

CORRECTIVE ACTION MANAGEMENT UNIT (CAMU – PHASE II INTERIM & PHASE IIIA CLOSURE HDPE LINER AS-BUILT) HENDERSON, NV

Prepared for:



ENTACT Environmental Services, LLC
699 South Friendswood Dr.
Suite 101
Friendswood, TX. 77546
(281) 996-9892

Prepared by:



Absolute Boundary & Control Solutions
6440 Sky Point Drive
Suite 140 – PMB 321
Las Vegas, NV 89131
(702) 953-7452

January 4, 2010



01/04/2010

Attn: Erik Gehringer, Project Manager
ENTACT Environmental Services, LLC
699 South Friendswood Drive
Friendswood, TX. 77546

Re: Corrective Action Management Unit (CAMU) – Phase II Interim & Phase IIIA Closure HDPE Liner
As-built

Mr. Gehringer,

This report outlines the results of a Field Survey performed on the Corrective Action Management Unit (CAMU) project and was completed to depict the As-Built information with regard to the HDPE Closure Liner within a portion of Phase II and all of Phase IIIA. The intent of said report is to provide information such as but not limited to, Data, Calculations, Drawings, Tables, Charts, Electronic Files and other required media to satisfy the Submittal Requirements as outlined in Section 01050 of the Project Technical Specifications, Dated May, 2008.

Absolute Boundary & Control Solutions (ABCS) is pleased you have chosen us to complete these services, and assures you that every attempt has been made to prepare same in a fashion meeting or exceeding the Project Specifications. If however after your review you determine that revisions, clarifications or other modifications are needed, please do not hesitate to bring them to our attention.

In closing, thank you again for the opportunity to serve ENTACT. If you have any questions, comments or concerns, please do not hesitate to contact me.

Sincerely,

Craig A. Givant, PLS
President

(702) 953-7452
(702) 839-9750 fax

CERTIFICATION PAGE

CAMU – PHASE II INTERIM & PHASE IIIA CLOSURE
HPDE LINER AS-BUILT
HENDERSON, NV

I, Craig A. Givant, a Professional Land Surveyor registered in the State of Nevada, certify (as defined by Nevada Revised Statutes 625.403) that:

1. This report and any Land Surveying Practices (N.R.S. 625.040) on which it is based were performed directly by me or under my responsible charge (N.R.S. 625.080) in accordance with the Standards and Practices Governing Land Surveyors in the State of Nevada as defined by any applicable sections of the Nevada Revised Statutes (N.R.S.) or the Nevada Administrative Code (N.A.C.).
2. By affixing my official seal and signature below I am confirming that I am a Registered Land Surveyor in the State of Nevada and thereby satisfy the requirements of Section 01050, Part 1.03, Subpart A or the Project Technical Specifications.

Craig A. Givant, PLS
PLS 14348



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FIELD NOTES

All Field Data pertaining to the determination of the location of the As-Built Information was collected electronically. Pertinent parameters required to be input into the software and which were obtained by means of human interaction, were verified as correct by performing field checks. These field checks and their resultant accuracies can be viewed within the Electronic Field Notes (Raw Data). The following Raw Data files were used while acquiring the As-Built information. These files have not been printed for inclusion in this report however a Portable Document File (PDF) of each raw data printout is included electronically on the attached Compact Disk (CD). It should be noted that the contents of these Raw Data files may not pertain solely to the report herein presented and may include additional data from other “tasks” performed on the same day.

1. 2009-10-20 (PHII IC+PH IIIA Closure Liner ASB)-MC.dc – Consisting of 271 Pages

SURVEY DATA

Field Survey Methods were employed that resulted in the following precisions:

Horizontal Coordinates: $\pm 1.0'$ (One Foot)

Vertical Coordinates: $\pm 0.10'$ (One Tenth of a Foot)

The Following documents are attached hereto:

1. Coordinate Printout of the reduced (measured) coordinates from the Field Collection Efforts.

1. Coordinate Printout of the reduced (measured) coordinates from the Field Collection Efforts.

Point No.	Northing	Easting	Elevation	Description
75000	18136.75	14603.63	1749.82	6-29-09prechk
75001	18081.08	14491.55	1750.20	top-ps
75002	18081.88	14491.53	1750.28	r-ps
75003	18083.80	14491.02	1750.02	r-ps
75004	18083.25	14491.00	1750.17	top-mat-ps
75005	18083.30	14502.34	1750.28	top-mat-ps
75006	18081.21	14502.20	1750.28	top-ps
75007	18080.35	14524.54	1750.19	top-ps
75008	18083.21	14524.51	1750.18	top-mat-ps
75009	18082.74	14547.02	1750.28	top-mat-ps
75010	18080.00	14546.95	1750.30	top-ps
75011	18079.80	14569.42	1750.61	top-ps
75012	18082.27	14569.41	1750.51	top-mat-ps
75013	18082.36	14591.86	1750.59	top-mat-ps
75014	18079.67	14591.90	1750.55	top-ps
75015	18078.99	14614.26	1750.63	top-ps
75016	18082.08	14614.20	1750.63	top-mat-ps
75017	18081.60	14636.84	1750.80	top-mat-ps
75018	18079.12	14636.72	1750.71	top-ps
75019	18078.34	14659.08	1750.83	top-ps
75020	18081.06	14659.03	1750.86	top-mat-ps
75021	18080.11	14681.71	1751.12	top-mat-scrap
75022	18077.30	14681.61	1751.09	top-scrap
75023	18051.27	14681.04	1738.68	toe-scrap
75024	18065.86	14669.10	1745.06	p-26
75025	18052.08	14658.43	1738.67	toe-ps
75026	18067.60	14647.45	1745.17	p-24
75027	18053.35	14636.03	1738.53	toe-ps
75028	18066.87	14625.95	1744.56	p-22
75029	18053.39	14613.70	1738.53	toe-ps
75030	18066.18	14604.80	1743.98	p-21
75031	18053.63	14591.26	1738.31	toe-ps
75032	18067.30	14581.85	1744.40	p-18
75033	18053.64	14568.90	1738.36	toe-ps
75034	18067.81	14558.30	1744.57	p-17
75035	18053.99	14546.42	1738.41	toe-ps

Point No.	Northing	Easting	Elevation	Description
75036	18068.37	14537.18	1744.71	p-16
75037	18054.38	14523.99	1738.41	toe-ps
75038	18068.51	14513.32	1744.87	p-15
75039	18068.53	14495.43	1744.91	p-19
75040	18054.91	14501.54	1738.56	toe-ps
75041	18055.14	14490.24	1738.73	toe-ps
75042	18039.24	14490.28	1739.03	r-14-ps
75043	18038.66	14489.34	1739.10	r-14-ps
75044	18036.61	14490.24	1739.17	r-14-ps
75045	18007.78	14489.90	1739.89	r-23-ps
75046	18006.88	14489.00	1739.86	r-23-ps
75047	18005.94	14489.88	1739.95	r-23-ps
75048	18003.43	14489.91	1740.00	r-24-ps
75049	18002.68	14490.86	1739.98	r-24-ps
75050	18001.71	14489.91	1740.01	r-24-ps
75051	18002.59	14492.90	1739.94	r-25-ps
75052	18002.46	14498.37	1740.09	r-25-ps
75053	18002.47	14499.74	1740.11	r-26-ps
75054	18003.36	14500.81	1740.12	r-26-ps
75055	18001.54	14500.66	1740.19	r-26-ps
75056	17972.10	14489.65	1740.70	r-22-ps
75057	17971.26	14488.83	1740.77	r-22-ps
75058	17970.22	14489.61	1740.78	r-22-ps
75059	17940.50	14489.48	1741.79	r-21-ps
75060	17939.59	14488.71	1741.83	r-21-ps
75061	17938.53	14489.43	1741.88	r-21-ps
75062	17917.26	14489.32	1742.57	r-20-ps
75063	17915.57	14490.15	1742.64	r-20-ps
75064	17912.65	14488.50	1742.69	r-20-ps
75065	17899.82	14489.23	1743.00	r-20-ps
75066	17911.79	14494.59	1742.70	p-06
75067	17923.65	14494.43	1742.30	p-20
75068	17915.05	14498.01	1742.57	r-41-ps
75069	17913.82	14498.75	1742.65	r-41-ps
75070	17915.91	14499.44	1742.59	r-41-ps
75071	17914.80	14500.12	1742.64	r-41-ps
75072	17906.90	14509.59	1742.95	p-05
75073	17898.61	14528.98	1743.31	p-01
75074	17913.03	14520.45	1742.86	r-30-ps
75075	17911.92	14521.16	1742.89	r-30-ps

Point No.	Northing	Easting	Elevation	Description
75076	17914.15	14521.77	1742.80	r-30-ps
75077	17912.94	14522.71	1742.87	r-30-ps
75078	17912.60	14526.02	1742.85	ds-17/r-31-ps
75079	17911.95	14532.59	1742.90	ds-17/r-31-ps
75080	17910.88	14531.37	1742.93	ds-21/r-42-s
75081	17911.38	14526.32	1742.89	ds-21/r-42-s
75082	17911.13	14543.03	1742.80	r-32-ps
75083	17910.13	14543.72	1742.88	r-32-ps
75084	17911.96	14544.29	1742.82	r-32-ps
75085	17910.94	14545.33	1742.85	r-32-ps
75086	17896.88	14552.36	1743.28	p-02
75087	17909.08	14565.47	1742.82	r-33-ps
75088	17908.17	14566.01	1742.85	r-33-ps
75089	17909.84	14566.68	1742.79	r-33-ps
75090	17908.88	14567.77	1742.83	r-33-ps
75091	17927.67	14566.88	1742.29	ds-13/r-27-ps
75092	17933.20	14566.97	1742.04	ds-13/r-27-ps
75093	17896.06	14576.79	1743.20	p-03
75094	17907.14	14586.98	1742.83	r-34-ps
75095	17906.06	14588.10	1742.88	r-34-ps
75096	17908.07	14589.11	1742.77	r-34-ps
75097	17906.84	14590.56	1742.84	r-34-ps
75098	17898.63	14599.46	1743.13	p-04
75099	17905.04	14609.52	1742.93	r-35-ps
75100	17903.87	14610.37	1743.01	r-35-ps
75101	17905.66	14611.57	1742.98	r-35-ps
75102	17904.72	14612.52	1743.02	r-35-ps
75103	17896.23	14621.06	1743.30	p-07
75104	17964.09	14623.36	1741.26	p-23
75105	17971.09	14612.46	1741.08	r-38-ps
75106	17971.87	14613.34	1741.04	r-38-ps
75107	17972.67	14612.43	1741.04	r-38-ps
75108	17978.43	14612.41	1740.87	ds-15/r-28-ps
75109	17983.78	14612.54	1740.72	ds-15/r-28-ps
75110	17971.46	14633.90	1741.09	r-39-ps
75111	17972.46	14634.89	1741.08	r-39-ps
75112	17970.48	14634.93	1741.11	r-39-ps
75113	17916.98	14633.95	1742.65	ds-16/r-29-ps
75114	17911.76	14633.89	1742.88	ds-16/r-29-ps
75115	17903.02	14631.97	1743.16	r-36-ps

