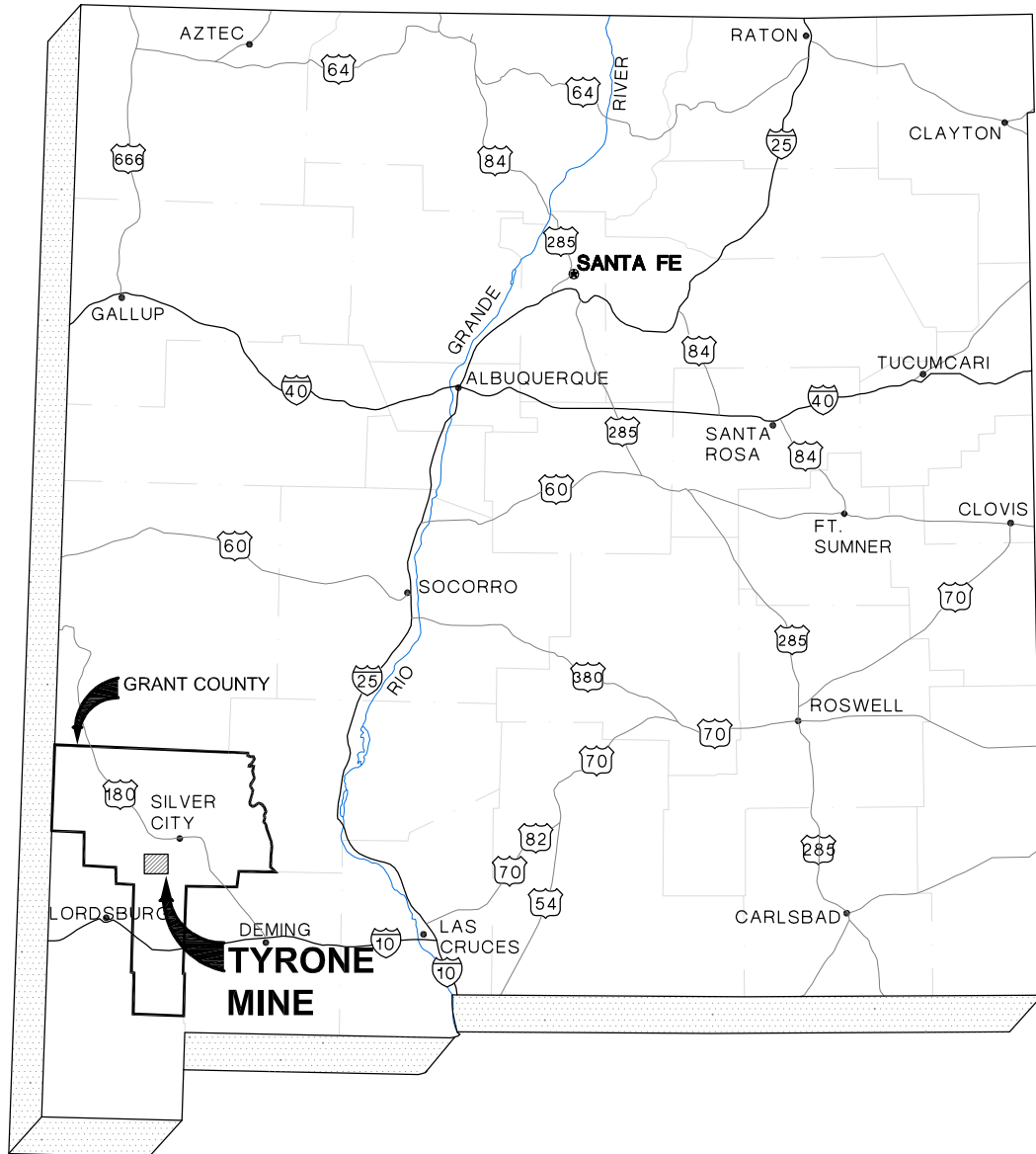



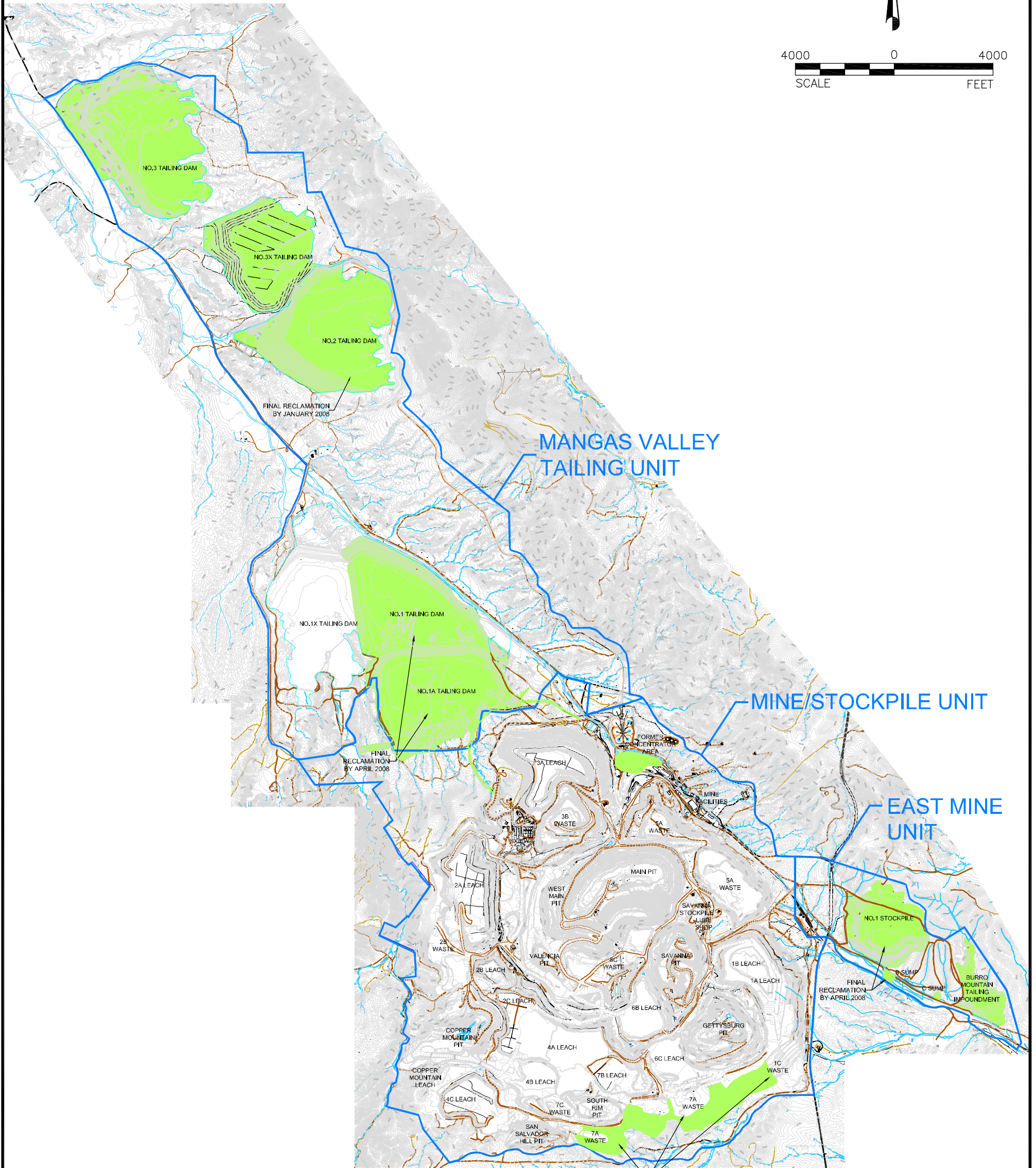
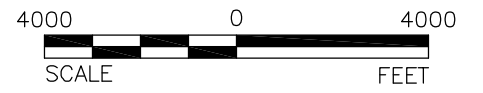
# STATE OF NEW MEXICO







NOT TO SCALE



Drawing file: 1-1 Mine Location Map.dwg Oct 11, 2007 - 7:37am

<b>PROJECT</b>	PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO				
<b>TITLE</b>	<b>MINE LOCATION MAP</b>				
 <b>Golder Associates</b> Albuquerque, New Mexico	<b>PROJECT No.</b>		073-80012	<b>FILE No.</b> 1-1 Mine Location	
	<b>DESIGN</b>	TS	07/09/07	<b>SCALE</b>	AS SHOWN
	<b>CADD</b>	CM	07/09/07	<b>REV.</b>	0
	<b>CHECK</b>	TS	07/09/07	<b>FIGURE 1-1</b>	
<b>REVIEW</b>					



-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
-  UNIMPROVED ROAD
-  DRAINAGE
-  PIPELINE
-  UNIT BOUNDARIES
-  RECLAIMED FACILITIES AND FACILITIES TO BE RECLAIMED BY APRIL 2008

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MWH SURVEY, OCTOBER 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

PROJECT		PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO	
TITLE		TYRONE MINE UNITS AND FACILITIES	
PROJECT No.	073-80012	FILE No.	2-1 Site Location
DESIGN	TS 07/09/07	SCALE	AS SHOWN REV. 0
CADD	CM 07/09/07	<b>FIGURE 2-1</b>	
CHECK	TS 07/09/07		
REVIEW			



