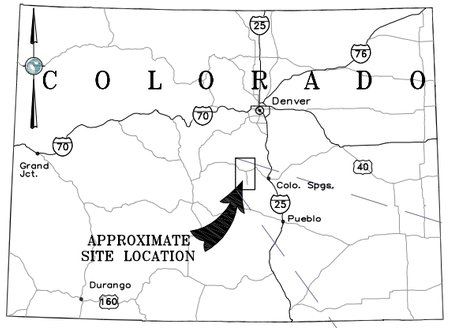
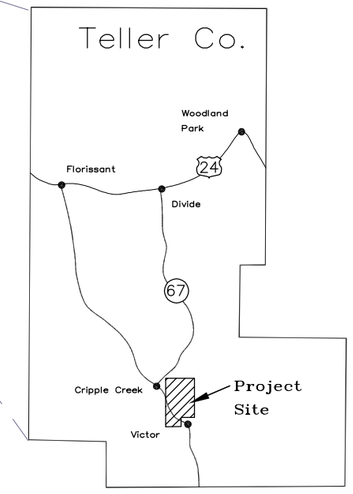
Issued for Construction Drawings

SQUAW GULCH
VALLEY LEACH FACILITY
RE-ISSUED FOR CONSTRUCTION
SEPTEMBER 18, 2014



LOCATION MAP
NTS



ABBREVIATIONS LEGEND	
ADS	ADVANCED DRAINAGE SYSTEM
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CPe	CORRUGATED POLYETHYLENE
CFS	CUBIC FEET PER SECOND
DIA.	DIAMETER
DCF	DRAIN COVER FILL
ea.	EACH
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
F.O.S.	FACTOR OF SAFETY
FT.	FEET
GCL	GEOSYNITHETIC CLAY LINER
HDPE	HIGH DENSITY POLYETHYLENE
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
LVSC	LOW VOLUME SOLUTION COLLECTION
NTS	NOT TO SCALE
OSA	ORE STORAGE AREA
O.D.	OUTSIDE DIAMETER
PCPE	PERFORATED CORRUGATED POLYETHYLENE
pcf	POUNDS PER CUBIC FOOT
psf	POUNDS PER SQUARE FOOT
PSSA	PREGNANT SOLUTION STORAGE AREA
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SLF	SOIL LINER FILL
SS	STAINLESS STEEL
TYP	TYPICAL

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PREPARED FOR:

CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PREPARED BY:

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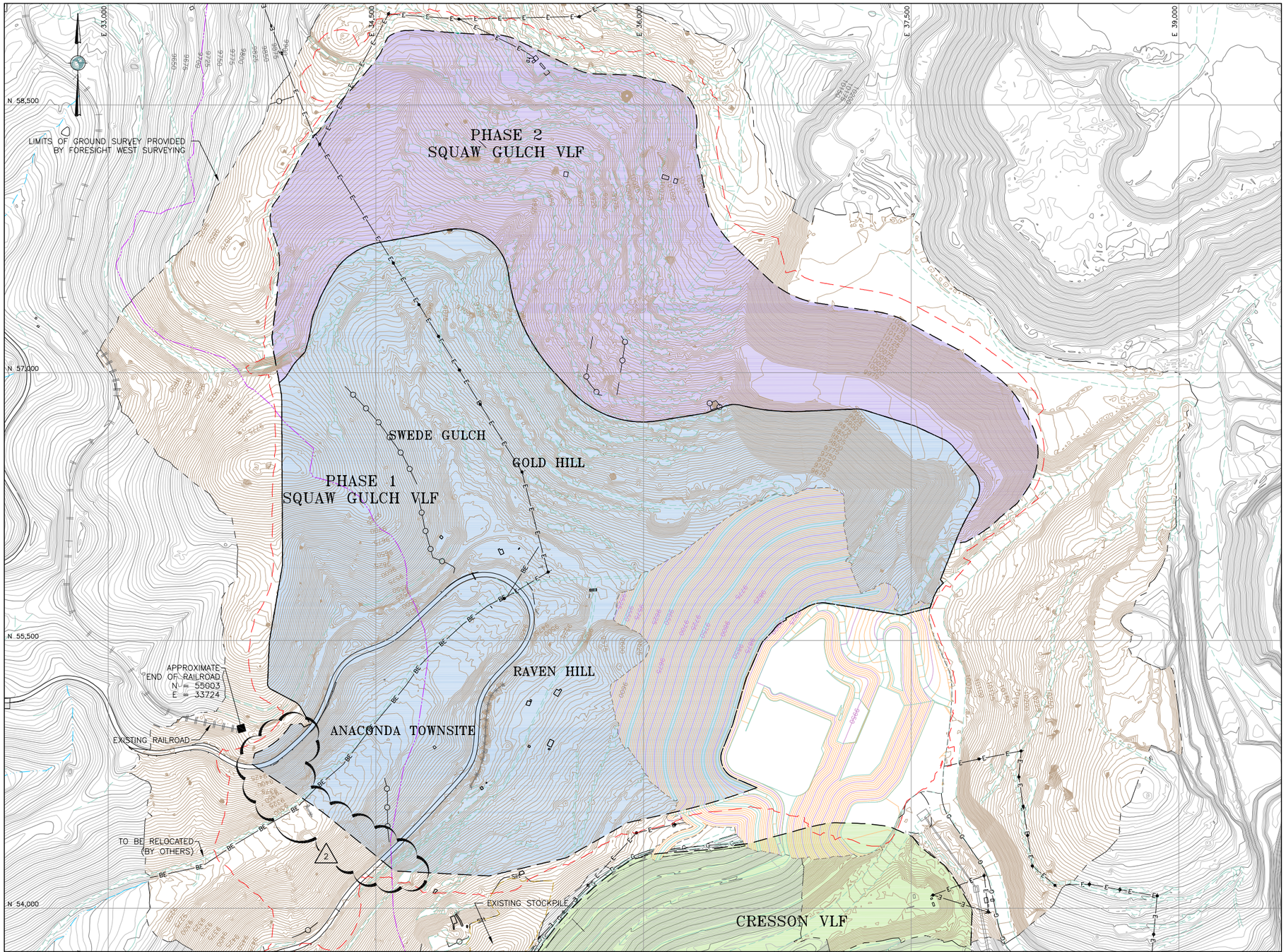
AUTOCAD FILENAME: 1125GC01



LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- HIGHWAY 67
- EXISTING ROADS
- EXISTING DRAINAGES
- DIATREME BOUNDARY
- EXISTING RAILROAD
- EXISTING POWER CABLE
- EXISTING UNDERGROUND POWER CABLE
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING CRIB WALL
- SQUAW GULCH VLF BOUNDARY (LIMITS OF LINER)
- SILT FENCE
- EXISTING BUILDING
- EXISTING CULVERT
- PHASE 1
- PHASE 2
- CRESSON VLF

NOTE:

1. FOR INFORMATION ONLY – TO BE CONFIRMED BY CONTRACTOR.
2. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:

- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	02/13/14	REVISED LINER LIMITS RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	08/15/13	REVISED HAUL ROAD RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

DISCLAIMER

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: EXISTING SITE CONDITIONS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	JNM

FILENAME: 74201125G | DRAWING No.: A020 | REV: 2

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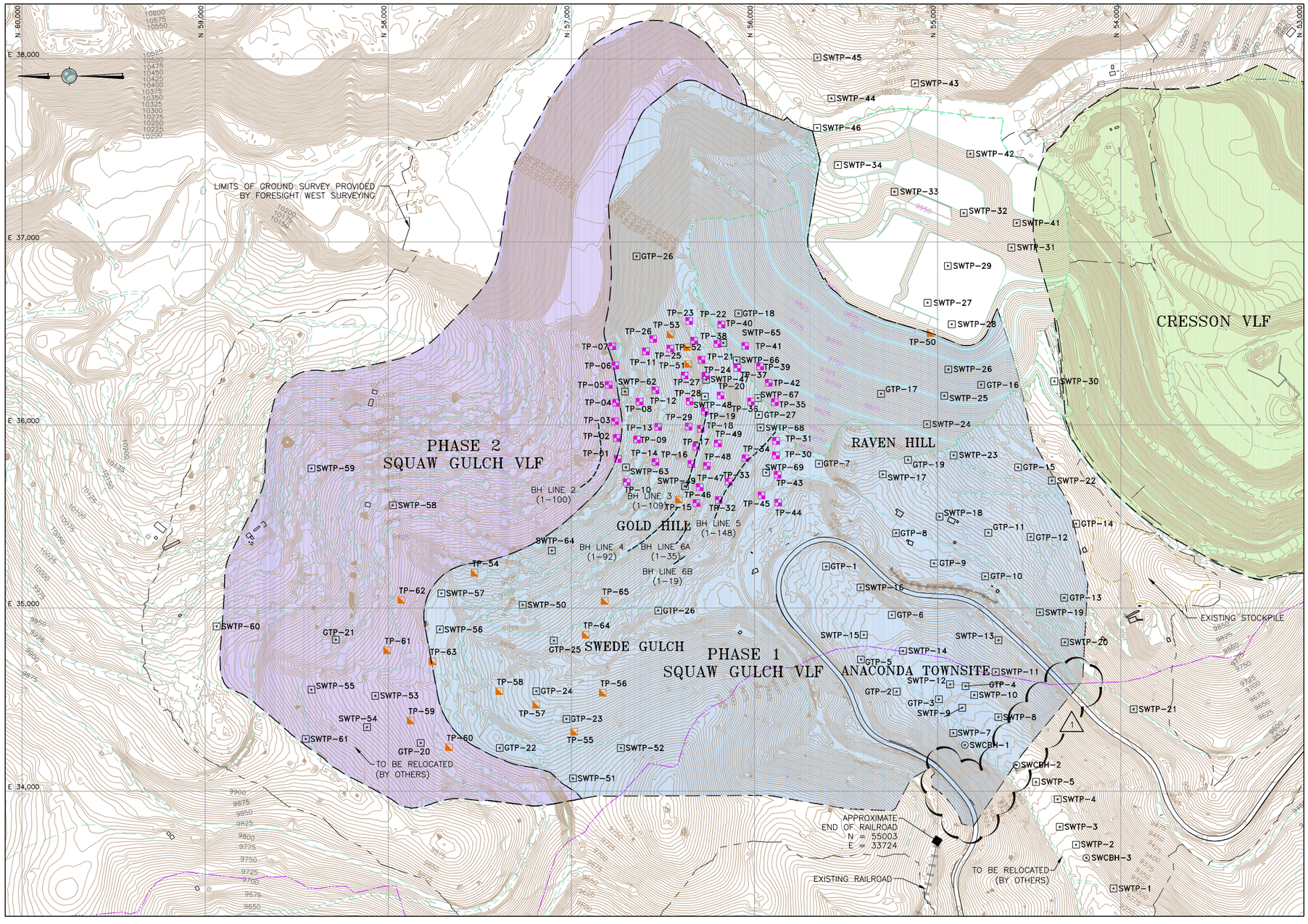

LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- HIGHWAY 67
- EXISTING ROADS
- EXISTING DRAINAGES
- DIATREME BOUNDARY
- EXISTING RAILROAD
- EXISTING CRIB WALL
- SQUAW GULCH VLF BOUNDARY (LIMITS OF LINER)
- EXISTING BUILDING
- GTP-18 GOLDER ASSOCIATES TEST PIT 2004
- SWTP-34 SMITH WILLIAMS TEST PIT JUNE 2007
- SWCBH-2 SMITH WILLIAMS BOREHOLE JUNE 2007
- TP-65 AMEC TEST PIT JULY 2010
- TP-45 AMEC TEST PIT JUNE 2010
- AMEC BOREHOLE LINE
- PHASE 1
- PHASE 2
- CRESSON VLF

NOTE:

1. FOR GEOTECHNICAL INVESTIGATION DATA, REFER TO APPENDIX A OF THE REPORT.
2. FOR INFORMATION ONLY – TO BE CONFIRMED BY CONTRACTOR.
3. REMOVED EXISTING UTILITIES FROM DRAWING.
4. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.
5. DRAWING IS A NEW ADDITION TO THE ISSUED FOR CONSTRUCTION SET.

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
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- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

300 0 300 600 FEET

1	02/13/14	REVISED LINER LIMITS/RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / DS

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: GEOTECHNICAL INVESTIGATION

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	JNM

FILENAME: 1125GM116 | DRAWING No.: A25 | REV: 1

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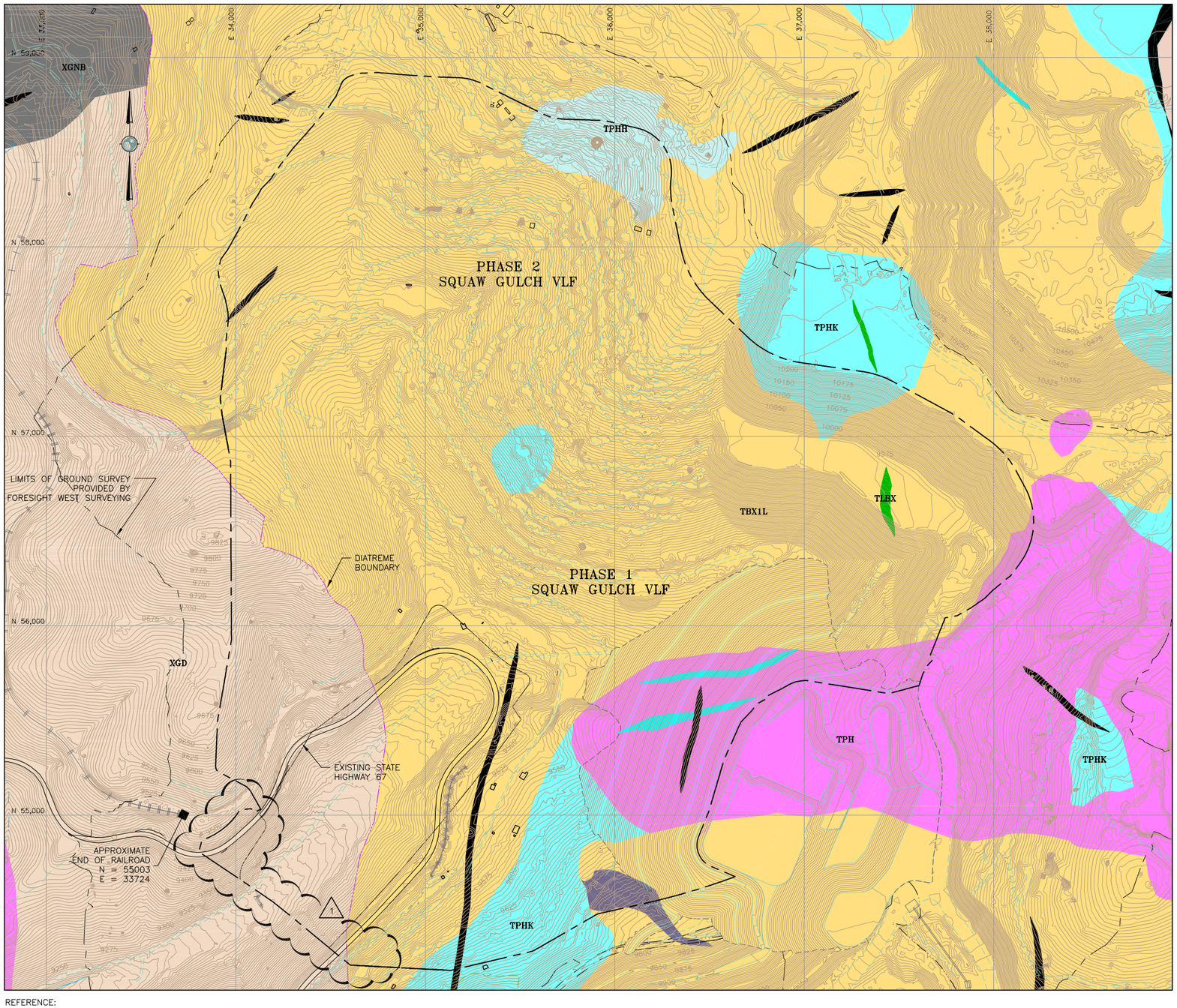

EXPLANATION

TERTIARY

PHONOLITES

- THBX — HYDROTHERMAL BRECCIA — LATE STAGE BRECCIA PIPES CONSISTING OF ANGULAR TO ROUNDED, HETEROLITHIC CLASTS IN A ROCK FLOUR MATRIX. TYPICALLY ASSOCIATED WITH PERVASIVE ARGILLIC ALTERATION.

LAMPROPHYRES

- TLB — BIOTITE BEARING — LAMPROPHYRE DIKE DARK–GREEN, FINE–TO MEDIUM–GRAINED PORPHYRY WITH BIOTITE PHENOCRYSTS IN A FINE–GRAINED GROUNDMASS CONSISTING OF ANALCIME, ALKALI FELDSPAR, BIOTITE, HORNBLENDE AND MINOR MAGNETITE.
- TLBX — LAMPROPHYRE BRECCIA — LATE–STAGE LAMPROPHYRIC BRECCIA PIPE CONSISTING OF BOTH MATRIX AND CLAST SUPPORTED HETEROLITHIC BRECCIA WITH ABUNDANT DARK–GREEN LAMPROPHYRE CLASTS AND VARIABLE LATE CARBONATE ALTERATION.

PHONOLITES

- TSY — TEPHRIPHONOLITE — GREY, MEDIUM–TO FINE–GRAINED INTRUSIVE COMPOSED OF ORTHOCLASE, PLAGIOCLASE, PYROXENE AND MINOR HORNBLENDE AND ANALCIME, COMMONLY OCCURING AS SMALL TO MEDIUM SIZED STOCKS.
- TPHD — PHONOLITE DIKE (SAME AS TPH)
- TPH — PHONOLITE — GRAY, BROWN OR PINK, APHANITIC PHONOLITE COMPOSED OF FINE–GRAINED ORTHOCLASE, NEPHELINE, MINOR AEGIRINE–AUGITE, AND ANALCIME.
- TPHK — FELDSPAR BEARING — PLAGIOCLASE PHONOLITE LIGHT–TO MEDIUM–GRAY, PORPHYRY WITH SUBHEDRAL TO EUHEDRAL, MEDIUM–TO COARSE–GRAINED PHENOCRYSTS OF ALKALI FELDSPAR WITH MINOR AMOUNTS OF FELDSPATHOIDS, GLASSY APATITE AND PYROXENES.
- TPHH — HORNBLENDE YROXENE BEARING — PLAGIOCLASE PHONOLITE GREY, MEDIUM–GRAINED PORPHYRY WITH EUHEDRAL TO SUBHEDRAL HORNBLENDE, AEGIRINE–AUGITE, AND ALKALI FELDSPAR PHENOCRYSTS.
- TPHB — BIOTITE BEARING — PLAGIOCLASE PHONOLITE GRAY, FINE–GRAINED PORPHYRY WITH EUHEDRAL BIOTITE AND ALKALI FELDSPAR PHENOCRYSTS.

BRECCIAS

- TBX1L — CRIPPLE CREEK LAPILLI BRECCIA — GENERALLY MASSIVE, STRUCTURELESS, MATRIX SUPPORTED BRECCIA THAT IS POORLY SORTED, TYPICAL OF DIATREMAL CRATER FILL BRECCIA. CLASTS ARE SUB–ANGULAR TO SUB–ROUNDED AND PRIMARILY COMPOSED OF VARIOUS PHONOLITE UNITS WITH OCCASIONAL PRECAMBRIAN FRAGMENTS. COMMONLY SHOWS VARYING DEGREES OF HYDROTHERMAL ALTERATION.

PRECAMBRIAN

- XGD — GRANODIORITE — MASSIVE TO FOLIATED, MEDIUM–TO COARSE–GRAINED, HORNBLENDE– BIOTITE GRANODIORITE. LOCALLY OCCURS AS AN AUGEN GNEISS. INCLUDES DIABASE DIKES AND SCHISTOSE LENSES.
- XGNB — BIOTITE GNEISS STRONGLY FOLIATED, BIOTITE–QUARTZ–PLAGIOCLASE GNEISS TO SCHIST, WHICH IS LOCALLY MIGMATITIC.

NOTE:

1. GEOLOGY MAP WAS PROVIDED BY CC&V TO AMEC ON JULY 20, 2007 IN A DRAWING CALLED INTERPRETIVE GEOLOGICAL MAP OF THE CRIPPLE CREEK MINING DISTRICT.
2. REMOVED EXISTING UTILITIES FROM DRAWING.
3. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.

LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- STATE HIGHWAY 67
- EXISTING ROADS
- EXISTING DRAINAGES
- EXISTING RAILROAD
- SQUAW GULCH VLF BOUNDARY (LIMITS OF LINER)
- DIATREME BOUNDARY
- PSSA LIMITS
- EXISTING BUILDING

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:

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- VLF2 TOPO EXPANSION 8–05–11.DWG (RECV AUGUST 9, 2011)
- 09028–COMOSITE–TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

300 0 300 600 FEET

1	02/13/14	LIMITS OF LINER/RE–ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SITE GEOLOGY MAP

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME: 1125GM03 | DRAWING No.: A40 | REV: 1

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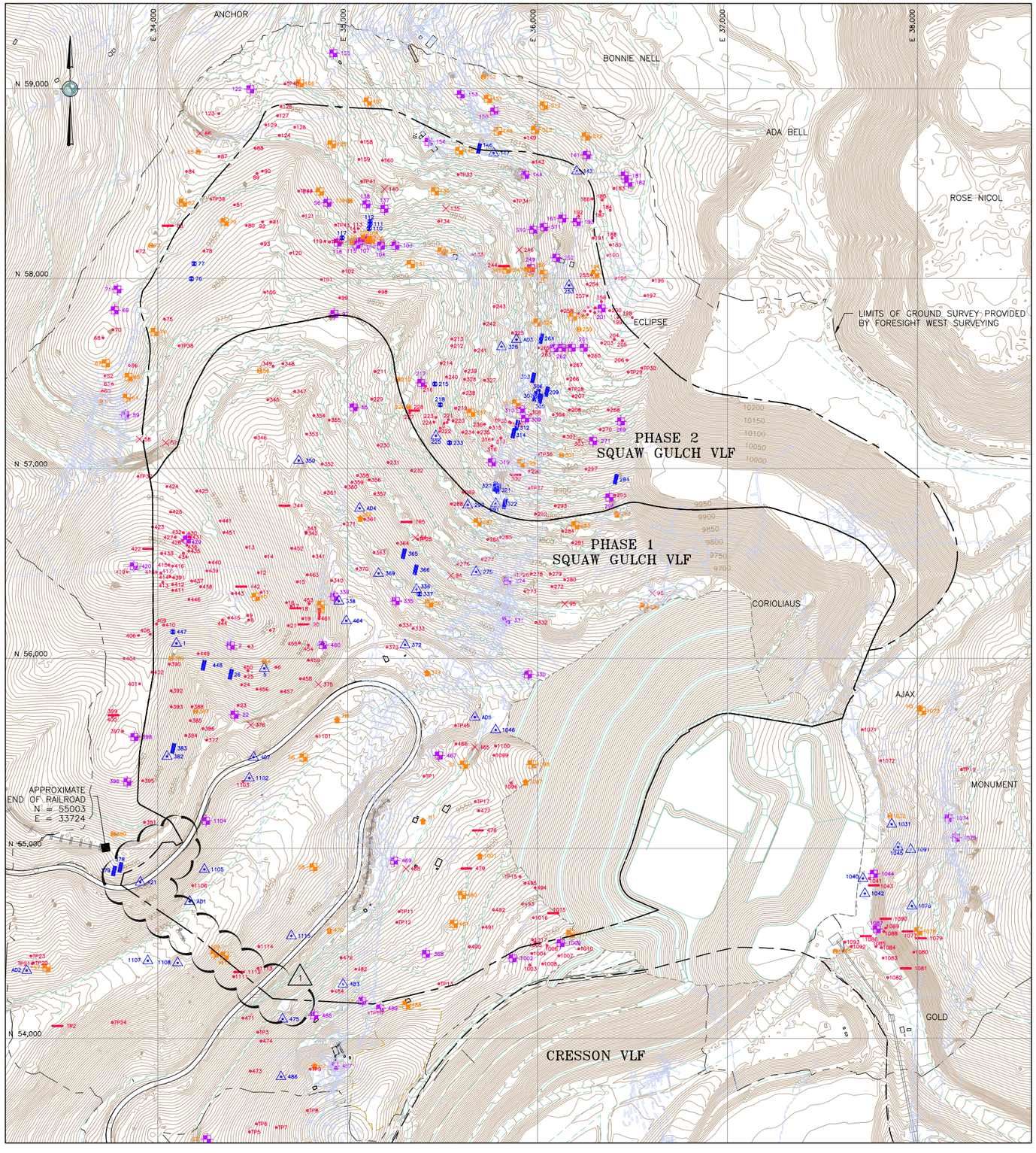

LEGEND:

- EXISTING GROUND CONTOUR AND EL, FEET (AERIAL SURVEY)
- EXISTING GROUND CONTOUR AND EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- PAVED ROAD
- EXISTING UNPAVED ROADS
- UNDERGROUND WORKINGS
- PROPOSED LIMITS OF SQUAW GULCH
- EXISTING PHASE LIMITS
- EXISTING BUILDING
- DEEP OR TIMBERED SHAFT
- OPEN OR COLLAPSED ADIT
- TEST PIT OR CONICAL SURFACE WORKING
- DEPRESSION
- ROAD CUT, SAMPLE LOCATION, OR FEATURE OF INTEREST
- COLLAPSED SHAFT
- TRENCH
- SLOT MINE OR OPEN/COLLAPSED STOPE
- SHALLOW SHAFT OR SURFACE WORKING
- HISTORIC BUILDING REMAINS

NOTE:

1. FOR INFORMATION ONLY, CONTRACTOR TO VERIFY. SEE DRAWING A65.
2. REMOVED EXISTING UTILITIES FROM DRAWING.
3. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.

300 0 300 600 FEET

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:

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0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: HISTORIC UNDERGROUND WORKINGS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME: 1125GM04 | DRAWING No.: A60 | REV: 1

