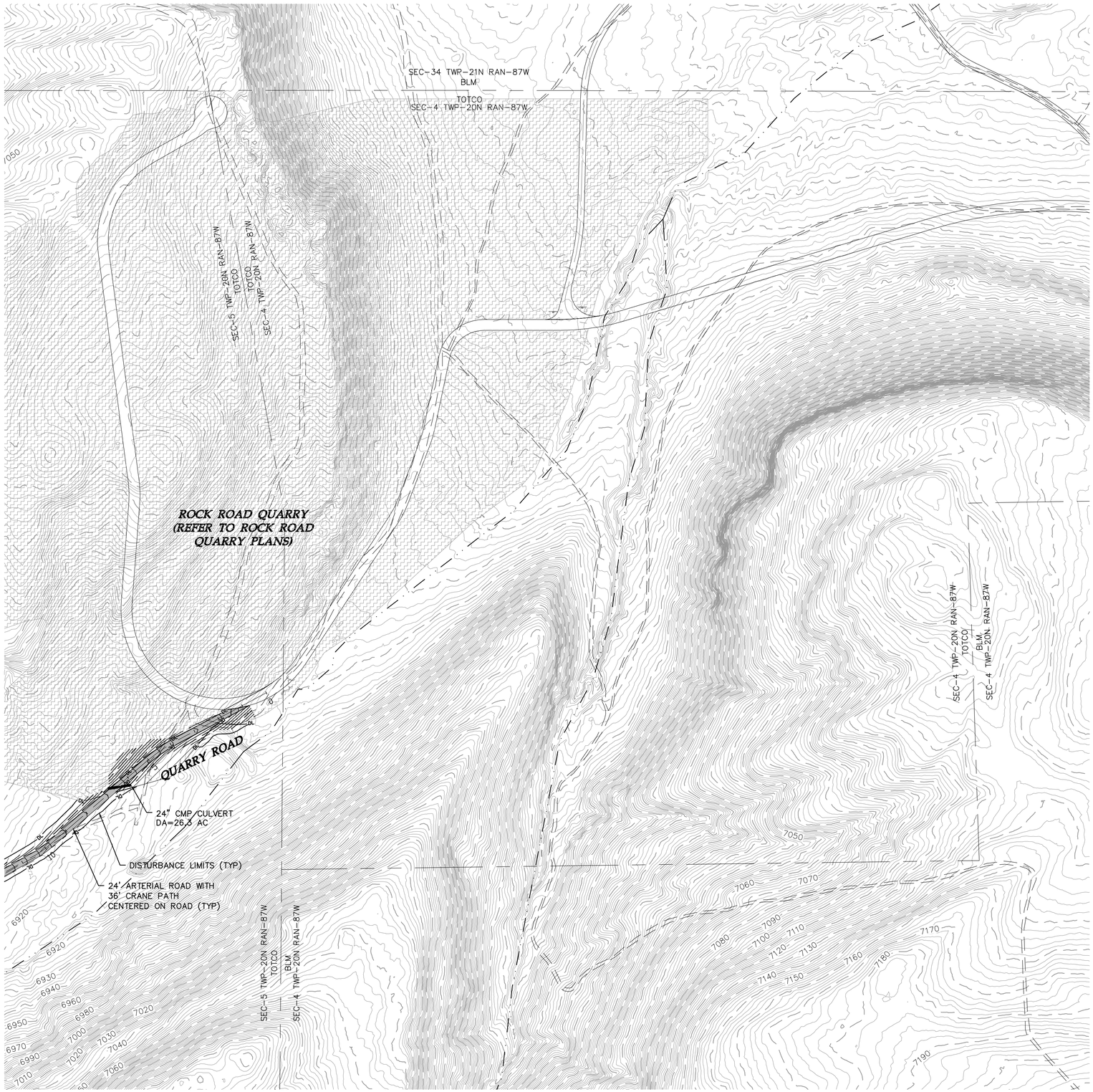

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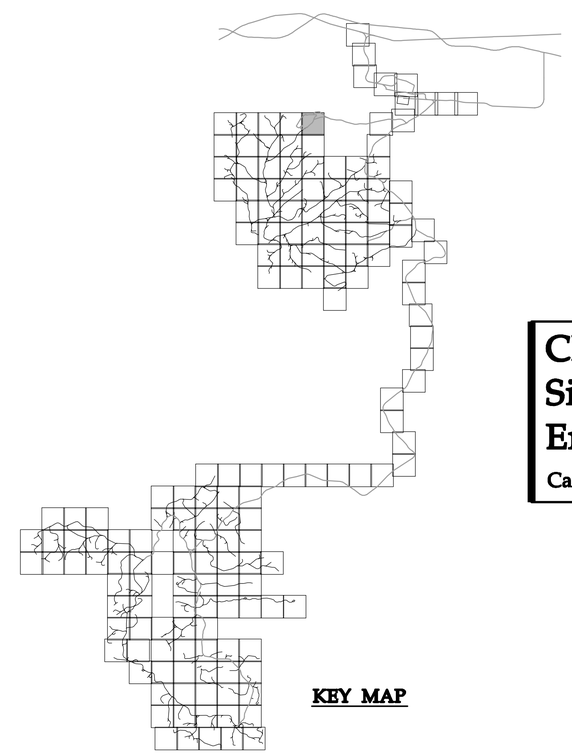