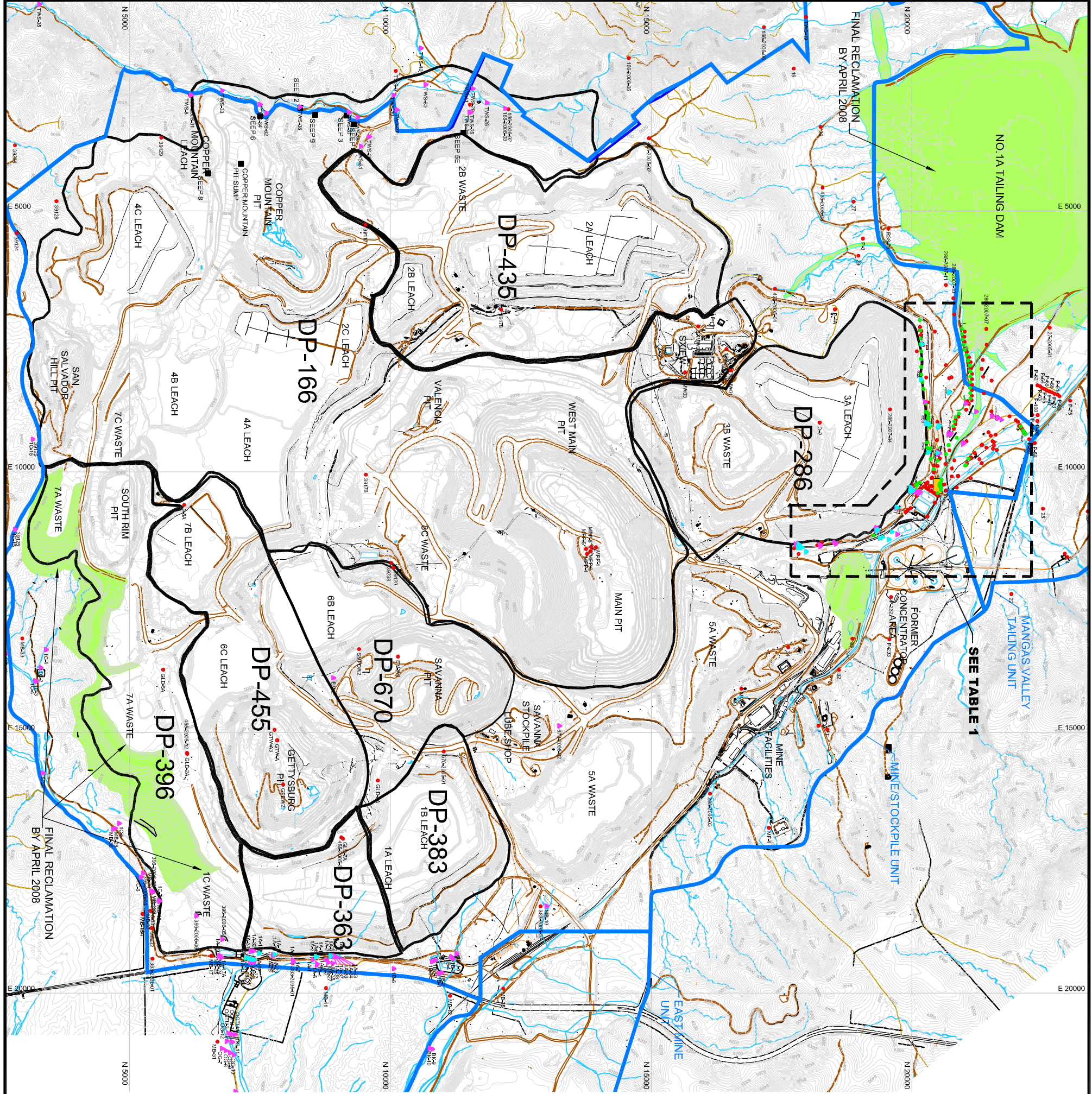
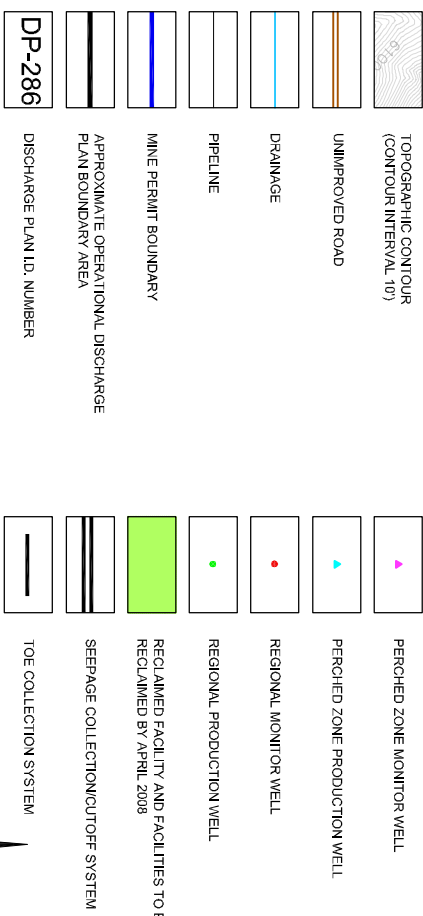
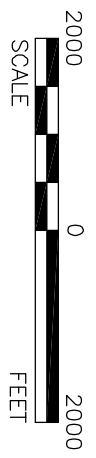