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Surface Disturbance ID	Date Observed Visually	Northing (6)	Easting	Type of Disturbance	Timbers Present	Development Rock Pile Size	Comments
AD-1	5/3/2007	54719.86	34167.53	Collapsed Adit		20'x30'	Collapsed Adit, stone lined wall (?)
AD-2	5/3/2007	54357.27	33309.16	Open Adit		minimal	Open Adit in bedrock, unsupported, trends N
AD-3	5/8/2007	57678.02	35888.56	Collapsed Adit	x	30'x40'	Collapsed Adit in bedrock, few degraded timbers, trends NE
AD-4	5/9/2007	56790.21	35062.60	Capped Adit		large	Adit capped with metal culvert, trending east, (?)
AD-5	5/9/2007	55690.16	35669.50	Collapsed Adit	x	large	Collapsed Adit in bedrock, few degraded timbers, ore chute attached, trends E
AL-UN-1	11/7/2006	59060.75	35714.14	Open Shaft/SW		Ext. 20'	8' x 4' wide, ~25' deep, 6' to BR, several TP down slope
AL-UN-2	11/7/2006	59185.37	34924.15	Open Shaft???	X	100' x 100'	Shaft not visible – only buildings and WR visible
Anaconda?	11/13/2006	57027.02	35911.89	TP/CS???			Looks like small TP. In location of Anaconda shaft.
A-UN-1	11/13/2006	57476.65	35976.83	Slot Mine/Open Stope	X		10' x 30', trends S, 2' to BR
A-UN-10	11/10/2006	57171.12	35464.24	Collapsed Adit/Shaft		Ext. 30'	15' dia., 7' deep
A-UN-11	11/9/2006	57672.74	36447.01	TP			2 Small TP
A-UN-12	11/9/2006	57569.56	36471.18	TP			Small TP
A-UN-13	11/9/2006	57380.25	36186.48	Shaft/Slot Mine			2' – 4' wide, trends SSW
A-UN-14	11/10/2006	57761.14	35718.93	TP/SM			TP/SM
A-UN-15	11/10/2006	57852.42	35770.91	TP/SM			TP/SM
A-UN-16	11/10/2006	57829.45	36127.74	TP/SM		Ext. 10'	TP/SM
A-UN-17	11/10/2006	57732.62	36218.47	Open Shaft/SM		Ext. 15'	7' x 4' x 15' deep, 6' to BR
A-UN-18	11/10/2006	57635.52	36242.63	Open Shafts	Boards		4 closely spaced shafts between A-UN-18 and A-UN-19, 1 timbered. Width from 2' x 2' to 4' x 6'
A-UN-19	11/10/2006	57635.13	36128.45	Open Shafts	Boards		4 closely spaced shafts between A-UN-18 and A-UN-19, 1 timbered. Width from 2' x 2' to 4' x 6'
A-UN-20	11/10/2006	57616.61	36047.66	TP/SM			TP/SM
A-UN-21	11/10/2006	57683.28	36018.89	Slot Mine			
A-UN-22	11/10/2006	57634.65	36004.79	TP			TP
A-UN-23	11/13/2006	56637.93	35803.92	TP/SM			Group of 3 – 5 TP/SM
A-UN-24	11/13/2006	56625.53	35737.39	TP			Small TP
A-UN-25	11/13/2006	56716.45	35684.71	CS/TP		Ext. 5' – 10'	2 small TP or backfilled shafts
A-UN-26	11/13/2006	56813.09	35546.42	TP			TP
A-UN-27	11/13/2006	56874.08	35608.02	SM??		10' dia.	Small WR pile, no obvious source
A-UN-28	11/13/2006	56760.11	35988.97	TP/SM			Cluster of 5 TP/SM, largest 8' x 8' x 7' deep
A-UN-29	11/13/2006	56984.68	35954.86	TP			Small TP
A-UN-30	11/13/2006	56966.20	35883.56	Trench			15' x 4' x 2' deep, trends W
A-UN-31	11/13/2006	57070.29	36125.80	Open Shaft/SM		Ext. 15'	4' x 5' x 20' deep, 6' to BR
A-UN-32	11/13/2006	57167.50	36139.71	TP			3 TP
A-UN-33	11/13/2006	57282.68	36082.20	TP			TP
A-UN-34	11/13/2006	57391.71	36000.94	Slot Mine			45' x 3' – 6' wide, trends W, joins A-UN-5
A-UN-35	11/13/2006	57282.26	35963.29	TP/SM			2 large TP/SM
A-UN-36	11/13/2006	57263.96	35934.81	Open Shaft	X	20' x 20'	2' x 4' wide
A-UN-37	11/13/2006	57312.46	35910.84	Open Shaft	X	?	2 shafts, ~2' x 4' wide
A-UN-38	11/13/2006	57342.73	35886.94	CS	X	?	CS or possibly old building
A-UN-39	11/13/2006	57227.34	35892.13	Slot Mine			10' x 20' x 15' deep, may be partially collapsed
A-UN-4	11/13/2006	57379.52	35986.71	Slot Mine/Open Stope			Trends SW
A-UN-40	11/13/2006	57239.35	35858.80	TP			TP
A-UN-41	11/13/2006	57214.68	35749.48	TP/SM			4 TP/SM
A-UN-42	11/13/2006	57153.99	35763.98	TP/SM			3 TP/SM
A-UN-43	11/13/2006	57160.23	35806.75	TP			2 TP
A-UN-44	11/13/2006	57117.55	35759.34	TP			2 TP
A-UN-45	11/13/2006	57032.53	35759.66	Open Shaft		20' x 20'	3' x 3' wide, 2' to BR
A-UN-46	11/13/2006	56892.99	35793.46	Slot Mine/Open Stope	X		4' x 20' wide, 2' to BR
A-UN-5	11/13/2006	57367.51	36015.28	Slot Mine	X		40' x 1' – 5' wide, trends NNE, 4' to BR
A-UN-7	11/13/2006	57184.79	35873.25	Slot Mine	X		Giant slot (100' long, 3' – 20' wide, very deep), trends S
A-UN-7	11/13/2006	56905.04	35774.40	Slot Mine	X		S end of Anaconda, several side drifts visible
A-UN-8	11/13/2006	56807.37	35632.05	CS/Collapsed Adit		Ext. 10'	Small building remains, CS, or collapsed adit
A-UN-9	11/13/2006	56813.95	35779.50	Trench/Collapsed Adit		15' x 25'	10' x 25' x 5' – 6' deep
A-UN-9	11/13/2006	56814.12	35827.07	TP/SM/Collapsed Drift			10' x 20', trends N/S
BB-UN-1	11/17/2006	55351.56	34448.16	TP/SM		Ext. 10'	8' dia., 3' deep
Bluebell	11/17/2006	55369.90	34481.39	Adit		30' x 15'	Trends N, 5' x 5' wide
Bluebell	11/17/2006	55479.29	34504.78	Adit			Capped with steel grate, trends NNW
Buchanan	11/17/2006	55158.80	38164.12	???		2 piles 15'x15' ea.	WR from Buchanan shaft (directly uphill, outside leach pad)
Burch	11/16/2006	55488.92	35479.93	Open Shaft	Boards	Large – 50' x 100'	Half capped with concrete/steel grate, 3' x 6' wide
Chicken Hawk	11/16/2006	53853.30	34929.30	Open Shaft	Boards	Large – 300' x 300'	Buildings/head frame present. Capped with steel grate.
CH-UN-12	11/16/2006	54363.83	35041.62	TP/SM			5' x 8' x 3' deep
CH-UN-13	11/16/2006	54247.98	34918.36	TP			TP
CH-UN-14	11/16/2006	54120.12	34823.67	Open Shaft	X	50' x 20'	4' x 5' wide, 4' to BR
CH-UN-15	11/16/2006	53797.60	34648.84	Open Stope/Adit	X	20' x 30'	Smaller pits on either side
CH-UN-16	11/16/2006	54157.81	35170.82	Open Shaft		Relatively Small	Partially collapsed, 4' x 4' wide, at least 15' to BR, WR recently disturbed
CH-UN-8	11/16/2006	54284.64	34975.31	Collapsed Adit	X	30' x 40'	Trends SE
CH-UN-9	11/16/2006	54101.26	34657.25	Open Shaft	X	50' x 50'	Trends SE, 3' – 4' to BR
Crayton	11/16/2006	54684.08	36258.29	Open Shaft		20' x 40'	Capped with 10' x 10' steel grate, partially collapsed, located in cone 20' dia., x 5' – 7' deep
C-UN-10	11/13/2006	56846.55	36378.71	Open Shaft	X	30' x 50' (est.)	Large shaft, 7' to BR, at least 5' x 5' wide
C-UN-4	11/10/2006	57247.56	36439.08	Open Shaft	Boards		2' x 4' wide
C-UN-5	11/10/2006	57204.67	36329.83	TP/SM			TP/SM
C-UN-6	11/10/2006	57143.81	36292.00	Open Shaft	Boards		2' x 4' wide
C-UN-7	11/13/2006	56761.65	36417.10	Wall			Old rock wall
C-UN-8	11/13/2006	56943.85	36411.64	Slot Mine/Collapsed Stope	X		Trends NE, 6' to BR, 4' wide, 20' long, trends NE
C-UN-9	11/13/2006	56858.78	36407.22	TP/SM		Ext. 10'	4' to BR
DJ-UN-13	11/16/2006	55107.90	37545.88	CS???	X	40' x 40'	Shaft not visible – only buildings and WR visible
DJ-UN-14	11/16/2006	55127.32	37864.53	Collapsed Adit	X		Trends E
DJ-UN-15	11/17/2006	56266.01	37046.83	SM			In general location of historical adit, 15' dia., 6' deep
DJ-UN-16	11/17/2006	55323.28	36669.78	TP/SM			15' dia., 7' deep
DJ-UN-17	11/17/2006	55377.70	36602.98	TP/SM			15' dia., 8' deep
DJ-UN-18	11/17/2006	55670.16	36854.01	CS/SM			12' dia., 6' deep
DJ-UN-19	11/17/2006	55670.35	36911.09	TP/SM			5' x 15' x 3' – 4' deep
DJ-UN-2	11/17/2006	55991.29	36657.78	Collapsed Adit/Building	X		
DJ-UN-20	11/17/2006	55652.13	36911.16	TP/SM			5' x 10' x 2' – 3' deep
DJ-UN-21	11/17/2006	55591.12	36844.80	Open Shaft/SM			BR at 7', 15' deep, 15' dia., at top, 5' x 4' wide at base
DJ-UN-22	11/17/2006	55554.49	36792.61	Trench/Collapsed Drift/SM	X		TP/SM 15' dia., 6' deep. Adjoining trench or collapsed drift trends SSE, 25' x 10' x at least 10' deep
DJ-UN-23	11/17/2006	55420.52	36683.69	TP/SM			10' x 8' x 5' deep
DJ-UN-24	11/17/2006	55533.24	37596.61	TP/SM			8' dia., 4' deep
DJ-UN-25	11/17/2006	55624.75	37710.44	TP/SM		Ext. 10' – 15'	10' dia., 5' deep
DJ-UN-26	11/17/2006	55461.11	37806.21	TP			Small TP
DJ-UN-27	11/17/2006	55723.11	38024.02	CS	X		Buildings present, WR recently disturbed
DJ-UN-9	11/16/2006	55156.95	37659.86	Adit	X		WR recently disturbed, trends E
Dr. Jackpot	11/17/2006	55207.60	36589.34	Open Shaft			10' x 10' concrete cap
E. Porter	11/7/2006	58545.37	35934.83	Open Shaft		50' x 100'	Huge hole/partially collapsed shaft, 40' dia., at least 15' to BR
GG-UN-10	11/9/2006	60143.17	37731.53	Open Shaft		Ext. 30'	3' – 4' dia, 6'– 7' to BR
GG-UN-11	11/9/2006	58541.22	36458.07	TP			Group of small TP
GG-UN-12	11/9/2006	58504.86	36477.22	TP			Small TP
GG-UN-13	11/9/2006	58474.22	36401.23	TP			Small TP
GG-UN-14	11/9/2006	58358.76	36382.63	TP			15' dia, 8' deep
GG-UN-15	11/9/2006	58413.25	36339.63	TP			3 small TP
GG-UN-16	11/9/2006	58419.10	36287.29	TP			Small TP
GG-UN-17	11/9/2006	58352.45	36330.35	TP			Small TP
GG-UN-18	11/9/2006	58213.06	36392.68	TP			Large TP, channel on south side
GG-UN-19	11/9/2006	58176.56	36383.31	TP			Small TP
GG-UN-20	11/9/2006	58121.84	36369.25	TP			Group of small TP
GG-UN-21	11/9/2006	58212.65	36292.80	Open Shaft	X	Ext. 30'	Partially collapsed
GG-UN-22	11/9/2006	58327.76	36216.28	TP/SM/CS		Ext. 20'	Large TP, SM, or small CS
GG-UN-23	11/9/2006	58297.34	36206.89	TP			2 Small TP
GG-UN-24	11/9/2006	58024.44	36303.01	TP			2 TP, 10' dia., 4' deep
GG-UN-25	11/9/2006	58000.53	36412.51	TP			Small TP
GG-UN-26	11/9/2006	57989.12	36607.56	TP			2 TP, 8' dia., 3' deep
GG-UN-27	11/9/2006	57910.02	36565.04	TP			10' dia., 5' deep
GG-UN-28	11/9/2006	57794.40	36498.88	TP/SM		Ext. 15'	10' dia., 3' deep
GG-UN-29	11/9/2006	57794.09	36422.78	Open Shaft	X	At least 20' x 30'	Partially collapsed
GG-UN-30	11/9/2006	57830.36	36379.85	TP/CS/SM			Continuous line of deep TP, SM, and/or collapsed shafts between GG-UN-29 and GG-UN-30
GG-UN-31	11/9/2006	57842.39	36336.97	TP			Small TP
GG-UN-32	11/9/2006	57799.30	36184.93	TP			TP
GG-UN-33	11/9/2006	57660.16	36337.67	TP/SM			15' dia, 4' deep
GG-UN-34	11/9/2006	57678.64	36404.18	TP			TP
GG-UN-35	11/10/2006	58047.01	35836.79	SM/CS???		Ext. 10'	15' dia., 8' deep
GG-UN-36	11/10/2006	58047.36	35941.44	Open Shaft/SM	X		3' x 4' wide, 7' to BR
GG-UN-37	11/10/2006	58053.53	35955.68	Open Shaft/Stope/SM			2' x 2' wide
GG-UN-38	11/10/2006	58053.58	35965.18	Open Shaft	X		5' x 2' wide
GG-UN-39	11/10/2006	58047.50	35974.74	Open Shaft/Stope/SM			3' x 3' wide
GG-UN-40	11/10/2006	58023.42	36031.90	TP/Small CS, SM			
GG-UN-41	11/10/2006	57963.21	36165.29	Adit	X		Trends NE
GG-UN-42	11/10/2006	57969.64	36260.40	TP/SM			TP/SM
GG-UN-43	11/10/2006	58018.27	36284.02	TP/SM			TP/SM
GG-UN-44	11/10/2006	57878.78	36336.86	TP/SM		Ext. 10'	TP/SM
GG-UN-45	11/10/2006	57908.90	36260.63	TP			TP
GG-UN-46	11/13/2006	57768.23	35999.55	CS???		25' x 25'	No obvious shaft or source of WR
GG-UN-47	11/13/2006	57713.08	35866.56	TP/SM			10' x 15' x 4' deep
GG-UN-7	11/13/2006	57640.03	35809.74	Collapsed Adit???	X	50' x 25'	No obvious shaft or source of WR. Rail lines present.
GG-UN-8	11/7/2006	58315.30	36130.71	Open Shaft	X	?	4' x 3' wide, 6' to BR
GG-UN-8	11/10/2006	58065.19	35822.45	Trench			15' x 25' x 4' deep, trends W
GG-UN-9	11/9/2006	59922.72	37247.24	Open Shaft		Ext. 30'	3' – 4' dia, 1'– 2' to BR
Gilmore	11/16/2006	54878.59	36309.91	CS???	X		Timbers in pit 12' x 12' x 6' deep
Golden Wedge	11/16/2006	54528.30	36824.96	Shaft	X	40' x 40'	Buildings/head frame present. WR recently disturbed.
Grace Greenwood	11/10/2006	58108.68	36098.18	Open Shaft	X	large	Head frame present
G-UN-1	11/16/2006	55005.98	37898.30	Trench/Collapsed Adit		20' x 20'	Trends ESE, 35' x 10' x 5' deep
G-UN-1	11/17/2006	54994.09	37964.94	Trench/Collapsed Adit			40' x 10' x 4' deep, trends WNW
G-UN-2	11/16/2006	54841.36	37713.37	Collapsed Adit/Slot Mine		10' x 15'	Trends ESE, 5' x 10' x 4' deep
G-UN-2	11/17/2006	54696.53	37970.81	Adit	X	30' x 30'	Trends E
G-UN-3	11/16/2006	54841.47	37746.68	TP/SM		Ext. 10'	6' dia., 3' deep
G-UN-4	11/16/2006	54762.40	37723.20	Adit	X	40' x 50'	Trends ESE
G-UN-5	11/16/2006	54805.10	37770.60	Trench			Trends E, 25' x 8' x 4' deep
G-UN-6	11/16/2006	54865.82	37770.38	Open Shaft		Ext. 15'	Partially collapsed, 6' x 4' wide
GW-UN-1	11/16/2006	54723.21	36971.69	CS/SM???	X		Building foundations nearby, hole 10' dia., 4' deep
GW-UN-4	11/16/2006	54674.58	36971.90	CS/SM			15' dia., 6' deep
H-1	5/2/2007	55137.01	35396.67	Building Structure		–	House
H-2	5/2/2007	53846.68	34825.74	Building Structure		–	Small degraded structure 25'x10'
H-3	5/3/2007	55177.91	36276.49	Building Structure		–	Metal frame approximately 25' tall
H-4	5/3/2007	55401.84	36393.49	Building Structure		–	10'x20' degraded stone structure
H-5	5/3/2007	55732.44	38010.59	Building Structure		–	Collapsed wooden structure (shaft remnants?)
H-6	5/3/2007	55669.80	34943.90	Building Structure		–	20'x20' Stone Foundation
Howard	11/14/2006	56200.81	35834.07	Open Shaft			3' x 3' steel and concrete cap
H-UN-10	11/13/2006	56522.22	35709.20	TP			10' dia., 6' deep, trench extends E from TP
H-UN-11	11/13/2006	56444.20	35966.37	TP			TP
H-UN-12	11/13/2006	56444.57	36066.26	TP/SM		Ext. 10'	8' dia., 6' deep
H-UN-13	11/13/2006	56414.50	36142.47	TP			Small TP
H-UN-14	11/14/2006	56189.25	35991.08	TP/SM		Ext. 10'	15' dia., 5' deep
H-UN-15	11/14/2006	56156.50	35344.26	TP/SM			40' x 5' – 20', 8' deep max., trends NE
H-UN-16	11/14/2006	56174.45	35277.61	TP/SM		Ext. 10'	10' dia., 6' deep
H-UN-17	11/14/2006	56301.92	35253.35	Open Shaft	X	50' x 30'	Major shaft, capped with 4' x 6' steel grate, appears ~30' deep
H-UN-18	11/14/2006	56363.02	35362.56	Collapsed Adit/CS???	X		
H-UN-19	11/14/2006	56338.77	35376.92	Trench/Collapsed Drift			20' x 8' x 5' deep
H-UN-20	11/14/2006	56290.42	35429.40	SM/CS???	X		6' x 6' x 2' deep
H-UN-21	11/14/2006	56071.27	35301.79	Adit			Capped with steel grate, trends N
H-UN-22	11/14/2006	56058.80	35206.69	TP/SM			TP/SM, steel in base
H-UN-23	11/14/2006	55925.99	35416.47	Building			Old building foundation
H-UN-5	11/13/2006	56377.82	36076.01	TP/SM			12' dia., 6' deep
H-UN-6	11/13/2006	56352.98	35933.40	SM			10' x 20' x 5' deep, trends N from slot mine. Collapsed adit or drift?
H-UN-7	11/13/2006	56407.30	35842.83	Open Shaft			10' to BR, drift visible trending N
H-UN-8	11/13/2006	56455.30	35676.15	Collapsed Adit???		Ext. 15'	
H-UN-9	11/13/2006	56497.41	35580.88	TP			2 Small TP
International	11/7/2006	58719.60	35425.27	Open Shaft	X	200' x 300'	Buildings/head frame present.
IN-UN-1	11/2/2006	57280.54	33827.55	Open Shaft	X	large – 100s of ft2	Major shaft. Depth not known.
IN-UN-10	11/2/2006	57833.01	33773.23	Open Shaft		20' x 30'	~5' to BR, ~8' dia., depth not known
IN-UN-11	11/2/2006	57729.74	33764.08	TP			4 TP, 5–15' dia., 2–6' deep
IN-UN-12	11/2/2006	57942.35	33787.12	Open Shaft	Boards	20' x 50'	4' x 3' opening, timber remnants of building nearby
IN-UN-13	11/2/2006	57718.37	33982.94	CS	X	50' x 50'	~15' deep, 20' dia
IN-UN-14	11/2/2006	57785.34	34035.02				Center of series of 4 depressions, 3' deep, 7' dia, trends N/S
IN-UN-2	11/2/2006	57407.66	33708.17	TP (4)			10' dia.
IN-UN-3	11/2/2006	57486.69	33722.14	TP			30' x 6' x 4' deep
IN-UN-4	11/2/2006	57444.28	33760.37	TP			Small TP, 5' dia. (5)
IN-UN-5	11/2/2006	57371.71	33836.72	CS (8)	X	large (Index)	
IN-UN-6	11/2/2006	57481.04	33845.84	Lg TP/ CS		Ext. 20'	Open pit 25' dia., 10' deep. 1' to BR
IN-UN-7	11/2/2006	57541.76	33850.39	TP			5' x 10' x 3' deep
IN-UN-8	11/2/2006	57553.47	33726.67	TP/Sm CS		Ext. 10' (veneer)	2 TP 10–15' dia., 4' deep. Several adjacent sm. TP, steel present
IN-UN-9	11/2/2006	57687.05	33711.92	TP			2 TP 10' dia., 4' deep
Jack G.	11/17/2006	55055.71	38202.56	Shaft	X	50' x 50'	Buildings present
Johnson	11/16/2006	54935.45	35244.08	Shaft		Large – 300' x 300'	Concrete cap 10' x 15' located in conical depression 30' dia., 8' deep
JS-UN-10	11/16/2006	54640.07	37485.79	Open Shaft	X	Ext. 15'	2' x 6' wide
JS-UN-2	11/16/2006	54718.08	37228.61	TP/SM		Ext. 10'	15' dia., 7' deep
JS-UN-3	11/16/2006	54730.43	37295.17	TP/SM			20' x 10' x 6' deep
JS-UN-4	11/16/2006	54785.24	37328.26	TP/SM			15' dia., 3' deep
JS-UN-5	11/16/2006	54682.28	37400.00	Trench			Trends SE, 40' x 5' – 8' wide x 2' – 4' deep
JS-UN-6	11/16/2006	54585.00	37381.35	CS	X	Ext. 15'	Cone 15' dia., 4' deep
JS-UN-7	11/16/2006	54602.97	37305.16	TP			4 small TP
JS-UN-8	11/16/2006	54542.73	37438.58	TP			5' x 10' x 3' deep
JS-UN-9	11/16/2006	54573.12	37452.75	TP			10' dia., 4' deep
J-UN-10	11/7/2006	58684.12	35691.76	Open Shaft/Slot mine	X	20' x 30' (est.)	10' – 30' deep, 5' – 9' to BR. NE trending drift joins base of slot/shaft
J-UN-11	11/7/2006	58660.15	35767.94	Collapsed Adit	Boards	?	Trends NE
J-UN-12	11/7/2006	58739.66	35934.14	TP		Ext. 10'	Group of 4 TP, largest is 8' x 8' x 3' deep
J-UN-13	11/7/2006	58878.79	35771.89	Open Shaft	X	50' x 100'	4' x 2' wide
J-UN-14	11/7/2006	58945.48	35738.35	CS		50' x 200' (est.)	
J-UN-15	11/7/2006	58969.21	35595.59	Open Shaft		100' x 100'	Capped with concrete and steel grate
J-UN-3	11/7/2006	58775.61	35791.30	TP/SM/CS		Ext. 15'	15' dia., 5' deep
J-UN-5	11/7/2006	58564.59	36205.88	Collapsed Adit	Boards	40' x 60'	Evidence of timber foundations (Rail?) down slope
J-UN-7	11/7/2006	58649.76	36257.91	Open Shaft/Stope	X	Ext. 30'	5' x 6' wide, more than 20' deep, 6' to BR
J-UN-8	11/7/2006	58612.33	35977.40	TP/SW		Ext. 15'	15' dia., 7' deep
J-UN-9	11/7/2006	58671.60	35587.16	TP or Backfilled SM		Ext. 5'	5' x 8' x 3' deep
Little Giant	11/14/2006	56270.27	36561.62	CS???	X	20' x 30'	No obvious shaft or source of WR
Mattie D.	11/16/2006	55169.80	37854.87	Open Shaft/SM	X		10' x 10' x 20' deep, BR at 5'
MG-UN-11	11/16/2006	54481.38	35640.60	TP/SM			8' dia., 4' deep
MG-UN-12	11/16/2006	54584.91	35711.58	TP/SM		10' x 25'	10' dia., 6' deep
MG-UN-13	11/16/2006	54676.20	35768.33	TP/SM			TP/SM
MG-UN-14	11/16/2006	54707.16	35920.43	TP/SM			TP/SM
MG-UN-15	11/16/2006	54792.38	35986.74	TP/SM			10' dia., 6' deep
MG-UN-16	11/16/2006	54816.51	35934.31	TP/SM			10' dia., 6' deep
MG-UN-17	11/16/2006	54901.54	35943.51	Open Shaft	X	40' x 40' (veneer)	2' x 4' wide, WR recently disturbed
MG-UN-18	11/16/2006	54962.30	35943.28	TP/SM			8' dia., 5' deep
MG-UN-19	11/16/2006	55095.63	35866.68	TP/SM	X		10' dia., 5' deep, timber at base
MG-UN-20	11/16/2006	55089.67	35904.76	TP/SM			15' dia., 4' deep
MG-UN-21	11/16/2006	54665.67	36201.26	TP/SM			8' dia., 3' – 4' deep
MG-UN-22	11/16/2006	54653.34	36148.98	TP			6' dia., 2' – 3' deep
MG-UN-23	11/16/2006	54659.13	36082.37	Trench			20' x 5' x 2' deep
MG-UN-24	11/16/2006	54634.45	35977.80	TP			15' x 25'
MG-UN-25	11/16/2006	54519.07	35973.46	TP/SM			6' dia., 3' deep
MG-UN-26	11/17/2006	55505.06	36554.94	TP/SM			15' dia., 7' deep
MG-UN-27	11/17/2006	55414.17	36612.36	TP			Small TP
MG-UN-28	11/17/2006	55438.47	36607.50	TP/SM			8' x 12' x 3' deep
MG-UN-29	11/17/2006	55481.00	36621.63	Depression/TP			6' x 12' x 2' deep
MG-UN-30	11/17/2006	55535.82	36659.48	Trench			Trends NW, 25' x 5' x 3' – 4' deep
MG-UN-31	11/17/2006	55627.33	36773.30	Collapsed Adit/Stope/	X		Trends SE, 25' x 15' x 15' deep, 3' to BR. 2 drifts connect to main feature – they trend S and E
MG-UN-32	11/17/2006	55840.75	37000.84	TP/SM			10' x 15' x 6' deep
M-UN-2	11/16/2006	54569.81	34902.91	Building/CS	X		No WR pile so likely an old building
M-UN-3	11/16/2006	54424.29	34965.28	TP/SM			6' dia., 3' – 4' deep
M-UN-4	11/17/2006	54538.73	34703.22	Trench/Collapsed Adit		30' x 15'	Trends E
North Star	11/17/2006	55689.98	37286.82	Slot Mine/Collapsed Stope	X		Trends N 50', S 30'. Up to 4' wide at base, 12' wide at top, greater than 30' deep
Peggy	11/14/2006	55915.79	35949.28	Open Shaft			3' x 3' steel and concrete cap
Peterson Poorman	11/17/2006	55623.64	35779.12	Adit			3' x 3' steel grate cover, trends SW
PP-UN-1	11/16/2006	55550.01	35570.08	TP/SM			3 TP/SM, largest is 6' dia., 4' deep
PP-UN-1	11/17/2006	55490.03	35770.08	TP/SM		Ext. 10'	15' dia., 6' deep
PP-UN-2	11/17/2006	55538.64	35779.42	TP/SM			2 TP/SM, largest is 20' x 8' x 5' deep, trends N
P-UN-2	11/17/2006	55442.14	35970.07	CS	X	5' x 10'	Building remains present?
RH-B Shaft	11/3/2006	58172.38	35251.28	Open Shaft		large – 100' x 300'	3' – 9' to BR
RH-UN-1	11/3/2006	58172.11	35175.18	Open Shaft	X	large – 100' x 300'	Major working, ~7' colluvium + 3' WR (7) above BR
RH-UN-10	11/3/2006	58262.75	35055.95	TP			Small TP
RH-UN-11	11/3/2006	58244.48	35036.97	TP			Small TP
RH-UN-12	11/3/2006	58177.72	35046.73	Open Shaft	X	large – ext. 50'	~4' x 4' wide, 3' WR, 6' Colluvium to BR
RH-UN-13	11/3/2006	58189.77	35022.90	Open Shaft/SW		large – ext. 50'	~6' to BR, 5' x 10' x 20' deep
RH-UN-14	11/3/2006	58213.88	34970.49	Depression			5' x 5' x 2' deep, steel at base
RH-UN-15	11/3/2006	58189.49	34946.80	Open Shaft		Ext. 30'	~4' to BR, 4' x 5' wide
RH-UN-16	11/3/2006	58195.34	34880.19	TP			4 TP, largest 9' dia, 3' deep
RH-UN-17	11/7/2006	58075.53	35332.49	Backfilled Shaft/TP			8' x 5' x 5' deep. Backfilled shaft, TP, or from road construction
RH-UN-18	11/7/2006	58125.30	35655.75	TP			Group of small TP
RH-UN-19	11/7/2006	58300.76	35479.12	TP/SW		Ext. 10'	Large TP or SW
RH-UN-2	11/3/2006	58202.29	35122.74	Depression/ CS		large – 100' x 300'	Depression ~10' x 6' x 4' deep. Given area and WR, may be CS
RH-UN-20	11/7/2006	58458.59	35459.51	Backfilled Shaft/TP		30' x 30' (veneer)	In BR, 6' x 6' x 3' deep
RH-UN-3	11/3/2006	58202.20	35098.96	Open Shaft		large – 100' x 300'	Narrow (5' x 2' opening) partially collapsed shaft, 6' to BR
RH-UN-4	11/3/2006	58196.03	35075.21	Open Shaft	X	large – 100' x 300'	Opening 6' x 4', 3' WR + 6' colluvium to BR
RH-UN-5	11/3/2006	58208.37	35122.72	Structure		large – 100' x 300'	Small (4.5' tall) wood and steel shack

NOTE:

1. TABLES INCLUDE WORKINGS THAT HAVE BEEN PREVIOUSLY REMEDIATED.
2. DRAWING IS A NEW ADDITION TO THE ISSUED FOR CONSTRUCTION SET.

REV	DATE	DESCRIPTION	BY
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / DS

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: TABLE OF HISTORIC UNDERGROUND WORKINGS SHEET 1 OF 3

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GD117	DRAWING No. A65	REV 0

S:\CAD\1125G-Squaw VLF\cadd\CADD DRAWINGS\IFC Drawings\A065 a065-1125GD117 .dwg 1/21/2013 2:41 PM

RH-UN-6	11/3/2006	58208.23	35089.44	Depression/ CS		large – 100' x 300'	Depression ~8' dia., 4' deep. Given area and WR, may be CS
RH-UN-7	11/3/2006	58262.98	35113.01	Depression			5' dia., 2' deep
RH-UN-8	11/3/2006	58287.27	35117.68	Depression/TP			5' x 8' x 3' deep
RH-UN-9	11/3/2006	58299.42	35117.64	Depression/TP			5' x 10' x 3' deep
Ritten House	11/7/2006	58142.93	35493.96	CS	X	Large – 100' x 100'	Major shaft, buildings collapsed into shaft
S-1	5/2/2007	55440.28	35611.75	Collapsed Shaft		Regraded Spoil	Bureau of Reclamation Marker
S-10	5/8/2007	58256.45	35977.36	Open Shaft	x	30' dia	Open Shaft in bedrock, few degraded timbers, appears to trend north at 20'
S-11	5/8/2007	58269.88	36033.11	Open Shaft	x	minimal	Open Shaft in bedrock, few timbers and debris (Covered in Snow)
S-12	5/8/2007	58747.23	36253.81	Collapsed Shaft		minimal	Collapsed Shaft in bedrock, collapsed at 13' deep, unsupported
S-13	5/8/2007	58781.90	35987.64	Collapsed Shaft		minimal	Collapsed Shaft in soil, collapsed at 5' opening 10' dia, unsupported
S-14	5/8/2007	58910.21	36032.92	Collapsed Shaft		large	Collapsed Shaft in fragmented bedrock, opening 8' dia, large stockpile downhill
S-16	5/9/2007	58398.32	34892.95	Open Shaft	x	10'x20'	Open Shaft in soil, degraded cribbing collapsed to 7'
S-17	5/9/2007	58457.21	34853.23	Collapsed Shaft		40'x30'	Collapsed Shaft in fragmented bedrock, unsupported
S-2	5/2/2007	53469.25	34259.70	Open Shaft	x	–	Open Shaft, in bedrock at 8', competent timber to 8' , deeper than 25'
S-4	5/3/2007	55578.29	36835.84	Collapsed Shaft		minimal	Collapsed Shaft in bedrock, open to 15' deep, unsupported
S-5	5/3/2007	55343.93	37218.03	Collapsed Shaft	x	minimal	Collapsed Shaft in soil, open to 12' deep, unsupported, few timbers and pipes
S-6	5/3/2007	55478.39	34767.62	Collapsed Shaft		–	Rock lined Collapsed Shaft or well
S-7	5/3/2007	54370.98	33414.16	Collapsed Shaft		10'x30'	Collapsed Shaft in bedrock, open to 10' deep, unsupported
S-8	5/4/2007	54900.73	34820.01	Collapsed Shaft		Regraded Spoil	Collapsed Shaft in regraded spoil pile, fenced off
S-9	5/4/2007	55650.80	36280.49	Collapsed Shaft	x	Regraded Spoil	Collapsed Shaft (Adit?), several buried and loose degraded timbers
TP-1	5/2/2007	55380.04	35401.92	Test Pit		minimal	20'x10' Pit, 5' deep, fragmented bedrock at 2'
TP-10	5/2/2007	54133.91	35109.87	Test Pit		minimal	25'x20' Pit, 3' deep, fragmented bedrock at 1/2'
TP-11	5/2/2007	54666.75	35271.16	Test Pit		–	20'x15' Pit, possible subsidence?
TP-12	5/2/2007	54610.86	35258.33	Test Pit		–	25'x10' Pit, 2' deep
TP-13	5/2/2007	54286.97	35480.10	Test Pit		minimal	12'x12' Pit, 4' deep, fragmented bedrock at 4'
TP-14	5/3/2007	54844.55	35963.06	Test Pit		minimal	15' dia Pit, 3' deep
TP-15	5/3/2007	54850.81	35907.21	Test Pit		minimal	10' dia Pit, fragmented bedrock at 3'
TP-16	5/3/2007	55008.63	35942.47	Test Pit	x	–	15' dia Pit, 2' deep, few decomposed timbers, depression?
TP-17	5/3/2007	55246.87	35671.91	Test Pit	x	–	10' dia Pit, 3' deep, debris and few decomposed timbers
TP-18	5/3/2007	55499.25	36189.37	Test Pit		10'x15'	20'x20' Pit, 5' deep, fragmented bedrock at 3'
TP-19	5/3/2007	55415.12	38232.32	Test Pit		20'x20'	15'x20' Pit, 8' deep, fragmented bedrock at 3'
TP-20	5/3/2007	54396.87	33345.06	Test Pit		10'x10'	12'x6' Pit, 4' deep, fragmented bedrock at 2'
TP-21	5/3/2007	54393.55	33338.51	Test Pit		6'x6'	10'x10' Pit, 2' deep, fragmented bedrock at 2'
TP-23	5/3/2007	54432.92	33331.73	Test Pit		10'x10'	15'x15' Pit, 4' deep, fragmented bedrock at 3'
TP-24	5/3/2007	54083.89	33760.52	Test Pit		minimal	20'x10' Pit, 5' deep
TP-25	5/8/2007	56627.68	35368.87	Test Pit		Regraded Spoil	30' dia Pit, 15' deep
TP-26	5/8/2007	56440.00	35878.87	Test Pit		8'x8'	10' dia Pit, 3' deep, fragmented bedrock at 3'
TP-27	5/8/2007	56896.85	35955.20	Test Pit		minimal	15x5' and 10'x5' Pits, 3' deep, bedrock at 1'
TP-28	5/8/2007	57416.85	36169.10	Test Pit		minimal	20'x5' Pit, 3' deep, bedrock at 1'
TP-29	5/8/2007	57507.18	36477.28	Test Pit		10'x5'	20'x8' Pit, 4' deep, bedrock at 1'
TP-3	5/2/2007	54032.22	34525.91	Test Pit		–	30'x10' Depression, Possible Tunnel Subsidence?
TP-30	5/8/2007	57527.28	36549.41	Test Pit		minimal	20'x10' Pit, 5' deep, fragmented bedrock at 3'
TP-33	5/8/2007	58546.55	35581.74	Test Pit		minimal	15'x10' Pit, 4' deep
TP-34	5/8/2007	58406.96	35878.03	Test Pit		20'x10'	15' dia Pit, 8' deep, fragmented bedrock at 7'
TP-35	5/8/2007	57244.37	35851.51	Test Pit		Regraded Spoil	7' dia Pit, 6' deep, bedrock at 5', fenced
TP-36	5/8/2007	57074.44	36003.49	Test Pit		minimal	6' dia Pit, fragmented bedrock at 3'
TP-37	5/9/2007	56957.91	33895.95	Test Pit		20'x8'	15' dia Pit, 8' deep
TP-38	5/9/2007	57645.39	34112.23	Test Pit		10'x10'	20'x10' Pit, 7' deep
TP-39	5/9/2007	58417.97	34278.79	Test Pit		5'x10'	10' dia Pit, 5' deep, bedrock at 3'
TP-40	5/9/2007	59024.30	34669.54	Test Pit		30'x20'/30'x30'	25' dia Pit, 10' deep, fragmented bedrock at 3'
TP-41	5/9/2007	58510.95	35072.95	Test Pit		5'x10'	12' dia Pit, cut in hillside, bedrock at 5'
TP-42	5/9/2007	58191.51	34903.93	Test Pit		10'x5'	20' dia Pit, 5' deep, fragmented bedrock at 3'
TP-43	5/9/2007	58280.34	34936.28	Test Pit		10'x15'	15' dia Pit, 9' deep, fragmented bedrock at 2'
TP-44	5/9/2007	58459.89	34741.57	Test Pit		8'x4'	8' dia Pit, 3' deep
TP-45	5/9/2007	55646.92	35567.94	Test Pit		–	
TP-5	5/2/2007	53506.59	34482.79	Test Pit		10' dia	15'x10' Pit, bedrock at 3 to 4'
TP-6	5/2/2007	53549.47	34518.68	Test Pit		minimal	20' dia Pit, 5' deep
TP-7	5/2/2007	53530.34	34623.87	Test Pit		minimal	15'x10' Pit, 3' deep
TP-8	5/2/2007	53619.89	34787.57	Test Pit		10'x20'	15'x15' Pit, 6' deep
TP-9	5/2/2007	53836.70	34802.81	Test Pit		minimal	20'x10' Pit, 3' deep, fragmented bedrock at 1'
TR-1	5/3/2007	55685.84	37291.70	Trench	x	large	90'x20' Trench, 20' deep, bedrock at 6', few degraded timbers
TR-2	5/4/2007	54069.18	33471.63	Trench		50' dia	50'x15' Trench, 5' deep, fragmented bedrock present
TR-4	5/4/2007	55723.00	36273.53	Trench	x	minimal	100'x20' Trench in bedrock, 30' deep, competent cribbing above trench
TR-5	5/8/2007	56722.59	35309.24	Trench		60'x6'	60'x7' Trench, 4' deep, fragmented bedrock at 3'
UN-1	11/2/2006	57321.34	35030.84	Open Shaft	Boards	Small	~25' deep, 6' to BR(1), Appears relatively recent
UN-10	11/2/2006	58387.92	34403.85	TP			Small TP
UN-100	11/14/2006	57538.45	34606.69	TP			TP
UN-101	11/14/2006	57040.94	34741.69	Collapsed Adit	X		Trends N/NE, 12' to BR
UN-102	11/14/2006	56871.42	34880.25	TP/SM		Ext. 15'	15' dia., 4' deep
UN-103	11/14/2006	57023.17	34865.43	TP			TP
UN-104	11/14/2006	57180.78	34784.00	TP			2 TP
UN-105	11/14/2006	57278.06	34821.70	TP			3 small TP
UN-106	11/14/2006	57254.10	34902.64	TP/SM		30' x 40'	20' dia, 10' deep
UN-107	11/14/2006	56939.05	35113.10	TP/SM		Ext. 15'	10' dia., 6' deep
UN-108	11/14/2006	56866.27	35141.91	TP			TP
UN-109	11/14/2006	56963.11	35051.17	TP/SM		Ext. 10'	TP/SM
UN1-1	11/14/2006	56325.00	34929.82	Open Shaft			Capped with concrete and steel grate
UN-11	11/2/2006	58399.10	34132.68	TP/ Small CS		Ext. 5'	15' dia., 7' deep
UN-110	11/14/2006	56926.60	35022.75	TP			TP
UN-111	11/14/2006	56902.17	34989.55	TP			TP
UN-112	11/14/2006	56732.51	35090.05	TP			TP
UN-113	11/14/2006	56738.49	35066.24	Pipe			30" steel pipe, trends E
UN-114	11/14/2006	56556.55	35138.27	TP/SM		Ext. 15'	15' dia., 8' deep
UN-115	11/14/2006	56605.61	35261.76	TP			3 TP
UN-116	11/14/2006	56551.04	35295.27	Slot Mine/Trench			25' x 8' x 4' deep, trends E
UN-117	11/14/2006	56466.24	35357.41	Slot Mine/Trench			10' x 5' x 3' deep, trends E
UN-118	11/14/2006	54444.14	35412.39	Open Shaft			2' x 2' wide, 12' to BR
UN-119	11/14/2006	56447.29	35162.47	Trench/Collapsed Adit			40' x 10' x 5' deep, trends E
UN1-2	11/14/2006	56300.80	34953.69	Adit			Capped with 3' x 3' concrete and steel grate, trends W
UN-12	11/2/2006	58277.35	34052.26	Trench		15' x 15'	N end of N/S trending trench. 5–15' wide, 50' long
UN-120	11/14/2006	56471.20	35048.20	TP			TP
UN-121	11/14/2006	56707.78	34980.75	???		20' x 40'	No obvious source of WR. Surface excavation?