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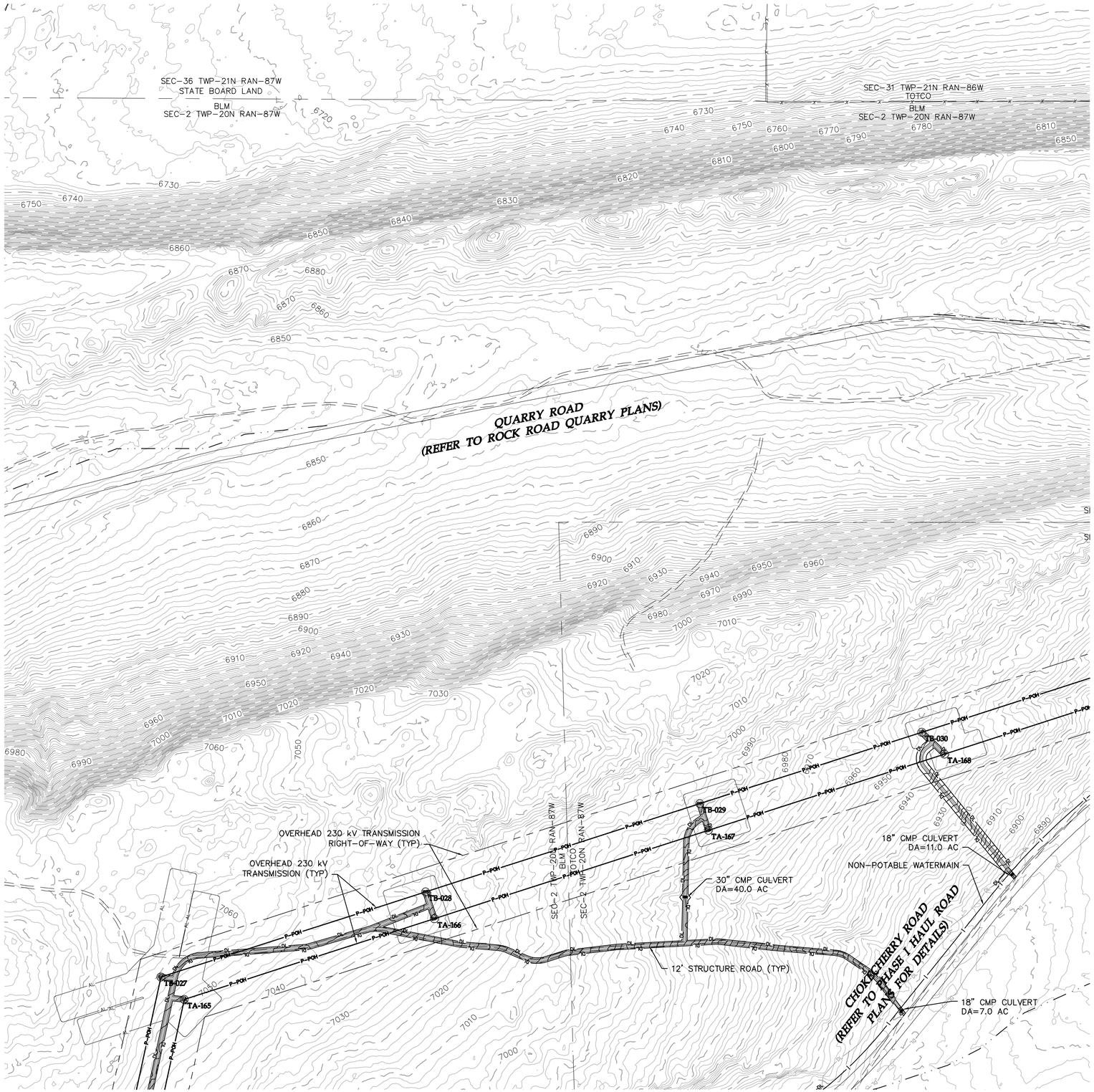