TABLE 1 - WELLS IN THE NO. 3A STOCKPILE AREA

286-2006-01	P-160	P-120	P-239	06-5	06-63	04-27	06-47
286-2006-02	P-161	P-14	P-240	06-59	06-65	04-4	06-48
286-2006-02	P-163	P-21	P-241	06-6	07-15	04-6	01-28
286-2006-04	P-166	P-22	P-239	06-60	07-34	04-7	01-30
286-2006-06	P-167	P-23	P-30	06-61	08-10	04-8	01-33
286-2007-01	P-168	P-78	P-33	06-62	08-11	03-14	04-24
286-2007-02	P-173	P-8	P-38	06-9	08-33	05-15	04-25
286-2007-03	P-176	286-2006-01	P-39	07-33	08-34	05-3	04-28
286-2007-04	P-17A	286-2006-01	P-40	07-35	08-43	05-6	04-30
286-2007-05	P-17A	286-2006-01	P-41	07-36	08-48	06-1	04-31
286-2007-06	0-5R	P-184	P-50	286-2007-15	P-182	010-41	04TLU-1
286-2007-08	P-102	P-187	P-51	286-2007-17	P-184	010-50	04TLU-2
286-2007-09	P-106	P-193	P-52	286-2007-19	P-195	010-51	08-39
286-2007-10	P-10A	P-194	P-54	286-2007-21	P-196	010-52	08-44
286-2007-13	P-10AR	P-2	P-68	286-2007-23	P-198	010-53	08-46
286-2007-14	P-11	P-208	P-68RRR	286-2007-25	P-203	010-57	08-47
286-2007-16	P-111	P-219	P-71A	286-2007-27	P-205	010-59	08-49
286-2007-18	P-114	P-21A	P-72R	286-2007-29	P-206	010-62	08-5
286-2007-20	P-115	P-225	P-74	286-2007-31	P-209	01-10	08-50
286-2007-22	P-116	P-226	P-77	286-2007-33	P-210	01-13	08-8
286-2007-24	P-117	P-227	P-79	286-2007-35	P-211	01-14	08-3
286-2007-26	P-118	P-228	P-80	286-2007-37	P-212	01-16	08-11
286-2007-28	P-119	P-229	P-81	286-2007-39	P-215	07-37	P-165
286-2007-30	P-124	P-229	P-82	286-2007-41	P-216	07-38	010-17
286-2007-32	P-126	P-22A	P-82	286-2007-43	P-217	08-22	05-10
286-2007-34	P-134	P-230	P-83	286-2007-45	P-220	08-22	05-10
286-2007-36	P-140	P-23A	P-84	286-2007-47	P-221	08-22	08-9
286-2007-38	P-149	F-24	P-85	286-2007-49	P-224	08-24	08-11
286-2007-40	P-14A	F-25	P-84	286-2007-50	P-225	08-26	08-15
286-2007-42	P-150	P-28	P-90	286-2007-50	P-226	08-27	06-16
286-2007-44	P-152	P-31	DP-1-2	286-2007-51	P-228	08-30	06-20
286-2007-46	P-154	P-32	O-5	P-12A	P-237	08-36	06-34
286-2007-48	P-16	P-34	P-1	P-13A	P-238	08-36	06-34
5	P-36	P-162	C1-31	P-10-18	P-42	06-10	06-35
6-2R	P-37	P-164	C1-4	C10-55	P-53	08-14	06-36
C10-42	P-43	P-165	C1-5	C10-58	P-54	08-17	08-45
C10-54	P-44	P-174	C2-11	C1-16	P-55	08-18	08-46
C10-8	P-45	P-177	C2-12	C1-15	P-56	08-19	08-46
C11-1	P-46	P-178	C2-4	C1-18	P-57	06-2	06-53
C1-12	P-47	P-182	C3-1	C1-19	P-70	06-33R	
0-3R	P-48	P-185	C3-11	C1-22	P-76	06-4	06-4
P-49	P-49	P-188	C3-13	C1-23	P-188	C10-28	06-43
P-5	P-189	04-26	C1-25	C10-40	08-44		



REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MWH SURVEY, 2006 HAMIL TON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.