Point No.	Northing	Easting	Elevation	Description
75116	17901.99	14632.74	1743.18	r-36-ps
75117	17903.69	14633.78	1743.10	r-36-ps
75118	17902.82	14634.74	1743.18	r-36-ps
75119	17892.11	14642.47	1743.53	p-08
75120	17900.93	14654.27	1743.13	r-37-ps
75121	17899.93	14654.97	1743.16	r-37-ps
75122	17901.70	14656.19	1743.12	r-37-ps
75123	17900.63	14657.32	1743.15	r-37-ps
75124	17888.49	14664.37	1743.51	p-09
75125	18018.27	14668.59	1739.90	p-25
75126	18027.71	14658.04	1739.65	r-40-ps
75127	18028.71	14658.92	1739.64	r-40-ps
75128	18029.53	14658.01	1739.60	r-40-ps
75129	18028.63	14680.63	1739.54	scrap-ps
75130	17898.18	14677.50	1743.20	scrap-ps
75131	17888.13	14686.79	1743.50	p-10
75132	17888.34	14707.75	1743.61	p-11
75133	17896.29	14699.64	1743.33	scrap-ps
75134	17894.14	14722.16	1743.52	scrap-ps
75135	17883.99	14731.24	1743.90	p-12
75136	17882.39	14755.45	1744.14	p-13
75137	17891.99	14744.25	1743.67	scrap-ps
75138	17900.10	14744.76	1743.46	scrap-ps
75139	17896.05	14767.37	1743.66	scrap-ps
75140	17882.85	14775.03	1744.07	p-14
75141	17893.57	14789.51	1743.74	scrap-ps
75142	17877.87	14798.23	1744.20	p-27
75143	17890.89	14811.86	1743.81	scrap-ps
75144	17874.29	14821.89	1744.36	p-28
75145	17889.62	14834.22	1743.95	scrap-ps
75146	17871.05	14843.39	1744.56	p-29
75147	17885.66	14856.46	1744.12	scrap-ps
75148	17867.13	14865.67	1744.75	p-30
75149	17884.05	14878.57	1744.21	scrap-ps
75150	17890.83	14901.70	1743.90	scrap-edge
75151	17866.04	14888.72	1744.75	p-31
75152	17788.53	14805.16	1746.90	ds-19/r-ps
75153	17783.39	14804.88	1747.19	ds-19/r-ps
75154	17518.46	14879.20	1754.62	toe-ps-scrap
75155	17508.35	14865.68	1760.00	p-31

Point No.	Northing	Easting	Elevation	Description
75156	17520.71	14856.86	1754.68	toe-ps
75157	17509.35	14845.22	1760.19	p-30
75158	17521.76	14834.39	1754.84	toe-ps
75159	17510.37	14822.51	1760.26	p-29
75160	17523.92	14812.17	1754.78	toe-ps
75161	17513.28	14798.61	1759.82	p-28
75162	17525.33	14789.75	1754.59	toe-ps
75163	17515.30	14778.90	1759.63	p-27
75164	17527.51	14767.48	1754.49	toe-ps
75165	17591.42	14771.17	1752.46	ds-18/r-ps
75166	17596.15	14771.43	1752.34	ds-18/r-ps
75167	17600.42	14749.29	1752.21	ds-12/r-18-ps
75168	17594.66	14748.92	1752.40	ds-12/r-18-ps
75169	17686.49	14821.74	1749.95	ds-20/r-ps
75170	17691.54	14822.08	1749.70	ds-20/r-ps
75171	17516.74	14755.68	1759.64	p-14
75172	17518.17	14733.12	1759.56	p-13
75173	17529.09	14745.01	1754.35	toe-ps
75174	17530.99	14722.63	1754.35	toe-ps
75175	17597.49	14726.54	1752.34	ds-11/r-17-ps
75176	17602.83	14726.86	1752.20	ds-11/r-17-ps
75177	17597.85	14681.47	1752.23	ds-09/r-15-ps
75178	17591.35	14681.22	1752.48	ds-09/r-15-ps
75179	17524.32	14699.71	1757.88	ds-10/r-16-ps
75180	17519.53	14699.39	1760.15	ds-10/r-16-ps
75181	17519.44	14710.87	1759.86	p-12
75182	17532.64	14700.18	1754.21	toe-ps
75183	17520.17	14687.96	1760.20	p-11
75184	17534.33	14677.77	1754.19	toe-ps
75185	17521.43	14664.03	1760.44	p-10
75186	17535.91	14655.38	1754.14	toe-ps
75187	17522.27	14642.93	1760.37	p-09
75188	17537.80	14632.95	1754.02	toe-ps
75189	17524.48	14621.68	1760.02	p-08
75190	17539.43	14610.56	1753.90	toe-ps
75191	17596.51	14614.13	1752.25	ds-07/r-12-ps
75192	17602.13	14614.39	1752.01	ds-07/r-12-ps
75193	17526.88	14598.35	1759.79	p-07
75194	17541.16	14588.23	1753.75	toe-ps
75195	17527.87	14575.09	1760.06	p-04

Point No.	Northing	Easting	Elevation	Description
75196	17542.66	14565.80	1753.78	toe-ps
75197	17706.99	14575.92	1748.88	ds-03/r-08-ps
75198	17711.66	14576.20	1748.71	ds-03/r-08-ps
75199	17793.65	14648.42	1746.36	ds-08/r-13-ps
75200	17799.20	14648.68	1746.19	ds-08/r-13-ps
75201	17855.08	14607.20	1744.49	ds-05/r-11-ps
75202	17860.33	14607.54	1744.34	ds-05/r-11-ps
75203	17656.47	14550.57	1750.37	ds-02/r-07-ps
75204	17651.61	14550.27	1750.48	ds-02/r-07-ps
75205	17606.88	14525.18	1752.06	ds-01/r-05-ps
75206	17601.81	14524.86	1752.20	ds-01/r-05-ps
75207	17752.14	14511.32	1747.35	ds-04/r-06-ps
75208	17758.05	14511.69	1747.19	ds-04/r-06-ps
75209	17523.13	14484.66	1766.92	r-01-ps
75210	17522.67	14482.43	1767.18	r-01-s
75211	17520.23	14482.99	1765.76	r-01-s
75212	17518.93	14485.65	1765.81	r-01-s
75213	17522.33	14486.19	1766.90	r-01-s
75214	17522.37	14484.53	1767.16	top-ps
75215	17520.53	14483.81	1767.05	top-mat-ps
75216	17517.05	14497.03	1767.17	top-mat-ps
75217	17519.74	14497.21	1767.01	top-ps
75218	17517.90	14519.53	1766.99	top-ps
75219	17515.17	14519.32	1767.09	top-mat-ps
75220	17513.74	14541.76	1766.73	top-mat-ps
75221	17516.44	14541.92	1766.88	top-ps
75222	17515.15	14564.48	1766.93	top-ps
75223	17512.59	14564.31	1767.02	top-mat-ps
75224	17511.04	14586.62	1766.78	top-mat-ps
75225	17513.84	14586.77	1766.75	top-ps
75226	17512.02	14586.71	1766.85	r-ps
75227	17509.91	14586.37	1764.86	r-ps
75228	17512.13	14609.17	1766.68	top-ps
75229	17509.75	14608.91	1766.90	top-mat-ps
75230	17508.35	14631.45	1766.75	top-mat-ps
75231	17510.70	14631.49	1766.67	top-ps
75232	17509.43	14653.96	1766.30	top-ps
75233	17506.85	14653.92	1766.42	top-mat-ps
75234	17505.35	14676.34	1766.53	top-mat-ps
75235	17508.36	14676.45	1766.57	top-ps

Point No.	Northing	Easting	Elevation	Description
75236	17506.88	14698.86	1766.25	top-ps
75237	17504.29	14698.68	1766.28	top-mat-ps
75238	17502.66	14721.07	1766.28	top-mat-ps
75239	17505.68	14721.28	1766.25	top-ps
75240	17504.51	14743.70	1766.06	top-ps
75241	17501.60	14743.44	1766.08	top-mat-ps
75242	17500.08	14765.89	1766.02	top-mat-ps
75243	17503.14	14766.06	1765.85	top-ps
75244	17501.40	14788.52	1765.86	top-ps
75245	17498.86	14788.39	1765.89	top-mat-ps
75246	17497.44	14810.59	1765.83	top-mat-ps
75247	17500.04	14810.66	1765.76	top-ps
75248	17498.74	14833.08	1765.72	top-ps
75249	17495.91	14832.95	1765.74	top-mat-ps
75250	17494.73	14855.34	1765.69	top-mat-ps
75251	17497.33	14855.43	1765.53	top-ps
75252	17495.75	14877.80	1765.63	top-ps-scrap
75253	17493.27	14877.60	1765.67	top-ps-scrap
75254	17588.90	14490.64	1752.24	ps-angle pt.
75255	17615.02	14490.63	1751.71	r-03-ps
75256	17614.99	14490.26	1751.73	r-03-ps
75257	17617.14	14490.73	1751.66	r-03-ps
75258	17637.82	14490.59	1751.13	r-04-ps
75259	17639.13	14489.50	1751.13	r-04-ps
75260	17639.97	14490.55	1751.06	r-04-ps
75261	17766.71	14489.93	1746.99	r-09-ps
75262	17772.37	14489.94	1746.84	r-09-ps
75263	17772.35	14490.12	1746.83	r-09-ps
75264	17808.89	14489.63	1745.81	r-10-ps
75265	17814.93	14489.46	1745.66	r-10-ps
75266	17814.98	14489.72	1745.66	r-10-ps
75267	17848.90	14489.47	1744.64	ds-06/r-19-ps
75268	17854.03	14489.53	1744.54	ds-06/r-19-ps
75269	18082.76	14491.70	1750.35	r-43
75270	18136.76	14603.61	1749.80	6-29-09postchk
75271	17654.20	15298.73	1751.06	7-2-09prechk
75272	17883.14	14883.87	1744.25	r-68-ps
75273	17884.02	14882.91	1744.21	r-68-ps
75274	17882.69	14878.54	1744.28	r-68-ps
75275	17883.74	14877.95	1744.22	r-68-ps