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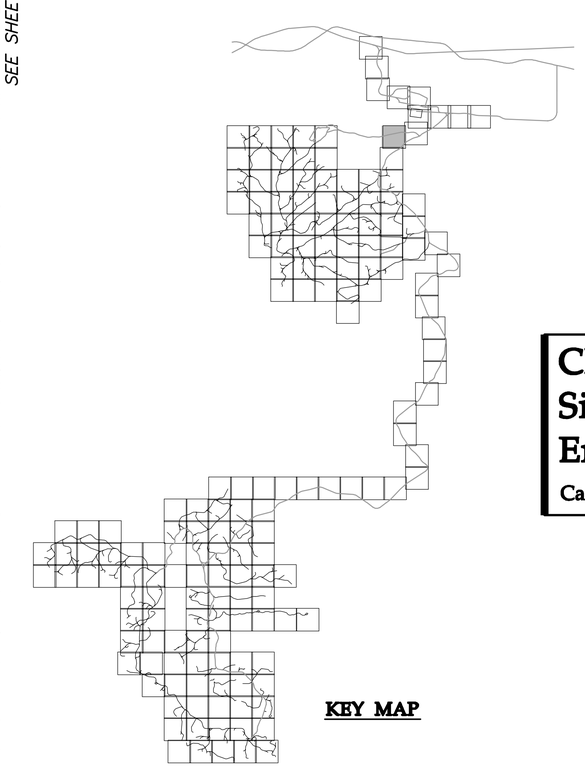

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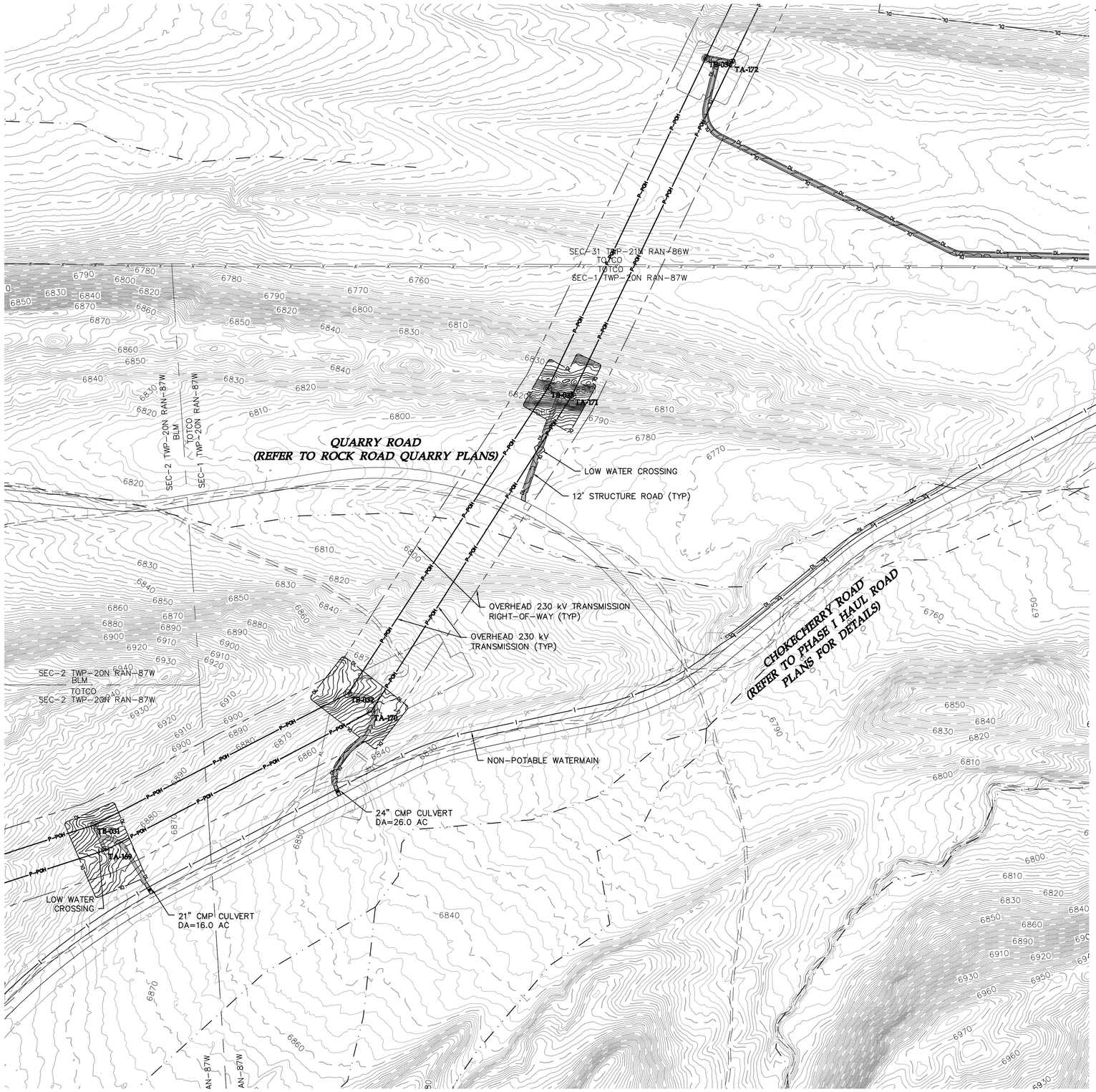