UN-122	11/15/2006	55569.54	34257.07	TP/SM		Ext. 10'	12' dia., 4' deep
UN-123	11/15/2006	54899.84	33802.81	TP/Slot Mine			3' x 7' x 8' deep, 1' to BR
UN-124	11/15/2006	54881.51	33769.58	TP/Slot Mine			Trends S, 5' x 20' x 3' deep
UN-125	11/15/2006	55075.80	33764.13	Open Shaft/SM			6' x 3.5' x ~25' deep, 0.5' to BR
UN-126	11/15/2006	55137.15	33930.40	TP/SM		Ext. 5' – 10'	10' dia., 5' deep, 0.5' to BR
UN-127	11/15/2006	55483.73	34048.08	Adit		20' x 25'	Trends WNW, 0.5' to BR
UN-128	11/15/2006	55526.35	34081.24	TP/Slot Mine			10' x 5' x 3' deep, 0.5' to BR
UN-129	11/15/2006	55593.37	34147.59	TP			TP
UN-13	11/2/2006	58563.12	34151.13	TP/SW		Ext. 5'	7' dia., 10' deep. Surrounded by group of smaller TP
UN-130	11/15/2006	55672.42	34171.09	TP			TP
UN-131	11/15/2006	55630.14	34237.84	TP			TP
UN-132	11/15/2006	55721.11	34199.45	Open Shaft/SM	Boards	15' x 25'	3' x 6' x ~25' deep
UN-133	11/15/2006	55745.35	34180.33	TP			TP
UN-134	11/15/2006	56000.00	34070.01	Open Shaft/SM	Boards	20' x 20'	5' x 6' wide, ~30' deep, 1' to BR
UN-135	11/15/2006	55969.60	34060.60	TP			TP
UN-136	11/15/2006	56425.16	34082.74	TP			2 TP
UN-137	11/15/2006	55829.99	34070.61	TP/SM		5' x 10'	4' x 4' x 4' deep, 0.5' to BR
UN-138	11/15/2006	55744.96	34070.92	TP/SM			4 TP/SM, three 5' x 5' x 3' deep, one 4' x 4' x 2' deep
UN-139	11/15/2006	55355.74	33920.10	TP/SM		5' x 10'	4' x 5' x 5' deep, 0.5' to BR
UN-14	11/2/2006	58666.60	34212.57	Small Shaft or SW		Ext. 5'	10' wide, 18' deep, 4' to BR. Surrounded by smaller TP
UN-140	11/15/2006	55349.37	33839.26	Open Shaft	Boards	Ext. 10'	2.5' x 5' wide
UN-141	11/15/2006	55616.48	33814.52	TP			8' x 8' x 3' deep
UN-142	11/15/2006	55586.35	33876.46	Open Shaft	X	Ext. 15'	5' x 6' wide, 0.5' to BR
UN-143	11/15/2006	55701.38	33766.63	Trench			10' x 30' x 2' – 9' deep, trends SE
UN-144	11/15/2006	55695.25	33761.90	TP/SM			10' dia., 6' deep
UN-145	11/15/2006	55865.79	33904.01	TP			2 TP, 8' x 8' x 3' – 4' deep
UN-146	11/15/2006	55926.81	33970.36	TP/SM			3 TP/SM, 8' x 8' x 4' – 5' deep
UN-147	11/15/2006	55999.11	33822.65	TP			2 TP
UN-149	11/15/2006	56120.88	33898.31	TP			10' x 10' x 3' deep
UN-15	11/2/2006	58763.83	34221.72	Slot mine or road cut			Cut ~20' wide on average, extends 100s of ft, trends E/W
UN-150	11/15/2006	56127.17	33960.13	TP			10' x 10' x 3' deep
UN-151	11/15/2006	56181.94	33993.23	TP			10' x 10' x 3' deep
UN-152	11/15/2006	56176.00	34031.31	TP/SM			10' x 7' x 4' deep
UN-153	11/15/2006	56358.34	34078.23	TP			TP
UN-154	11/15/2006	56388.75	34078.11	TP			TP
UN-155	11/15/2006	56400.65	34025.76	TP/SM			4' x 4' x 4' deep
UN-156	11/15/2006	56431.19	34063.68	TP/SM		Ext. 10'	10' dia., 5 deep
UN-157	11/15/2006	56491.90	34058.71	TP			TP
UN-158	11/15/2006	56485.87	34077.77	TP			TP
UN-159	11/15/2006	56449.22	34016.05	TP			TP
UN-16	11/2/2006	58642.70	34322.06	TP			Group of 5 to 10 5' dia, 3–6' deep TP. Group trends E/W
UN-160	11/15/2006	56455.20	33992.26	TP			TP
UN-161	11/15/2006	56454.66	33840.03	SM			20' x 10' x 12' deep, 0.5' to BR
UN-162	11/15/2006	56485.15	33873.22	Open Shaft	X	Ext. 10'	~4' x 6' wide, 0.5' to BR
UN-163	11/15/2006	56576.53	33948.99	Trench			25' x 6' x 2' – 3' deep
UN-164	11/15/2006	56691.96	33972.38	TP			TP
UN-165	11/15/2006	56904.82	34047.70	TP/SM		Ext. 10'	15' dia., 5' deep, flanked by 3 small TP
UN-166	11/15/2006	56881.08	34204.77	TP			TP
UN-167	11/15/2006	56771.30	34067.21	TP			TP
UN-168	11/15/2006	56637.79	34091.47	TP			TP
UN-169	11/15/2006	56619.65	34129.61	TP			TP
UN-17	11/2/2006	58685.90	34512.16	TP			Small TP
UN-170	11/15/2006	56625.82	34153.38	Open Shaft	X	Ext. 10'	4' x 4' wide, 4' to BR
UN-171	11/15/2006	56638.01	34162.83	TP			TP
UN-172	11/15/2006	56638.06	34172.35	TP			TP
UN-173	11/15/2006	56662.20	34134.20	TP			TP
UN-174	11/15/2006	56552.47	34020.44	TP/SM			12' dia, 4' deep, trench extends South (25' x 8' x 4' deep)
UN-175	11/15/2006	56552.88	34134.61	TP/SM			TP/SM
UN-176	11/15/2006	56565.16	34163.09	TP/SM			TP/SM
UN-177	11/15/2006	56595.47	34153.48	TP/SM			TP/SM
UN-178	11/15/2006	56407.31	34177.93	TP/SM		Ext. 10'	2 TP/SM, 10' x 10' x 4' deep
UN-179	11/15/2006	56377.09	34225.62	TP/SM		Ext. 10'	10' x 15' x 5' deep
UN-18	11/2/2006	58552.33	34522.16	TP/SM		30' x 30' (veneer)	10' dia., 6' deep
UN-180	11/15/2006	56462.27	34258.60	TP			TP
UN-181	11/15/2006	56504.81	34272.72	TP/SM		Ext. 10'	2 TP/SM, 10' dia., 4' deep
UN-182	11/15/2006	56723.64	34329.02	TP/SM		Ext. 10'	15' dia., 6' deep
UN-183	11/15/2006	56377.89	34439.66	Trench			30' x 8' x 3' – 4' deep, trends W
UN-184	11/15/2006	56341.29	34392.23	TP/SM			3 TP/SM
UN-185	11/15/2006	56201.39	34340.42	TP/SM		Ext. 15'	10' x 20' x 6' deep
UN-186	11/15/2006	56213.66	34373.67	TP/SM			10' x 5' x 4' deep
UN-187	11/15/2006	56310.09	34164.02	TP/SM			TP/SM
UN-188	11/15/2006	56139.76	34079.00	Depression/TP			10' x 5' x 2' deep
UN-189	11/15/2006	56079.05	34098.27	Adit		10' x 25'	Trends N, 3' x 3' wide opening, 1' to BR
UN-19	11/2/2006	58564.57	34550.65	TP			Small TP
UN-190	11/15/2006	56067.97	34383.70	Open Shaft	Boards	15' x 15'	3' x 5' wide, 1' to BR
UN-191	11/15/2006	56062.25	34478.86	TP			TP
UN-192	11/15/2006	55983.59	34560.02	Open Shaft/SM	X	50' x 15'	3' x 5' wide, 1' to BR
UN-193	11/15/2006	55947.17	34560.14	Adit	X	50' x 15'	Trends N, stoped out inside, 1' to BR
UN-194	11/15/2006	55953.45	34621.96	TP			TP
UN-195	11/15/2006	56147.68	34592.72	TP/SM		Ext. 10' max	Group of 4 – 5 TP/SM, largest is 6' x 10' x 6' deep
UN-196	11/15/2006	56201.92	34478.36	TP/SM			5' x 8' x 7' deep, 1' to BR
UN-197	11/15/2006	56226.21	34473.50	TP/SM			5' x 10' x 5' deep
UN-198	11/15/2006	56323.52	34515.96	CS	X	Ext. 10'	Timbers in pit 15' x 15' x 3' deep
UN-199	11/15/2006	56347.89	34544.44	TP/SM			3 TP/SM, largest is 15' dia., 4' deep
UN-2	11/2/2006	57513.88	34535.44	Small Shaft or SW (2)		Ext. 10' (3)	~10' deep, BR near base of excavation
UN-20	11/2/2006	58297.54	34594.42	TP			Small TP
UN-200	11/15/2006	56451.11	34529.78	TP/SM			10' x 10' x 4' deep
UN-201	11/15/2006	56584.50	34467.45	TP			2 small TP
UN-202	11/15/2006	56536.23	34567.54	TP			2 small TP
UN-203	11/15/2006	56403.23	34734.50	TP/SM		10' x 10'	10' dia., 5' deep
UN-204	11/15/2006	56293.73	34677.82	TP			Small TP
UN-205	11/15/2006	56275.61	34701.66	TP			Small TP

UN-206	11/15/2006	56263.55	34725.49	Trench		10' x 20'	Trends S, 20' x 4' x 2' deep
UN-207	11/15/2006	56209.04	34763.73	TP/SM		10' x 10'	10' dia., 5' deep
UN-208	11/15/2006	56178.68	34768.61	Trench		10' x 20'	Trends W, 10' x 25' x 3' – 8' deep
UN-209	11/15/2006	56172.31	34687.77	TP			TP
UN-21	11/2/2006	58297.35	34551.63	TP			Small TP
UN-210	11/15/2006	55703.64	34404.06	Open Shaft		25' x 25'	1' to BR, 25' deep, cone shaped (15' dia. at top, 6' dia. at base)
UN-211	11/15/2006	55752.29	34422.92	SM		10' x 15'	5' x 8' x 5' deep
UN-212	11/15/2006	55861.69	34441.53	TP			Small TP
UN-213	11/15/2006	55904.28	34460.41	TP			Small TP
UN-214	11/15/2006	55916.16	34384.25	Slot Mine		15' x 25'	Trends N, 30' x 10' x 2–5' deep, 1' to BR
UN-215	11/15/2006	55964.19	34241.38	Slot Mine		10' x 10'	Trends NE, 20' x 5' x 3' deep
UN-216	11/15/2006	56024.81	34212.62	TP			2 small TP
UN-217	11/15/2006	55934.67	34474.58	TP/SM		Ext. 10'	7' dia., 6' deep, 1' to BR
UN-218	11/15/2006	56662.97	34348.27	TP			TP
UN-219	11/15/2006	56579.26	34705.31	TP/SM			10' dia.
UN-22	11/2/2006	58181.96	34547.28	TP			10' dia, 3' deep
UN-220	11/15/2006	56288.10	34796.75	TP/SM			10' dia., 3' deep
UN-221	11/15/2006	56069.44	34792.80	TP			TP
UN-222	11/15/2006	56081.41	34745.19	TP			TP
UN-223	11/15/2006	55837.67	34522.50	TP/SM			10' dia., 4' deep, 1' to BR
UN-224	11/15/2006	55826.00	34650.98	TP/SM			2 TP/SM, largest 10' dia., 4' deep
UN-225	11/15/2006	55893.17	34750.63	TP/SM			12' dia., 5' deep
UN-226	11/15/2006	55990.47	34793.09	TP/SM			15' dia., 4' deep
UN-227	11/15/2006	56069.70	34868.92	Shaft		Large – 50' x 100'	10' x 10' concrete cap with steel grate, 1' to BR
UN-228	11/15/2006	56209.35	34849.37	TP/SM		Ext. 10'	Continuous line of TP/SM between UN-228 and UN-229, trends NNW
UN-229	11/15/2006	56282.24	34858.62	SM/Small CS	X	Ext. 15'	Second SM located ~20' N
UN-23	11/3/2006	57812.92	34929.14	Open Shaft	X	large – 100' x 300'	Small building present, located in 5–10' cut, timbers @ bedrock.
UN-230	11/15/2006	56439.88	34786.69	TP/SM		10' x 10'	6' x 10' x 4' deep
UN-231	11/15/2006	56197.72	34992.11	Collapsed Adit	X		Trends W
UN-232	11/16/2006	54106.61	34447.90	TP/SM		Ext. 5' – 10'	8' dia., 3' – 4' deep
UN-233	11/16/2006	53827.39	34486.98	TP/SM			3 TP/SM, largest is 10' dia., 4' deep
UN-234	11/16/2006	53985.46	34543.50	TP/SM			TP/SM
UN-235	11/16/2006	55198.19	35690.30	TP/SM		Ext. 10'	7' dia., 3' deep
UN-236	11/16/2006	55094.94	35685.92	Trench			3 Trenches, ~100' long each, 2 trend E, 1 trends SSE, 5' wide, 3' deep
UN-237	11/16/2006	54894.32	35624.80	Trench			Trends S, at least 200' long, 6' wide, 3' deep
UN-238	11/16/2006	54754.53	35601.55	CS	Boards	Ext. 10'	3' x 5' wide, 6' to BR, 12' deep (may be collapsed, deeper)
UN-239	11/16/2006	54602.56	35559.28	SM/CS???		15' x 30'	Conical hole/depression 15' dia., 6' deep
UN-24	11/3/2006	57929.18	35166.55	TP			2 Small TP
UN-240	11/16/2006	54176.53	35308.71	Shaft???	X	200' x 200' (veneer)	Shaft not visible – only buildings and WR visible
UN-241	11/16/2006	54961.38	35695.92	Building/CS	X		Old building or possibly collapsed shaft/SM
UN-242	11/16/2006	54421.50	35869.17	Open Shaft	X		~4' x 4' wide, ~6' to BR
UN-243	11/16/2006	54385.39	35959.69	TP/SM			10' dia., 6' deep
UN-244	11/16/2006	54446.18	35968.97	TP			2 small TP
UN-245	11/16/2006	54506.96	35987.78	TP/SM		Ext. 10'	10' dia., 6' deep
UN-246	11/16/2006	54488.99	36049.68	TP			Small TP
UN-247	11/16/2006	54434.54	36111.74	TP			4 small TP
UN-248	11/16/2006	54391.74	36026.25	TP			Small TP
UN-249	11/16/2006	54501.40	36120.99	Open Shaft	X	10' x 25'	Capped by steel grate, 2' x 4' wide
UN-25	11/3/2006	57898.03	34957.38	TP			4 Small TP
UN-250	11/16/2006	54471.40	36216.24	TP/SM			8' dia., 3' deep
UN-251	11/16/2006	54550.16	36173.15	SM/Slot Mine/CS	X	Ext. 15'	BR at 4'
UN-252	11/16/2006	54598.89	36211.03	TP/SM			15' dia., 6' deep
UN-253	11/16/2006	54551.24	36468.10	TP/SM			15' dia., 4' – 5' deep
UN-254	11/16/2006	54899.36	36990.08	TP/SM			10' dia., 5' deep
UN-255	11/16/2006	54930.40	37175.50	CS	X	20' x 30'	7' dia., 8' deep
UN-256	11/16/2006	54634.33	37576.20	Collapsed Adit	X		Trends SE. Perpendicular trench/depression trends SW 25' and NE more than 50'. Feature is 10' wide x 3' – 5' deep
UN-257	11/17/2006	54562.87	37947.52	Trench			Trends E, 30' x 6' x 3' deep
UN-258	11/17/2006	54563.09	38004.60	???		20' x 30'	No obvious, nearby source of WR
UN-259	11/17/2006	54526.69	38019.01	Trench		20' x 15'	Trends E 30', W 20'. 8' wide x 6' deep
UN-26	11/3/2006	57926.95	34562.48	TP			15' dia., 4–5' deep
UN-260	11/17/2006	54453.67	37981.23	TP/SM			8' dia., 4' deep
UN-261	11/17/2006	54368.47	37938.74	Trench			Very long. Trends towards 300°, 5' wide x 2' deep
UN-262	11/17/2006	54319.53	37843.79	TP			2 TP
UN-263	11/17/2006	54422.69	37819.61	TP			2 TP
UN-264	11/17/2006	54477.29	37809.89	TP			TP
UN-265	11/17/2006	54483.26	37781.33	TP			TP
UN-266	11/17/2006	54537.72	37728.79	TP/Trench			15' x 5' x 3' deep, intersected by longer trench trending 330°
UN-267	11/17/2006	54574.38	37785.74	Open shaft	X	10' x 10'	Partially collapsed, 4' x 6' wide
UN-268	11/17/2006	54562.39	37823.84	TP/SM			10' dia., 4' deep
UN-269	11/17/2006	54580.64	37833.29	TP/SM			10' dia., 4' deep
UN-27	11/3/2006	57994.88	34861.88	TP			10' x 20' x 5' deep, 6' x 6' x 3' deep
UN-270	11/17/2006	54629.22	37833.11	Trench			Trends SW, 5' wide, 2' – 3' deep, greater than 50' long
UN-271	11/17/2006	54482.78	37652.89	TP/SM			10' dia., 4' deep
UN-272	11/17/2006	54506.96	37619.49	TP			4 TP
UN-273	11/17/2006	54579.76	37595.43	Collapsed Adit	X		Trends E
UN-274	11/17/2006	54458.21	37567.33	Open Shaft/SM			10' dia., 10 deep, 4' to BR
UN-275	11/17/2006	55344.59	35861.01	TP/SM		Ext. 10'	15' dia., 7' deep
UN-276	11/17/2006	55350.95	35937.10	Level Platform			10' x 20' x 4' – 5' cut (uphill) and fill (downhill)
UN-277	11/17/2006	55589.84	34837.35	TP/SM			10' dia., 4' deep
UN-278	11/17/2006	55144.37	34253.87	Open Shaft		30' x 50'	Capped with steel grate
UN-279	11/17/2006	54889.27	34245.27	Adit		40' x 15'	Partially walled off with rock, trends N, 4' x 5' wide partially collapsed, 4' x 2' wide. WR upslope indicates additional workings (not visible)
UN-28	11/3/2006	58037.75	34975.90	TP			6' x 8' x 5' deep
UN-280	11/17/2006	54804.05	34183.73	TP			15' x 5' x 2' deep
UN-281	11/17/2006	54408.46	33947.30	Trench/Collapsed Adit		35' x 15'	2 features. Trend SSE
UN-282	11/17/2006	54396.86	34104.33	Trench/Collapsed Adit		40' x 30'	Trends SSW
UN-283	11/17/2006	54446.16	34299.20	???		30' x 10'	No obvious, nearby source of WR
UN-284	11/17/2006	54434.18	34351.57	CS/SM		Ext. 15'	10' dia., 6' deep. Small TP 20' upslope
UN-285	11/17/2006	54325.06	34399.54	TP/SM			10' dia., 4' deep
UN-286	11/17/2006	54349.46	34427.99	Trench			Trends NW, at least 60' long, 8' wide x 4' deep
UN-287	11/17/2006	54368.04	34527.82	TP/SM		Ext. 15'	15' dia., 7' deep

NOTE:

1. TABLES INCLUDE WORKINGS THAT HAVE BEEN PREVIOUSLY REMEDIATED.
2. DRAWING IS A NEW ADDITION TO THE ISSUED FOR CONSTRUCTION SET.

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / DS

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: TABLE OF HISTORIC UNDERGROUND WORKINGS SHEET 2 OF 3

amec

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GD119	DRAWING No. A66	REV 0

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UN-288	11/17/2006	54483.44	34532.16	TP/SM			2 TP/SM, largest 15' x 5' x 3' deep
UN-289	11/17/2006	54821.29	33907.75	Adit			Capped with steel grate, trends NW
UN-29	11/3/2006	58133.95	34699.66	TP			6' x 6' x 2' deep
UN-3	11/2/2006	58143.17	33891.02	TP			Group of 5 or 6 TP, 8' dia., up to 4' deep
UN-30	11/3/2006	58328.53	34765.54	TP			20' x 20' x 8' deep
UN-31	11/3/2006	58995.56	34487.25	Open Shaft	X	large – ext. 50'	Partially collapsed, 4' x 2' wide. WR upslope indicates additional workings (not visible)
UN-32	11/3/2006	58867.42	34321.24	TP			Group of 4 small TP
UN-33	11/3/2006	58753.19	34640.33	TP			2 TP or small borrow pits, 5' x 10' x 5' deep
UN-34	11/3/2006	58705.61	34916.37	CS/Large TP		Ext. 20'	20' dia, 10' deep
UN-35	11/3/2006	58905.04	34649.30	TP			Small TP
UN-36	11/3/2006	58856.40	34630.44	TP			Group of 4 small TP
UN-37	11/3/2006	58796.00	34721.03	TP			4' x 6' x 4' deep
UN-38	11/3/2006	58807.56	34568.80	TP			Small TP
UN-39	11/3/2006	55893.33	36444.08	CS	X	Large – 50' x 100'	Shaft not visible – only buildings and WR visible
UN-4	11/2/2006	58173.78	33962.26	Small Shaft or SW		Ext. 10'	~15' deep, 5' to BR, 8' dia.
UN-40	11/7/2006	58366.51	35193.49	Open Shaft/Stope		Ext. 20'	~20–25' deep, BR at 7'
UN-41	11/7/2006	58390.48	35098.26	Open Shaft	Boards	Ext. 30'	4' x 2' wide, 8' or more to BR, 30' deep
UN-42	11/7/2006	58408.37	35012.59	Open Shaft/SW		Ext. 15'	4' x 4' wide, 5' to BR, 10' deep
UN-43	11/7/2006	59026.85	34748.74	CS	X	50' x 50' (est.)	Likely a CS. Could also be building remains
UN-44	11/7/2006	58930.97	35105.82	CS	X	40' x 100'	Cone 20' dia., 8' deep. BR not visible
UN-45	11/7/2006	58718.33	35073.29	TP			10' dia., 4' deep
UN-46	11/7/2006	58627.17	35059.36	TP			10' dia., 4' deep
UN-47	11/7/2006	58621.57	35183.03	TP			10' dia., 4' deep
UN-48	11/10/2006	57467.99	35263.36	Shaft/SM		Ext. 20'	Small backfilled shaft or SM, 6' dia., 6' to BR, 8' deep
UN-49	11/10/2006	57510.05	35144.30	TP		Ext. 10'	10' dia., 4' deep
UN-5	11/2/2006	57998.45	34176.93	Depression			Small TP
UN-50	11/10/2006	57645.13	35548.12	TP			8' dia., 3' deep
UN-51	11/10/2006	57681.57	35547.98	TP/SM			10' x 20' x 5' deep
UN-52	11/10/2006	57553.80	35491.38	TP/SM			Group of ~8 TP or small SM
UN-53	11/10/2006	57432.08	35410.95	TP			Group of 4 TP, largest is 8' x 8' x 3' deep
UN-54	11/10/2006	57444.40	35458.47	Depression			5' x 10' x 2' – 3' deep, trends SE
UN-55	11/10/2006	57450.21	35387.10	Open Shaft			4' wide, 4' to BR, ~20' deep
UN-56	11/10/2006	57335.17	35487.41	Depression			5' x 10' x 2' deep
UN-57	11/10/2006	57317.26	35568.34	TP			8' x 5' x 3' deep
UN-58	11/10/2006	57250.42	35554.31	TP/SM			8' x 20' x 5' deep
UN-59	11/10/2006	57256.41	35530.51	TP/SM			Continuous line of TP or SM between UN-59 and UN-60, 10–15' wide, 4' deep
UN-6	11/2/2006	58077.44	34190.92	Depression			3 depressions, 5' dia., 2–3' deep
UN-60	11/10/2006	57195.50	35483.17	TP/SM			Continuous line of TP or SM between UN-59 and UN-60, 10–15' wide, 4' deep
UN-61	11/10/2006	57268.28	35463.88	TP			TP
UN-62	11/10/2006	57243.95	35454.47	TP			TP
UN-63	11/10/2006	57322.41	35320.99	Open Shaft/SM	X	Ext. 10'	4' x 3' x 15' deep, 5' to BR
UN-64	11/10/2006	57292.04	35325.86	TP			Small TP
UN-65	11/10/2006	57304.33	35349.58	Trench			2' deep, extends ~50' E
UN-66	11/10/2006	57364.21	35125.81	TP			1 TP
UN-67	11/10/2006	57121.44	35159.98	TP			3 TP
UN-68	11/10/2006	57030.53	35212.64	TP			2 TP
UN-69	11/10/2006	56988.46	35336.48	TP			2 TP
UN-7	11/2/2006	58144.43	34243.00	TP/SW	1 Post	small	3 TP or small SW
UN-70	11/10/2006	57134.95	35535.72	Trench/TP/Depression			Extends ~50' SE, 1' – 2' deep
UN-71	11/10/2006	57189.86	35606.87	TP			1 TP
UN-72	11/10/2006	57190.17	35687.72	TP/SM			2 TP/SM
UN-73	11/10/2006	57232.81	35720.86	TP/SM			TP/SM
UN-74	11/10/2006	57293.28	35649.29	CS/SM		Ext. 10'	Small CS or SM
UN-75	11/10/2006	57396.34	35610.88	TP/SM		Ext. 10'	Group of 4 TP/SM, largest 5' x 15' x 3' – 4' deep
UN-76	11/10/2006	57511.78	35619.96	TP			TP
UN-77	11/10/2006	57481.06	35520.18	TP/SM			TP/SM
UN-78	11/10/2006	57621.27	35671.89	TP/SM			TP/SM
UN-79	11/10/2006	57593.13	36271.31	TP/SM			TP/SM
UN-8	11/2/2006	58296.63	34351.85	SW/Small CS	2 Posts	flat fan 50' x 50'	12' dia, 9' deep
UN-80	11/10/2006	57471.22	36157.61	TP			TP
UN-81	11/10/2006	57544.20	36176.36	TP			TP
UN-82	11/10/2006	57308.10	36372.24	TP			TP
UN-83	11/13/2006	56608.95	36184.59	TP/SM			10' dia., 6' deep
UN-84	11/13/2006	56700.13	36198.50	CS???		20' x 20'	No obvious shaft or source of WR. 2 depressions/TP upslope (collapsed adit?)
UN-85	11/13/2006	56669.52	36132.03	TP			8' dia., 3' – 4' deep
UN-86	11/13/2006	56803.00	36093.47	TP			2 small TP
UN-87	11/13/2006	56997.93	36254.48	TP			Small TP
UN-88	11/13/2006	57149.63	36220.62	TP			2 TP
UN-89	11/13/2006	57463.54	35720.03	TP			TP
UN-9	11/2/2006	58278.85	34466.07	TP/SM			4' x 15' x 2' deep, steel present
UN-90	11/13/2006	57469.27	35615.35	TP			TP
UN-91	11/14/2006	56409.96	34915.25	TP/SM		10' x 10'	In W side of hill
UN-92	11/14/2006	56537.15	34819.64	TP/SM		Ext. 10'	15' dia, 5' deep
UN-93	11/14/2006	56658.51	34781.13	TP			TP
UN-94	11/14/2006	56664.58	34781.11	TP			TP
UN-95	11/14/2006	56803.82	34666.45	Trench			40' x 4' deep, trends N
UN-96	11/14/2006	57362.21	34578.80	TP			TP
UN-97	11/14/2006	57161.56	34512.94	TP			TP
UN-98	11/14/2006	57405.27	34721.33	TP			2 TP
UN-99	11/14/2006	57550.78	34658.98	TP			TP

NOTE:

1. TABLES INCLUDE WORKINGS THAT HAVE BEEN PREVIOUSLY REMEDIATED.
2. DRAWING IS A NEW ADDITION TO THE ISSUED FOR CONSTRUCTION SET.

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / DS

DISCLAIMER

AMEC PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF TECHNICAL INFORMATION AND PRACTICAL EXPERIENCE SPECIFIC TO ITS EFFORTS. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO SUCH TECHNICAL INFORMATION AND PRACTICAL EXPERIENCE. ANY ALTERATION OR ADAPTATION OF THE DATA OR CONTENTS OF THIS DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO AMEC.

CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: TABLE OF HISTORIC UNDERGROUND WORKINGS SHEET 3 OF 3

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME	DRAWING No.	REV
1125GD120	A67	0

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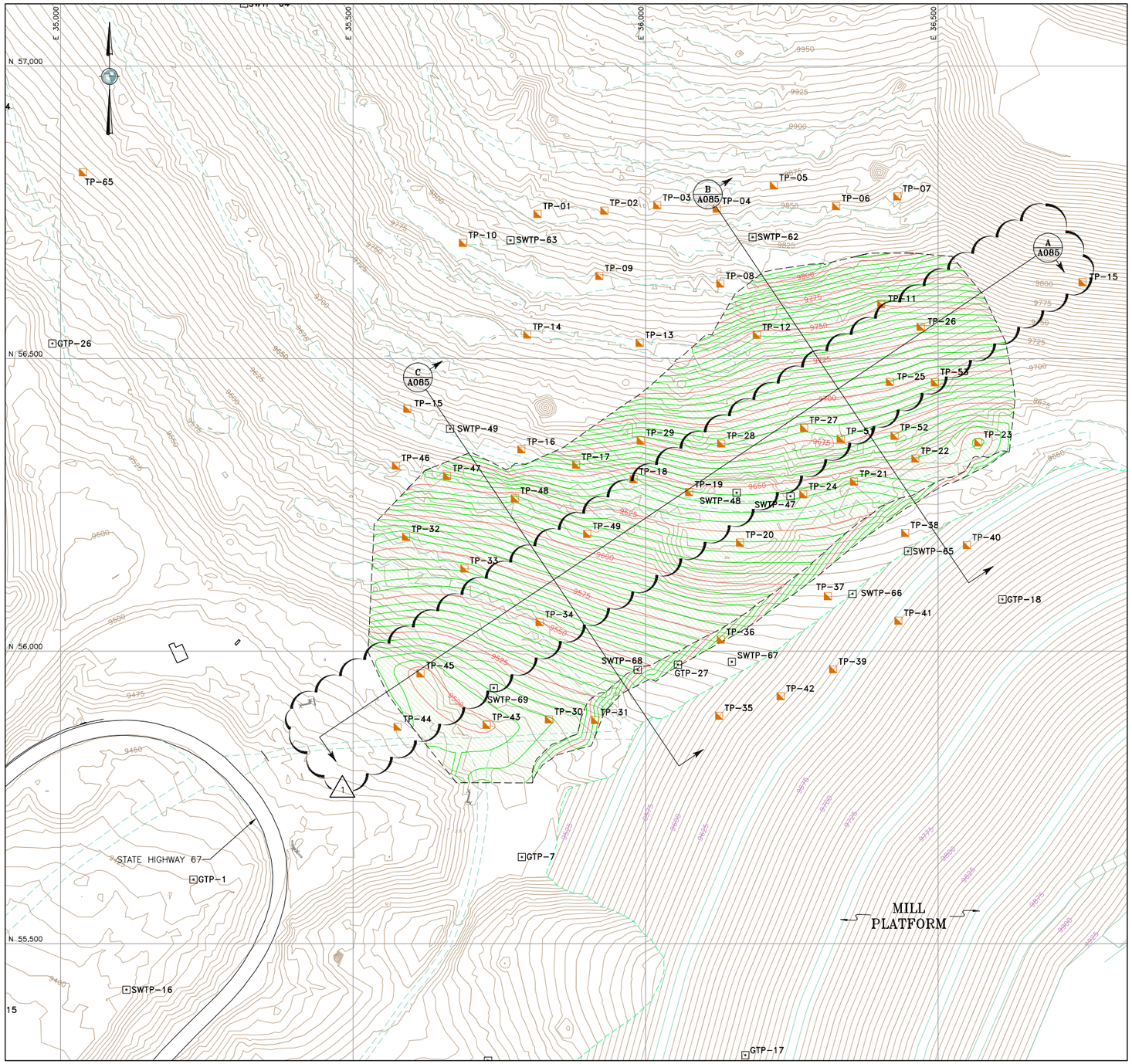
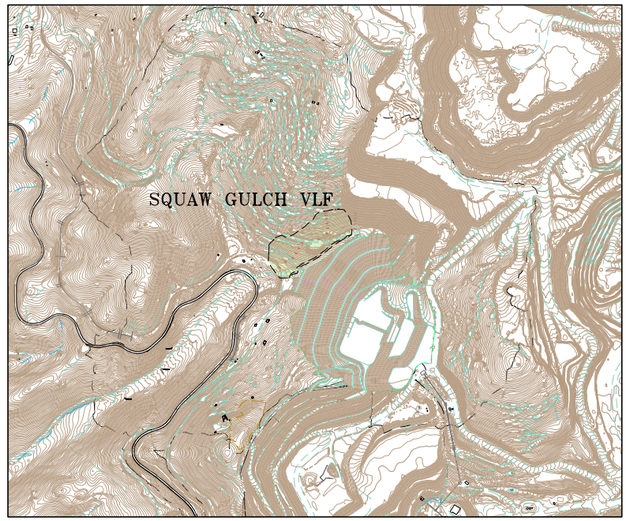


SOIL LINER FILL BORROW

100 0 100 200 FEET



OVERALL PROJECT SITE MAP

1000 0 1000 2000 FEET

LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- APPROXIMATELY BOTTOM OF CLAY BORROW REGRADE
- EXISTING ROADS
- HIGHWAY 67
- EXISTING BUILDING
- TP-50 AMEC TEST PIT JULY 2010
- SWTP-27 SMITH WILLIAMS TEST PIT JUNE 2007
- GTP-15 GOLDER ASSOCIATES TEST PIT 2004
- APPROXIMATE SOIL LINER FILL BORROW AREA

NOTE:

1. BASED ON THE TEST PITS PERFORMED IN THE SOIL LINER FILL BORROW AREA, AMEC HAS ESTIMATED APPROXIMATELY 150,000 CUBIC YARDS OF AVAILABLE BORROW AFTER PROCESSING.
2. REMOVED EXISTING UTILITIES FROM DRAWING.
3. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	08/15/13	REV. SECTION CALLOUT – RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SOIL LINER FILL BORROW AREA SHEET 1 OF 2

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	JNM

FILENAME	DRAWING No.	REV
1125GM05	A80	1

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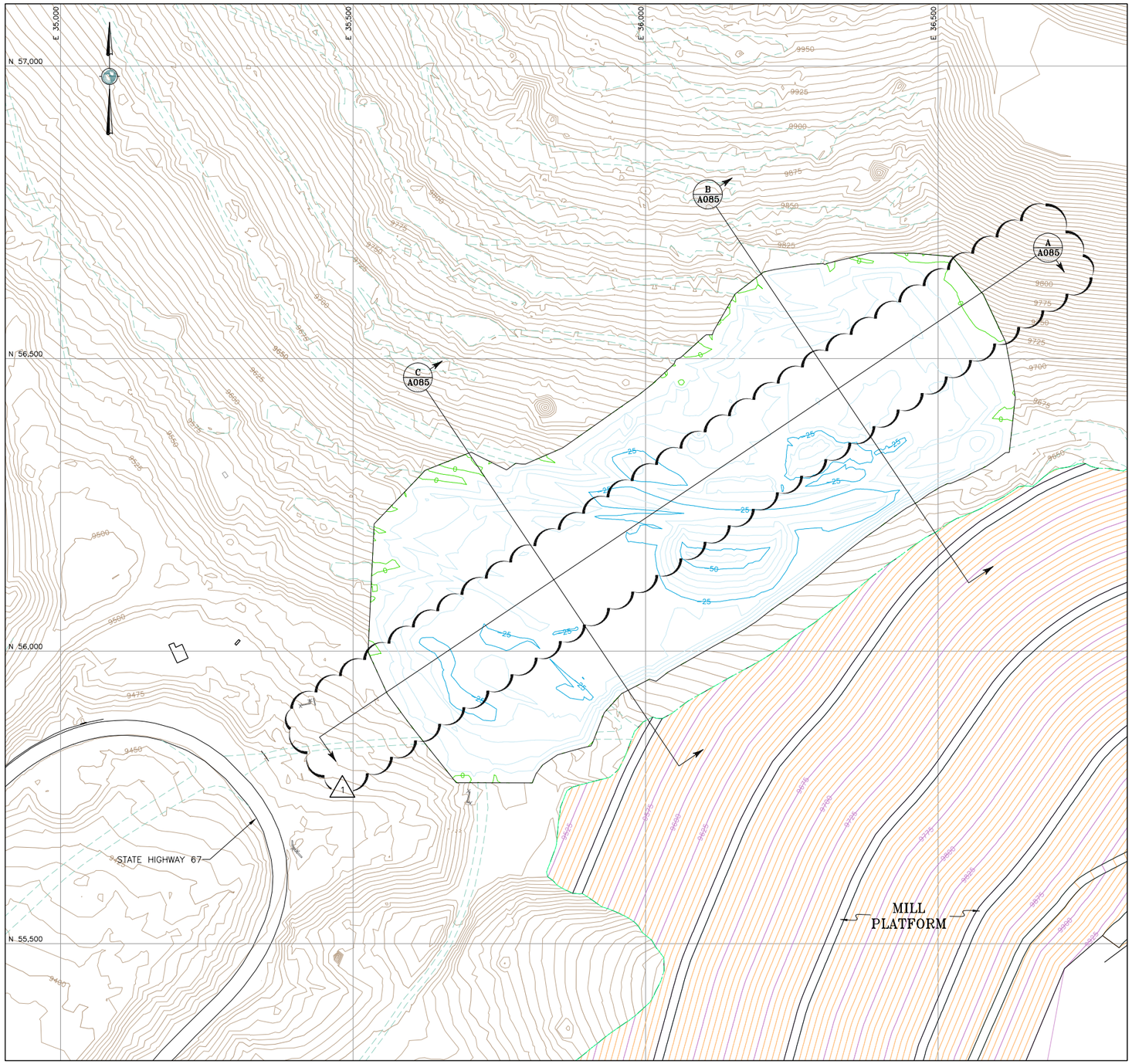
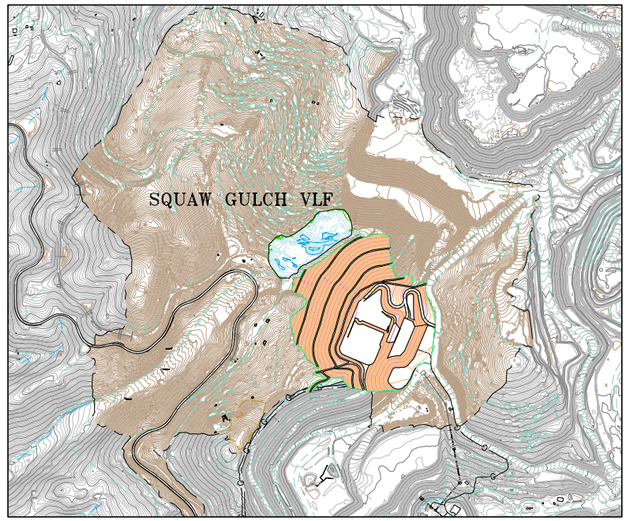


SOIL LINER FILL BORROW

100 0 100 200 FEET



OVERALL PROJECT SITE MAP

1000 0 1000 2000 FEET

LEGEND:

- EXISTING GROUND SURFACE CONTOUR EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- ISOPACH CUT CONTOURS AND EL, FEET
- ISOPACH ZERO CUT/FILL AND EL, FEET
- EXISTING ROADS
- HIGHWAY 67
- EXISTING BUILDING
- TP-50 AMEC TEST PIT JULY 2010
- SWTP-27 SMITH WILLIAMS TEST PIT JUNE 2007
- GTP-15 GOLDER ASSOCIATES TEST PIT 2004
- APPROXIMATE SOIL LINER FILL BORROW AREA

NOTE:

1. BASED ON THE TEST PITS PERFORMED IN THE SOIL LINER FILL BORROW AREA, AMEC HAS ESTIMATED APPROXIMATELY 150,000 CUBIC YARDS OF AVAILABLE BORROW AFTER PROCESSING.
2. DRAWING IS A NEW ADDITION TO THE ISSUED FOR CONSTRUCTION SET.

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	08/15/13	REV. SECTION CALLOUT – RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / DS

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SOIL LINER FILL BORROW AREA ISOPACH

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	JNM

FILENAME	DRAWING No.	REV
1125GM118	A82	1

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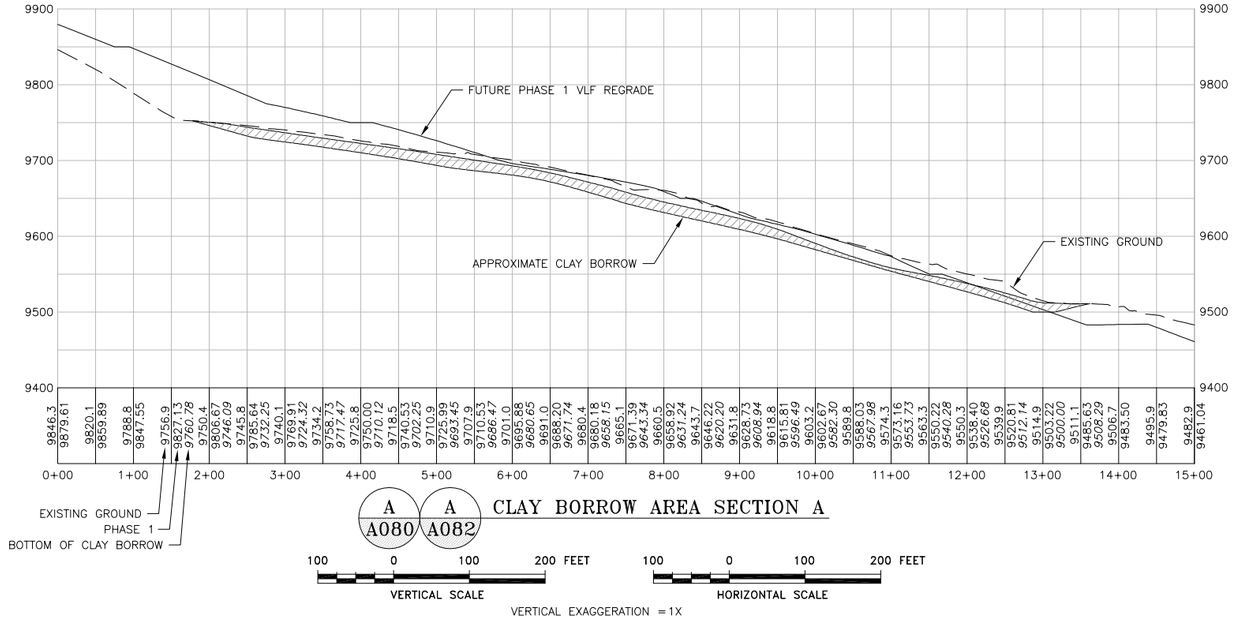

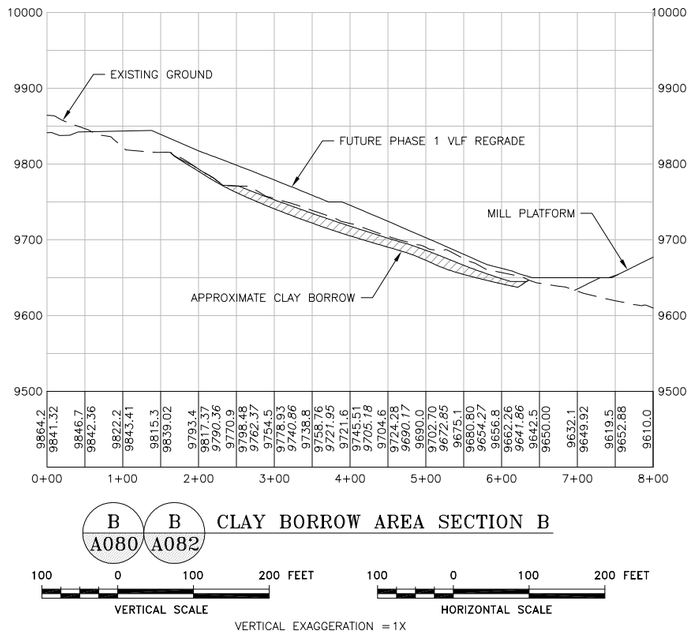

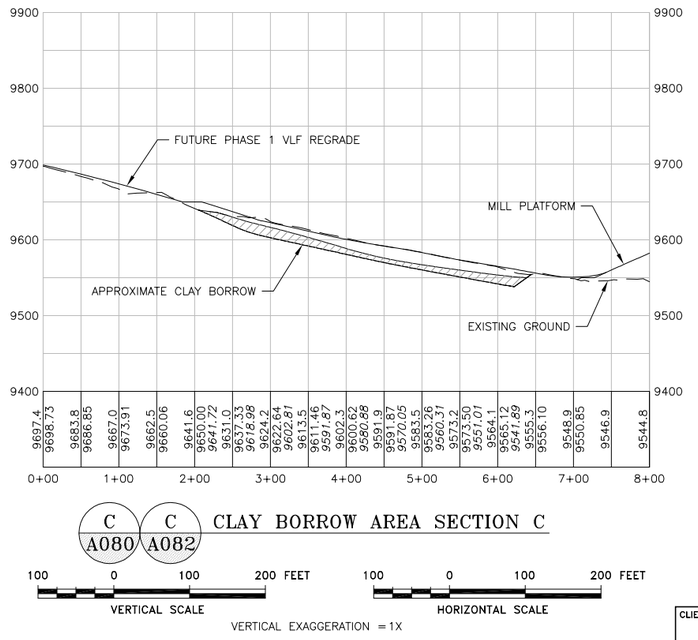

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

DISCLAIMER

AMEC PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF TECHNICAL INFORMATION AND PRACTICAL EXPERIENCE SPECIFIC TO ITS EFFORTS. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO SUCH TECHNICAL INFORMATION AND PRACTICAL EXPERIENCE. ANY ALTERATION OR ADAPTATION OF THE DATA OR CONTENTS OF THIS DRAWING SHALL BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO AMEC.

CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SOIL LINER FILL BORROW AREA SHEET 2 OF 2

DESIGNED BY	CMT	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	JNM

FILENAME: 1125GP111 | DRAWING No.: A85 | REV: 0

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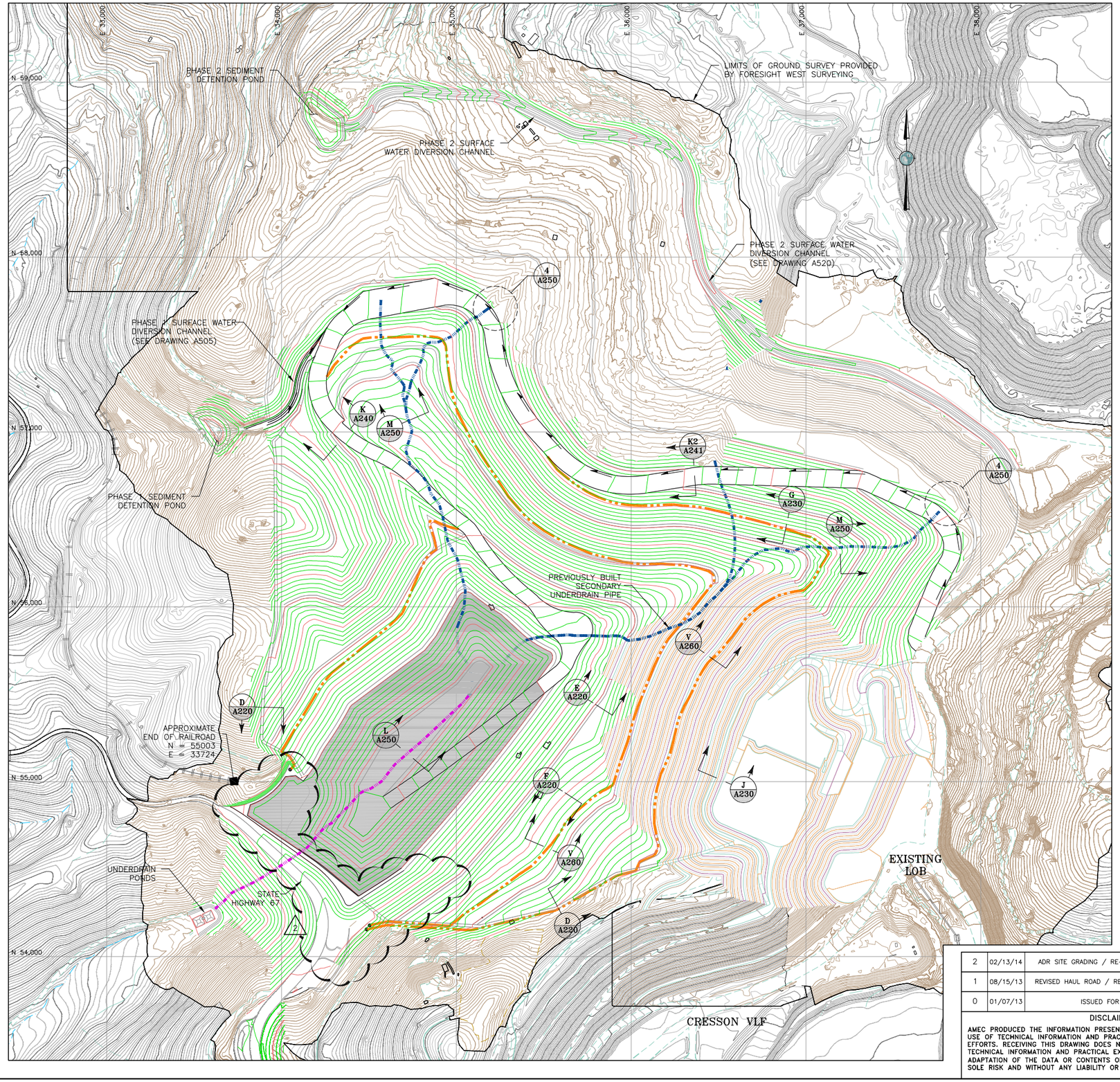

LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- PROPOSED PHASE 1 GROUND SURFACE CONTOUR EL, FEET (PHASE 1)
- PRIMARY UNDERDRAIN PIPE
- SECONDARY UNDERDRAIN PIPE (PHASE 1)
- LEAK DETECTION TRENCH (PHASE 1)
- DAYLIGHT LINE
- APPROXIMATE LIMITS OF DIATREME
- EXISTING UNIMPROVED ROAD/TRAILS
- EXISTING DRAINAGES
- EXISTING GEOMEMBRANE LIMITS
- UNDERDRAIN PUMP BACK PIPE
- EXISTING RAILROAD
- STATE HIGHWAY 67
- EXISTING BUILDING
- DIRECTION OF SURFACE WATER FLOW
- LIMITS OF PSSA
- LEAK DETECTION SUMP

NOTE:

1. PROPOSED CONTOURS REPRESENT TOP OF SOIL LINER FILL.
2. REMOVED EXISTING UTILITIES FROM DRAWING AND PROPOSED PUMP BACK PIPE.
3. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.
4. UNDERDRAIN POND, PHASE 1 & PHASE 2 SEDIMENT DETENTION POND HAVE BEEN REVISED.
5. PHASE 2 SURFACE WATER DIVERSION CHANNEL AND SEDIMENT DETENTION POND WILL BE BUILT WITH PHASE 1.
6. PSSA EMBANKMENT HAS BEEN WIDENED BY 2'.

300 0 300 600 FEET

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	02/13/14	ADR SITE GRADING / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: PHASE 1 SQUAW GULCH GRADING PLAN

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GM55	DRAWING No.	A200
		REV	2

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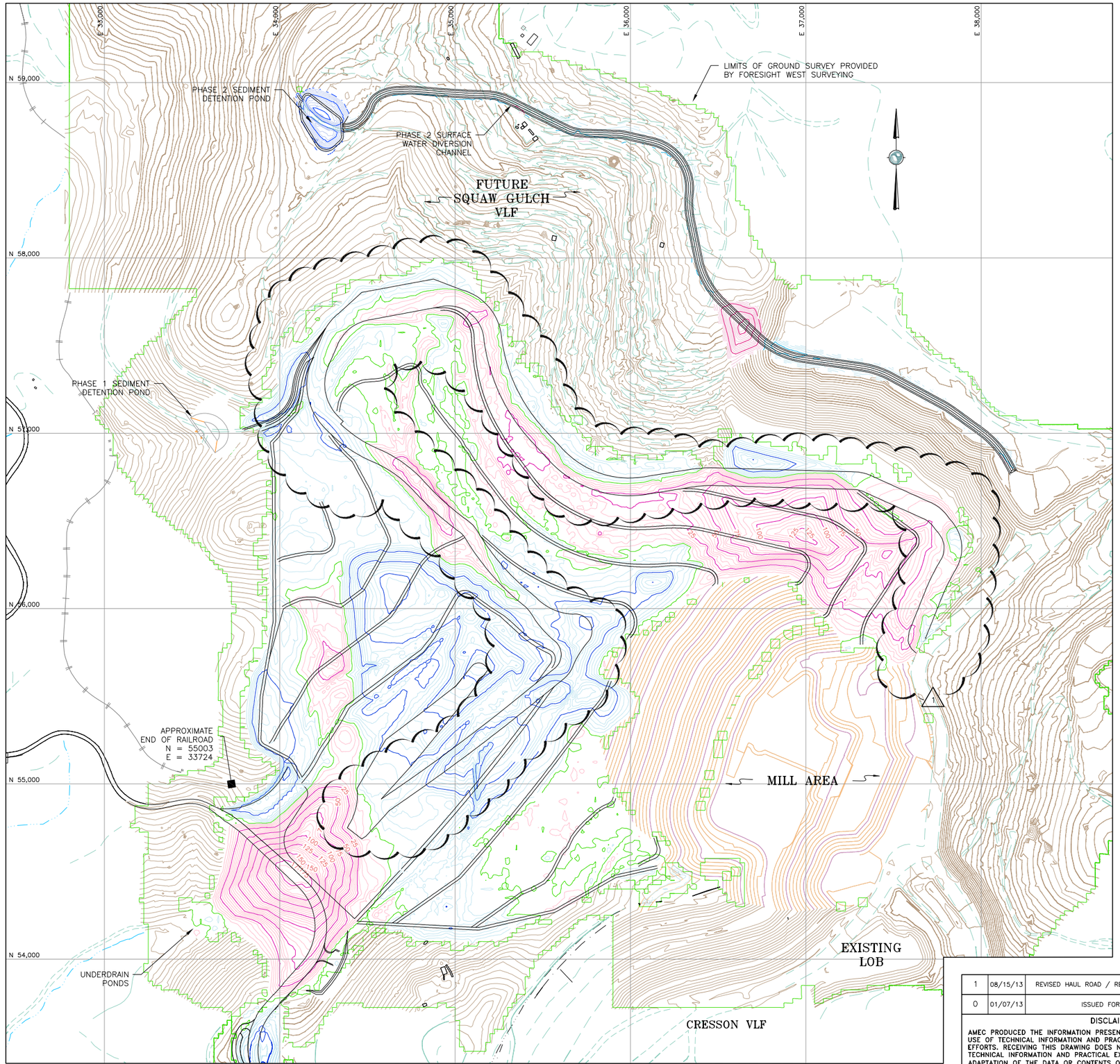

LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- ISOPACH CUT CONTOURS AND EL, FEET
- ISOPACH ZERO CUT/FILL AND EL, FEET
- ISOPACH FILL CONTOURS AND EL, FEET
- DAYLIGHT LINE
- EXISTING UNIMPROVED ROAD/TRAILS
- EXISTING DRAINAGES
- STATE HIGHWAY 67
- EXISTING BUILDING

NOTE:

1. REMOVED EXISTING UTILITIES FROM DRAWING.
2. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.
3. UNDERDRAIN POND, PHASE 1, AND PHASE 2 SEDIMENT DETENTION POND HAVE BEEN REVISED.
4. PHASE 2 SURFACE WATER DIVERSION CHANNEL AND SEDIMENT DETENTION POND WILL BE BUILT WITH PHASE 1 (1)
5. PSSA EMBANKMENT HAS BEEN WIDENED BY 2'.

300 0 300 600 FEET

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: PHASE 1 SQUAW GULCH GRADING PLAN ISOPACH

DESIGNED BY	CMT	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	JNM
FILENAME	1125GP92	DRAWING No.	A201
REV	1		

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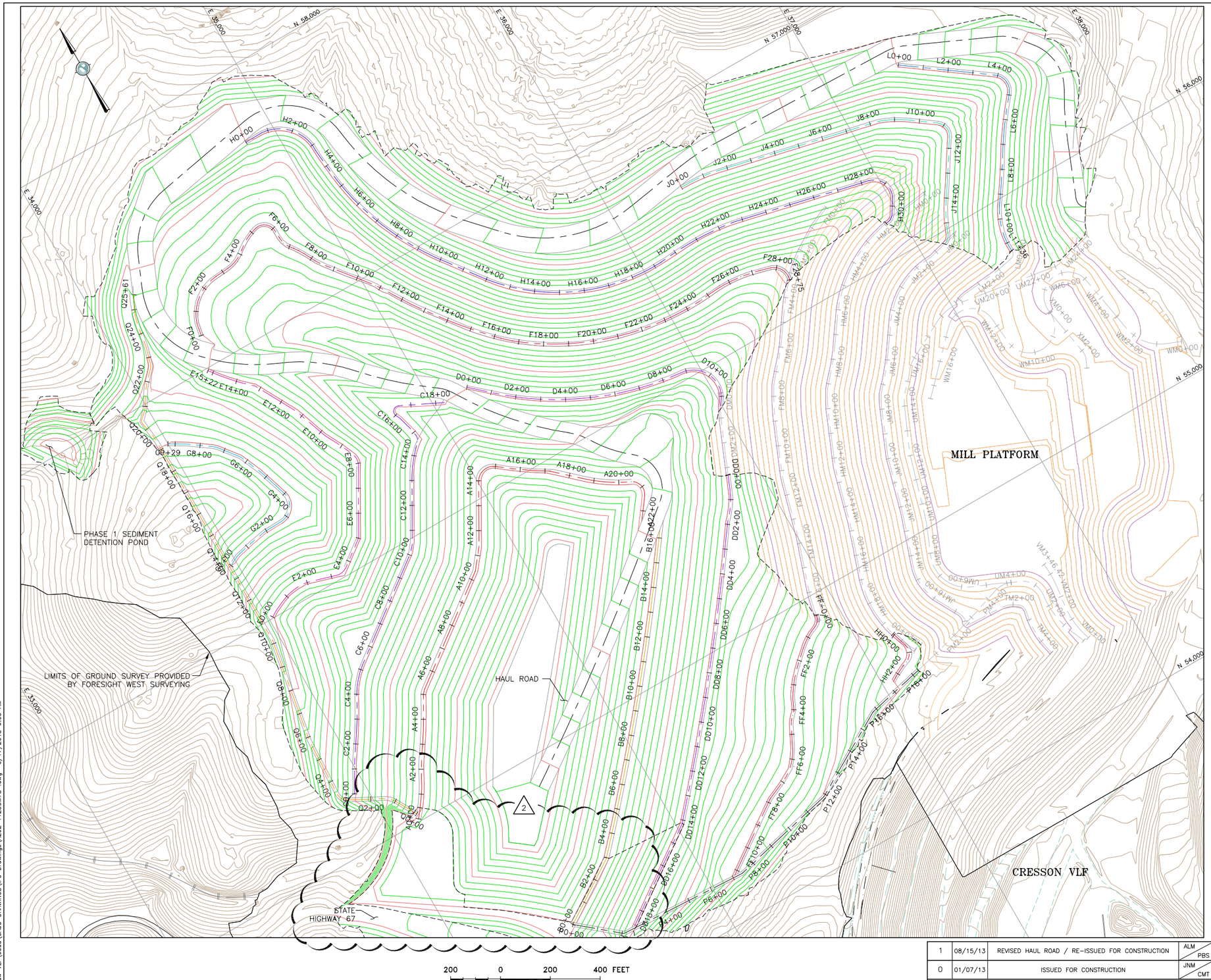

LEGEND:

- 5900 — EXISTING GROUND CONTOUR AND EL, FEET (AERIAL SURVEY)
- 9200 — EXISTING GROUND SURFACE CONTOUR AND EL, FEET
- 100 — MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- 9200 — FINISHED GRADE GROUND SURFACE CONTOUR EL, FEET
- DAYLIGHT LINE
- A6+00 — 9450 ELEVATION CONSTRUCTION ROAD CENTERLINE
- B6+00 — 9450 ELEVATION CONSTRUCTION ROAD CENTERLINE
- C6+00 — 9550 ELEVATION CONSTRUCTION ROAD CENTERLINE
- D6+00 — 9550 ELEVATION CONSTRUCTION ROAD CENTERLINE
- E6+00 — 9650 ELEVATION CONSTRUCTION ROAD CENTERLINE
- F6+00 — 9650 ELEVATION CONSTRUCTION ROAD CENTERLINE
- G6+00 — 9750 ELEVATION CONSTRUCTION ROAD CENTERLINE
- H6+00 — 9750 ELEVATION CONSTRUCTION ROAD CENTERLINE
- J6+00 — 9850 ELEVATION CONSTRUCTION ROAD CENTERLINE
- L6+00 — 9950 ELEVATION CONSTRUCTION ROAD CENTERLINE
- P6+00 — SOUTH PERIMETER ROAD CENTERLINE
- Q6+00 — WEST PERIMETER ROAD CENTERLINE
- JM6+00 — MILL SITE CONSTRUCTION ROAD CENTERLINES
- EXISTING UNIMPROVED ROAD/TRAILS
- EXISTING DRAINAGES
- EXISTING RAILROAD

NOTES:

1. PHASE 1 CONSTRUCTION ROAD CENTERLINE ALIGNMENT DATA CAN BE FOUND ON DRAWINGS A203.
2. 9450 (B BENCH) CONSTRUCTION ROAD PLAN, PROFILE AND ALIGNMENT DATA CAN BE FOUND ON DRAWING A249.
3. SOUTH PERIMETER ROAD PLAN, PROFILE AND ALIGNMENT DATA CAN BE FOUND ON DRAWING A244.
4. PHASE 1 WEST PERIMETER ROAD PLAN, PROFILE AND ALIGNMENT DATA CAN BE FOUND ON DRAWING A245.
5. HAUL ROAD PLAN, PROFILE AND ALIGNMENT DATA CAN BE FOUND ON DRAWINGS A240–A243.
6. REMOVED EXISTING UTILITIES FROM DRAWING.
7. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.
8. PHASE 1 SEDIMENT POND HAS BEEN REVISED.
9. PSSA EMBANKMENT HAS BEEN WIDENED BY 2'.