Point No.	Northing	Easting	Elevation	Description
75276	17885.23	14860.99	1744.10	r-67-ps
75277	17885.98	14860.18	1744.12	r-67-ps
75278	17884.76	14856.16	1744.10	r-67-ps
75279	17885.75	14855.33	1744.08	r-67-ps
75280	17887.71	14838.48	1743.95	r-66-ps
75281	17888.68	14837.81	1743.89	r-66-ps
75282	17887.20	14833.97	1743.92	r-66-ps
75283	17888.27	14833.32	1743.87	r-66-ps
75284	17899.99	14817.31	1743.45	ds-26/r-65-ps
75285	17905.09	14818.59	1743.33	ds-26/r-65-ps
75286	17890.21	14816.27	1743.79	r-64-ps
75287	17891.13	14815.28	1743.76	r-64-ps
75288	17889.70	14811.64	1743.82	r-64-ps
75289	17890.82	14811.01	1743.77	r-64-ps
75290	17892.52	14793.41	1743.74	r-63-ps
75291	17893.55	14792.66	1743.72	r-63-ps
75292	17893.65	14791.76	1743.74	r-63-ps
75293	17892.09	14789.37	1743.77	r-63-ps
75294	17893.06	14788.49	1743.73	r-63-ps
75295	17895.27	14770.32	1743.67	r-60-ps
75296	17896.09	14769.46	1743.64	r-60-ps
75297	17894.65	14767.01	1743.70	r-60-ps
75298	17895.85	14766.43	1743.64	r-60-ps
75299	17897.67	14747.90	1743.52	r-59-ps
75300	17898.50	14747.03	1743.45	r-59-ps
75301	17897.08	14746.11	1743.53	r-59-ps
75302	17893.10	14744.37	1743.59	r-53-ps
75303	17891.23	14744.20	1743.65	r-53-ps
75304	17892.30	14743.05	1743.61	r-53-ps
75305	17894.14	14724.71	1743.49	r-54-ps
75306	17895.37	14723.96	1743.49	r-54-ps
75307	17895.42	14723.30	1743.47	r-54-ps
75308	17893.16	14721.95	1743.50	r-54-ps
75309	17894.46	14721.00	1743.49	r-54-ps
75310	17896.18	14701.83	1743.31	r-52-ps
75311	17897.16	14700.83	1743.32	r-52-ps
75312	17895.28	14699.66	1743.38	r-52-ps
75313	17896.33	14698.80	1743.32	r-52-ps
75314	17898.39	14679.49	1743.19	r-51-ps
75315	17900.41	14678.60	1743.15	r-51-ps

Point No.	Northing	Easting	Elevation	Description
75316	17898.82	14676.44	1743.16	r-51-ps
75317	17893.25	14677.17	1743.34	r-51-ps
75318	17920.27	14678.93	1742.65	ds-22/r-55-ps
75319	17925.88	14679.02	1742.51	ds-22/r-55-ps
75320	17921.58	14701.38	1742.65	ds-23/r-50-ps
75321	17915.87	14701.21	1742.83	ds-23/r-50-ps
75322	17921.85	14772.69	1742.93	ds-24/r-61-ps
75323	17916.07	14771.92	1743.14	ds-24/r-61-ps
75324	17504.69	14721.16	1766.32	r-57-ps
75325	17503.00	14720.91	1766.31	r-57-ps
75326	17501.23	14765.98	1766.01	r-58-ps
75327	17499.77	14765.63	1765.80	r-58-ps
75328	17500.98	14777.11	1765.93	r-84
75329	17945.44	14798.04	1742.06	ds-25/r-62-ps
75330	17951.62	14798.85	1741.89	ds-25/r-62-ps
75331	18063.14	14692.50	1744.28	p-32
75332	18062.50	14703.63	1744.42	r-49-ps
75333	18055.54	14703.40	1740.87	r-49-ps
75334	18050.44	14703.45	1738.65	toe-ps
75335	18065.00	14713.42	1745.74	p-33
75336	18049.23	14725.78	1738.93	toe-ps
75337	18063.52	14735.62	1745.88	p-34
75338	18046.39	14743.48	1739.16	toe-ps
75339	18060.38	14756.38	1745.70	p-35
75340	18042.55	14765.58	1739.44	toe-ps
75341	18057.45	14777.37	1746.16	p-36
75342	18038.24	14787.59	1739.32	toe-ps
75343	18051.88	14800.80	1746.29	p-37
75344	18033.82	14809.57	1739.40	toe-ps
75345	18047.13	14819.25	1746.15	p-38
75346	18030.66	14825.41	1739.88	toe-ps
75347	18046.34	14837.36	1747.76	p-39
75348	18008.09	14852.79	1740.12	p-40
75349	18026.08	14850.49	1739.48	p-45
75350	18023.50	14847.73	1739.58	r-69-ps
75351	18022.38	14846.53	1739.65	r-69-ps
75352	18024.54	14847.06	1739.63	r-69-ps
75353	18022.00	14854.69	1739.62	r-71-ps
75354	18022.88	14855.28	1739.57	r-71-ps
75355	18021.38	14857.40	1739.65	r-71-ps

Point No.	Northing	Easting	Elevation	Description
75356	18027.36	14847.67	1739.55	toe-ps
75357	18028.33	14852.75	1739.71	toe-ps
75358	18044.91	14855.52	1746.07	p-42
75359	18017.17	14868.37	1739.79	r-72-ps
75360	18018.85	14867.77	1739.74	r-72-ps
75361	18020.12	14868.79	1739.66	r-72-ps
75362	18035.95	14872.81	1739.13	r-73-ps
75363	18039.58	14872.33	1739.50	r-73-ps
75364	18039.42	14873.92	1739.33	r-73-ps
75365	18058.45	14870.15	1747.23	p-43
75366	18053.40	14888.54	1747.07	p-41
75367	18035.16	14895.81	1739.37	toe-ps
75368	18030.01	14917.75	1739.63	toe-ps
75369	18026.40	14937.56	1739.72	toe-scrap
75370	18047.88	14909.03	1746.67	p-46
75371	18044.00	14930.39	1747.09	p-47
75372	17685.96	14866.55	1749.96	r-78-ps
75373	17683.74	14866.48	1750.06	r-78-ps
75374	17592.43	14809.24	1752.39	r-85
75375	17504.07	14890.14	1761.09	p-48
75376	17518.24	14901.66	1754.98	toe-ps
75377	17503.66	14911.94	1760.56	p-49
75378	17516.13	14923.96	1755.26	toe-ps
75379	17502.60	14933.47	1760.83	p-50
75380	17514.65	14946.38	1755.14	toe-ps
75381	17500.14	14955.85	1761.24	p-51
75382	17512.92	14968.49	1755.35	toe-ps
75383	17499.40	14975.15	1760.99	p-52
75384	17509.60	14990.85	1755.44	toe-ps-scrap
75385	17488.82	14989.60	1765.05	top-ps-scrap
75386	17486.60	14989.49	1765.02	top-mat-ps-scrap
75387	17487.84	14967.04	1765.32	top-mat-ps
75388	17490.15	14967.31	1765.32	top-ps
75389	17491.68	14944.95	1765.25	top-ps
75390	17489.32	14944.89	1765.27	top-mat-ps
75391	17490.75	14922.43	1765.22	top-mat-ps
75392	17493.23	14922.54	1765.27	top-ps
75393	17494.44	14900.05	1765.43	top-ps
75394	17493.02	14899.97	1765.47	top-mat-ps
75395	17494.23	14877.64	1765.82	r-ps

Point No.	Northing	Easting	Elevation	Description
75396	17492.90	14877.29	1765.50	r-ps
75397	17585.12	14883.19	1752.89	ds-27/r-79-ps
75398	17590.52	14883.48	1752.74	ds-27/r-79-ps
75399	17583.10	14905.47	1752.99	ds-28/r-80-ps
75400	17588.65	14905.82	1752.86	ds-28/r-80-ps
75401	17680.93	14933.67	1750.21	ds-29/r-81-ps
75402	17686.31	14933.99	1750.04	ds-29/r-81-ps
75403	17678.70	14956.11	1750.34	ds-30/r-82-ps
75404	17684.10	14956.32	1750.09	ds-30/r-82-ps
75405	17776.11	14984.26	1747.34	ds-31/r-83-ps
75406	17782.16	14984.61	1747.15	ds-31/r-83-ps
75407	17884.49	15013.55	1744.29	scrap-ps
75408	17885.38	14990.87	1744.17	scrap-ps
75409	17886.62	14968.57	1744.14	scrap-ps
75410	17888.32	14946.25	1743.99	scrap-ps
75411	17889.47	14924.06	1743.98	scrap-ps
75412	17891.90	14908.07	1743.91	scrap-ps
75413	17881.44	14900.93	1744.30	r-ps
75414	18052.18	14946.66	1752.59	top-ps-scrap
75415	18054.87	14947.11	1752.54	top-mat-ps-scrap
75416	18059.71	14924.74	1752.48	top-mat-ps
75417	18057.27	14924.25	1752.40	top-ps
75418	18062.38	14902.71	1752.57	top-ps
75419	18064.84	14902.88	1752.57	top-mat-ps
75420	18064.59	14902.93	1752.60	r-77-ps
75421	18062.75	14902.83	1752.59	r-77-ps
75422	18067.33	14881.09	1752.45	top-ps
75423	18070.45	14881.92	1752.40	top-mat-ps
75424	18074.89	14859.86	1752.40	top-mat-ps
75425	18074.05	14855.11	1752.51	top-mat-ps
75426	18072.30	14855.94	1752.34	top-ps
75427	18072.08	14859.26	1752.40	top-ps
75428	18073.61	14857.43	1752.41	p-44
75429	18072.69	14855.64	1752.40	r-75-ps
75430	18074.29	14855.11	1752.42	r-75-ps
75431	18069.32	14857.55	1751.48	r-74-ps
75432	18069.58	14858.57	1751.45	r-74-ps
75433	18067.52	14858.53	1750.88	r-74-ps
75434	18053.61	14847.86	1751.99	r-76-ps
75435	18057.24	14845.66	1751.95	r-76-ps