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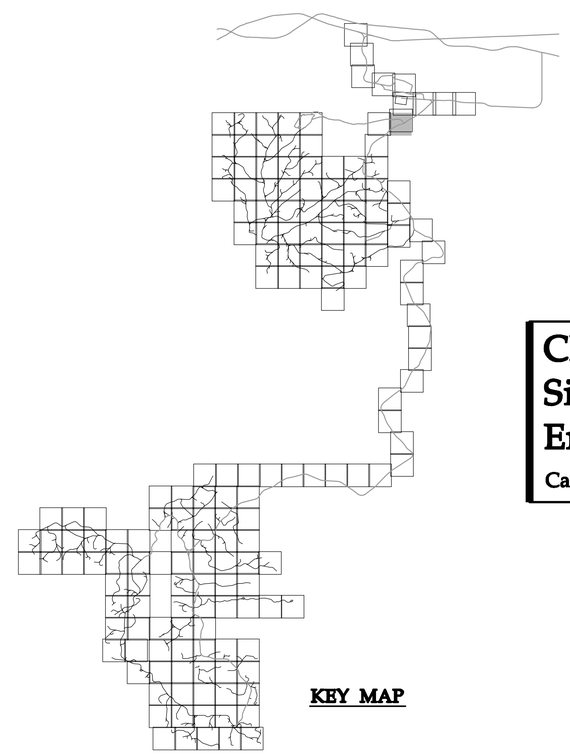