PROJECT: PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO

TITLE: MINE/STOCKPILE UNIT AREA

PROJECT No. 073-80012 FILE No. 2-2 Mine\_Stkpl Unit

DESIGN TS 07/09/07 SCALE AS SHOWN REV. 0

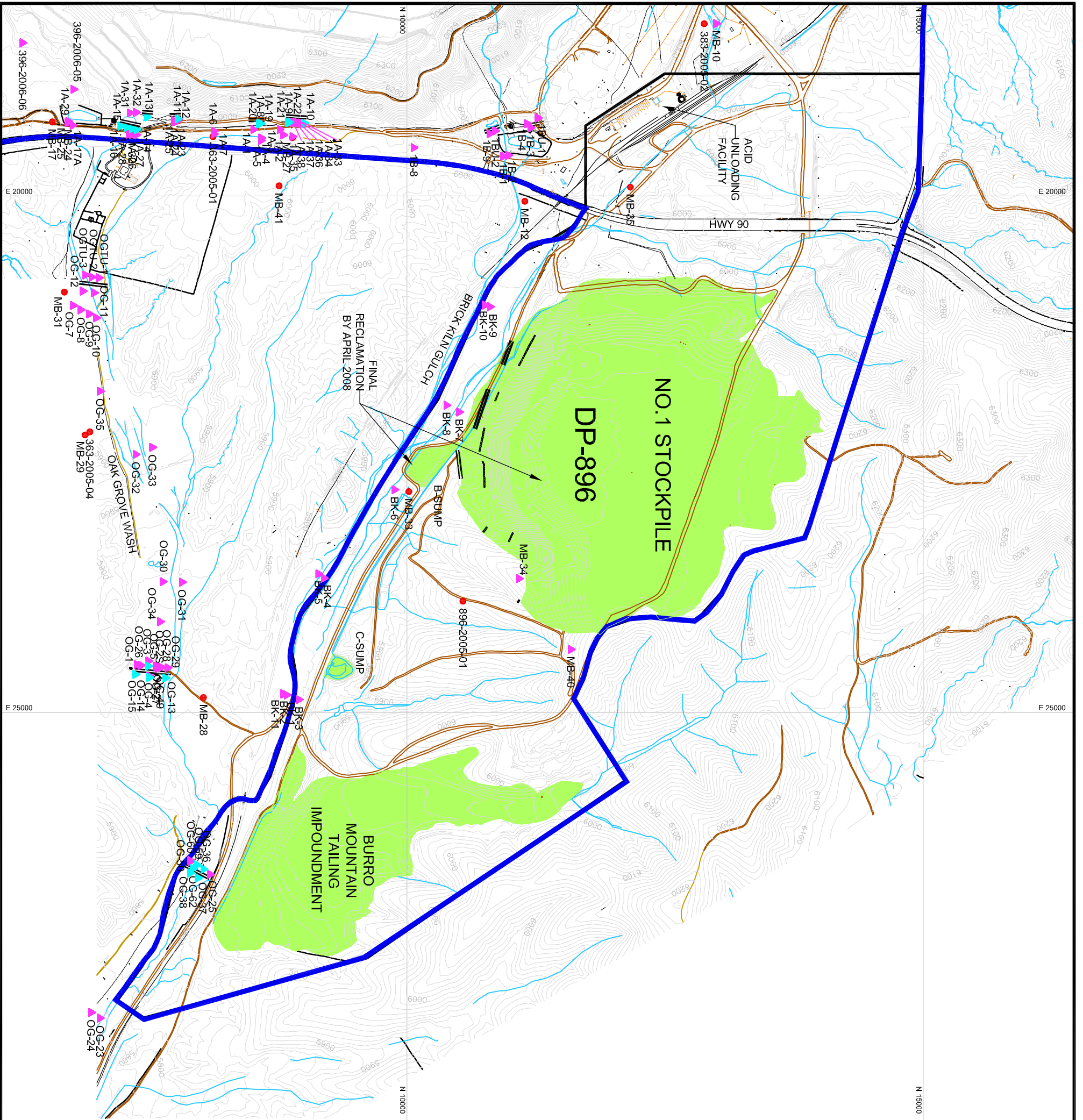
CADD CM 07/09/07

CHECK TS 07/09/07

REVIEW

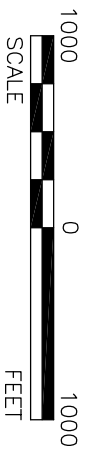
**Goldier Associates**  
Albuquerque, New Mexico

**FIGURE 2-2**



- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL '10')
- UNIMPROVED ROAD
- DRAINAGE
- PIPELINE
- MINE PERMIT BOUNDARY
- APPROXIMATE OPERATIONAL DISCHARGE PLAN AREA
- DP-896 DISCHARGE PLAN I.D. NUMBER
- RECLAIMED FACILITY AND FACILITIES TO BE RECLAIMED BY APRIL 2008
- PERCHED ZONE MONITOR WELL
- PERCHED ZONE PRODUCTION WELL
- REGIONAL MONITOR WELL
- SEEPAGE COLLECTION/CUTOFF SYSTEM
- TOE COLLECTION SYSTEM

REFERENCE SOURCE OF TOPOGRAPHY: END OF THE YEAR 2007 MINE PLAN, FEBRUARY 2004 MINE TOPOGRAPHY, OCTOBER 2008 HAMILTON SURVEY.