Point No.	Northing	Easting	Elevation	Description
75436	18056.41	14846.74	1752.42	top-mat-ps
75437	18054.98	14847.64	1752.52	top-ps
75438	18057.83	14832.36	1752.42	top-ps
75439	18060.15	14833.02	1752.25	top-mat-ps
75440	18064.07	14813.28	1752.38	top-mat-ps
75441	18061.69	14813.01	1752.33	top-ps
75442	18066.69	14791.07	1752.31	top-ps
75443	18069.19	14791.31	1752.42	top-mat-ps
75444	18073.77	14769.51	1752.08	top-mat-ps
75445	18071.62	14769.31	1752.13	top-ps
75446	18073.97	14746.93	1751.68	top-ps
75447	18075.71	14747.12	1751.73	top-mat-ps
75448	18077.46	14726.16	1751.58	top-mat-ps
75449	18075.01	14726.16	1751.43	top-ps
75450	18076.66	14703.72	1751.07	top-ps
75451	18078.93	14703.77	1751.11	top-mat-ps
75452	18078.46	14681.51	1751.05	r-48-ps
75453	18080.00	14681.25	1751.12	r-48-ps
75454	17654.19	15298.73	1751.03	7-2-09postchk
75455	18036.35	14849.59	1743.27	R-70-PS
75456	18033.34	14849.10	1741.79	R-70-PS
75457	18033.38	14850.36	1741.82	R-70-PS
75458	17654.17	15298.69	1751.10	CP443-POSTCHK-7-3-09
75459	18028.51	14679.78	1739.56	r-56-ps
75460	18027.66	14680.64	1739.60	r-56-ps
75461	18029.34	14680.65	1739.52	r-56-ps
75462	17654.18	15298.71	1751.11	7-7-09prechk
75463	17488.35	14989.57	1765.19	r-91-ps
75464	17486.29	14989.38	1765.07	r-91-ps
75465	17486.18	14989.42	1765.03	top-mat-ps
75466	17489.12	14989.72	1765.11	top-ps
75467	17487.68	15012.18	1764.91	top-ps
75468	17484.75	15012.04	1764.89	top-mat-ps
75469	17483.45	15034.42	1764.94	top-mat-ps
75470	17486.07	15034.53	1764.93	top-ps
75471	17482.38	15048.48	1764.90	r-92
75472	17488.47	15048.85	1763.44	r-93
75473	17494.65	15048.98	1760.35	r-94
75474	17484.46	15057.10	1764.87	top-ps
75475	17482.02	15056.91	1764.99	top-mat-ps

Point No.	Northing	Easting	Elevation	Description
75476	17480.82	15079.12	1764.79	top-mat-ps
75477	17482.97	15079.32	1764.67	top-ps
75478	17481.52	15101.78	1764.64	top-ps
75479	17479.38	15101.58	1764.76	top-mat-ps
75480	17477.82	15124.02	1764.57	top-mat-ps
75481	17480.24	15124.20	1764.59	top-ps
75482	17478.38	15146.57	1764.49	top-ps
75483	17476.20	15146.48	1764.52	top-mat-ps
75484	17474.77	15168.65	1764.22	top-mat-ps
75485	17477.03	15168.80	1764.27	top-ps
75486	17475.18	15191.05	1764.21	top-ps
75487	17473.55	15190.95	1764.26	top-mat-ps
75488	17471.74	15213.00	1764.21	top-mat-ps
75489	17473.50	15213.12	1764.11	top-ps
75490	17472.09	15235.61	1764.10	top-ps
75491	17469.90	15235.48	1764.14	top-mat-ps
75492	17468.47	15257.65	1764.03	top-mat-ps
75493	17470.83	15257.79	1764.02	top-ps
75494	17469.17	15280.58	1763.94	top-ps
75495	17466.92	15280.35	1763.94	top-mat-ps
75496	17466.64	15289.17	1763.80	top-mat-ps-scrap
75497	17469.07	15288.87	1763.80	top-ps-scrap
75498	17485.15	15288.89	1756.15	toe-ps-scrap
75499	17485.06	15281.23	1756.22	toe-ps
75500	17479.75	15269.41	1759.47	p-65
75501	17487.07	15258.75	1756.40	toe-ps
75502	17480.72	15246.83	1759.74	p-64
75503	17489.35	15236.36	1756.09	toe-ps
75504	17482.06	15225.94	1760.04	p-63
75505	17491.79	15213.90	1756.06	toe-ps
75506	17484.66	15200.77	1759.81	p-62
75507	17492.63	15191.82	1755.97	toe-ps
75508	17484.30	15180.93	1760.51	p-61
75509	17495.06	15169.64	1755.99	toe-ps
75510	17486.80	15156.61	1760.29	p-60
75511	17496.36	15147.37	1755.91	toe-ps
75512	17488.68	15135.87	1760.25	p-59
75513	17498.76	15125.00	1755.74	toe-ps
75514	17490.36	15112.56	1760.20	p-58
75515	17500.46	15102.70	1755.56	toe-ps

Point No.	Northing	Easting	Elevation	Description
75516	17491.71	15090.91	1760.10	p-57
75517	17502.58	15080.35	1755.42	toe-ps
75518	17493.33	15067.98	1760.27	p-56
75519	17504.41	15058.11	1755.49	toe-ps
75520	17496.19	15046.12	1759.75	p-55
75521	17506.10	15035.63	1755.44	toe-ps
75522	17496.56	15022.58	1760.50	p-54
75523	17508.06	15013.25	1755.33	toe-ps
75524	17498.15	15001.85	1760.50	p-53
75525	17581.73	14995.03	1753.26	ds-32/r-87-ps
75526	17586.73	14995.43	1753.16	ds-32/r-87-ps
75527	17572.47	15017.01	1753.49	ds-33/r-88-ps
75528	17577.59	15017.34	1753.36	ds-33/r-88-ps
75529	17571.06	15129.53	1753.92	ds-36/r-95-ps
75530	17576.80	15129.82	1753.73	ds-36/r-95-ps
75531	17568.03	15151.79	1753.92	ds-37/r-96-ps
75532	17573.45	15152.15	1753.78	ds-37/r-96-ps
75533	17667.80	15067.81	1750.91	ds-35/r-90-ps
75534	17673.37	15068.22	1750.72	ds-35/r-90-ps
75535	17672.01	15045.67	1750.65	ds-34/r-89-ps
75536	17677.54	15046.01	1750.46	ds-34/r-89-ps
75537	17882.55	15013.27	1744.36	scrap-ps
75538	17880.38	15035.68	1744.43	scrap-ps
75539	17879.00	15057.82	1744.49	scrap-ps
75540	17878.58	15080.42	1744.54	scrap-ps
75541	17877.28	15102.62	1744.70	scrap-ps
75542	17876.36	15125.14	1744.80	scrap-ps
75543	17874.97	15147.38	1744.82	scrap-ps
75544	17873.94	15169.87	1744.82	scrap-ps
75545	17872.47	15192.36	1744.86	scrap-ps
75546	17872.43	15214.33	1744.98	scrap-ps
75547	17868.19	15236.57	1745.11	scrap-ps
75548	17867.10	15258.87	1745.08	scrap-ps
75549	17867.51	15281.36	1745.02	scrap-ps
75550	17868.84	15289.25	1744.98	scrap-ps
75551	17594.52	15288.52	1753.00	scrap-ps
75552	17477.39	15285.05	1759.92	p-66
75553	17654.16	15298.74	1751.05	7-7-09postchk
75554	17654.18	15298.73	1751.03	7-8-09prechk
75555	17574.08	15219.44	1753.58	ds-38/r-97-ps