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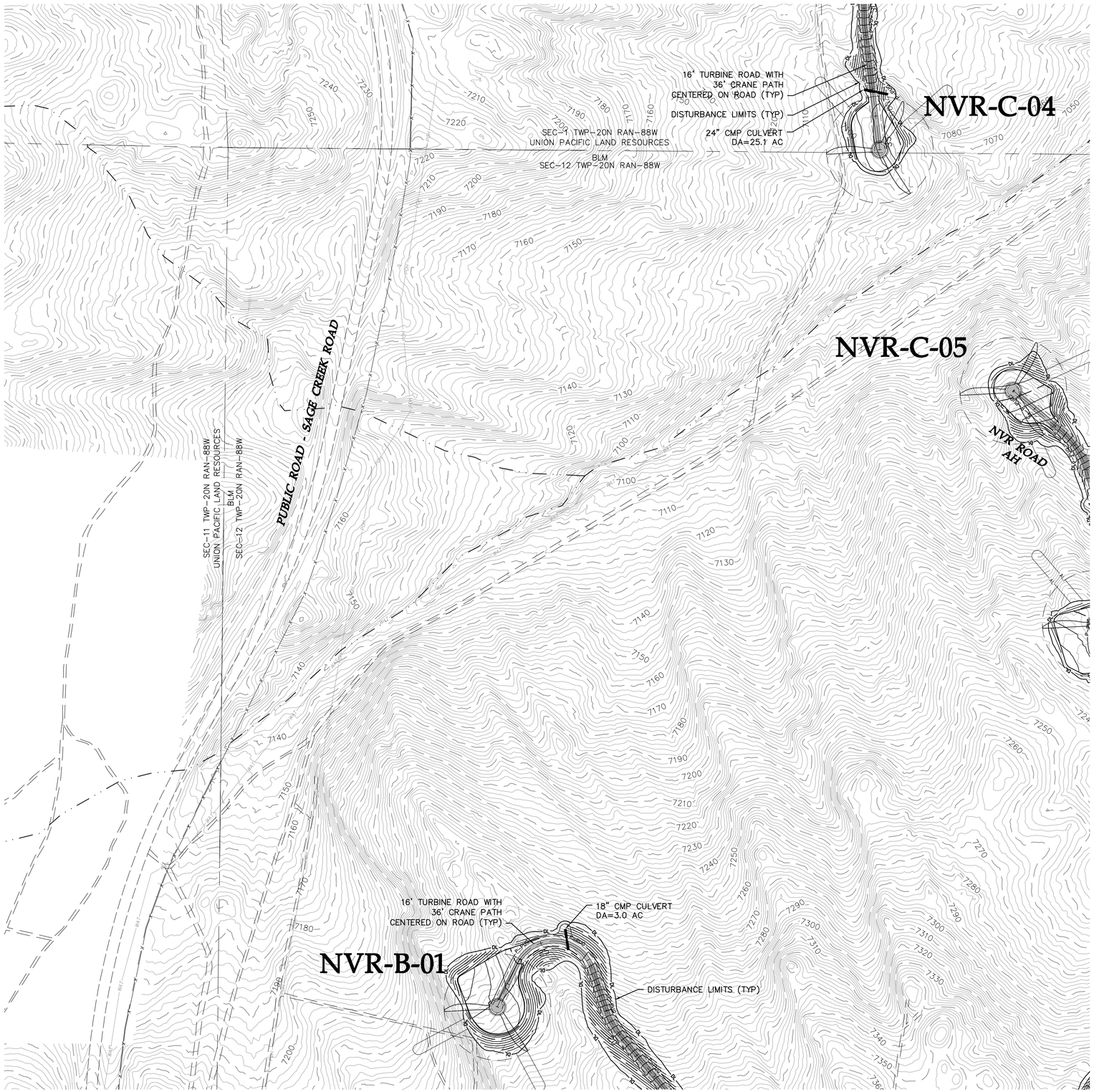

SEE SHEET 66

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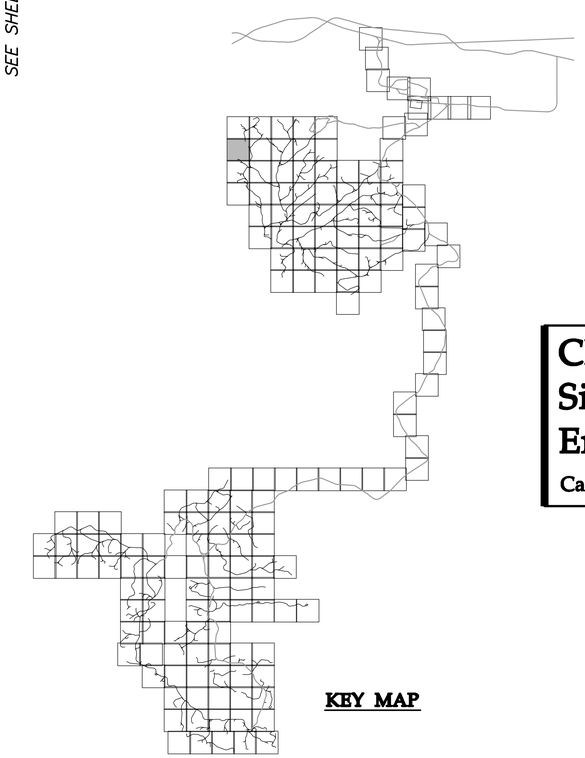

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