2	02/13/14	ADR SITE GRADING / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: PHASE 1 GRADING ALIGNMENT PLAN VIEW

DESIGNED BY	CMT	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	JNM
FILENAME	1125GM78	DRAWING No.	A202
		REV	2

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BENCH ALIGNMENT A

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L75	0+00.00	55,011.44	34,118.40			
C88	0+35.52	55,039.24	34,140.50	11–26–09	672.00	134.13
C89	1+69.65	55,151.82	34,213.00	6–47–44	555.00	65.83
L76	2+35.47	55,208.53	34,246.35			
C90	2+91.89	55,255.38	34,277.78	5–18–04	2,044.00	189.11
L77	4+81.00	55,417.07	34,375.73			
C91	4+95.29	55,429.62	34,382.56	24–38–56	60.00	25.81
L78	5+21.10	55,448.99	34,399.32			
C92	10+34.23	55,756.34	34,810.22	14–28–39	20.00	5.05
L79	10+39.28	55,759.84	34,813.85			
C93	11+34.33	55,833.99	34,873.31	9–02–08	20.00	3.15
L80	11+37.48	55,836.59	34,875.08			
C94	13+98.29	56,063.15	35,004.26	99–12–31	60.00	103.89
L81	15+02.18	56,080.13	35,094.06			
C95	15+07.77	56,076.62	35,098.41	7–44–15	1,560.00	210.67
C96	17+18.44	55,955.78	35,270.79	11–26–49	20.00	4.00
L82	17+22.44	55,953.38	35,273.98			
C97	18+56.49	55,862.63	35,372.64	17–37–27	630.00	193.79
C98	20+50.27	55,755.26	35,533.05	101–38–16	50.00	88.70
L83	21+38.97	55,680.12	35,552.06			

BENCH ALIGNMENT C

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L84	0+00.00	55,226.51	33,946.74			
C99	1+07.87	55,320.19	34,000.22	0–50–45	2,628.82	38.81
L85	1+46.68	55,353.18	34,020.66			
C100	2+05.29	55,401.43	34,053.94	0–39–00	4,220.19	47.87
L86	2+53.16	55,441.47	34,080.18			
C101	3+01.48	55,482.58	34,105.56	0–15–53	9,226.15	42.65
L87	3+44.13	55,519.41	34,127.06			
C102	3+97.68	55,566.51	34,152.56	21–01–21	329.29	120.82
L88	5+18.50	55,657.34	34,231.19			
C103	9+90.15	55,939.82	34,608.90	16–28–45	188.61	54.25
L89	10+44.40	55,977.61	34,647.55			
C104	13+07.91	56,206.55	34,778.03	14–55–52	475.97	124.04

BENCH ALIGNMENT D

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L91	0+00.00	56,413.13	35,151.68			
C106	1+00.00	56,346.19	35,225.96	17–54–44	1,153.82	360.72
C107	4+60.71	56,146.06	35,524.31	20–29–13	1,168.55	417.83
C108	8+78.54	56,034.33	35,924.61	131–57–54	113.19	260.70

BENCH ALIGNMENT DD

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L92	0+00.00	55,585.31	35,883.29			
C109	0+63.81	55,526.46	35,858.64	21–54–37	300.00	114.72
C110	1+78.53	55,431.58	35,795.41	9–15–58	100.00	16.17
C111	1+94.70	55,419.20	35,785.02	6–26–06	10,840.00	1,217.44
C112	14+12.14	54,468.08	35,026.11	13–04–21	20.00	4.56
L93	14+16.70	54,465.05	35,022.71			

BENCH ALIGNMENT E

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L94	0+00.00	56,004.98	34,017.02			
C113	0+24.77	56,017.99	34,038.09	6–42–56	20.00	2.34
L95	0+27.11	56,019.10	34,040.15			
C114	0+69.23	56,036.88	34,078.34	1–42–07	20.00	0.59
L96	0+69.83	56,037.12	34,078.88			
C115	0+83.09	56,042.36	34,091.06	40–04–37	200.00	139.89
L97	2+22.98	56,050.09	34,227.90			
C116	3+08.85	56,025.26	34,310.10	1–14–35	20.00	0.43
L98	3+09.28	56,025.13	34,310.52			
C117	3+17.87	56,022.47	34,318.68	54–50–44	59.00	56.48
L99	3+74.35	56,031.32	34,372.30			
C118	4+97.31	56,104.97	34,470.77	23–30–47	20.00	8.21
L100	5+05.52	56,111.08	34,476.17			
C119	7+53.23	56,326.27	34,598.86	3–16–25	591.00	33.77
C120	7+87.00	56,355.11	34,616.42	56–16–52	57.00	55.99
L101	8+42.99	56,408.68	34,620.94			
C121	8+93.76	56,455.31	34,600.84	4–20–33	20.00	1.52
L102	8+95.28	56,456.68	34,600.19			
C122	9+77.50	56,529.51	34,562.02	8–07–59	20.00	2.84
L103	9+80.34	56,532.11	34,560.88			
C123	11+26.56	56,669.91	34,512.01	8–56–33	20.00	3.12
L104	11+29.68	56,672.76	34,510.75			
C124	13+19.98	56,840.05	34,420.04	20–22–25	20.00	7.11
C125	13+27.09	56,845.58	34,415.62	13–33–51	810.00	191.76
L105	15+18.85	56,987.62	34,287.46			

BENCH ALIGNMENT F

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L1	0+00.00	57,125.30	34,332.78			
C1	0+50.98	57,175.50	34,341.72	66–50–30	184.82	215.61
L2	2+66.60	57,300.67	34,502.29			
C2	3+22.22	57,304.98	34,557.75	36–49–30	151.14	97.14
C3	4+19.36	57,342.06	34,645.73	28–02–43	210.97	103.27
C4	5+22.63	57,388.87	34,736.62	106–18–24	50.96	94.56
L3	6+17.19	57,336.52	34,799.17			
C5	6+45.86	57,307.88	34,800.46	33–08–14	92.00	53.21
C6	6+99.07	57,258.00	34,816.73	6–30–45	345.21	39.24
C7	7+38.31	57,226.60	34,840.23	8–23–07	390.68	57.18
C8	7+95.48	57,176.81	34,868.25	10–03–01	251.23	44.07
L4	8+39.55	57,138.31	34,889.58			
L5	10+79.62	56,950.34	35,038.90			
C9	11+68.67	56,874.63	35,085.77	12–47–58	2,054.79	459.03
L6	16+27.69	56,514.48	35,368.83			
C10	16+73.15	56,483.29	35,401.91	41–42–43	1,092.00	794.99
C11	24+68.14	56,245.52	36,142.21	16–55–31	620.24	183.22
C12	26+51.36	56,247.39	36,324.75	8–06–27	874.37	123.73
C13	27+75.08	56,219.31	36,445.14	88–55–36	64.58	100.23

BENCH ALIGNMENT FF

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
C141	–0+00.00	54,921.48	35,908.76	60–37–27	50.00	52.90
C142	0+52.90	54,882.02	35,877.28	21–01–10	257.00	94.28
L120	1+47.19	54,832.87	35,797.44			
C143	2+08.95	54,791.45	35,751.64	13–41–12	500.00	119.44
C144	3+28.38	54,701.56	35,673.42	12–58–24	250.00	56.61
C145	3+84.99	54,651.55	35,647.17	28–05–52	80.00	39.23
C146	4+24.22	54,619.83	35,624.74	22–48–37	100.00	39.81
L121	4+64.03	54,588.63	35,600.45			
C147	5+57.15	54,505.29	35,558.90	39–35–57	200.00	138.23
L122	6+95.38	54,411.68	35,460.94			
C148	7+79.68	54,377.53	35,383.87	11–13–21	50.00	9.79
L123	7+89.48	54,372.71	35,375.36			

BENCH ALIGNMENT G

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L111	0+00.00	56,266.90	33,975.54			
L124	0+00.00	56,266.90	33,975.54			
C133	0+45.39	56,286.75	34,016.36	13–25–27	20.00	4.69
C149	0+45.39	56,286.75	34,016.36	13–25–27	20.00	4.69
L112	0+50.08	56,288.34	34,020.76			
L125	0+50.08	56,288.34	34,020.76			
C134	1+22.51	56,304.78	34,091.29	2–58–26	20.00	1.04
C150	1+22.51	56,304.78	34,091.29	2–58–26	20.00	1.04
L113	1+23.54	56,304.99	34,092.31			
L126	1+23.54	56,304.99	34,092.31			
C135	1+89.51	56,316.62	34,157.24	8–37–58	20.00	3.01
C151	1+89.51	56,316.62	34,157.24	8–37–58	20.00	3.01
L114	1+92.52	56,316.92	34,160.24			
L127	1+92.52	56,316.92	34,160.24			
C136	2+69.68	56,318.97	34,237.37	106–16–18	72.00	133.54
C152	2+69.68	56,318.97	34,237.37	106–16–18	72.00	133.54
L115	4+03.22	56,412.94	34,304.02			
L128	4+03.22	56,412.94	34,304.02			
C137	5+28.31	56,532.05	34,265.80	5–34–08	20.00	1.94
C153	5+28.31	56,532.05	34,265.80	5–34–08	20.00	1.94
L116	5+30.26	56,533.87	34,265.12			
L129	5+30.26	56,533.87	34,265.12			
C138	6+27.85	56,623.46	34,226.42	14–38–17	20.00	5.11
C154	6+27.85	56,623.46	34,226.42	14–38–17	20.00	5.11
L117	6+32.96	56,627.85	34,223.82			
L130	6+32.96	56,627.85	34,223.82			
C139	7+24.57	56,700.04	34,167.42	16–22–59	87.00	24.88
C155	7+24.57	56,700.04	34,167.42	16–22–59	87.00	24.88
L118	7+49.45	56,717.21	34,149.53			
L131	7+49.45	56,717.21	34,149.53			
C140	8+50.96	56,776.32	34,067.02	4–52–05	20.00	1.70
C156	8+50.96	56,776.32	34,067.02	4–52–05	20.00	1.70
L119	8+52.65	56,777.25	34,065.60			
L132	8+52.65	56,777.25	34,065.60			

BENCH ALIGNMENT H

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L133	0+00.00	57,707.31	34,875.79			
C157	0+74.08	57,708.36	34,949.86	87–28–55	165.21	252.25
L134	3+26.33	57,537.18	35,101.15			
C158	4+14.69	57,449.17	35,108.88	30–01–09	1,075.40	563.44
L135	9+78.12	56,927.12	35,303.14			
C159	12+00.77	56,748.51	35,436.06	53–20–26	782.98	728.93
C160	19+29.70	56,457.86	36,076.04	15–04–39	1,266.93	333.39
L136	22+63.09	56,452.16	36,408.42			
C161	28+31.32	56,324.50	36,962.12	100–20–10	74.35	130.20
L137	29+61.52	56,221.95	37,012.35			
C162	30+35.86	56,158.70	36,973.29	49–17–01	40.13	34.52
L138	30+70.38	56,142.48	36,944.02			

BENCH ALIGNMENT HH

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L145	0+00.00	54,702.31	36,137.42			
C172	0+65.58	54,639.82	36,157.28	87–30–11	50.00	76.36
L146	1+41.94	54,577.72	36,126.84			
C173	1+58.82	54,571.91	36,110.98	6–14–03	50.00	5.44
L147	1+64.26	54,569.77	36,105.99			
C174	2+09.98	54,549.47	36,065.03	5–49–20	100.00	10.16
L148	2+20.14	54,544.50	36,056.16			

BENCH ALIGNMENT J

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L139	0+00.00	56,677.76	36,297.37			
C163	0+54.32	56,676.28	36,351.67	9–51–38	503.92	86.73
L140	1+41.04	56,666.37	36,437.72			
C164	8+33.39	56,511.62	37,112.55	16–39–46	408.02	118.66
L141	9+52.05	56,457.82	37,217.84			
C165	10+74.01	56,386.54	37,316.80	96–27–30	54.38	91.55
L142	11+65.55	56,305.71	37,323.61			
L143	13+39.55	56,159.30	37,229.59			
C166	13+97.87	56,110.91	37,197.04	15–23–49	540.87	145.35
C167	15+43.22	55,982.32	37,130.24	48–47–43	49.15	41.86

BENCH ALIGNMENT L

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L144	0+00.00	56,666.87	37,296.34			
C168	3+84.90	56,440.99	37,607.99	97–08–20	64.37	109.14
C169	4+94.03	56,345.86	37,624.35	7–08–43	1,684.40	210.06
C170	7+04.09	56,178.17	37,498.07	4–56–34	2,673.95	230.67
C171	9+34.76	55,985.16	37,371.88	39–16–22	293.02	200.85

1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	RE-ISSUED FOR CONSTRUCTION	MN / PBS

DISCLAIMER

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: PHASE 1 GRADING
HORIZONTAL ALIGNMENT DATA

DESIGNED BY	ALM	CHECKED BY	ALM
DRAWN BY	PBS	APPROVED BY	ALM

FILENAME: 74201125G – A203 | DRAWING No.: A203 | REV: 1

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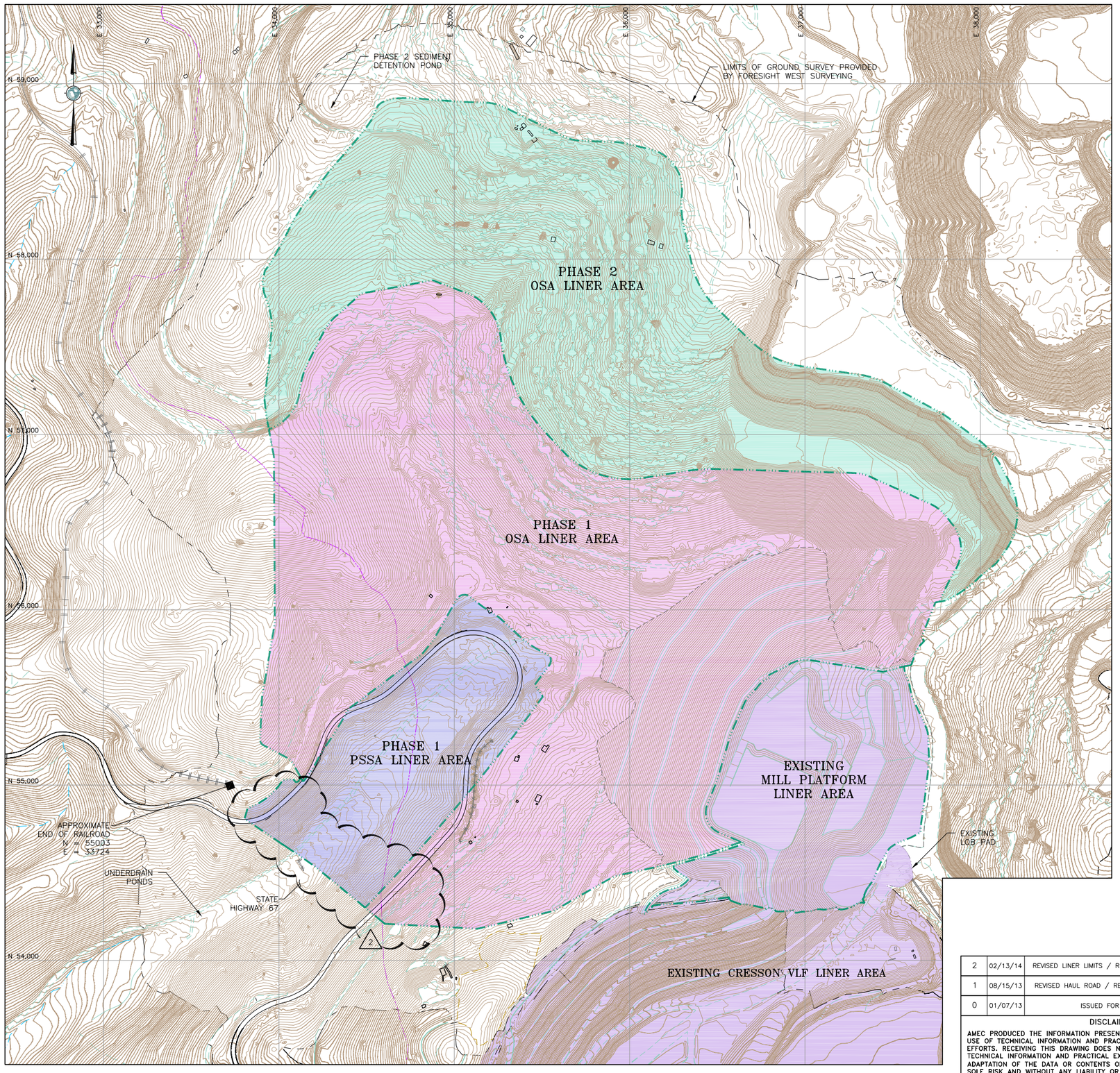

LEGEND:

- 9200 — EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- 9200 — EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- 100 — MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- 9200 — PROPOSED GROUND SURFACE CONTOUR EL, FEET
- PHASE 1 OSA LINER LIMITS (80 mil DOUBLE SIDED TEXTURED LLDPE GEOMEMBRANE)
- PHASE 2 OSA LINER LIMITS (80 mil DOUBLE SIDED TEXTURED LLDPE GEOMEMBRANE)
- PSSA LINER LIMITS (SEE NOTE 1)
- EXISTING CRESSON VLF LINER LIMITS
- LINER LIMITS
- DAYLIGHT LINE
- APPROXIMATE LIMITS OF DIATREME
- EXISTING UNIMPROVED ROAD/TRAILS
- EXISTING DRAINAGES
- RAILROAD ALIGNMENT
- STATE HIGHWAY 67

NOTES:

1. THE GEOMEMBRANE LINERS INSIDE THE PSSA ARE AS FOLLOWS:
   100 mil SMOOTH LLDPE ON TOP
   100 mil SINGLE SIDED TEXTURED (TEXTURED SIDE DOWN) LLDPE ON THE BOTTOM
2. PROPOSED CONTOURS REPRESENT TOP OF SOIL LINER FILL.
3. REMOVED EXISTING UTILITIES FROM DRAWING.
4. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM AND MILL LINER SURFACE.
5. UNDERDRAIN POND AND PHASE 2 SEDIMENT POND HAVE BEEN REVISED.
6. PHASE 2 SURFACE WATER DIVERSION CHANNEL AND SEDIMENT DETENTION POND WILL BE BUILT WITH PHASE 1.
7. PSSA EMBANKMENT HAS BEEN WIDENED BY 2'.

300 0 300 600 FEET

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	02/13/14	REVISED LINER LIMITS / RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: OVERALL LINER LIMITS

DESIGNED BY	JNM	CHECKED BY	MEN
DRAWN BY	CMT	APPROVED BY	CJB
FILENAME	1125GM63	DRAWING No.	A215
REV	2		

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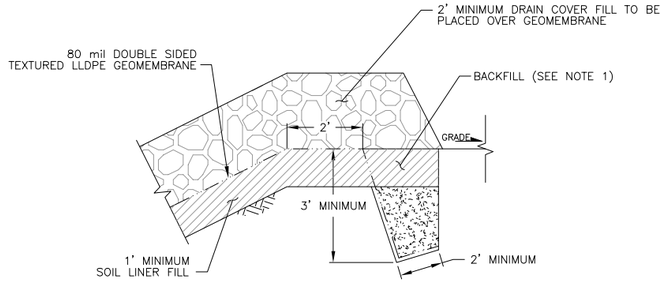

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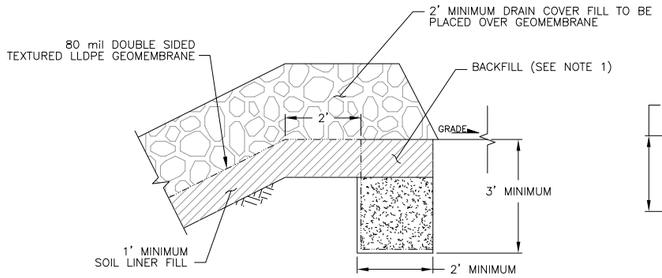
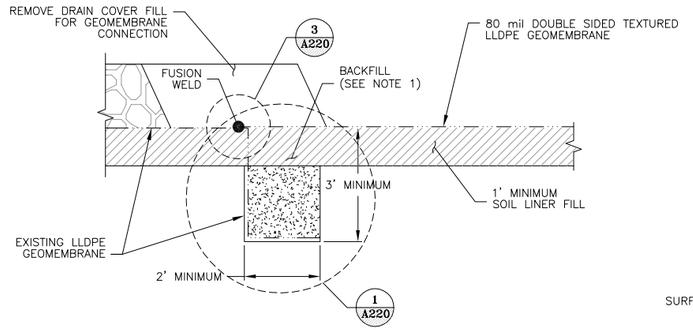


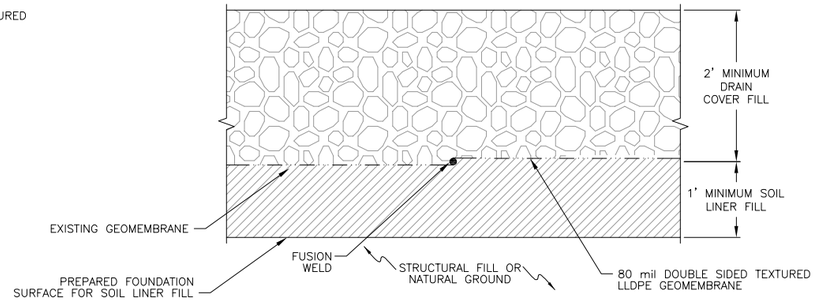
2 A220 / 2 A230 / 2 A240 PHASED LINER CONNECTION SECTION

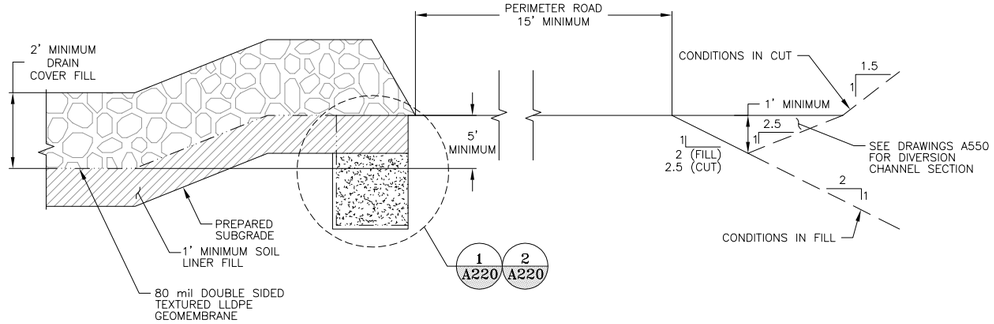
NTS

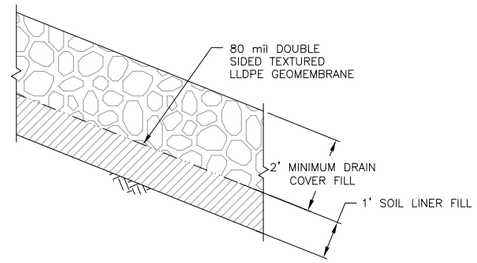


3 A220 / 3 A260 FUSION WELD DETAIL AFTER OPTIONAL REMOVAL OF INTERIM ANCHOR TRENCH

NTS







F A200 / F A210 OSA LINER SECTION

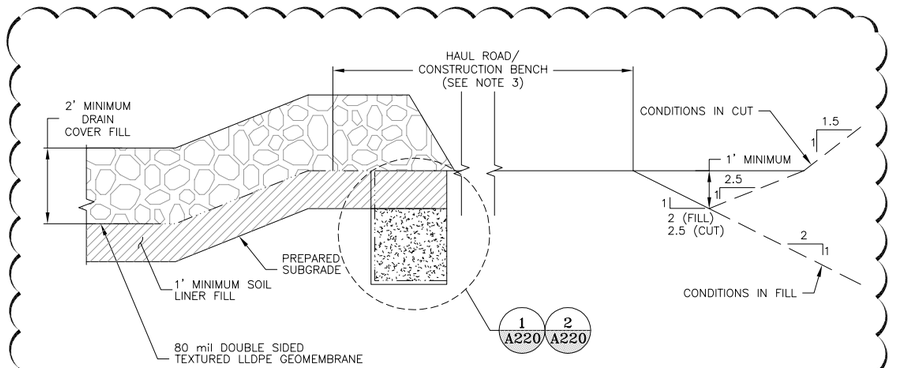
NTS

1 A220 / 1 A230 / 1 A550 ORE STORAGE AREA ANCHOR TRENCH

NTS

D A200 / D A210 / D A244 / D A245 / D A246 / D A248 TYPICAL PERIMETER DETAIL

NTS



E A200 / E A210 / E A249 TYPICAL HAUL ROAD/CONSTRUCTION BENCH DETAIL

NTS

1

NOTES:

1. COMPACTED SOIL LINER FILL OR OTHER FILL APPROVED BY THE MANAGER TO BACKFILL ANCHOR TRENCH. ANCHOR TRENCHES INTERNAL TO THE VLF WILL BE BACKFILLED WITH SOIL LINER FILL FOR THE UPPER 1FT (MIN.).
2. REFER TO PROJECT SPECIFICATIONS REGARDING MINIMUM DRAIN COVER FILL DEPTHS FOR WORKING OVER GEOSYNTHETICS AND PIPING WITH RUBBER TIRE OR TRACK MOUNTED EQUIPMENT.
3. CONSTRUCTION BENCH WIDTH IS 15FT. 1

1	08/15/13	REVISED NOTES – RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

DISCLAIMER

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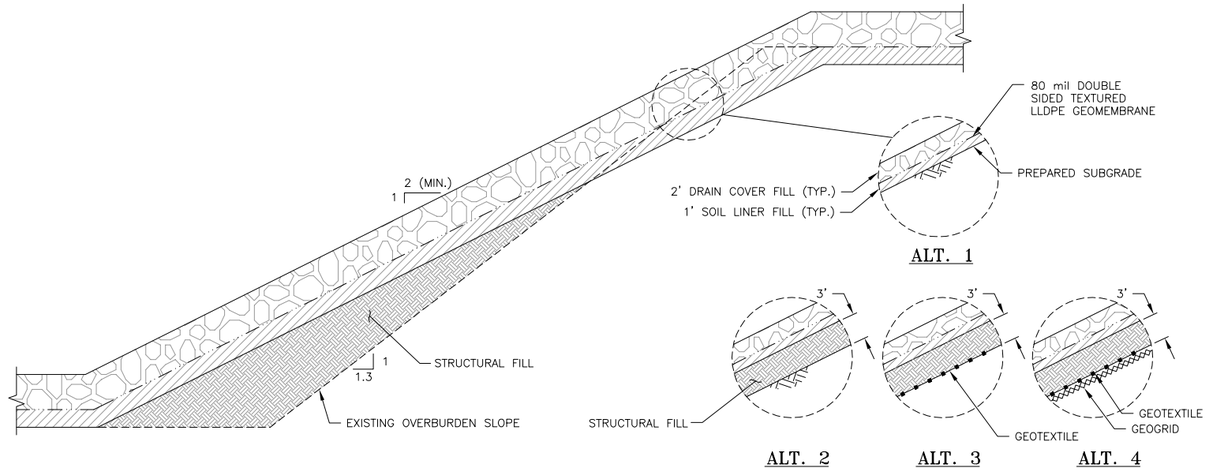
CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

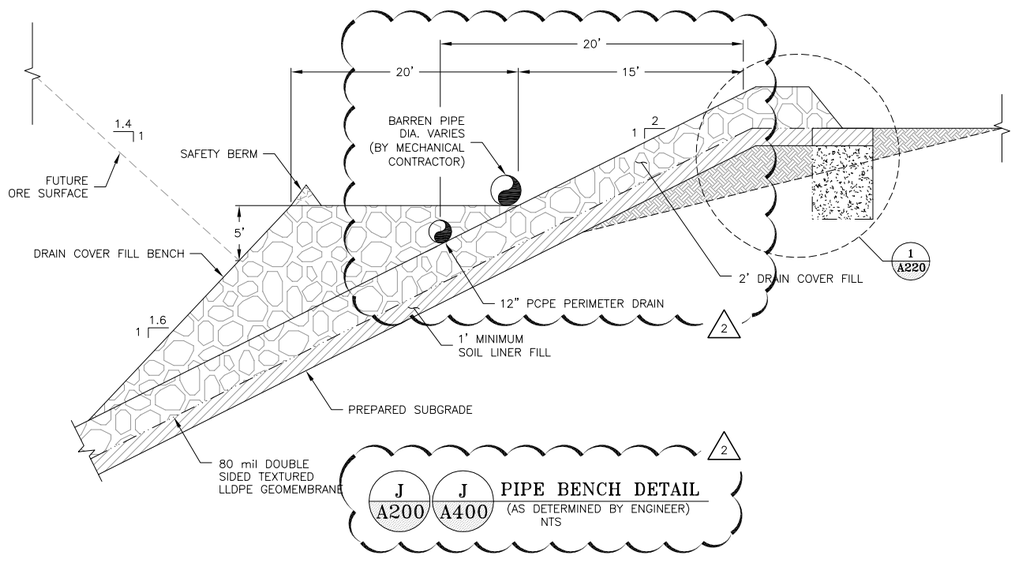
TITLE: VALLEY LEACH FACILITY SECTIONS AND DETAILS SHEET 1 OF 2

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GD23	DRAWING No.	A220
		REV	1

S:\CAD\1125-Squaw VLF\cadd\CADD DRAWINGS\VFC Drawings\A220 a220-11250023.dwg 1/21/2013 2:41 PM



G/A200 G/A210 OVERBURDEN STORAGE AREA SLOPE PREPARATION
(AS DETERMINED BY ENGINEER, SEE NOTE 1)
NTS



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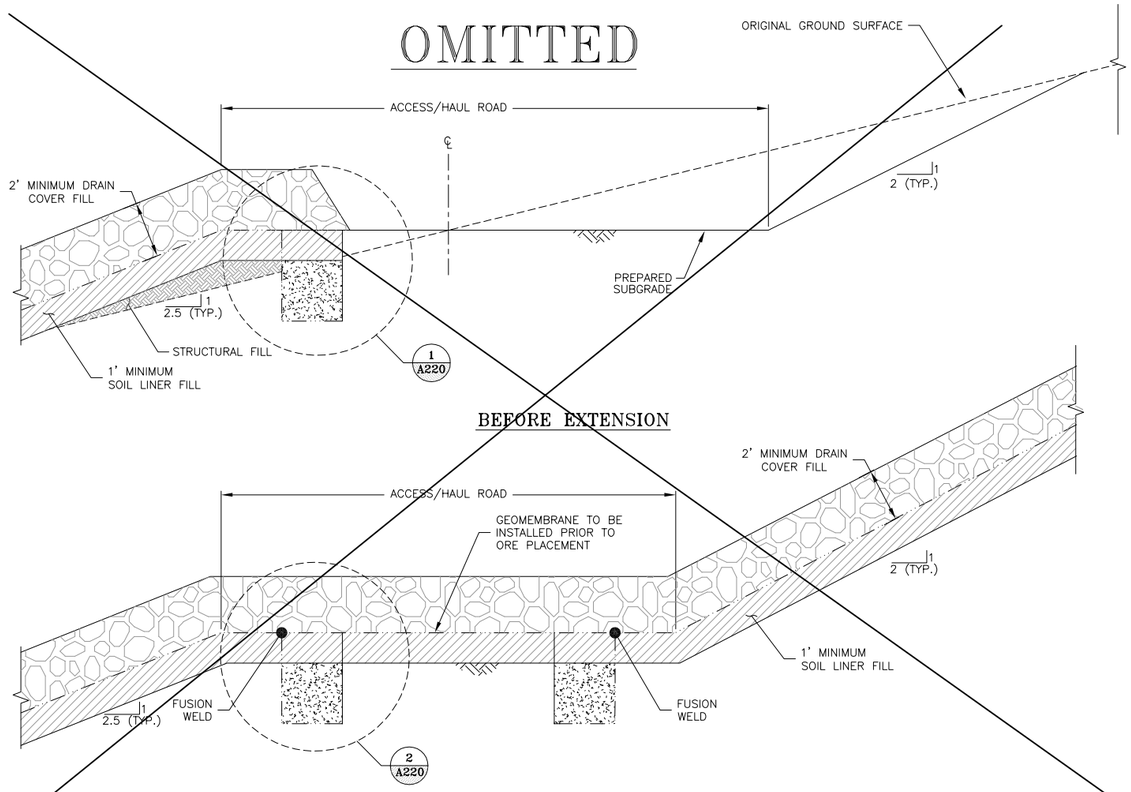

H/A200 H/A210 INTERIM ANCHOR TRENCH
NTS

NOTES:

1. OVERBURDEN STORAGE AREA SLOPE PREPARATION ALTERNATIVE TO BE DETERMINED BY ENGINEER.

2	08/08/14	REV. DETAIL / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	MEN / CAS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

DISCLAIMER
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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