Point No.	Northing	Easting	Elevation	Description
75556	17568.22	15219.02	1753.78	ds-38/r-97-ps
75557	17812.99	15255.93	1746.49	ds-39/r-98-ps
75558	17818.75	15256.24	1746.37	ds-39/r-98-ps
75559	18013.91	14879.68	1739.99	ds-41/r-107-s
75560	18015.27	14874.03	1739.93	ds-41/r-107-s
75561	18008.39	14912.48	1740.18	r-100+101-ps
75562	18005.95	14911.73	1740.26	r-100+101-ps
75563	18000.88	14933.50	1740.44	r-100-ps
75564	18003.65	14934.22	1740.41	r-100-ps
75565	18011.51	14889.80	1740.10	r-101+102-ps
75566	18014.13	14890.43	1740.00	r-101+102-ps
75567	18016.76	14868.00	1739.92	r-102+103-ps
75568	18019.40	14868.66	1739.82	r-102+103-ps
75569	18022.92	14855.12	1739.70	r-103-ps
75570	18024.60	14848.38	1739.66	r-103-s
75571	18021.93	14847.80	1739.75	r-103-s
75572	18021.41	14846.27	1739.83	r-106-ps
75573	18031.91	14848.74	1741.05	r-106-ps
75574	18019.94	14867.39	1739.73	r-104-s
75575	18019.29	14870.05	1739.79	r-104-s
75576	18039.06	14874.94	1739.81	r-104+105-s
75577	18039.72	14872.19	1739.83	r-104+105-ps
75578	18044.19	14875.04	1741.27	r-105-ps
75579	17654.17	15298.70	1751.12	7-8-09postchk
75580	17654.19	15298.70	1751.11	7-10-09PRECHK
75581	17864.31	15288.83	1745.11	scrap-ps
75582	17866.96	15246.24	1745.22	ds-48/r-125-ps
75583	17868.13	15244.05	1745.18	ds-48/r-125-ps
75584	17866.39	15236.28	1745.27	ds-48/r-125-ps
75585	17867.49	15234.75	1745.22	ds-48/r-125-ps
75586	17886.03	15206.22	1744.50	r-174-ps
75587	17887.79	15205.55	1744.41	r-174-ps
75588	17888.75	15206.88	1744.42	r-174-ps
75589	17888.29	15184.03	1744.34	r-173-ps
75590	17892.09	15186.00	1744.22	r-173-ps
75591	17893.33	15184.98	1744.15	r-173-ps
75592	17878.98	15192.78	1744.69	p-86
75593	17878.43	15234.61	1744.87	p-91
75594	17892.70	15255.94	1744.24	p-89
75595	17904.00	15244.05	1743.86	r-177-ps

Point No.	Northing	Easting	Elevation	Description
75596	17904.41	15266.53	1743.79	r-178-ps
75597	17904.16	15256.34	1743.83	ds-49/r-126-ps
75598	17904.00	15251.15	1743.84	ds-49/r-126-ps
75599	17940.93	15243.92	1742.86	r-176-ps
75600	17941.19	15232.89	1742.88	r-175-ps
75601	17697.38	15181.93	1749.90	r-114-ps
75602	17702.35	15182.26	1749.77	r-114-ps
75603	17472.50	15202.44	1764.27	r-160
75604	17474.36	15202.54	1764.22	r-160
75605	17474.61	15197.96	1764.25	r-160
75606	17473.03	15197.89	1764.33	r-160
75607	17472.25	15214.10	1764.19	r-161
75608	17473.29	15212.96	1764.16	r-116-ps
75609	17475.19	15213.31	1763.67	r-116-ps
75610	17494.77	15214.18	1756.11	r-113-ps
75611	17497.36	15214.43	1756.00	r-113-ps
75612	17497.37	15216.09	1755.97	r-113
75613	17495.12	15216.44	1756.01	r-113
75614	17494.26	15210.78	1756.05	r-113
75615	17496.63	15210.45	1756.00	r-113
75616	17513.72	15183.92	1755.51	r-112
75617	17513.79	15180.45	1755.53	r-112
75618	17516.36	15180.45	1755.44	r-112
75619	17516.22	15184.03	1755.45	r-112
75620	17864.81	15280.99	1745.21	r-159-ps
75621	17865.68	15266.47	1745.18	r-158-ps
75622	17866.12	15258.67	1745.15	r-157-ps
75623	17868.42	15221.61	1745.20	r-156-ps
75624	17868.79	15214.96	1745.18	r-155-ps
75625	17867.94	15213.93	1745.21	r-155-ps
75626	17868.96	15212.95	1745.17	r-155-ps
75627	17869.64	15202.30	1745.06	r-154-ps
75628	17870.14	15193.22	1745.00	r-153-ps
75629	17869.06	15191.90	1745.03	r-153-ps
75630	17870.23	15191.08	1745.00	r-153-ps
75631	17870.98	15180.96	1745.02	r-152-ps
75632	17872.07	15180.10	1745.01	r-152-ps
75633	17871.22	15178.80	1745.01	r-152-ps
75634	17871.68	15170.96	1744.99	r-151-ps
75635	17870.66	15169.59	1744.99	r-151-ps

Point No.	Northing	Easting	Elevation	Description
75636	17871.69	15168.59	1744.96	r-151-ps
75637	17872.38	15158.14	1744.94	r-150-ps
75638	17873.60	15157.33	1744.90	r-150-ps
75639	17872.49	15156.04	1744.94	r-150-ps
75640	17873.08	15148.56	1744.94	r-149-ps
75641	17872.11	15147.39	1744.96	r-149-ps
75642	17873.21	15146.43	1744.94	r-149-ps
75643	17936.16	15172.10	1742.89	ds-46/r-123
75644	17941.72	15173.40	1742.64	ds-46/r-123
75645	17879.69	15135.75	1744.78	r-148-ps
75646	17878.77	15134.68	1744.78	r-148-ps
75647	17874.05	15133.54	1744.96	r-148-ps
75648	17873.98	15135.49	1744.93	r-148-ps
75649	17874.58	15126.08	1744.97	r-147-ps
75650	17873.72	15125.04	1744.99	r-147-ps
75651	17874.69	15124.06	1744.94	r-147-ps
75652	17878.20	15120.42	1744.77	p-85
75653	17883.32	15114.90	1744.55	r-172-ps
75654	17884.45	15113.85	1744.52	r-172-ps
75655	17882.33	15113.48	1744.60	r-172-ps
75656	17876.39	15112.01	1744.84	r-146-ps
75657	17875.38	15112.86	1744.94	r-146-ps
75658	17875.58	15110.76	1744.86	r-146-ps
75659	17876.00	15103.44	1744.79	r-145-ps
75660	17875.11	15102.42	1744.82	r-145-ps
75661	17876.16	15101.42	1744.77	r-145-ps
75662	17876.75	15090.02	1744.73	r-144-ps
75663	17877.70	15089.14	1744.68	r-144-ps
75664	17876.91	15087.97	1744.69	r-144-ps
75665	17877.32	15081.36	1744.68	r-143-ps
75666	17876.30	15080.09	1744.64	r-143-ps
75667	17877.42	15079.29	1744.63	r-143-ps
75668	17897.42	15081.14	1743.89	p-77
75669	17697.15	15284.46	1749.94	r-179
75670	17688.19	15283.33	1750.25	r-180
75671	17666.69	15283.14	1750.91	r-181
75672	17924.96	15105.49	1743.17	r-171
75673	17918.06	15098.86	1743.43	r-170-ps
75674	17917.30	15097.59	1743.49	r-170-ps
75675	17915.95	15098.36	1743.53	r-170-ps

Point No.	Northing	Easting	Elevation	Description
75676	17921.76	15079.24	1743.42	r-169-ps
75677	17921.43	15076.43	1743.40	r-169-ps
75678	17923.33	15076.93	1743.33	r-169-ps
75679	17878.03	15067.31	1744.63	r-142-ps
75680	17879.20	15066.46	1744.57	r-142-ps
75681	17878.22	15065.30	1744.60	r-142-ps
75682	17878.51	15058.92	1744.59	r-141-ps
75683	17877.38	15057.83	1744.59	r-141-ps
75684	17878.72	15056.87	1744.56	r-141-ps
75685	17879.58	15044.50	1744.52	r-140-ps
75686	17880.77	15043.65	1744.47	r-140-ps
75687	17879.83	15042.53	1744.51	r-140-ps
75688	17880.25	15036.63	1744.51	r-139-ps
75689	17879.23	15035.50	1744.55	r-139-ps
75690	17880.43	15034.57	1744.51	r-139-ps
75691	17914.23	15040.95	1743.51	p-74
75692	17915.86	15052.05	1743.50	r-168-ps
75693	17917.12	15051.52	1743.48	r-168-ps
75694	17917.94	15052.48	1743.44	r-168-ps
75695	17921.76	15031.23	1743.37	r-167-ps
75696	17921.15	15030.08	1743.33	r-167-ps
75697	17923.04	15030.54	1743.30	r-167-ps
75698	17948.84	15059.88	1742.42	ds-45/r-122-ps
75699	17954.36	15061.16	1742.29	ds-45/r-122-ps
75700	17984.56	15045.33	1741.43	ds-44/r-121-ps
75701	17990.06	15046.65	1741.19	ds-44/r-121-ps
75702	17971.65	15042.28	1741.96	r-165-ps
75703	17970.89	15041.20	1741.94	r-165-ps
75704	17969.80	15041.79	1742.03	r-165-ps
75705	17975.81	15021.14	1741.74	r-164-ps
75706	17976.86	15020.41	1741.72	r-164-ps
75707	17974.93	15019.98	1741.79	r-164-ps
75708	17967.72	15027.15	1741.95	p-72
75709	17882.39	15020.86	1744.48	r-138-ps
75710	17881.30	15021.71	1744.53	r-138-ps
75711	17881.53	15019.69	1744.50	r-138-ps
75712	17881.85	15014.19	1744.49	r-137-ps
75713	17880.94	15013.05	1744.46	r-137-ps
75714	17882.02	15012.18	1744.48	r-137-ps
75715	17882.94	14999.03	1744.39	r-136-ps

Point No.	Northing	Easting	Elevation	Description
75716	17884.03	14998.11	1744.34	r-136-ps
75717	17883.10	14996.78	1744.38	r-136-ps
75718	17883.46	14992.26	1744.34	r-135-ps
75719	17882.53	14990.80	1744.36	r-135-ps
75720	17883.60	14989.82	1744.32	r-135-ps
75721	17884.48	14976.36	1744.27	r-134-ps
75722	17885.51	14975.39	1744.20	r-134-ps
75723	17884.65	14974.06	1744.30	r-134-ps
75724	17884.98	14969.62	1744.28	r-133-ps
75725	17884.10	14968.45	1744.21	r-133-ps
75726	17885.15	14967.49	1744.24	r-133-ps
75727	17893.52	14966.30	1743.87	p-69
75728	17918.28	14983.19	1743.18	r-163-ps
75729	17920.21	14983.73	1743.18	r-163-ps
75730	17919.47	14982.55	1743.14	r-163-ps
75731	17924.26	14962.48	1742.97	r-162-ps
75732	17925.30	14961.74	1742.95	r-162-ps
75733	17923.34	14961.26	1743.00	r-162-ps
75734	17886.94	14952.58	1744.11	r-132-ps
75735	17886.01	14953.46	1744.17	r-132-ps
75736	17886.23	14951.44	1744.18	r-132-ps
75737	17886.56	14947.23	1744.14	r-131-ps
75738	17885.58	14946.13	1744.23	r-131-ps
75739	17886.64	14945.18	1744.12	r-131-ps
75740	17887.55	14930.88	1744.11	r-130-ps
75741	17888.55	14930.06	1744.04	r-130-ps
75742	17887.70	14928.84	1744.09	r-130-ps
75743	17887.93	14925.33	1744.13	r-129-ps
75744	17887.02	14923.96	1744.09	r-129-ps
75745	17888.16	14923.36	1744.14	r-129-ps
75746	17889.01	14908.16	1744.02	r-128-ps
75747	17889.88	14907.32	1743.99	r-128-ps
75748	17888.82	14906.02	1744.00	r-128-ps
75749	17882.52	14901.21	1744.22	r-127-ps
75750	17881.56	14898.83	1744.32	r-127-ps
75751	17878.53	14901.04	1744.36	r-127-ps
75752	17876.92	14905.33	1744.48	r-127
75753	17879.90	14906.82	1744.39	r-127
75754	17909.46	14934.92	1743.35	ds-42/r-120-ps
75755	17915.02	14936.27	1743.20	ds-42/r-120-ps