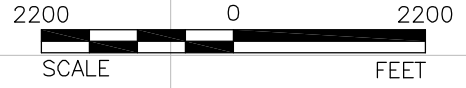
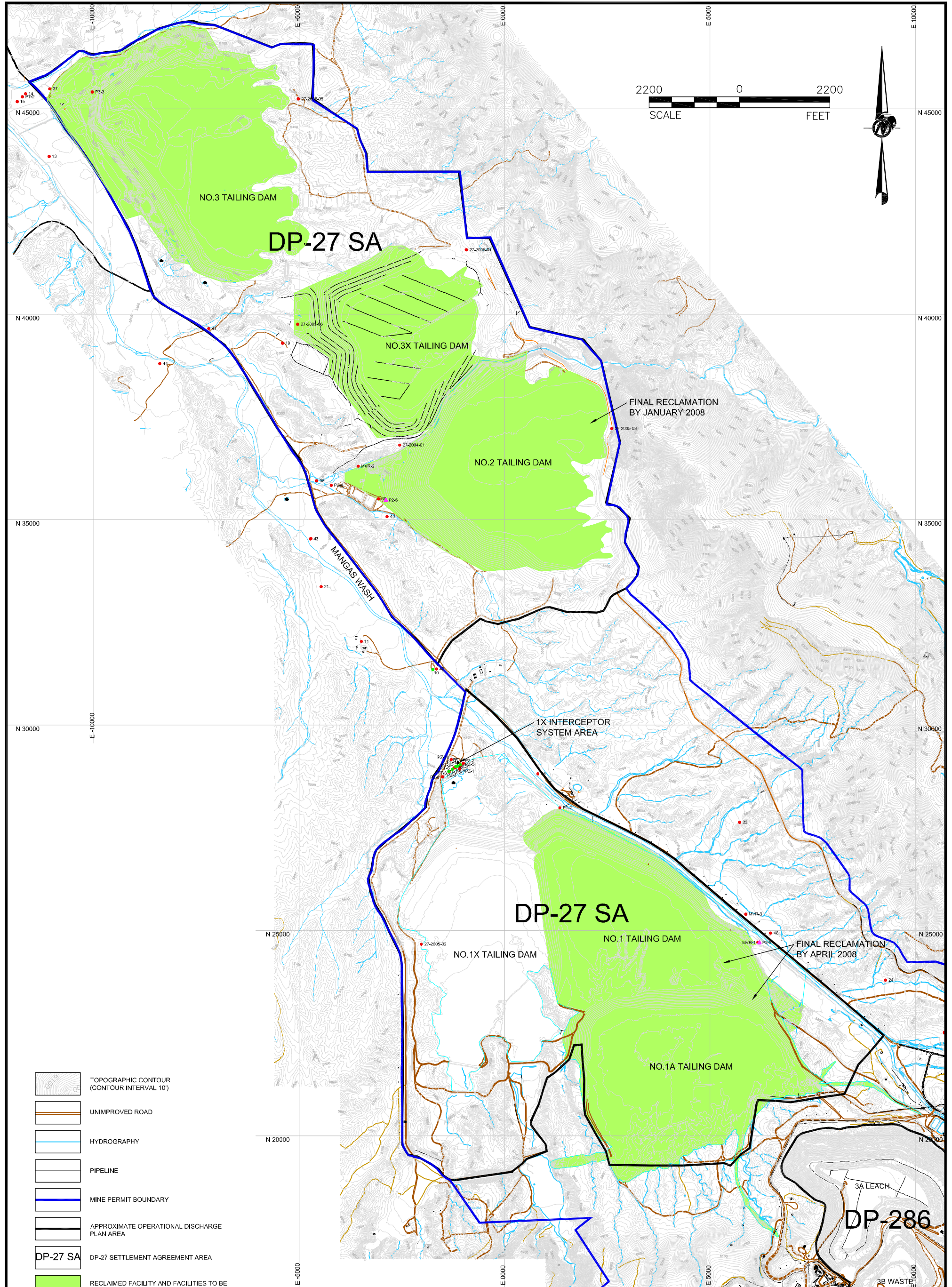
PROJECT  
PHELPS DODGE TYRONE INC.  
TYRONE CLOSURE/CLOSEOUT  
GRANT COUNTY, NEW MEXICO