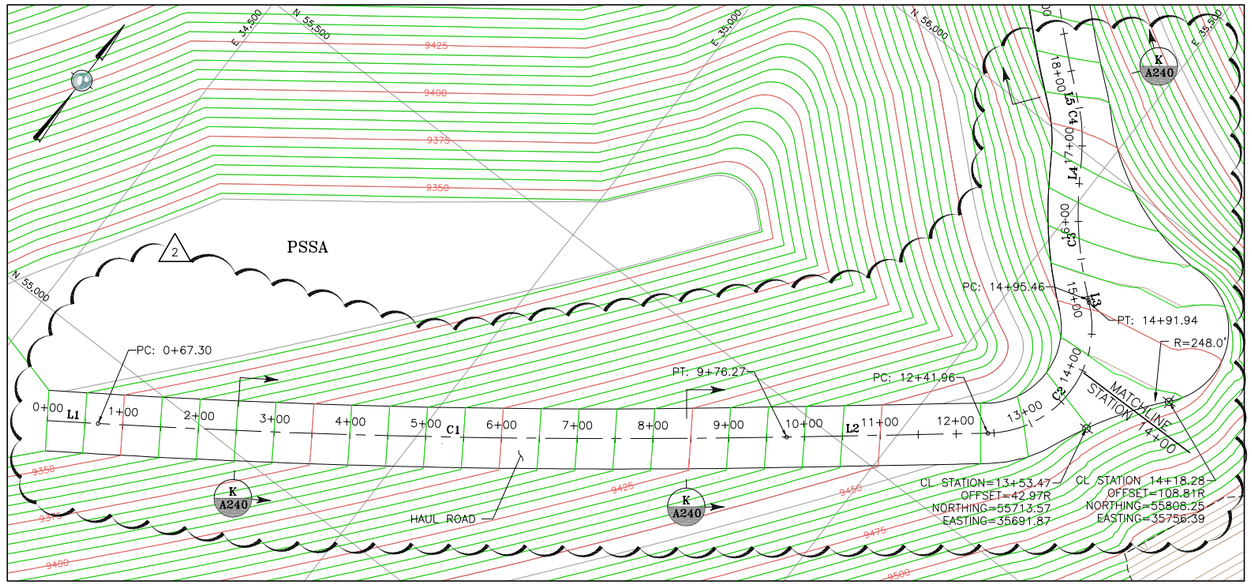
PROJECT: SQUAW GULCH VLF

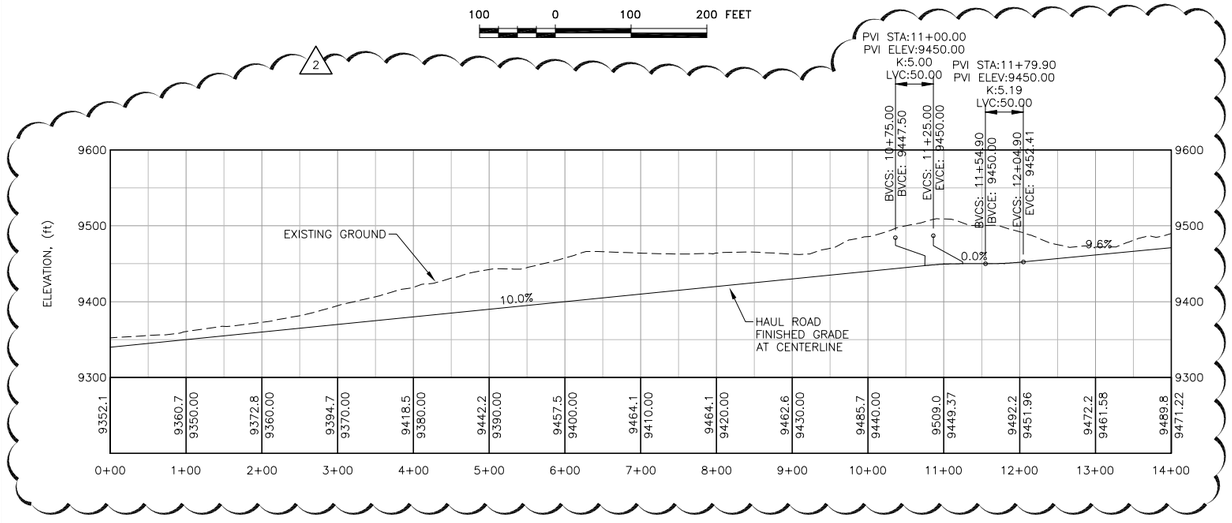
TITLE: VALLEY LEACH FACILITY SECTIONS AND DETAILS SHEET 2 OF 2

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME: 1125GD60 | DRAWING No.: A230 | REV: 2

S:\CAD\1125G-Squaw VLF\cadd\CADD DRAWINGS\IFC Drawings\A230 a230-1125GD60.dwg 1/21/2013 2:41 PM





HAUL ROAD SETOUT DATA CENTER OF DRIVE LANE

SEGMENT	STARTING STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (ft)	LENGTH (ft)
L1	0+00.00	54,880.85	34,602.09			
C1	0+67.30	54,918.96	34,657.56	4–24–47	11,801.60	908.97
L2	9+76.27	55,461.98	35,386.23			
C2	12+41.96	55,628.83	35,592.99	102–18–24	140.00	249.98
L3	14+91.94	55,846.90	35,592.79			
C3	14+95.46	55,849.10	35,590.04	18–36–16	500.00	162.35
L4	16+57.81	55,969.40	35,482.08			
C4	16+83.65	55,991.17	35,468.16	18–36–26	250.00	81.19
L5	17+64.84	56,051.33	35,414.17			
C5	17+69.56	56,054.28	35,410.49	19–22–32	1,350.00	456.53
L6	22+26.08	56,394.45	35,109.30			
C6	22+60.83	56,423.98	35,090.96	21–58–48	160.00	61.38
L7	23+22.21	56,468.72	35,049.50			
C7	23+40.54	56,479.54	35,034.70	11–38–45	1,560.00	317.08
L8	26+57.62	56,691.38	34,799.50			
C8	26+70.20	56,700.70	34,791.05	25–32–32	694.08	309.42
C9	29+79.62	56,876.81	34,539.76	23–03–43	756.00	304.29
L9	32+83.91	57,050.59	34,292.47			
C10	32+97.15	57,060.21	34,283.39	66–31–35	321.00	372.71
L10	36+69.86	57,406.87	34,221.58			
C11	38+02.20	57,528.55	34,273.62	56–20–07	300.00	294.97
L11	40+97.17	57,705.55	34,494.73			
C12	45+21.72	57,783.00	34,912.15	93–36–20	265.00	432.94
L12	49+54.65	57,554.30	35,223.57			
C13	49+62.19	57,546.82	35,224.48	35–45–39	985.00	614.78
L13	55+76.97	56,997.68	35,478.04			
C14	57+30.13	56,885.06	35,581.84	56–28–20	560.00	551.95
L14	62+82.08	56,711.69	36,082.55			
C15	65+40.17	56,752.68	36,337.36	10–45–58	790.00	148.44
L15	66+88.61	56,762.39	36,485.27			
C16	74+82.91	56,739.81	37,279.25	22–39–00	190.00	75.11
L16	75+58.02	56,723.09	37,351.97			
C17	79+37.96	56,566.87	37,698.32	27–02–22	190.00	89.67
L17	80+27.63	56,512.42	37,768.51			
C18	80+90.02	56,463.71	37,807.51	69–07–11	190.00	229.21
L18	83+19.23	56,248.71	37,823.00			
C19	83+29.24	56,240.09	37,817.94	8–46–46	1,269.00	194.45
L19	85+23.69	56,065.56	37,732.63			
C20	87+60.01	55,845.92	37,645.42	78–14–57	39.00	53.26
L20	88+13.27	55,798.97	37,660.19			

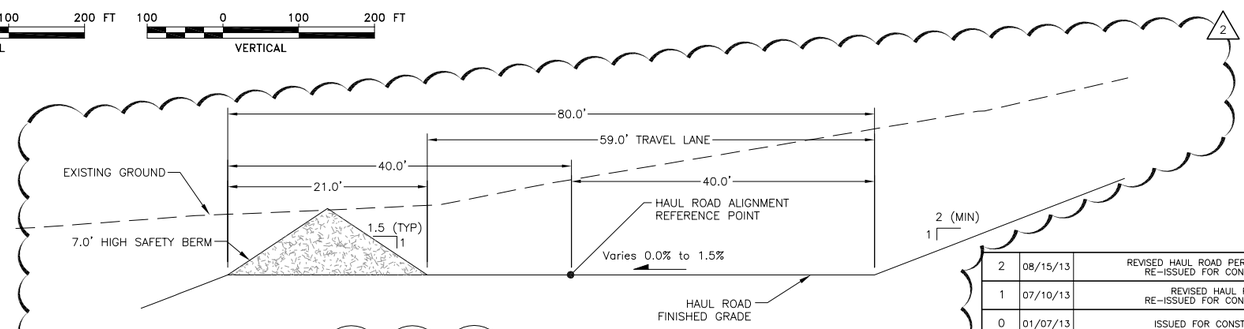
LEGEND:

9200 PROPOSED GROUND SURFACE CONTOUR AND EL. FEET

CENTERLINE LINE

100 0 100 200 FT HORIZONTAL

100 0 100 200 FT VERTICAL



K A200 K A240 K A241 TYPICAL PSSA HAUL ROAD SECTION FROM STA. 0+00 TO STA. 32+50

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	08/15/13	REVISED HAUL ROAD PER AMES COMM. RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	07/10/13	REVISED HAUL ROAD RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: HAUL ROAD PLAN AND PROFILE SHEET 1 OF 4

DESIGNED BY	CMT	CHECKED BY	MEN
DRAWN BY	CMT	APPROVED BY	ALM

FILENAME: 1125GP72 | DRAWING No.: A240 | REV: 2

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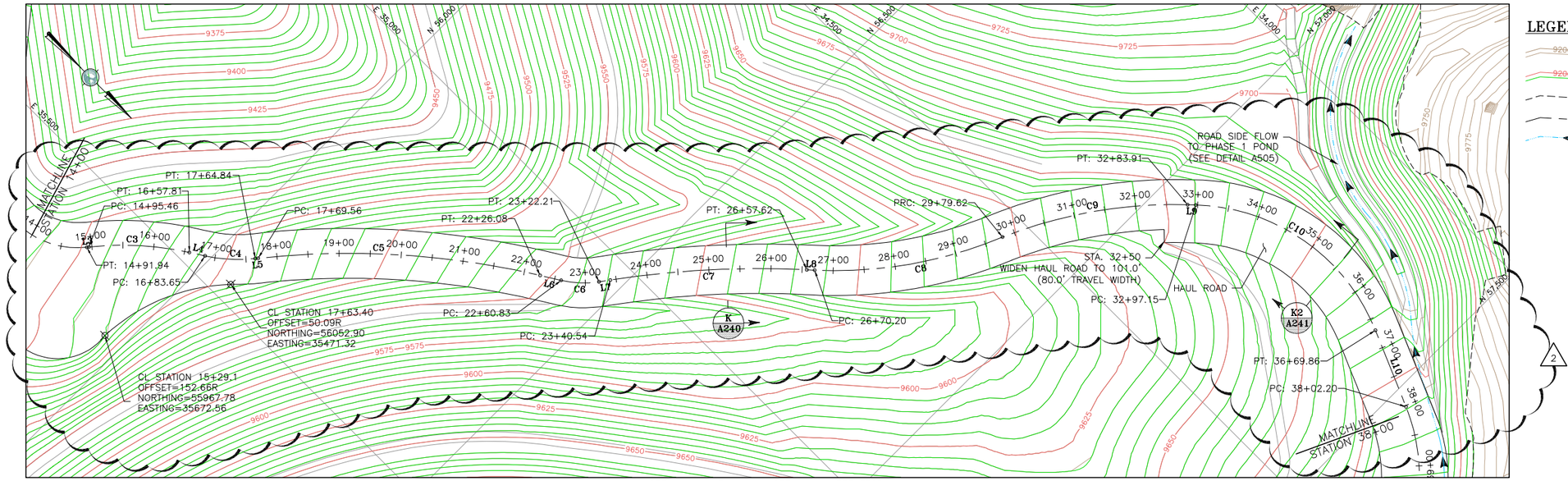
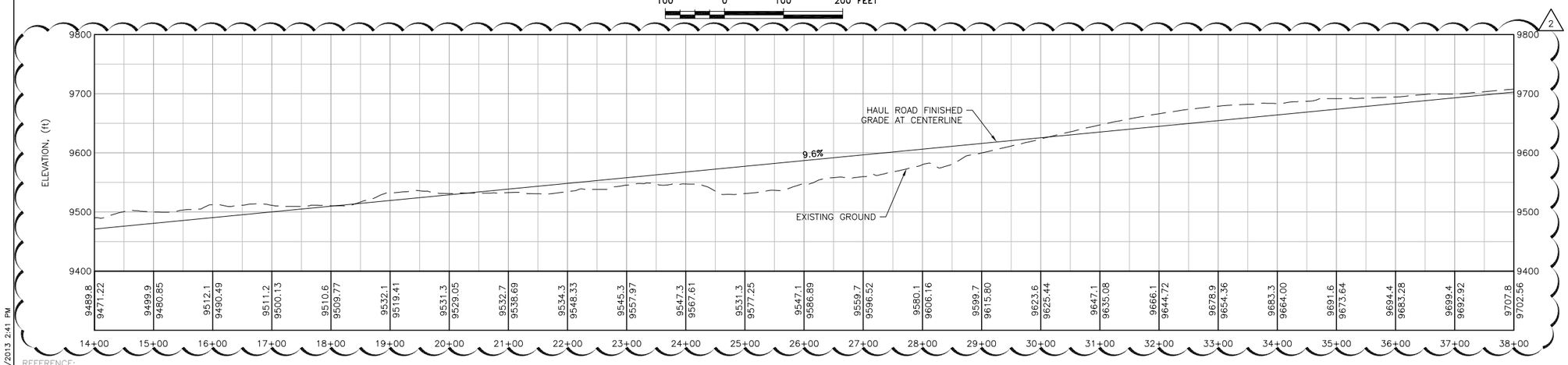
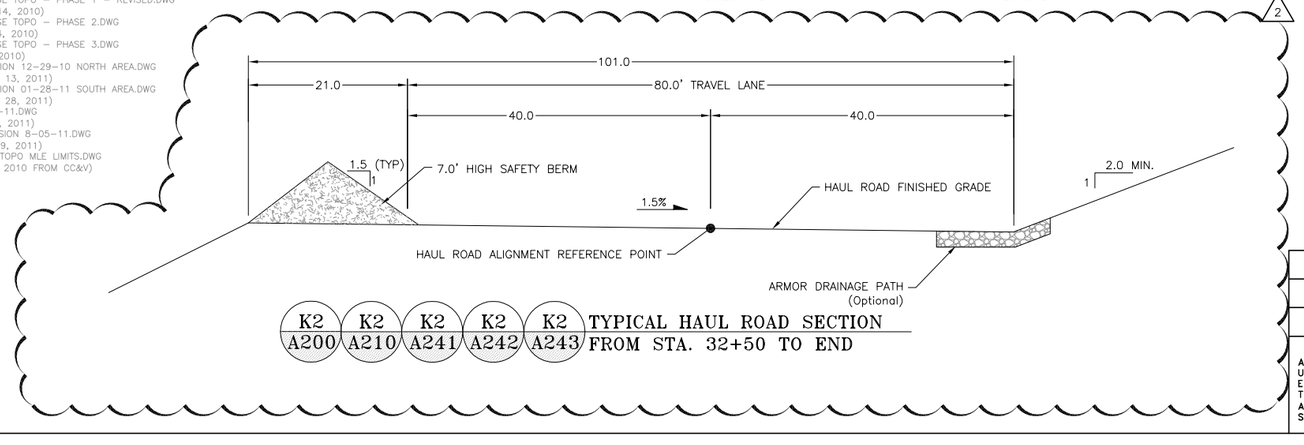




REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)



K2 A200 | K2 A210 | K2 A241 | K2 A242 | K2 A243 TYPICAL HAUL ROAD SECTION FROM STA. 32+50 TO END

LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- DAYLIGHT LINE
- CENTERLINE LINE
- FLOWLINE LINE

2	08/15/13	REVISED HAUL ROAD PER AMES COMM. RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	07/10/13	REVISED HAUL ROAD RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: HAUL ROAD PLAN AND PROFILE SHEET 2 OF 4

DESIGNED BY	CMT	CHECKED BY	MEN
DRAWN BY	CMT	APPROVED BY	ALM

FILENAME: 1125GP73 | DRAWING No.: A241 | REV: 2

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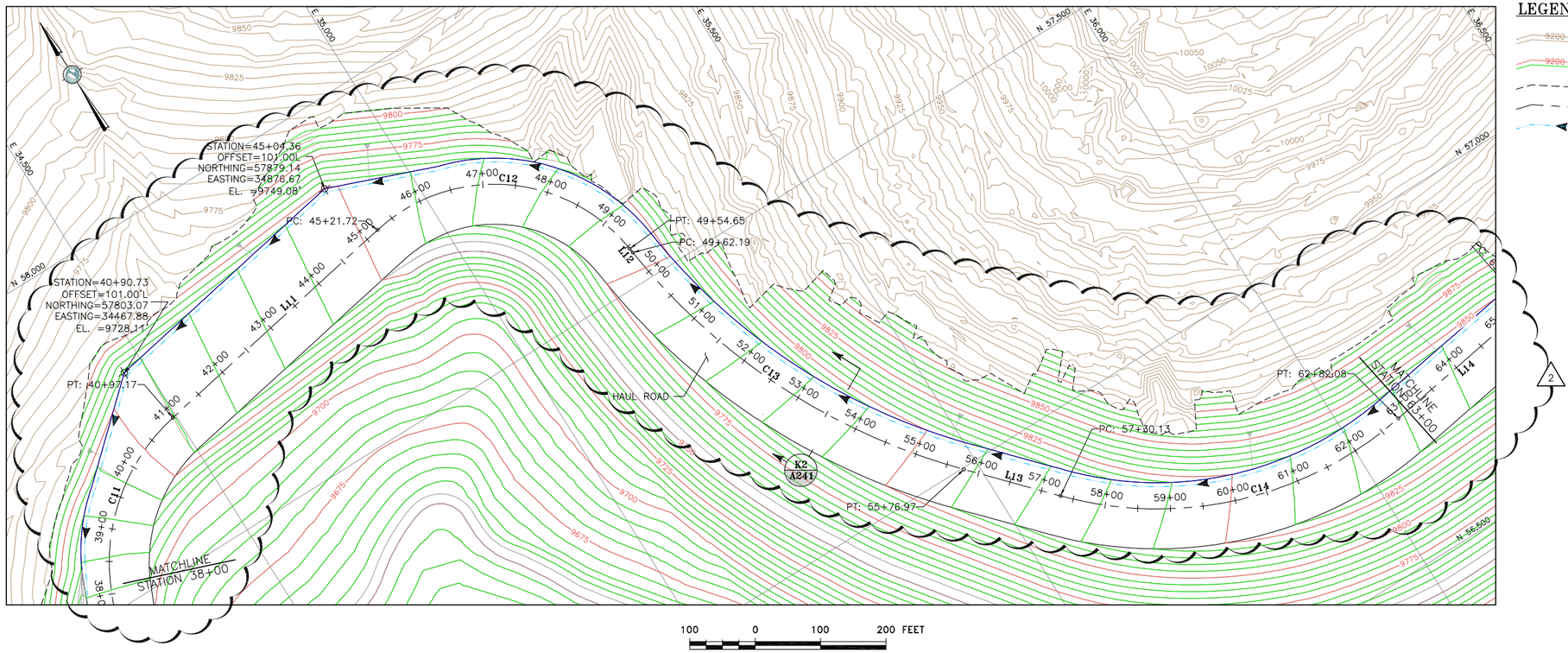

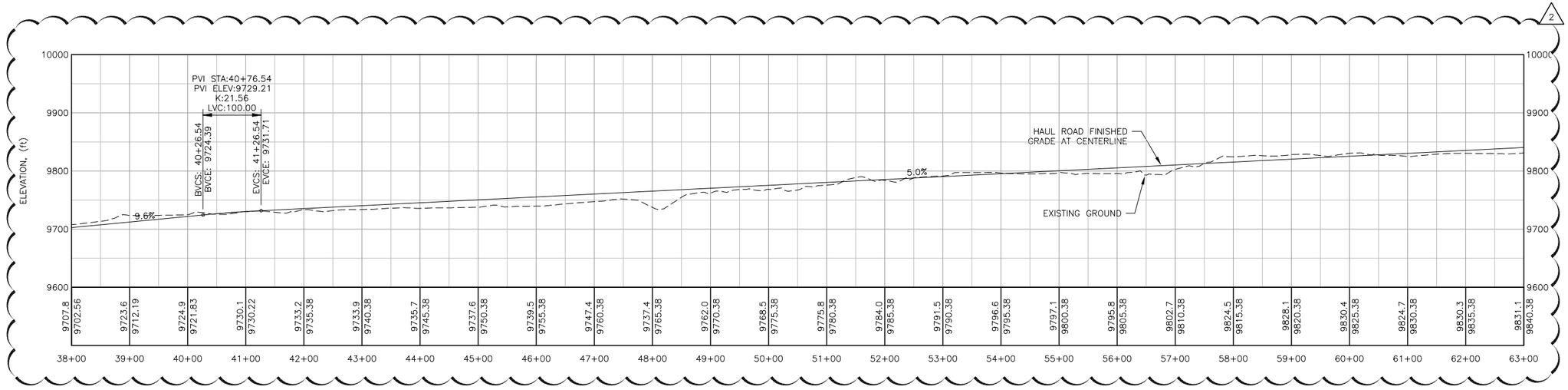

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	08/15/13	REVISED HAUL ROAD PER AMES COMM. RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	07/10/13	REVISED HAUL ROAD RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: HAUL ROAD PLAN AND PROFILE SHEET 3 OF 4

DESIGNED BY	CMT	CHECKED BY	MEN
DRAWN BY	CMT	APPROVED BY	ALM

FILENAME	DRAWING No.	REV
1125GP74	A242	2

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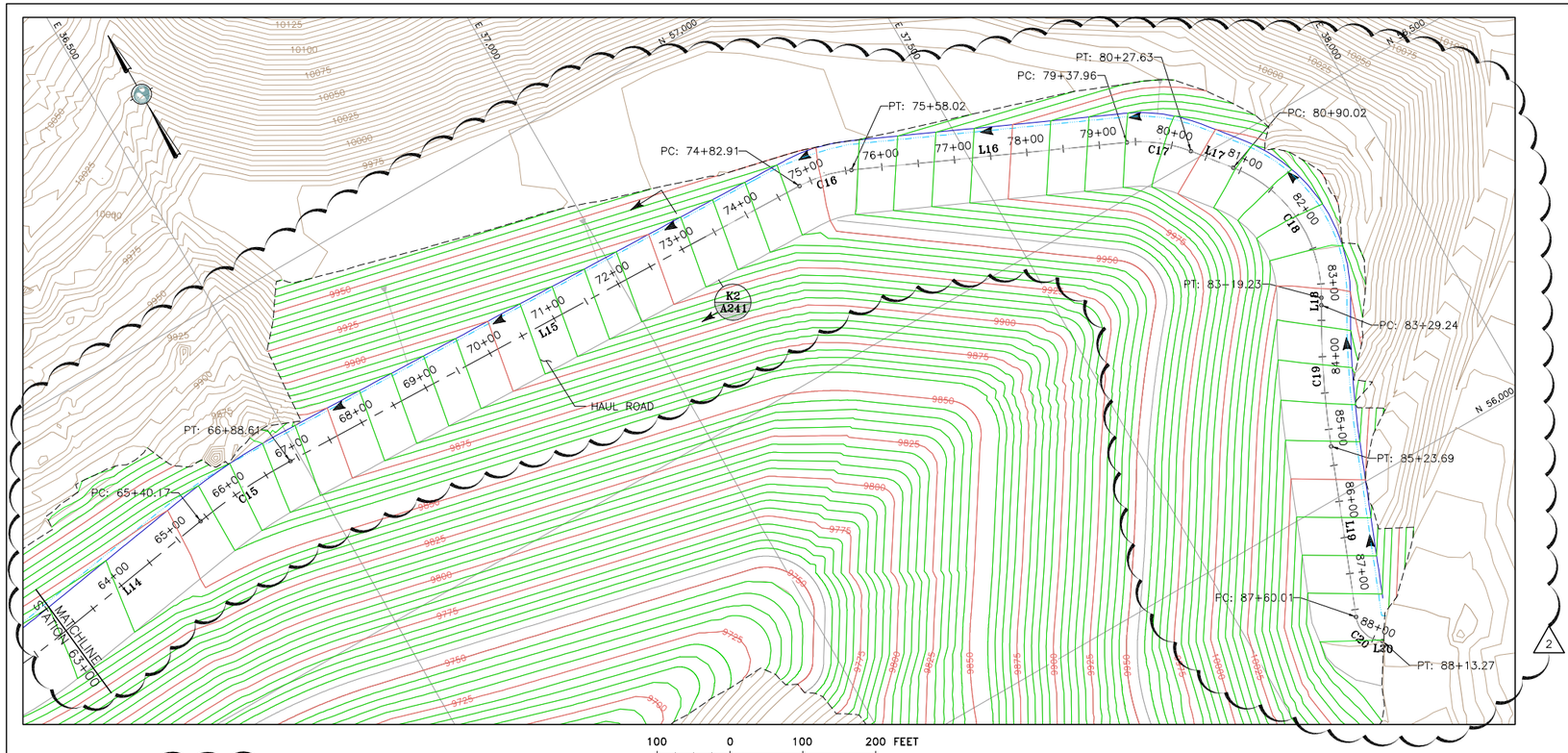

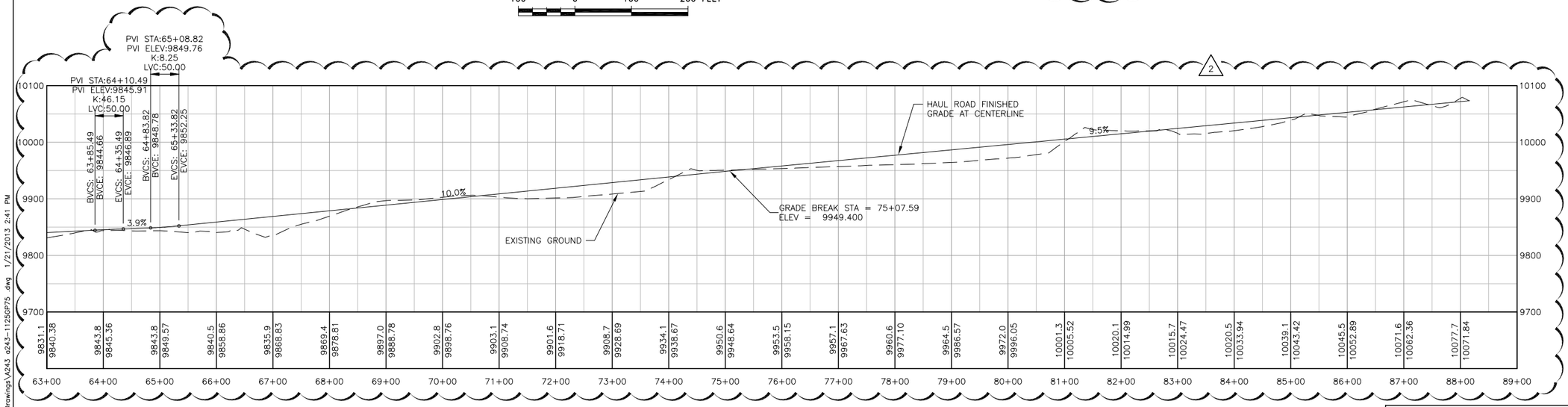

LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- DAYLIGHT LINE
- CENTERLINE LINE
- FLOWLINE LINE

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECVD FROM FORESIGHT WEST SURVEYING, INC.:

- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

2	08/15/13	REVISED HAUL ROAD PER AMES COMM. RE-ISSUED FOR CONSTRUCTION	MN / PBS
1	07/10/13	REVISED HAUL ROAD RE-ISSUED FOR CONSTRUCTION	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: HAUL ROAD PLAN AND PROFILE SHEET 4 OF 4

DESIGNED BY	CMT	CHECKED BY	MEN
DRAWN BY	CMT	APPROVED BY	ALM
FILENAME	1125GP75	DRAWING No.	A243
REV	2		

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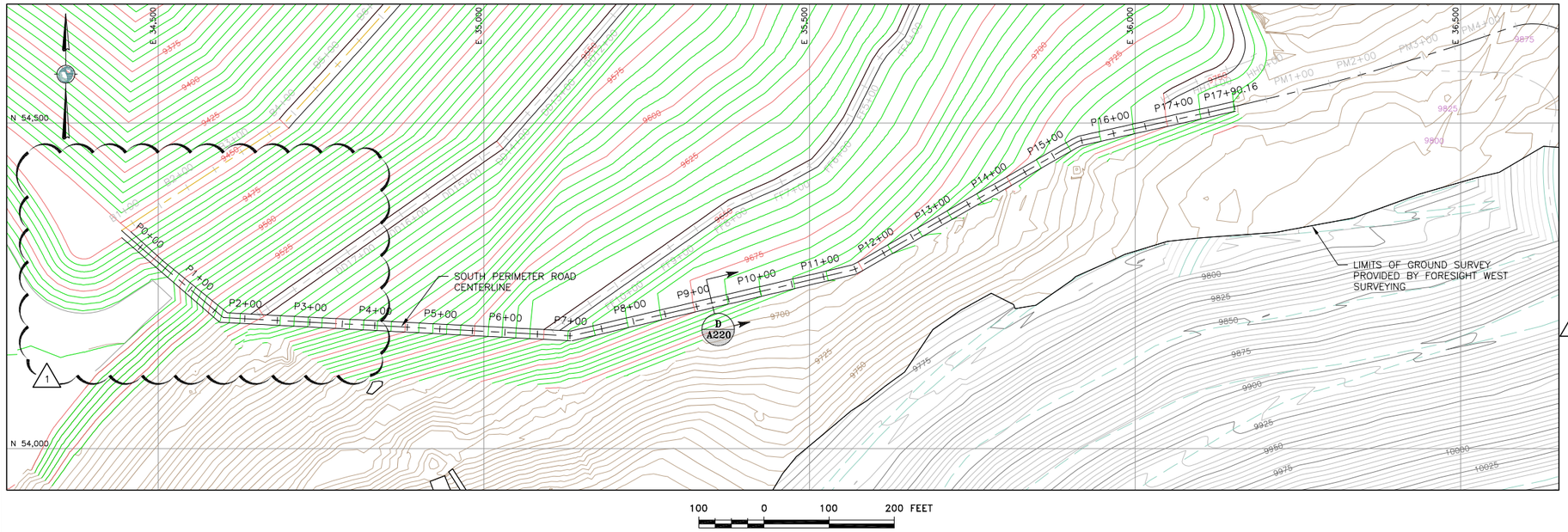
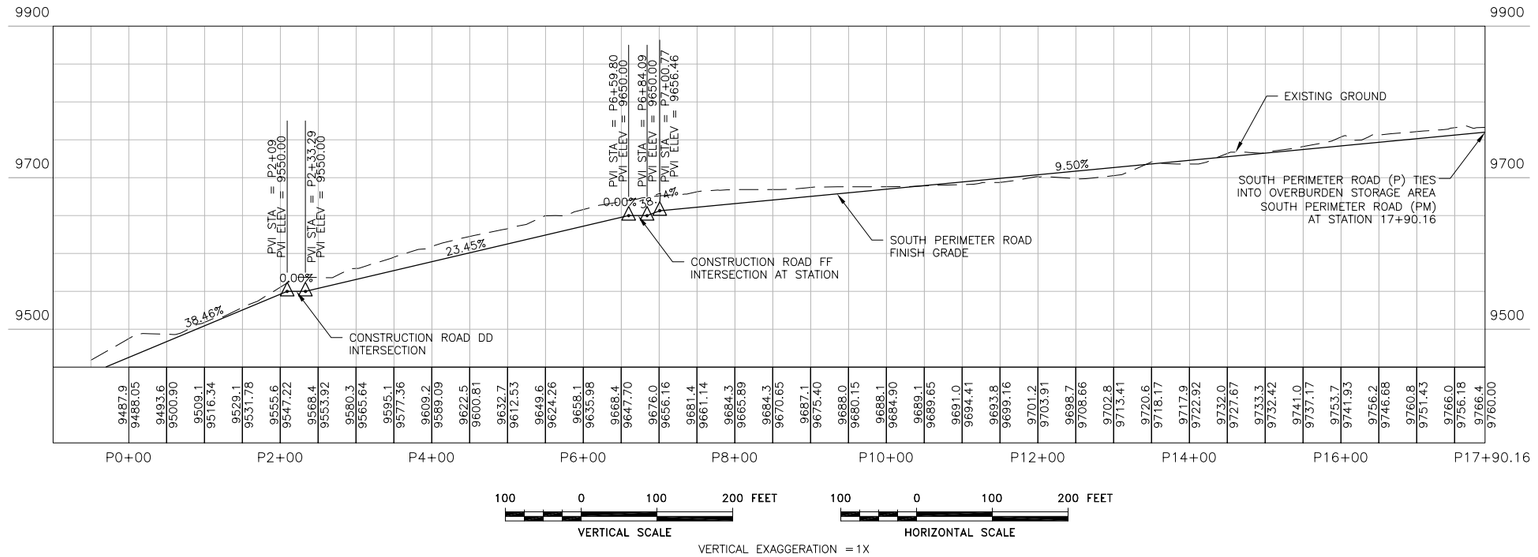


LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- DAYLIGHT LINE
- P6+00 SOUTH PERIMETER ROAD CENTERLINE
- EXISTING UNIMPROVED ROAD/TRAILS
- EXISTING PIPELINE

SOUTH PERIMETER ROAD SETOUT DATA

	STATION	NORTHING	EASTING	DELTA (D–M–S)	RADIUS (FT)	LENGTH (FT)
PI	P0–69.25	54335.14	34443.65			
PC	P7+00.37	54173.31	35132.65			
				16–14–09	15	4.25
PT	P7+04.62	54173.68	35136.86			
PC	P11+47.60	54274.97	35568.11			
				16–37–17	15	4.35
PT	P11+51.95	54276.56	35572.15			
PC	P15+42.67	54470.97	35911.06			
				17–15–47	15	4.52
PT	P15+47.19	54472.6	35915.26			
PI	P17+90.16	54525.50	36152.40			



VERTICAL EXAGGERATION = 1X

NOTE:

1. REMOVED EXISTING UTILITIES FROM DRAWING.
2. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:

- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	02/13/14	REVISED LINER LIMITS/RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

DISCLAIMER

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

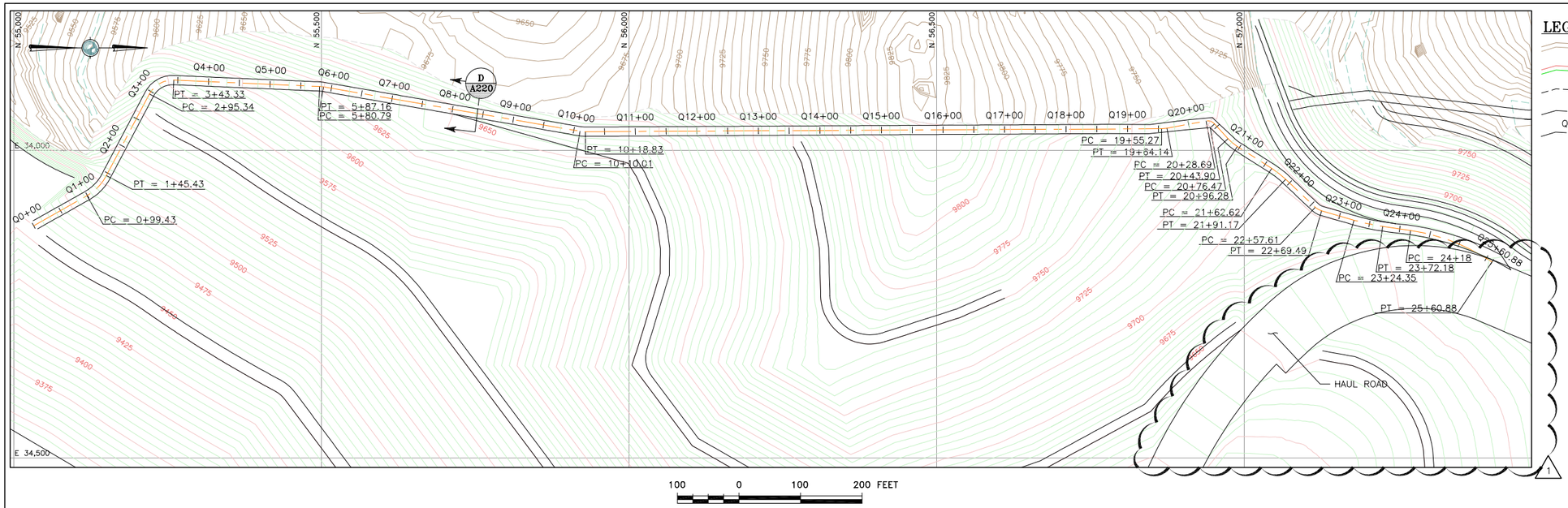
PROJECT: SQUAW GULCH VLF

TITLE: SOUTH PERIMETER ROAD PLAN AND PROFILE

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	KFM

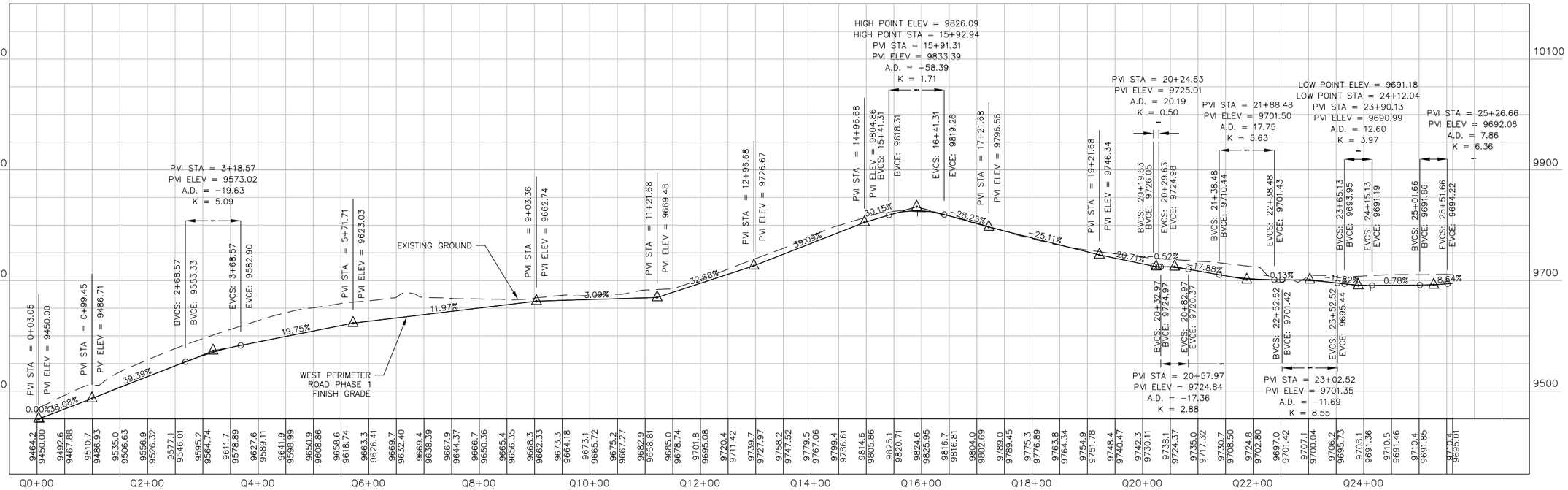
FILENAME: 1125GP76 | DRAWING No.: A244 | REV: 1

S:\CAD\1125G-Squaw VLF\cadd\CADD DRAWINGS\VFC Drawings\a244-1125GP76 .dwg 1/21/2013 2:41 PM



LEGEND:

- 9200 EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- 9200 PROPOSED GROUND SURFACE CONTOUR AND EL. FEET
- DAYLIGHT LINE
- CENTERLINE LINE
- Q6+00 WEST PERIMETER ROAD PHASE 1 CENTERLINE



VERTICAL EXAGGERATION = 1X

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	08/15/13	REVISED HAUL ROAD PER AMES COMM. RE-ISSUED FOR CONSTRUCTION	MEN / CAS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: WEST PERIMETER ROAD PHASE 1 PLAN AND PROFILE

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	KFM

FILENAME	DRAWING No.	REV
1125GP77	A245	1

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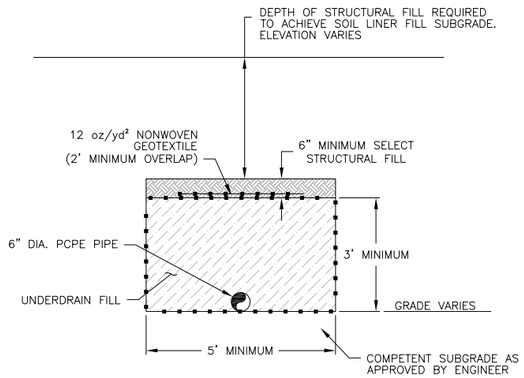
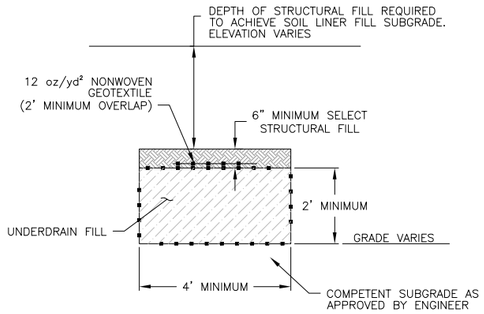


NOTES:

1. CONFIGURATION OF UNDERDRAIN TRENCHES MAY BE MODIFIED PROVIDED MINIMUM CROSS SECTIONAL AREA SHOWN ABOVE IS ACHIEVED.
2. UNDERDRAIN SHALL BE INSTALLED ON A MINIMUM 1.0% GRADE.
3. AS REQUIRED BY LOCALIZED GRADING, THE UNDERDRAIN CAN BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% WITH APPROVAL FROM THE ENGINEER.

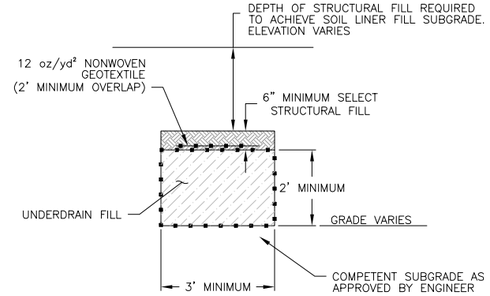
L/A200 L/A256 PRIMARY UNDERDRAIN
NTS



NOTES:

1. CONFIGURATION OF UNDERDRAIN TRENCHES MAY BE MODIFIED PROVIDED MINIMUM CROSS SECTIONAL AREA SHOWN ABOVE IS ACHIEVED.
2. UNDERDRAIN SHALL BE INSTALLED ON A MINIMUM 1.0% GRADE.
3. AS REQUIRED BY LOCALIZED GRADING, THE UNDERDRAIN CAN BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% WITH APPROVAL FROM THE ENGINEER.

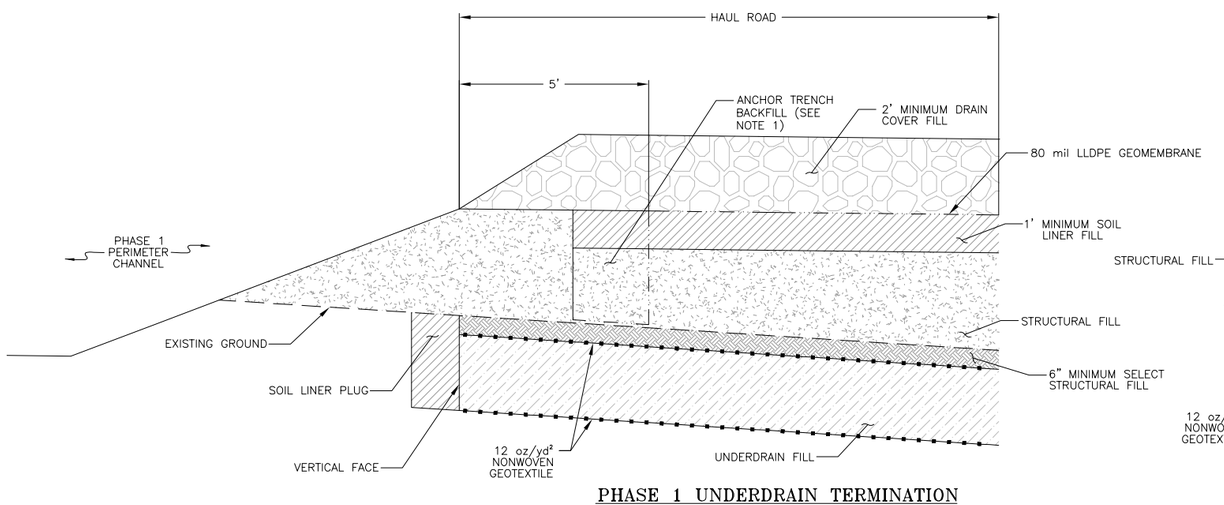
M/A200 M/A210 SECONDARY UNDERDRAIN
NTS



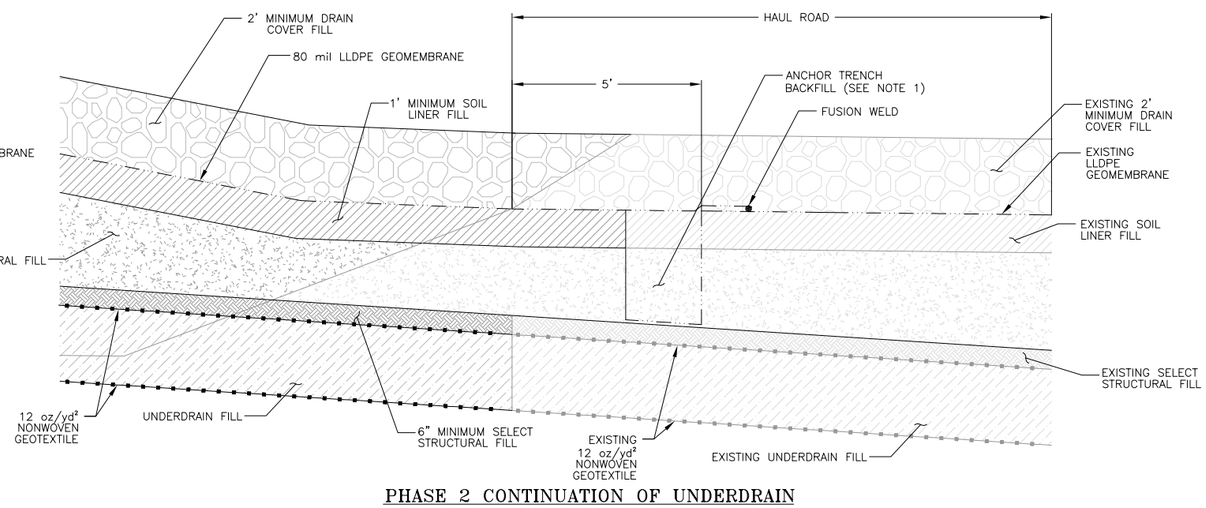
NOTES:

1. CONFIGURATION OF UNDERDRAIN TRENCHES MAY BE MODIFIED PROVIDED MINIMUM CROSS SECTIONAL AREA SHOWN ABOVE IS ACHIEVED.
2. TERTIARY UNDERDRAINS SHALL BE INSTALLED IN THE AREAS OF THE VALLEY LEACH FACILITY WHERE SEEPS OCCUR OUTSIDE OF THE TOPOGRAPHIC LOW POINTS. INSTALLATION SHALL BE APPROVED BY THE ENGINEER DURING CONSTRUCTION.
3. UNDERDRAIN SHALL BE INSTALLED ON A MINIMUM 1.0% GRADE.
4. AS REQUIRED BY LOCALIZED GRADING, THE UNDERDRAIN CAN BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% WITH APPROVAL FROM THE ENGINEER.

N/– TYPICAL TERTIARY UNDERDRAIN
NTS



PHASE 1 UNDERDRAIN TERMINATION



PHASE 2 CONTINUATION OF UNDERDRAIN

NOTES:

1. COMPACTED SOIL LINER FILL OR OTHER FILL APPROVED BY THE MANAGER TO BACKFILL ANCHOR TRENCH. ANCHOR TRENCHES INTERNAL TO THE VLF WILL BE BACKFILLED WITH SOIL LINER FILL FOR THE UPPER 1FT (MIN.).

4/A200 4/A210 TEMPORARY UNDERDRAIN TERMINATION
NTS

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: UNDERDRAIN DETAILS SHEET 1 OF 2

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME	DRAWING No.	REV
1125GD24	A250	0

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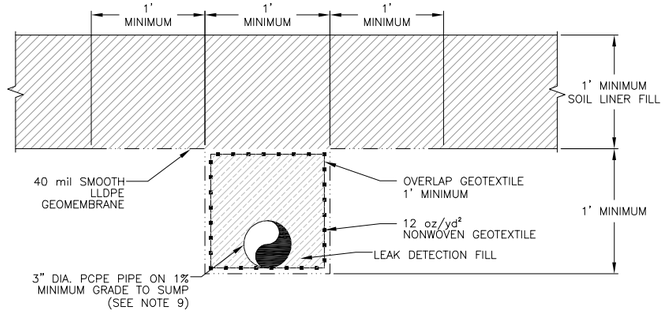
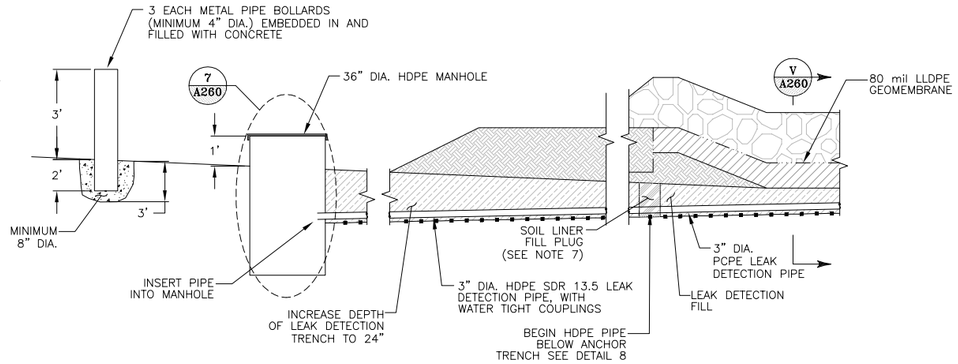
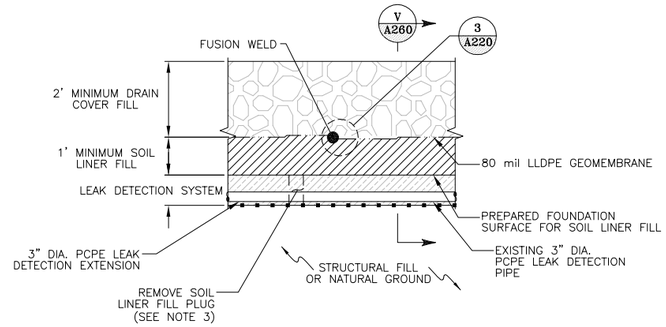


V A200 V A210 V A260 LEAK DETECTION TRENCH
NTS

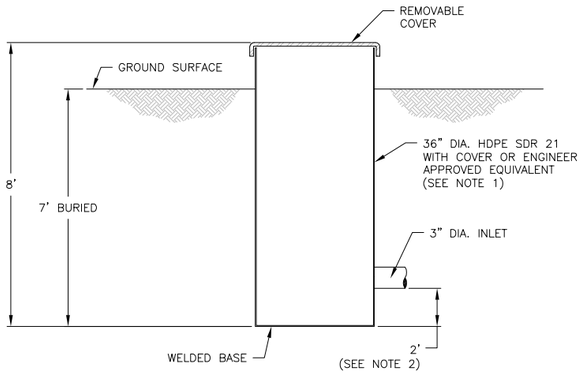


5 — LEAK DETECTION SUMP DETAIL
NTS

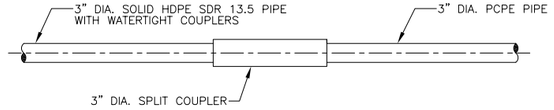


AFTER REMOVAL OF INTERIM PAD BERM

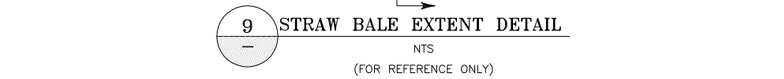
6 — TEMPORARY LEAK DETECTION TERMINATION
NTS



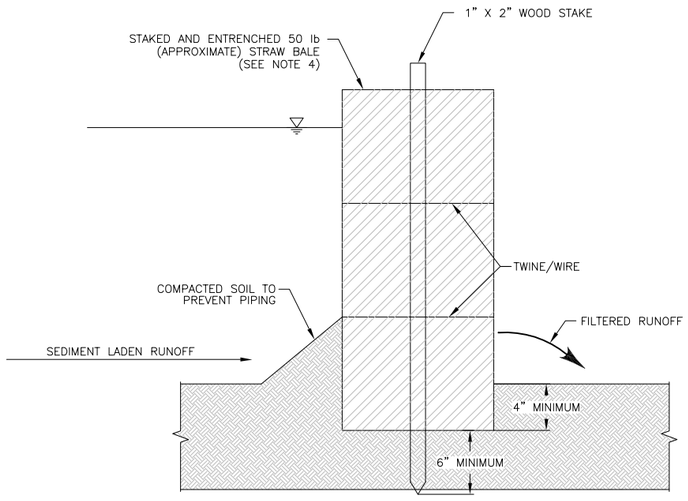
7 A260 MANHOLE
NTS



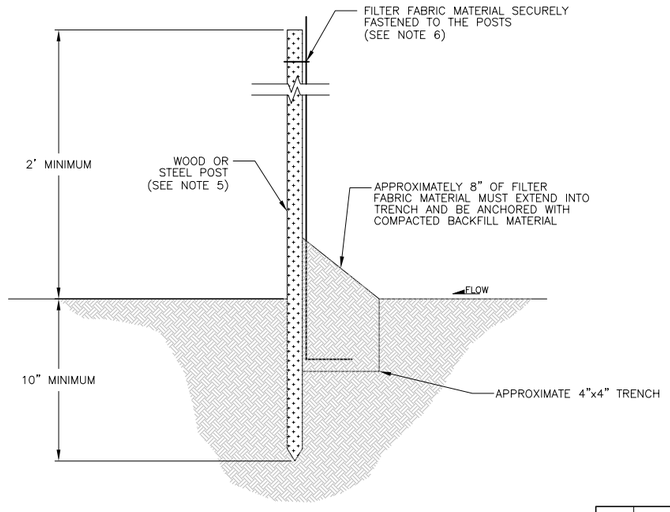
8 A260 TYPICAL SOLID HDPE TO PERFORATED CPe PIPE CONNECTION
NTS



9 — STRAW BALE EXTENT DETAIL
NTS
(FOR REFERENCE ONLY)



W A260 STRAW BALE INSTALLATION DETAIL
NTS
(FOR REFERENCE ONLY)



10 — SILT FENCE INSTALLATION DETAIL
NTS
(FOR REFERENCE ONLY)

NOTES:

1. MANHOLE WITH LADDER ACCESS ALONG ENTIRE DEPTH OF MANHOLE.
2. MINIMUM STORAGE VOLUME OF 100 GALLONS BELOW 3" DIA. SOLID HDPE PIPE INLET.
3. REMOVE SOIL LINER PLUG AFTER REMOVAL OF INTERIM PAD BERM.
4. STRAW BALES TO EXTEND FAR ENOUGH LATERALLY SO SURFACE WATER RUNOFF WILL SPILL OVER TOP OF STRAW BALES.
5. SPACE POSTS 6' TO 10' APART.
6. FOR ADDITIONAL STRENGTH, FILTER FABRIC MATERIAL SHOULD BE ATTACHED TO A 6" MESH WIRE WHICH HAS BEEN FASTENED TO THE POSTS.
7. SOIL LINER FILL PLUG DIMENSIONS TO BE 1'x1'x1'.
8. AS AN ALTERNATIVE TO STRAW BALES, OTHER STORM WATER BEST MANAGEMENT PRACTICES, LIKE A ROCK BERM, MAY BE SUBSTITUTED WITH APPROVAL OF THE OWNER/ENGINEER.
9. AS REQUIRED BY LOCALIZED GRADING, THE UNDERDRAIN CAN BE INSTALLED WITH A MINIMUM SLOPE OF 0.5% WITH APPROVAL FROM THE ENGINEER.

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY
PROJECT: SQUAW GULCH VLF
TITLE: LEAK DETECTION AND TYPICAL EROSION CONTROL DETAILS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME: 1125GD26 | DRAWING No.: A260 | REV: 0

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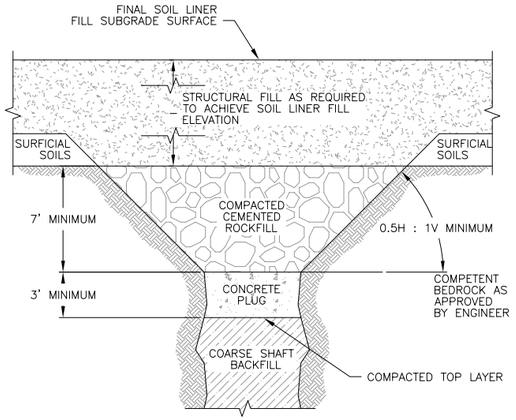
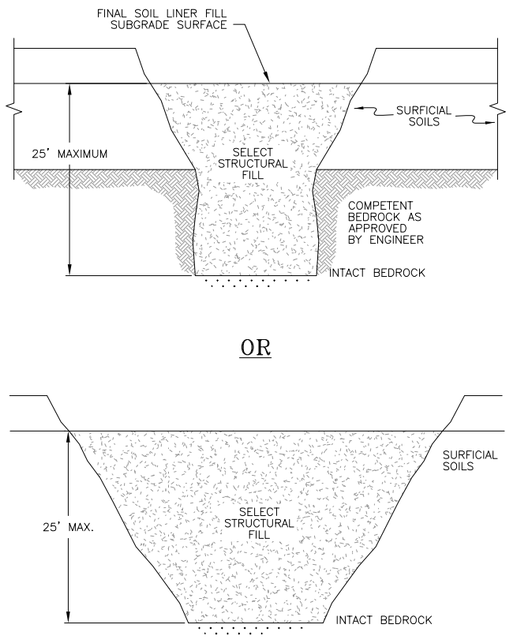


REMEDIATION NOTES:

1. ROCK SURFACE WITHIN SHAFT SHALL BE SCALED TO REMOVE LOOSE MATERIAL PRIOR TO CONCRETE PLUG AND CEMENTED ROCKFILL PLACEMENT.
2. CONTRACTOR TO CONSTRUCT 7' MINIMUM CEMENTED ROCKFILL IN EITHER COMPETENT BEDROCK OR SURFICIAL SOILS.
3. CONTRACTOR TO EXCAVATE PREVIOUSLY COLLAPSED SHAFTS/STOPES TO APPROXIMATELY 25' BELOW FINAL SOIL LINE FILL SUBGRADE SURFACE.
4. COMPACTION OF TOP LAYER OF COARSE SHAFT BACKFILL TO BE METHOD SPECIFICATION APPROVED BY THE ENGINEER.

12 — SHAFT/STOPE REMEDIATION DETAIL

NTS

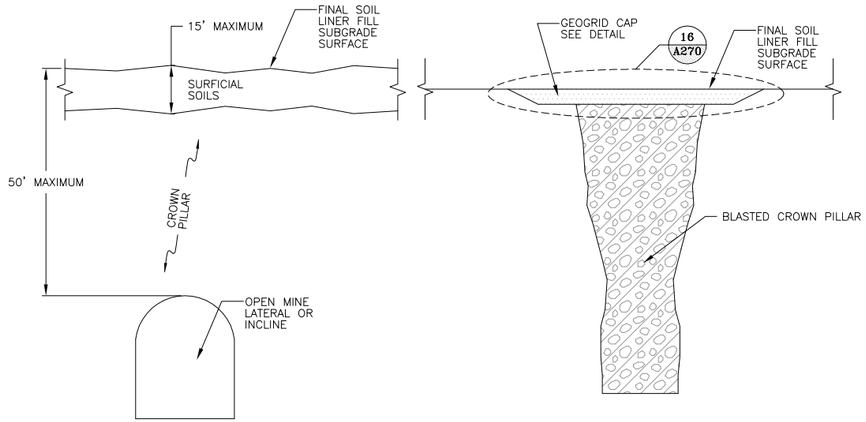


REMEDIATION NOTES:

1. COMPACT SELECT STRUCTURAL FILL USING METHOD SPECIFICATION APPROVED BY THE ENGINEER.
2. SELECT STRUCTURAL FILL MAY BE REPLACED WITH STRUCTURAL FILL PER THE PROJECT SPECIFICATIONS.

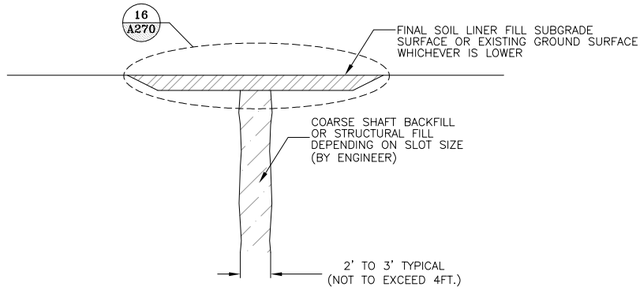
13 — SHALLOW SHAFT REMEDIATION DETAIL

NTS



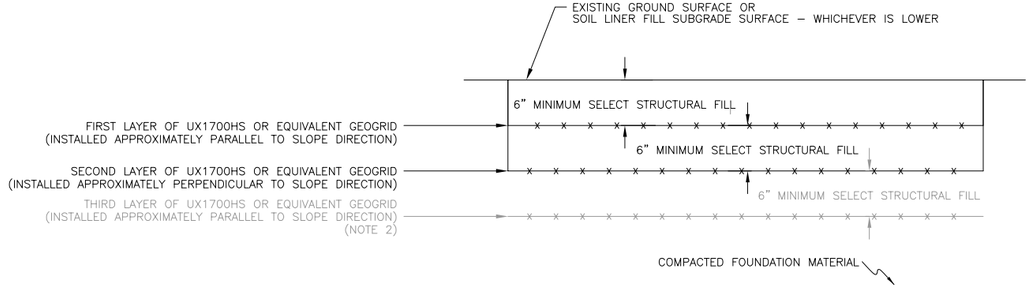
14 — OPEN LATERAL REMEDIATION DETAIL

NTS



15 — OPEN MINED SLOT REMEDIATION DETAIL

NTS



REMEDIATION NOTES:

1. CONTRACTOR TO INSTALL DIRECTION OF MAXIMUM STRENGTH FOR THE SECOND LAYER OF UX1700HS OR EQUIVALENT HS GEOGRID TRANSVERSE TO THE DIRECTION OF MAXIMUM STRENGTH FOR THE FIRST LAYER OF UX1700HS GEOGRID.
2. A THIRD GEOGRID LAYER MAY BE ADDED IN AREAS UNDER HIGH NORMAL LOAD. AREAS REQUIRING THIRD GEOGRID WILL BE DETERMINED DURING REMEDIATION.
3. GEOGRID CAP TO EXTEND MINIMUM 15 FEET BEYOND MINE WORKING LIMIT.

16 / A270 — GEOGRID CAP INSTALLATION DETAIL (TYP.)