Point No.	Northing	Easting	Elevation	Description
75756	17913.28	14912.69	1743.22	ds-43/r-119-ps
75757	17918.29	14913.98	1743.10	ds-43/r-119-ps
75758	18000.85	14933.50	1740.51	r-118-ps
75759	18004.41	14934.51	1740.46	r-118-ps
75760	18026.45	14939.80	1739.95	toe-ps
75761	18052.27	14945.88	1752.62	r-166-ps
75762	18054.19	14946.24	1752.64	r-166-ps
75763	18055.24	14946.48	1752.43	top-mat-ps
75764	18052.37	14945.95	1752.62	top-ps
75765	18039.01	14952.31	1746.58	p-67
75766	18021.38	14961.79	1739.94	toe-ps
75767	18034.42	14976.73	1747.05	p-68
75768	18016.66	14983.84	1740.22	toe-ps
75769	18028.82	14997.99	1746.96	p-70
75770	18011.75	15005.85	1740.36	toe-ps
75771	18024.08	15019.11	1747.27	p-71
75772	18006.57	15027.66	1740.61	toe-ps
75773	18019.39	15041.89	1747.91	p-73
75774	18001.64	15049.57	1740.64	toe-ps
75775	18014.71	15065.64	1748.25	p-75
75776	17997.01	15071.36	1740.83	toe-ps
75777	18007.68	15086.61	1747.11	p-76
75778	17992.26	15093.28	1740.95	toe-ps
75779	18003.80	15107.20	1747.58	p-78
75780	17987.55	15115.39	1741.16	toe-ps
75781	17999.75	15129.28	1748.18	p-79
75782	17982.82	15137.28	1741.40	toe-ps
75783	17994.18	15152.74	1748.02	p-80
75784	17978.39	15159.16	1741.47	toe-ps
75785	17989.71	15173.38	1747.88	p-81
75786	17973.16	15180.88	1741.62	toe-ps
75787	17984.61	15197.28	1747.96	p-82
75788	17968.16	15202.73	1741.76	toe-ps
75789	17980.79	15217.20	1748.47	p-83
75790	17963.29	15224.52	1742.17	toe-ps
75791	17961.61	15235.46	1742.27	toe-ps
75792	17960.94	15244.06	1742.20	toe-ps
75793	17975.44	15232.44	1747.70	p-84
75794	17975.83	15240.86	1748.47	p-90
75795	17976.10	15256.40	1748.53	p-88

Point No.	Northing	Easting	Elevation	Description
75796	17961.45	15266.43	1742.06	toe-ps
75797	17975.83	15275.31	1748.08	p-87
75798	17963.53	15288.90	1742.04	toe-scrap
75799	17988.70	15289.24	1754.10	top-scrap
75800	17991.10	15289.20	1754.03	top-mat-scrap
75801	17990.44	15266.60	1754.06	top-mat-ps
75802	17987.71	15266.73	1754.03	top-ps
75803	17986.92	15244.27	1754.05	top-ps
75804	17987.43	15239.02	1754.03	top-ps
75805	17988.77	15230.74	1753.90	top-ps
75806	17993.87	15208.85	1753.84	top-ps
75807	17998.50	15186.99	1753.69	top-ps
75808	18003.49	15165.14	1753.71	top-ps
75809	18008.09	15143.28	1753.57	top-ps
75810	18013.08	15121.34	1753.59	top-ps
75811	18018.20	15099.42	1753.46	top-ps
75812	18022.97	15077.43	1753.36	top-ps
75813	18028.49	15055.66	1753.35	top-ps
75814	18033.14	15033.66	1753.32	top-ps
75815	18037.97	15011.71	1753.21	top-ps
75816	18042.95	14989.84	1753.09	top-ps
75817	18047.75	14968.02	1752.61	top-ps
75818	18050.00	14968.62	1752.69	top-mat-ps
75819	18045.27	14990.49	1753.08	top-mat-ps
75820	18039.88	15012.25	1753.20	top-mat-ps
75821	18035.40	15034.19	1753.27	top-mat-ps
75822	18030.37	15056.11	1753.35	top-mat-ps
75823	18025.18	15078.01	1753.45	top-mat-ps
75824	18020.69	15100.18	1753.54	top-mat-ps
75825	18015.50	15122.01	1753.53	top-mat-ps
75826	18010.86	15143.97	1753.54	top-mat-ps
75827	18006.30	15165.88	1753.66	top-mat-ps
75828	18001.01	15187.70	1753.64	top-mat-ps
75829	17996.39	15209.57	1753.76	top-mat-ps
75830	17991.63	15231.43	1753.86	top-mat-ps
75831	17989.99	15239.45	1754.00	top-mat-ps
75832	17989.54	15244.39	1754.12	top-mat-ps
75833	17654.17	15298.74	1751.10	7-10-09postchk
75834	17654.19	15298.77	1751.10	7-10-09prechk
75835	17864.79	15282.07	1745.18	r-ps

Point No.	Northing	Easting	Elevation	Description
75836	17863.85	15280.96	1745.18	r-ps
75837	17864.89	15279.98	1745.17	r-ps
75838	17865.69	15267.46	1745.19	r-ps
75839	17866.74	15266.46	1745.17	r-ps
75840	17865.81	15265.35	1745.19	r-ps
75841	17866.08	15259.76	1745.20	r-ps
75842	17865.21	15258.59	1745.19	r-ps
75843	17866.21	15257.63	1745.18	r-ps
75844	17868.34	15222.64	1745.21	r-ps
75845	17869.39	15221.54	1745.18	r-ps
75846	17868.52	15220.57	1745.24	r-ps
75847	17869.56	15203.55	1745.15	r-ps
75848	17870.55	15202.50	1745.08	r-ps
75849	17869.75	15201.48	1745.13	r-ps
75850	17654.19	15298.76	1751.05	7-10-09postchk
75851	17903.19	15266.45	1743.90	r-178-ps
75852	17905.54	15266.48	1743.85	r-178-ps
75853	17904.38	15265.38	1743.89	r-178-ps
75854	17904.07	15245.26	1743.85	r-177-ps
75855	17905.01	15244.06	1743.82	r-177-ps
75856	17902.77	15244.03	1743.88	r-177-ps
75857	17654.11	15298.69	1751.07	#NAME?
75858	18025.21	14549.60	1739.61	r-185-s
75859	18023.98	14550.58	1739.65	r-185-s
75860	18020.31	14550.53	1739.78	r-185-s
75861	18019.58	14549.52	1739.79	r-185-s
75862	18019.71	14546.04	1739.80	r-185-ps
75863	18025.32	14546.13	1739.64	r-185-ps
75864	18024.03	14541.11	1739.67	r-185-s
75865	18021.08	14540.61	1739.75	r-185-s
75866	18022.39	14540.19	1739.72	r-185-s
75867	17939.95	15243.89	1742.89	r-176-ps
75868	17942.21	15243.90	1742.79	r-176-ps
75869	17941.11	15242.75	1742.85	r-176-ps
75870	17941.21	15234.04	1742.86	r-175-ps
75871	17942.43	15233.01	1742.83	r-175-ps
75872	17940.25	15232.58	1742.90	r-175-ps
75873	17987.51	15239.05	1754.03	r-184-ps
75874	17987.24	15244.23	1754.11	r-184-ps
75875	17987.81	15246.39	1754.10	r-184-s

Point No.	Northing	Easting	Elevation	Description
75876	17989.21	15247.14	1754.10	r-184-s
75877	17992.11	15247.23	1752.00	r-184-s
75878	17988.55	15237.90	1754.06	r-184-s
75879	17990.59	15237.94	1753.97	r-184-s
75880	17992.73	15238.17	1751.93	r-184-s
75881	18022.08	15088.93	1753.46	r-183
75882	18000.19	15095.21	1744.53	r-182-ps
75883	17995.95	15094.12	1742.53	r-182-ps
75884	17654.10	15298.67	1751.08	cp-443-postchk-7-11-09
76000	17558.83	14492.98	1753.08	r-02-ps
76001	17558.92	14491.49	1753.06	r-02-s
76002	17557.78	14490.63	1753.09	r-02-s
76003	17555.03	14490.16	1753.19	r-02-s
76004	17558.64	14495.41	1753.06	r-02-s
76005	17557.36	14496.34	1753.07	r-02-s
76006	17551.49	14495.67	1753.34	r-02-s
76007	17550.17	14494.32	1753.68	r-02-s
76008	17550.34	14493.12	1753.76	r-02-s
76009	17551.51	14490.21	1753.55	r-02-s
76010	17550.56	14491.05	1753.73	r-02-s
76011	17549.79	14490.77	1753.98	r-02-s
76012	17548.30	14488.85	1754.67	r-02-s
76013	17546.95	14489.91	1755.02	r-02-s
76014	17542.34	14488.36	1757.57	r-02-s
76015	17541.99	14489.85	1757.52	r-02-s
76016	17545.11	14491.34	1755.94	r-02-ps
76017	17558.82	14493.04	1753.13	intlost-chk
76018	17654.24	15298.71	1751.07	7-9-09prechk
76019	17810.62	15278.16	1746.52	ds-40/r-99-ps
76020	17816.56	15278.50	1746.35	ds-40/r-99-ps
76021	17702.32	15182.26	1749.74	r-114-ps
76022	17697.41	15181.95	1749.85	r-114-ps
76023	17514.83	15182.17	1755.47	r-112
76024	17517.41	15159.13	1755.41	r-111
76025	17515.41	14981.34	1755.24	r-109
76026	17637.34	15068.59	1751.73	r-110
76027	18026.24	14939.70	1739.96	toe-ps
76028	18052.42	14945.97	1752.62	top-ps
76029	18055.01	14946.54	1752.53	top-mat-ps

DRAWINGS

The following Measurement Drawings, Topographic Survey Drawings and/or Cross-Section Drawings are attached.