**EAST MINE UNIT AREA**

**Goldier Associates**  
Albuquerque, New Mexico


PROJECT No.	073-80012	FILE No.	East Mine - Stkpl Unit
DESIGN	TS 07/09/07	SCALE	AS SHOWN REV. 0
CADD	CM 07/09/07		
CHECK	TS 07/09/07		
REVIEW			

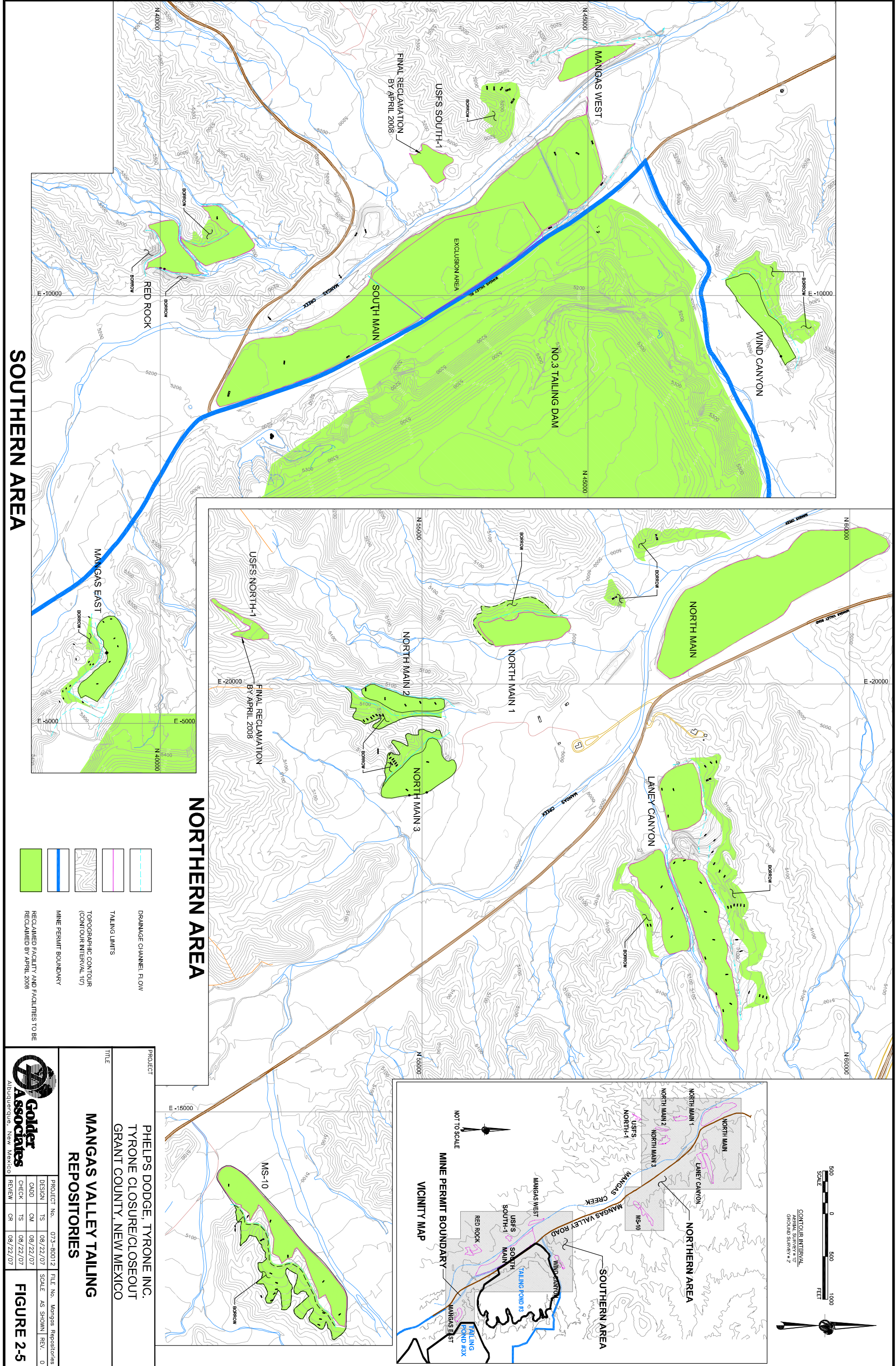
**FIGURE 2-3**



-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
-  UNIMPROVED ROAD
-  HYDROGRAPHY
-  PIPELINE
-  MINE PERMIT BOUNDARY
-  APPROXIMATE OPERATIONAL DISCHARGE PLAN AREA
-  DP-27 SA
-  RECLAIMED FACILITY AND FACILITIES TO BE RECLAIMED BY APRIL 2008.
-  PERCHED ZONE MONITOR WELL
-  PERCHED ZONE PRODUCTION WELL
-  REGIONAL MONITOR WELL
-  REGIONAL PRODUCTION WELL

REFERENCE SOURCE OF TOPOGRAPHY: FEBRUARY 2004 MINE TOPOGRAPHY, OCTOBER 2006 HAMILTON SURVEY, END OF YEAR 2007 MINE PLAN.