NTS

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: UNDERGROUND WORKING REMEDIATION TYPICAL DETAILS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM

FILENAME	DRAWING No.	REV
1125GD28	A270	0

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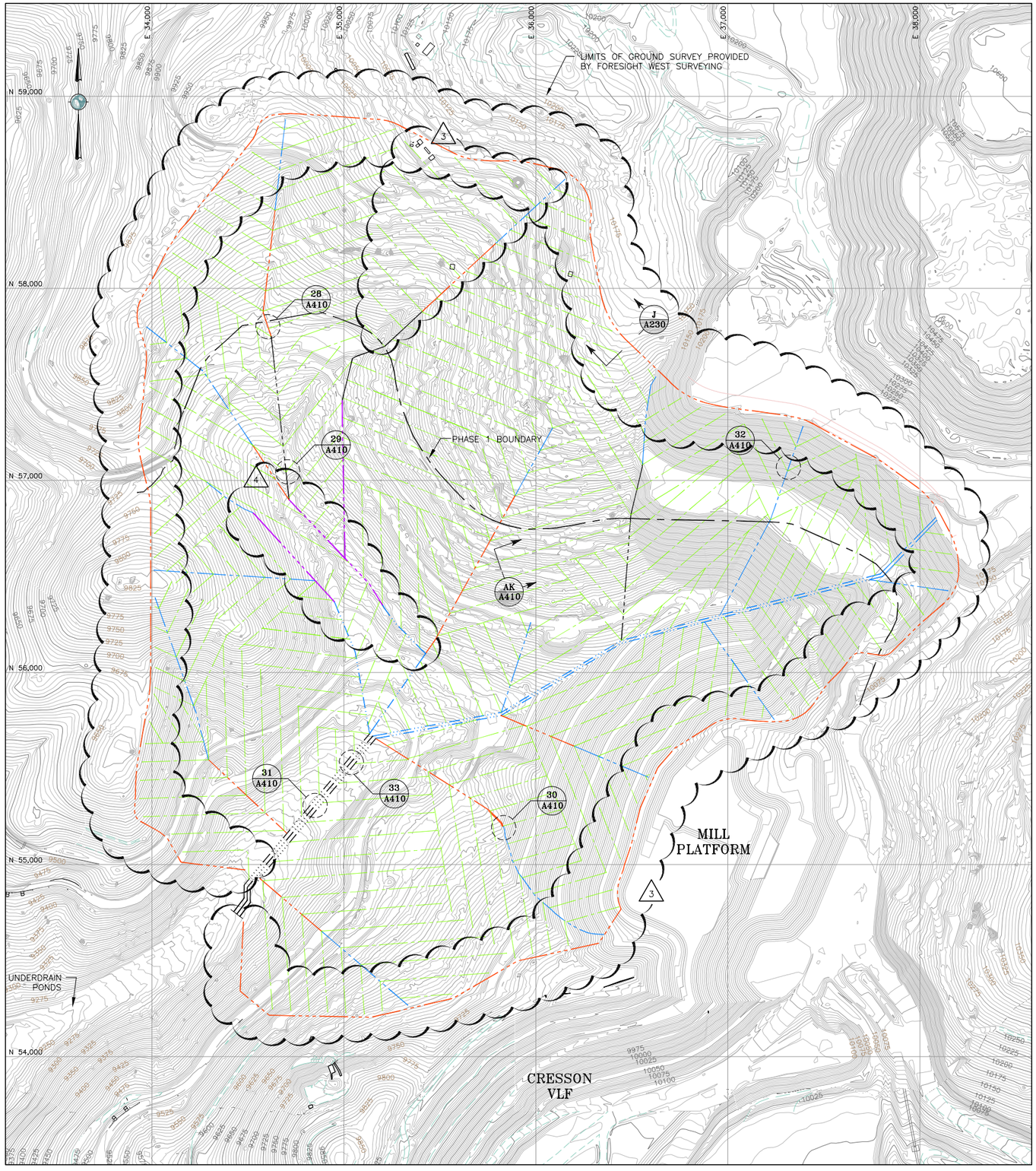

LEGEND:

- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- MILL PLATFORM GROUND SURFACE CONTOUR EL, FEET
- REGRADED GROUND SURFACE CONTOUR AND EL, FEET
- EXISTING ROADS
- SQUAW GULCH VLF PHASE 1 LIMIT
- EXISTING RAILROAD

SOLUTION COLLECTION PIPING:

- 4" DIA. PCPE HIGHWAY GRADE TERTIARY SOLUTION COLLECTION PIPE PLACED ON 95' CENTERS
- 8" DIA. PCPE (ADS N-12 OR EQUIVALENT) SOLUTION COLLECTION PIPE
- 12" DIA. PCPE (ADS N-12 OR EQUIVALENT) SOLUTION COLLECTION PIPE
- 15" DIA. PCPE (ADS N-12 OR EQUIVALENT) SOLUTION COLLECTION PIPE
- 18" DIA. PCPE (ADS N-12 OR EQUIVALENT) SOLUTION COLLECTION PIPE
- 24" DIA. PCPE (ADS N-12 OR EQUIVALENT) SOLUTION COLLECTION PIPE
- 28" DIA. SDR 11 HDPE PRIMARY SOLUTION COLLECTION PIPE

NOTES:

1. SOLUTION COLLECTION PIPING SHALL BE PLACED WITH A MINIMUM SLOPE OF 1 PERCENT, AND SHALL BE ADJUSTED TO AVOID PLACEMENT PERPENDICULAR TO SLOPE.
2. REMOVED EXISTING UTILITIES FROM DRAWING.
3. UPDATED EXISTING GROUND TO INCLUDE MILL PLATFORM.
4. UNDERDRAIN POND AND PHASE 2 SEDIMENT POND HAVE BEEN REVISED.
5. PHASE 2 SURFACE WATER DIVERSION CHANNEL AND SEDIMENT DETENTION POND WILL BE BUILT WITH PHASE 1.
6. PSSA EMBANKMENT HAS BEEN WIDENED BY 2'.

300 0 300 600 FEET

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

4	07/15/15	REVISED COLLECTION PIPES/RE-ISSUE FOR CONSTRUTION	ALM / MGC
4	8/8/14	REV. PERIMETER 12INCH PIPE/RE-ISSUE FOR CONSTRUCTION	ALM / PBS
2	02/13/14	REVISED LINER LIMITS/RE-ISSUED FOR CONSTRUCTION	MEN / PBS
1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	MEN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT	CRIPPLE CREEK & VICTOR GOLD MINING COMPANY
PROJECT	SQUAW GULCH VLF
TITLE	HIGH VOLUME SOLUTION COLLECTION PIPING LAYOUT

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GM41	DRAWING No.	A400
		REV	4

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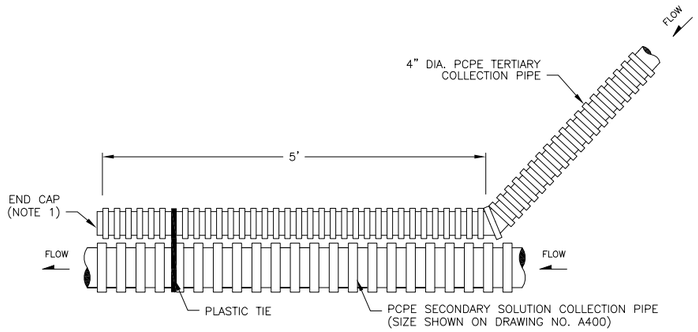
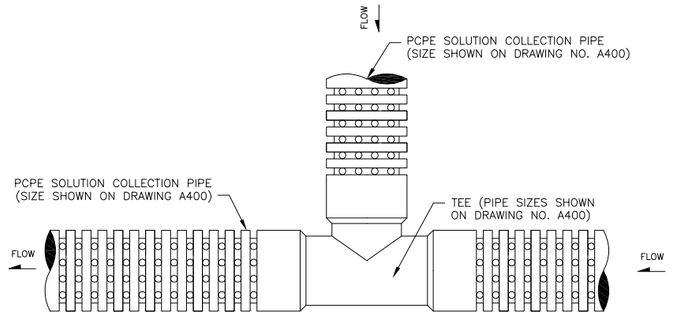


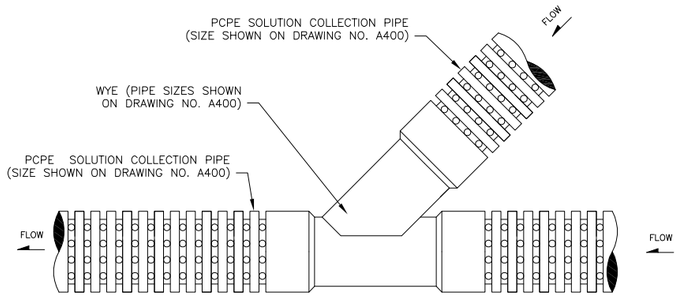
28 A400 TYPICAL SINGLE TERTIARY TO SECONDARY SOLUTION COLLECTION PIPE JUNCTION

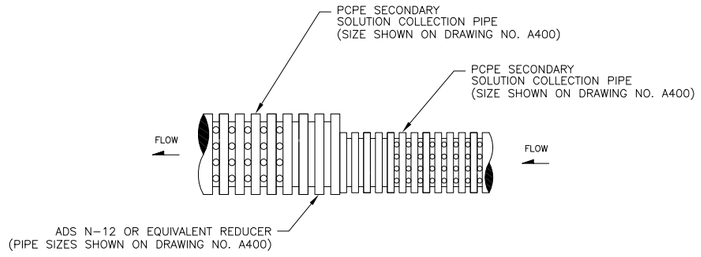
NTS



29 A400 ALTERNATIVE SOLUTION COLLECTION PIPE TEE JUNCTION

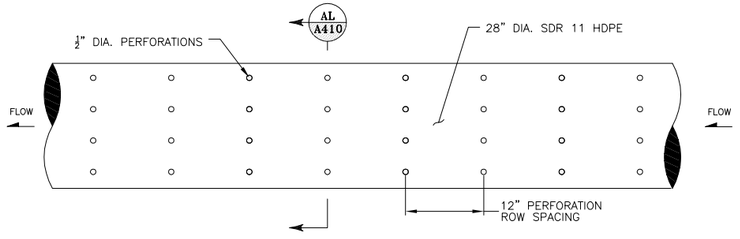
NTS





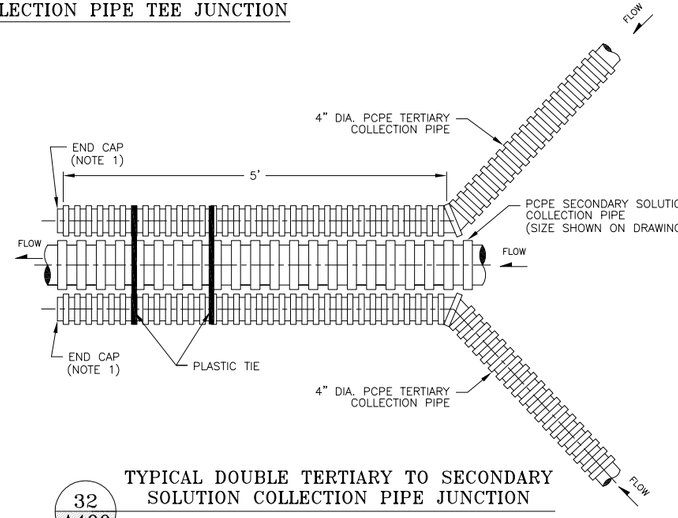
30 A400 TYPICAL SOLUTION COLLECTION PIPE REDUCER DETAIL

NTS



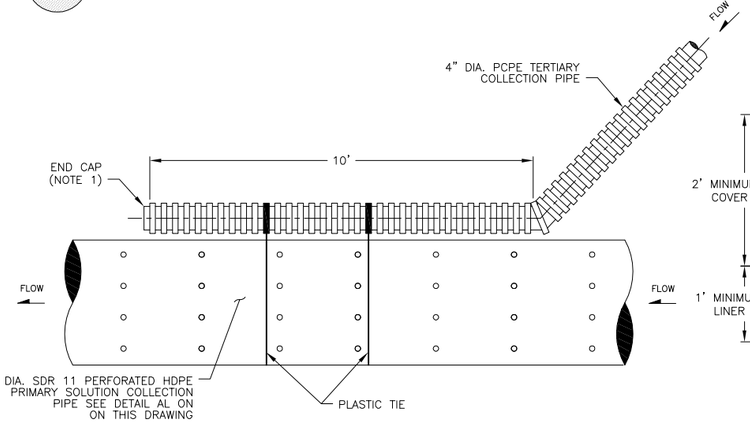
31 A400 PRIMARY SOLUTION COLLECTION PIPE

NTS



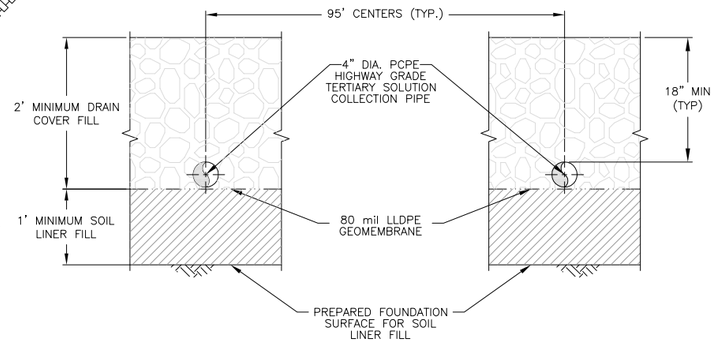
32 A400 TYPICAL DOUBLE TERTIARY TO SECONDARY SOLUTION COLLECTION PIPE JUNCTION

NTS



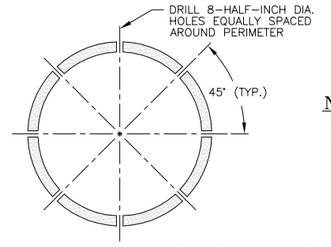
33 A400 TYPICAL TERTIARY OR SECONDARY TO PRIMARY SOLUTION COLLECTION PIPE CONNECTION

NTS



AK A400 VLF LINER SYSTEM

NTS



AL A410 PRIMARY SOLUTION COLLECTION PIPE PERFORATION DETAIL

NTS

NOTES:

1. ALL PCPE PIPES TO TERMINATE WITH MANUFACTURED END CAP. NO EXCEPTIONS.

0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT	CRIPPLE CREEK & VICTOR GOLD MINING COMPANY
PROJECT	SQUAW GULCH VLF
TITLE	HIGH VOLUME SOLUTION COLLECTION SYSTEM DETAILS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GD42	DRAWING No.	A410
		REV	0

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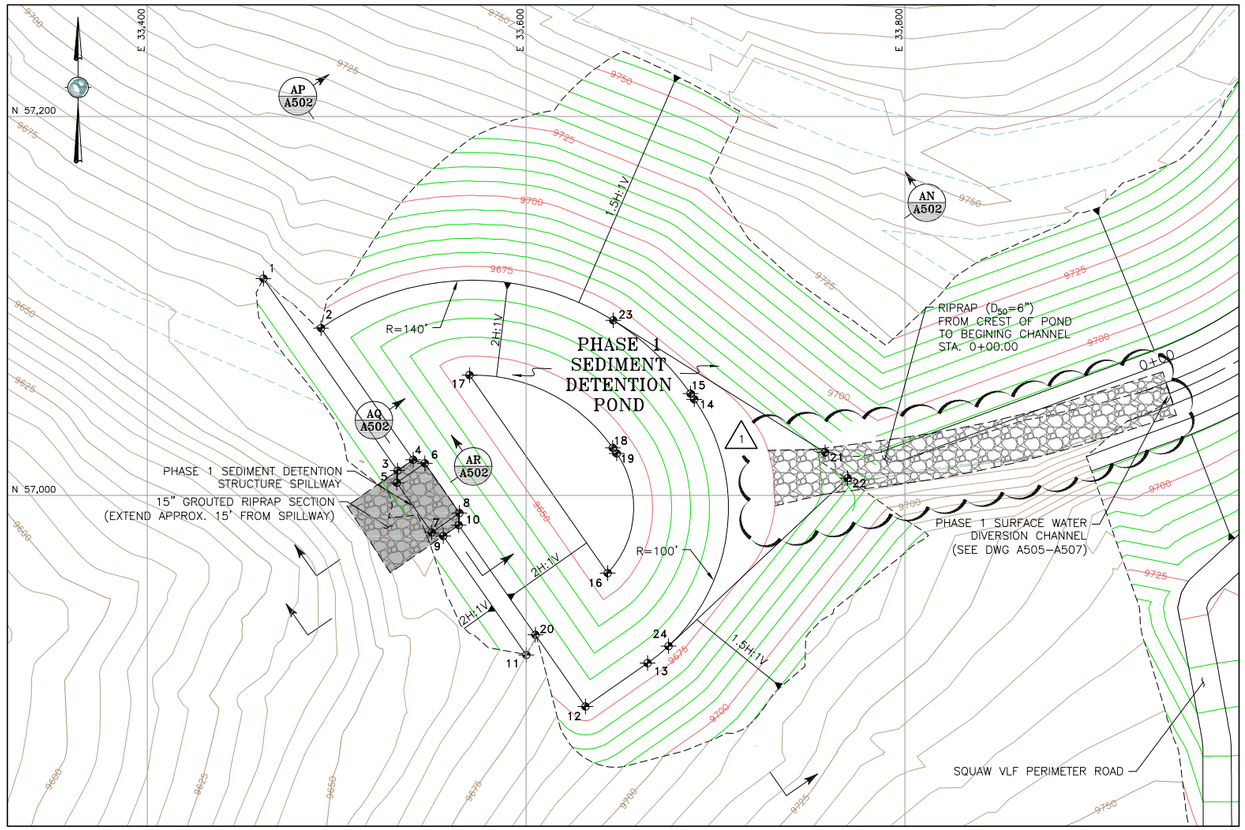


LEGEND:

- 5000 EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- 5000 EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- 5000 PROPOSED GROUND SURFACE CONTOUR AND EL, FEET
- EXISTING ROAD
- DAYLIGHT LINE

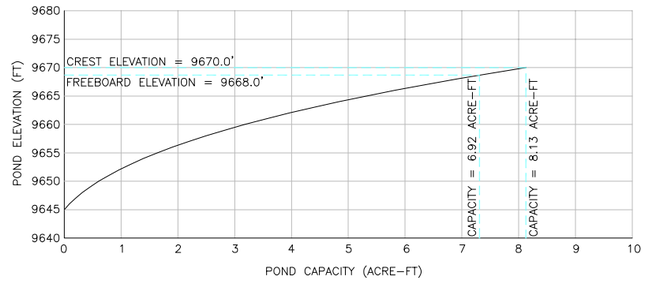
PHASE 1 SEDIMENT DETENTION POND CONTROL POINTS FINISHED GRADE

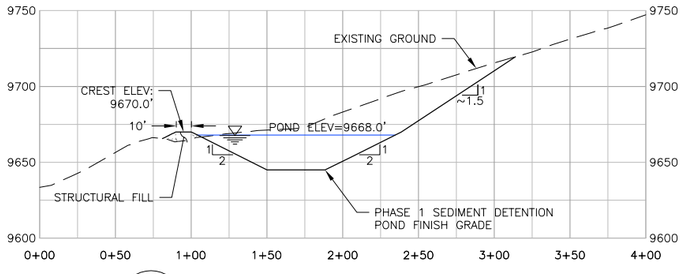
POINT NUMBER	NORTHING	EASTING	ELEVATION
1	57114.41	33461.33	9670.00
2	57088.30	33491.77	9670.00
3	57013.05	33532.16	9670.00
4	57018.77	33540.35	9670.00
5	57006.66	33531.74	9668.00
6	57016.97	33546.50	9668.00
7	56980.43	33550.07	9668.00
8	56990.74	33564.83	9668.00
9	56978.62	33556.21	9670.00
10	56984.35	33564.41	9670.00
11	56915.85	33600.08	9670.00
12	56888.59	33631.32	9670.00
13	56911.50	33664.11	9670.00
14	57050.75	33688.80	9670.00
15	57053.73	33686.72	9670.00
16	56959.04	33643.09	9645.00
17	57063.52	33570.08	9645.00
18	57025.09	33645.73	9645.00
19	57022.11	33647.82	9645.00
20	56926.40	33604.90	9670.00
21	57022.73	33757.88	9680.78
22	57009.00	33769.80	9682.74
23	57092.40	33645.93	9670.00
24	56920.51	33675.22	9670.00

40 0 40 80 FEET

PHASE 1 SEDIMENT DETENTION POND

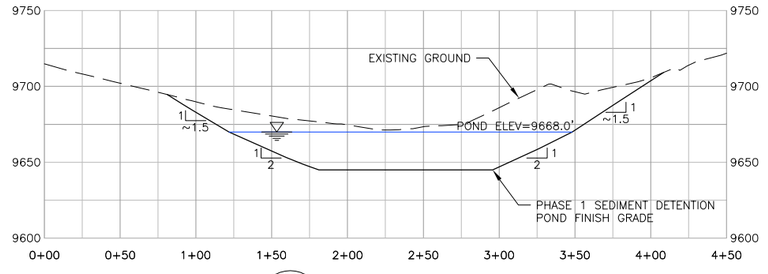
ELEVATION (FT)	ACCUMULATIVE VOLUME (ACRE–FT)
9645	0
9646	0.09
9647	0.20
9648	0.32
9649	0.46
9650	0.61
9651	0.78
9652	0.96
9653	1.17
9654	1.40
9655	1.64
9656	1.90
9657	2.19
9658	2.50
9659	2.83
9660	3.18
9661	3.56
9662	3.96
9663	4.39
9664	4.84
9665	5.32
9666	5.82
9667	6.35
9668	6.92
9669	7.51
9670	8.13





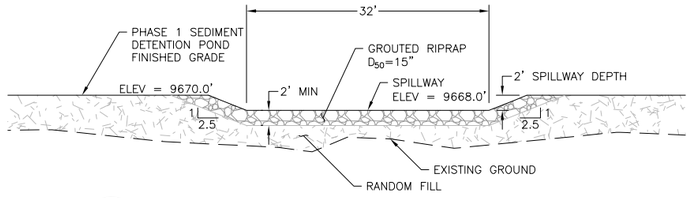
AN A502 PHASE 1 SEDIMENT DETENTION POND

50 0 50 100 FEET



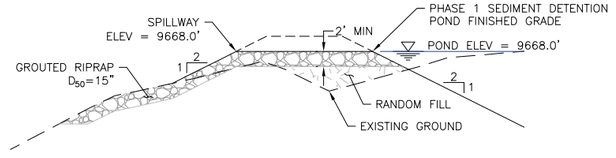
AP A502 PHASE 1 SEDIMENT DETENTION POND

50 0 50 100 FEET



AQ A502 PHASE 1 SEDIMENT DETENTION POND SPILLWAY

10 0 10 20 FEET



AR A502 PHASE 1 SEDIMENT DETENTION POND SPILLWAY

10 0 10 20 FEET

NOTES:

1. PHASE 1 SEDIMENT DETENTION POND HAS BEEN REVISED
2. RIPRAP DOES NOT NEED TO BE PLACED WHERE POTENTIAL FOR EROSION IS LOW, LOCATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND/OR ENGINEER'S REPRESENTATIVE. (1)

FOR REFERENCE

REFERENCE:

EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)

1	05/06/14	RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SEDIMENT DETENTION POND PHASE 1 SECTIONS AND DETAILS

DESIGNED BY	TJK	CHECKED BY	JNM
DRAWN BY	CMT	APPROVED BY	JNM

FILENAME: 1125GD95 | DRAWING No.: A502 | REV: 1

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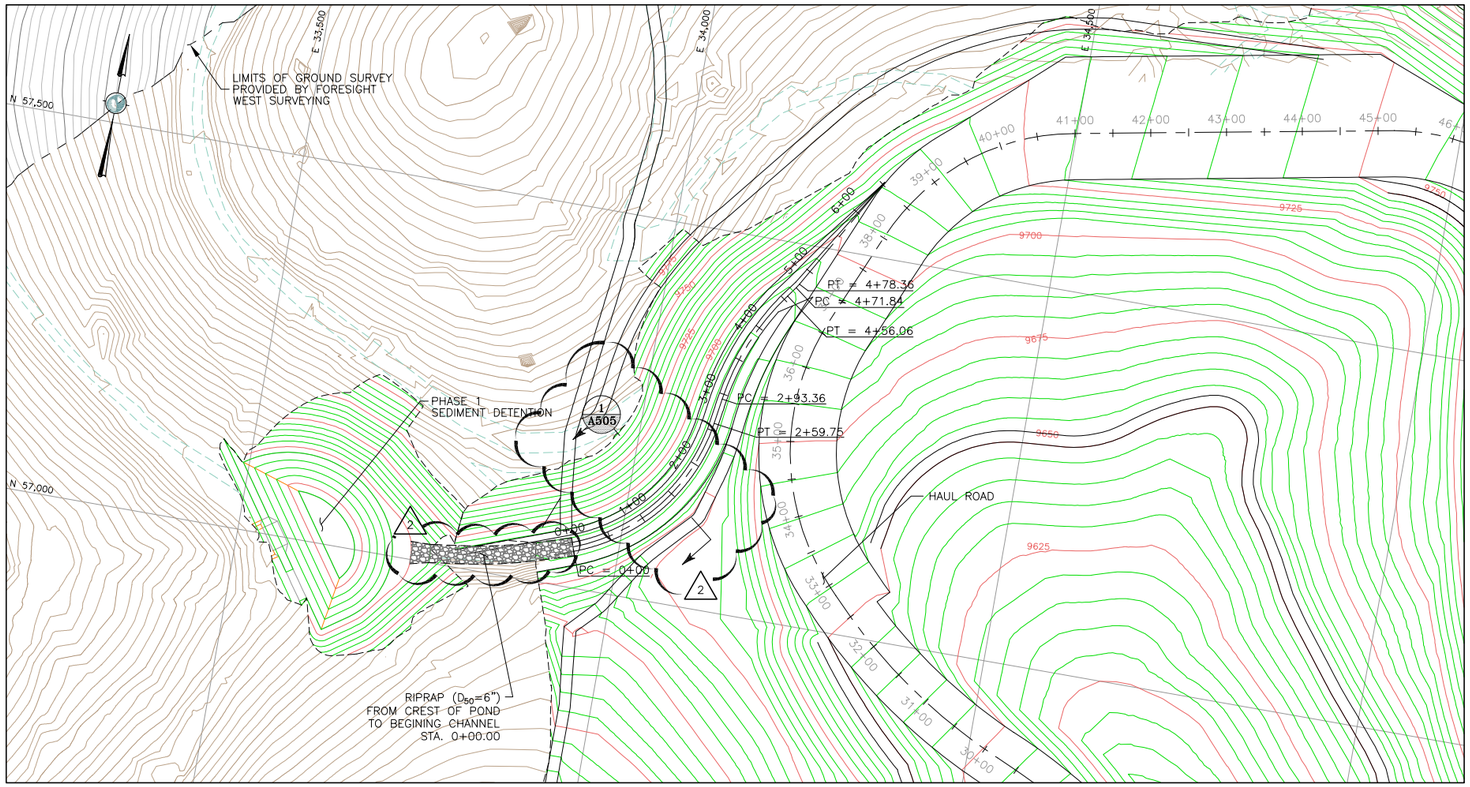


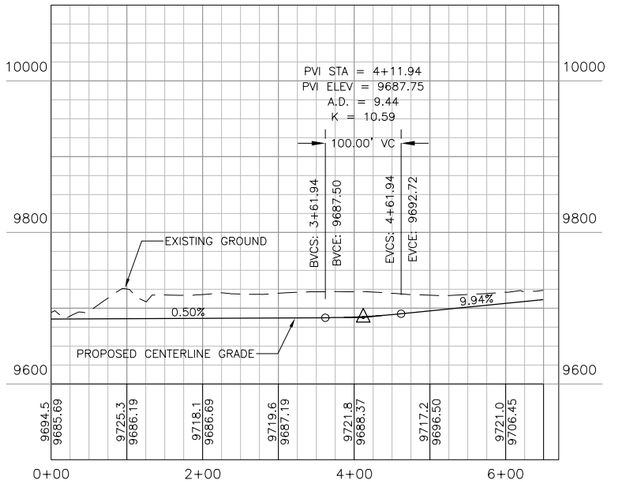
100 0 100 200 FEET

LEGEND:

- 5000 EXISTING GROUND SURFACE CONTOUR AND EL, FEET (LAND SURVEY)
- 5000 EXISTING GROUND SURFACE CONTOUR AND EL, FEET (AERIAL SURVEY)
- 5000 PROPOSED GROUND SURFACE CONTOUR AND EL, FEET
- EXISTING ROAD
- CHANNEL CENTERLINE
- DAYLIGHT LINE

REFERENCE:

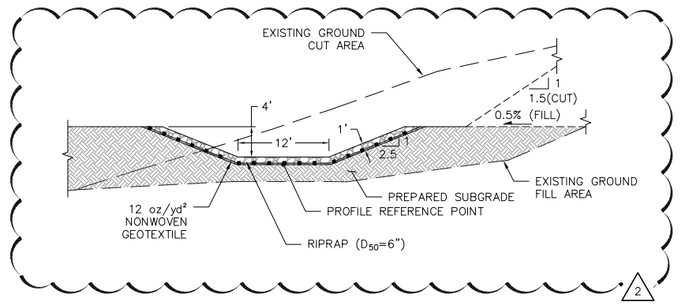
EXISTING GROUND TOPOGRAPHY WAS CREATED BY COMBINING THE FOLLOWING FILES RECV FROM FORESIGHT WEST SURVEYING, INC.:
- SQUAW GULCH BASE TOPO – PHASE 1 – REVISED.DWG (RECV MARCH 14, 2010)
- SQUAW GULCH BASE TOPO – PHASE 2.DWG (RECV APRIL 24, 2010)
- SQUAW GULCH BASE TOPO – PHASE 3.DWG (RECV MAY 4, 2010)
- CCV TOPO EXPANSION 12-29-10 NORTH AREA.DWG (RECV JANUARY 13, 2011)
- CCV TOPO EXPANSION 01-28-11 SOUTH AREA.DWG (RECV JANUARY 28, 2011)
- SH67 TOPO 7-07-11.DWG (RECV JULY 11, 2011)
- VLF2 TOPO EXPANSION 8-05-11.DWG (RECV AUGUST 9, 2011)
- 09028-COMOSITE-TOPO MLE LIMITS.DWG (RECV MAY 28, 2010 FROM CC&V)



100 0 100 200 FEET VERTICAL SCALE

100 0 100 200 FEET HORIZONTAL SCALE

VERTICAL EXAGGERATION = 1X



1 / A505 CHANNEL DETAIL
FROM CREST OF POND TO END OF CHANNEL STA. 6+50

NOTES:

1. PHASE 1 SEDIMENT DETENTION POND HAS BEEN REVISED.
2. RIPRAP DOES NOT NEED TO BE PLACED WHERE POTENTIAL FOR EROSION IS LOW, LOCATIONS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND/OR ENGINEER'S REPRESENTATIVE. (2)

2	05/05/14	RE-ISSUED FOR CONSTRUCTION.	MN / PBS
1	08/15/13	REV. DRAINAGE CHANNEL – RE-ISSUED FOR CONSTRUCTION.	MN / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: PHASE 1 SURFACE WATER DIVERSION CHANNEL PLAN AND PROFILE SHEET 1 OF 3

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	ALD	APPROVED BY	KFM

FILENAME: 1125GP54 | DRAWING No.: A505 | REV: 2

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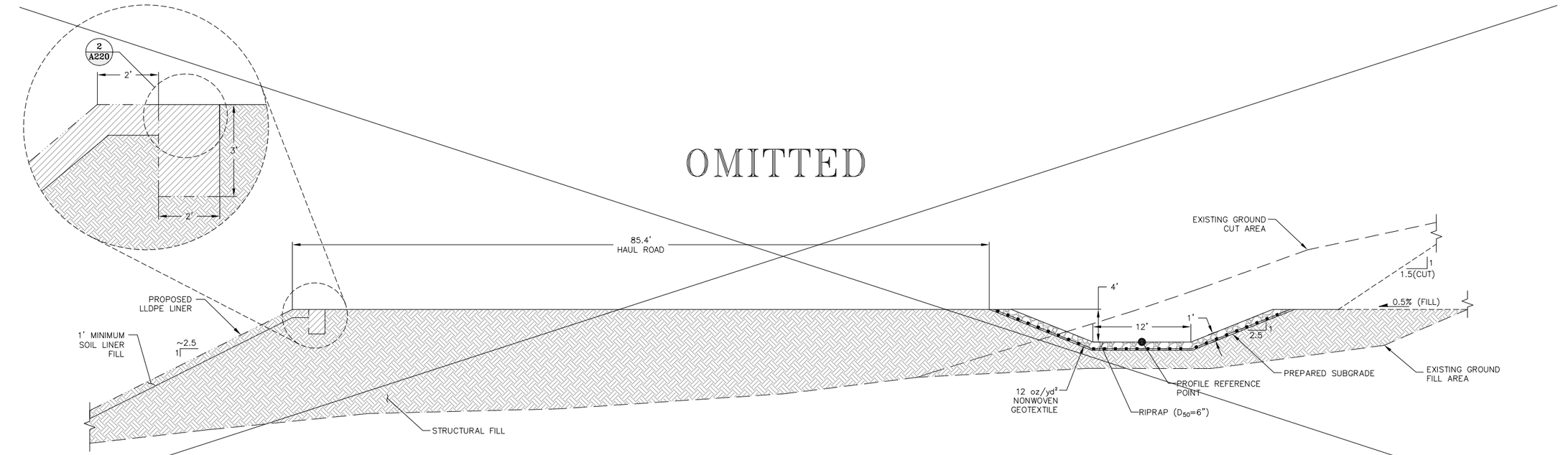
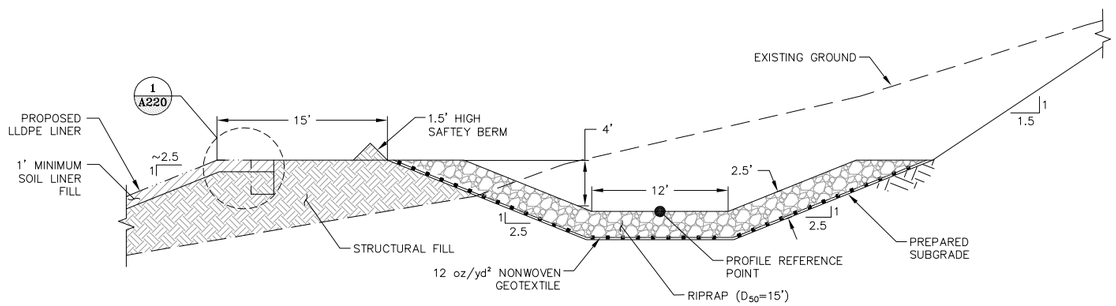


AW A200 | AW A242 | AW A243 | AW A505 | AW A506 | AW A507 TYPICAL RIPRAP-LINED CHANNEL SECTION PHASE 1

NTS



AX A247 | AX A248 | AX A520 | AX A530 TYPICAL RIPRAP-LINED CHANNEL SECTION PHASE 2

1	08/15/13	REVISED HAUL ROAD / RE-ISSUED FOR CONSTRUCTION	ALM / PBS
0	01/07/13	ISSUED FOR CONSTRUCTION	JNM / CMT

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CLIENT: CRIPPLE CREEK & VICTOR GOLD MINING COMPANY

PROJECT: SQUAW GULCH VLF

TITLE: SURFACE WATER DIVERSION SECTIONS AND DETAILS

DESIGNED BY	JNM	CHECKED BY	JNM
DRAWN BY	DS	APPROVED BY	KFM
FILENAME	1125GM58	DRAWING No.	A550
		REV	1

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