1. **Final Phase II Interim & Phase IIIA Closure – HDPE Liner As-Built survey dated 12-10-2009.**

This drawing (Consisting of Three (3) Sheets) depicts the as-built information with regard to the installation of the Closure liner within a Portion of Phase II and all of Phase. It also contains information regarding the control network utilized and other pertinent survey data. Due to the scale at which this drawing was prepared, the intended correlation representation may not be entirely clear. In ALL cases the Survey Data herein provided takes precedence over any graphical representation(s).

PROJECT CONTROL

1" = 2000'

N. 20604.178
E. 12884.707
Z. 1712.150

N. 20179.430
E. 15875.166
Z. 1708.070

N. 18596.875
E. 12836.559
Z. 1744.940

CAMU
PROJECT

N. 18483.918
E. 19186.597
Z. 1738.580

N. 16453.138
E. 13045.817
Z. 1774.260

N. 16783.976
E. 14924.349
Z. 1774.540

FOUND AERIAL PHOTO CONTROL POINT

BENCHMARK

CLARK COUNTY BENCHMARK (6G22 2E4), BEING A RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE CENTERLINE ISLAND, 4' WEST OF THE NOSE IN THE MIDDLE OF SUNSET ROAD, WEST SIDE OF THE INTERSECTION OF BOULDER HIGHWAY AND SUNSET ROAD.

PUBLISHED ELEVATION - 505.816 METERS = 1659.50 FEET
NAVD 1988 DATUM - PUBLISHED (2003)

BASIS OF BEARINGS

SOUTH 85°36'52" WEST, BEING THE BEARING BETWEEN CLARK COUNTY GIS CONTROL POINTS "CC-GIS 848" AND "CC-GIS W51", AS SHOWN ON THE MAP IN FILE 88 OF SURVEYS, PAGE 53, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

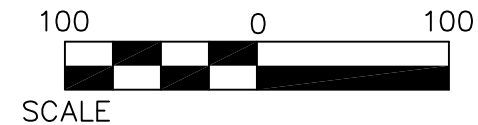
COORDINATE SYSTEM

THE COORDINATE SYSTEM AND ASSOCIATED BEARING ROTATION INFORMATION WAS ESTABLISHED AND PROVIDED BY PBS&J.

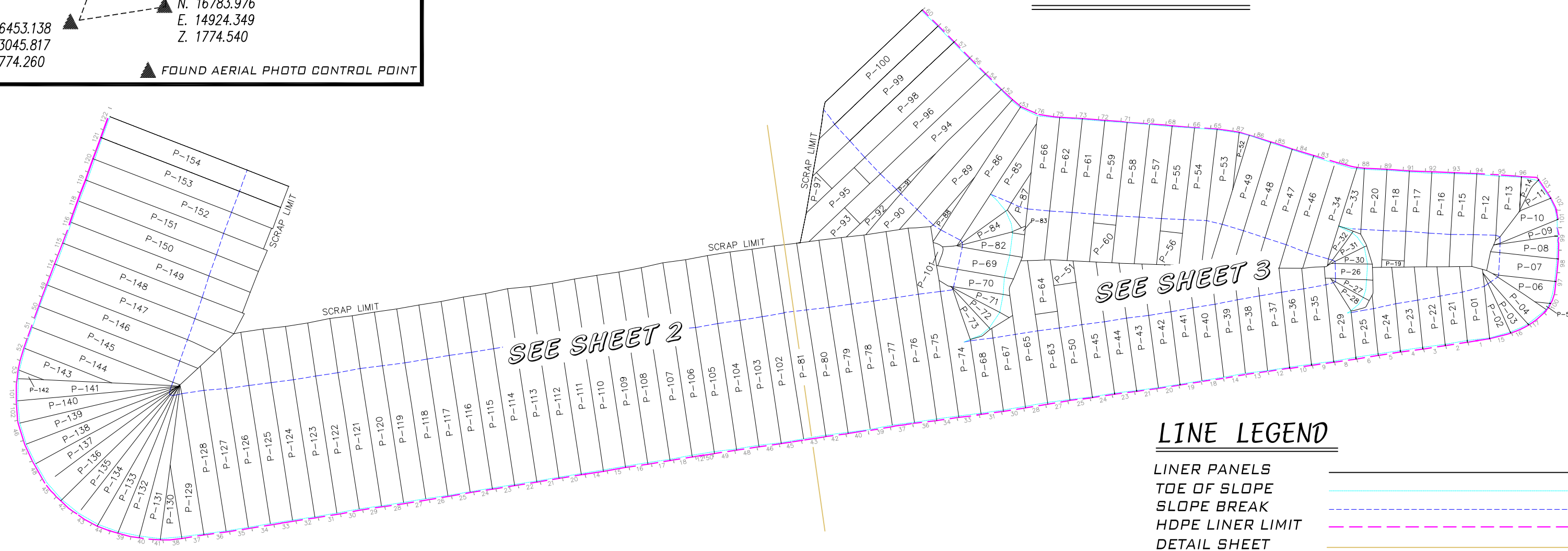
3 DIMENSIONAL SURFACE AREA

DURING FIELD COLLECTION (AS-BUILT) ACTIVITIES THE GEOMEMBRANE LINER AS DEPICTED HEREON WAS LOCATED IN BOTH HORIZONTAL AND VERTICAL PLANES. THE RESULTING 3 DIMENSIONAL COORDINATES WERE USED TO GENERATE A TRIANGULATED IRREGULAR NETWORK (TIN) AND SUBSEQUENTLY A DIGITAL TERRAIN MODEL (DTM) SURFACE. THE STATISTICS OF THIS DTM SURFACE WERE QUERIED IN AUTOCAD CIVIL 3D VERSION 2009 AND THE FOLLOWING 3D SURFACE AREA WAS DETERMINED:

FINAL GEOMEMBRANE 3D SURFACE AREA: 397,653 SQUARE FEET



KEY MAP



LINE LEGEND

LINER PANELS

TOE OF SLOPE

SLOPE BREAK

HDPE LINER LIMIT

DETAIL SHEET

NO.	REVISION	DATE
△		
△		
△		
△		

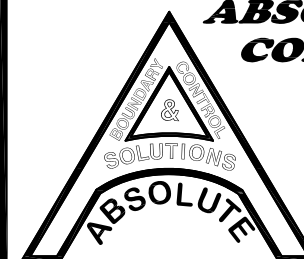
CORRECTIVE ACTION MANAGEMENT UNIT - (CAMU)

FINAL PHASE II INTERIM & PHASE IIIA

CLOSURE HDPE LINER AS-BUILT

FIELD SURVEY DATES: NOVEMBER 2009
FIELD CREW: C.G. / M.C. / T.G.

JOB # 2008-06-23-01



ABSOLUTE BOUNDARY & CONTROL SOLUTIONS

6440 SKY POINT DRIVE
SUITE 140 - PMB 321
LAS VEGAS, NV. 89131
(702) 953-7452
(702) 987-5943 FAX
WWW.AB-CS.COM

Date: December 10, 2009
Drawn: C. Givant
Checked: C. Givant
Task: 2009-12-09-01

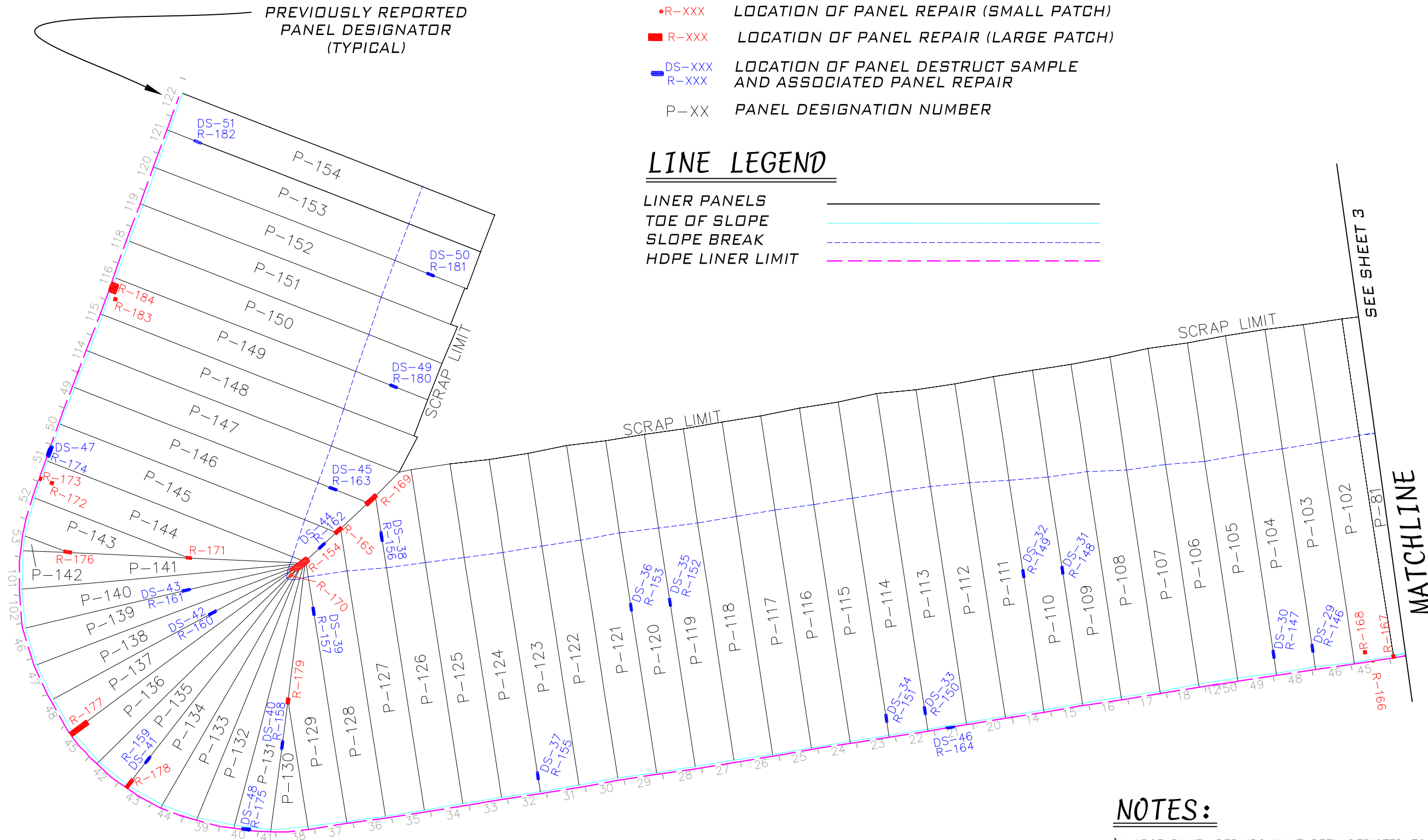
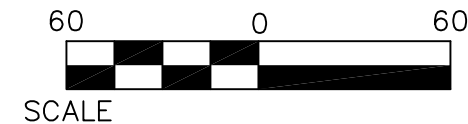
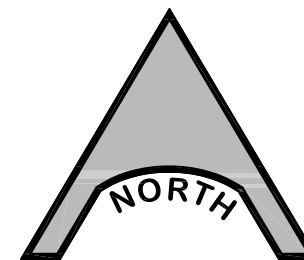
Sheet No. 1 of 3

SYMBOL LEGEND

- R-XXX LOCATION OF PANEL REPAIR (SMALL PATCH)
- R-XXX LOCATION OF PANEL REPAIR (LARGE PATCH)
- DS-XXX
R-XXX LOCATION OF PANEL DESTRUCT SAMPLE
AND ASSOCIATED PANEL REPAIR
- P-XX PANEL DESIGNATION NUMBER

LINE LEGEND

- LINER PANELS
- TOE OF SLOPE
- SLOPE BREAK
- HDPE LINER LIMIT



NOTES:

- 1) LARGE PANEL REPAIRS HAVE BEEN DEPICTED TO REPRESENT ACTUAL SIZE AND SHAPE

NO.	REVISION	DATE
△		
△		
△		
△		

CORRECTIVE ACTION MANAGEMENT UNIT - (CAMU) FINAL PHASE II INTERIM & PHASE IIIA CLOSURE HDPE LINER AS-BUILT

FIELD SURVEY DATES: NOVEMBER 2009
FIELD CREW: C.G. / M.C. / T.G.

JOB # 2008-06-23-01



ABSOLUTE BOUNDARY & CONTROL SOLUTIONS

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Task: 2009-12-09-01

Sheet No. 2 of 3

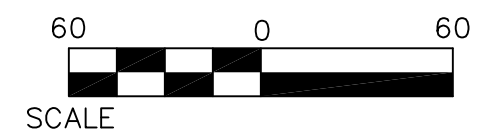
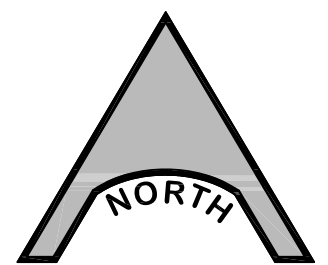
PREVIOUSLY REPORTED
PANEL DESIGNATOR
(TYPICAL)

SYMBOL LEGEND

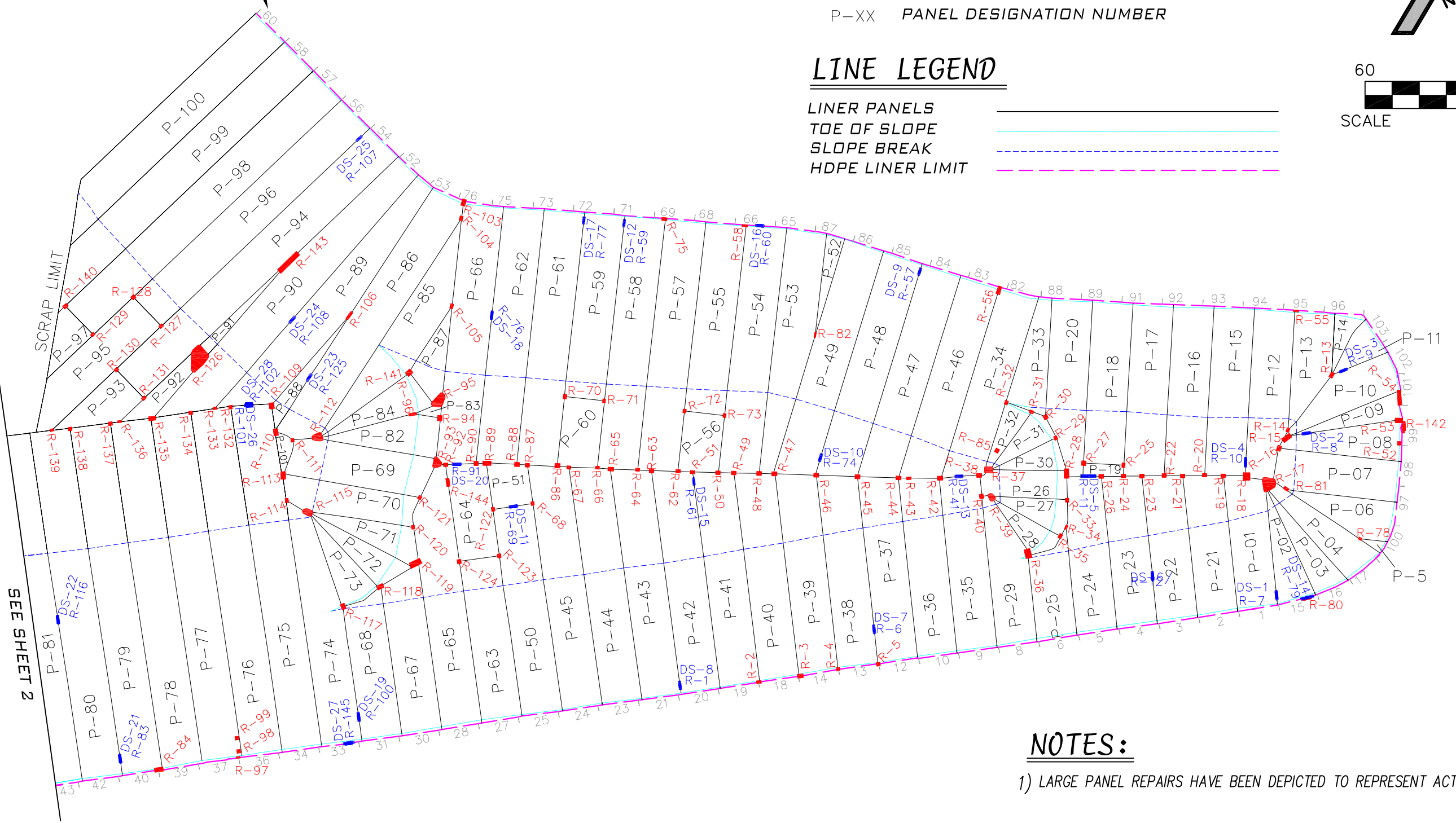
- R-XXX LOCATION OF PANEL REPAIR (SMALL PATCH)
- R-XXX LOCATION OF PANEL REPAIR (LARGE PATCH)
- DS-XXX R-XXX LOCATION OF PANEL DESTRUCT SAMPLE AND ASSOCIATED PANEL REPAIR
- P-XX PANEL DESIGNATION NUMBER

LINE LEGEND

- LINER PANELS
- TOE OF SLOPE
- SLOPE BREAK
- HDPE LINER LIMIT



MATCHLINE



NOTES:

- 1) LARGE PANEL REPAIRS HAVE BEEN DEPICTED TO REPRESENT ACTUAL SIZE AND SHAPE

NO.	REVISION	DATE
△		
△		
△		
△		

CORRECTIVE ACTION MANAGEMENT UNIT - (CAMU)
FINAL PHASE II INTERIM & PHASE IIIA
CLOSURE HDPE LINER AS-BUILT

FIELD SURVEY DATES: NOVEMBER 2009
FIELD CREW: C.G / M.C. / T.G.

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Drawn:	C. Givant
Checked:	C. Givant
Task:	2009-12-09-01
Sheet No.	3 of 3

ELECTRONIC FILES

The Compact Disk (CD) included in the pocket at the end of this report contains the following Directories and Files:

PDF Files (.pdf)

1. Report - (Phase II Interim & Phase IIIA Closure – HDPE Liner As-Built)
2. (Field Notes) - 2009-10-20 (PHII IC+PH IIIA Closure Liner ASB)

CAD Files (.dwg)

1. 2009-12-10 (Phase IIIA & II - IC Area HDPE Liner ASB)
2. 2009-12-10 (Phase IIIA & II - IC Area HDPE Liner ASB) - 2007

Coordinate Files (.csv)

The following files are Comma Separated Value Files in the following format:

Point Name,Northing,Easting,Elevation,Description

1. II Interim & IIIA Closure - Liner ASB

Raw Data Files (.dc)

The following files are Trimble Data Collector (.DC) files that contain the Raw Field Data.

1. 2009-10-20 (PHII IC+PH IIIA Closure Liner ASB)-MC