<b>PROJECT</b>	PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO		
<b>TITLE</b>	<b>MANGAS VALLEY TAILING UNIT AREA</b>		
 <b>Golder Associates</b> Albuquerque, New Mexico	PROJECT No.	073-80012	FILE No. Mangas V Tail Unit
	DESIGN	TS 07/31/07	SCALE AS SHOWN REV. 0
	CADD	CM 07/31/07	
	CHECK	TS 08/01/07	
REVIEW			<b>FIGURE 2-4</b>



**SOUTHERN AREA**

**NORTHERN AREA**

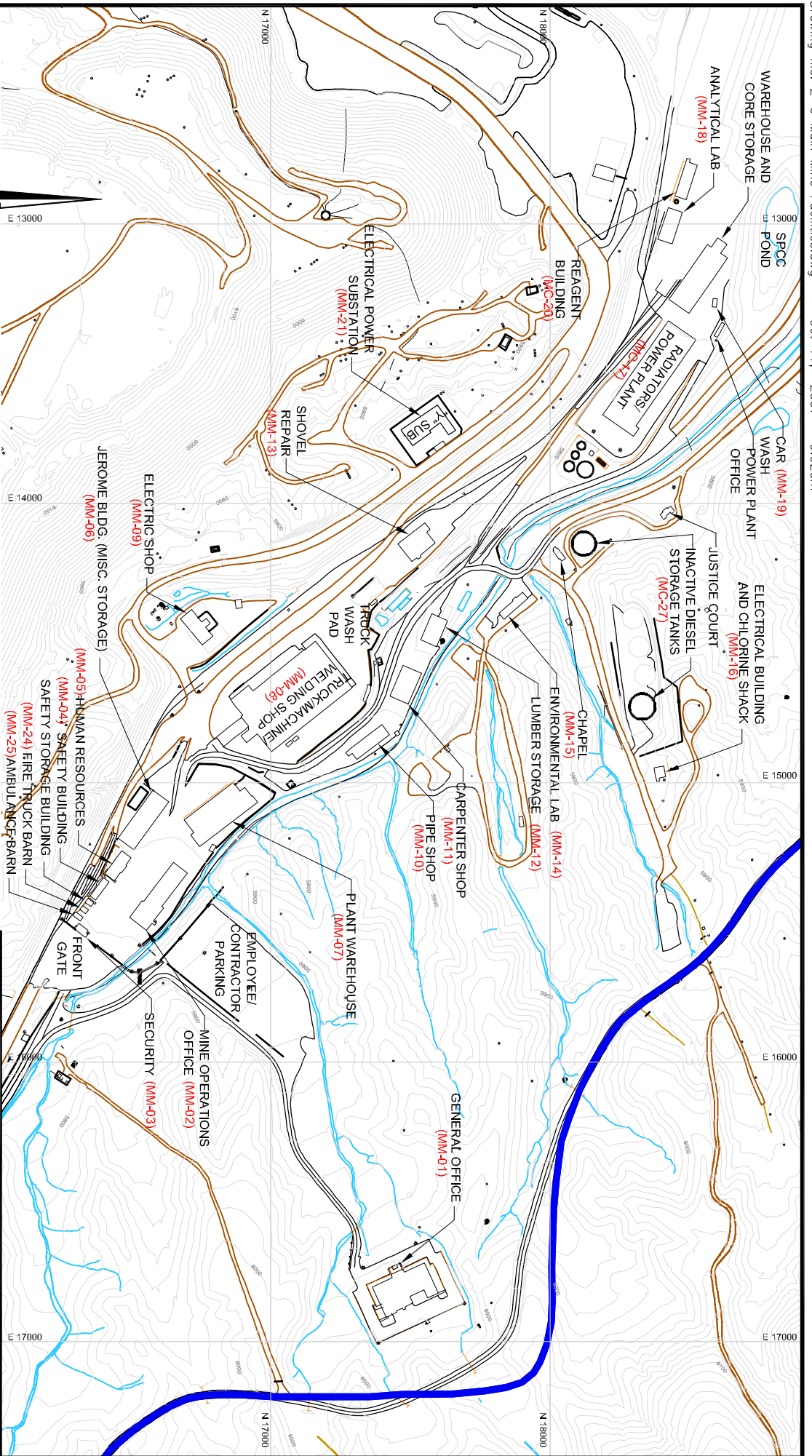
PROJECT  
**PHELPS DODGE, TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

TITLE  
**MANGAS VALLEY TAILING  
 REPOSITORIES**

**Golder Associates**  
 Albuquerque, New Mexico

PROJECT No.	073-80012	FILE No.	Mangas Repositories
DESIGN	TS 08/22/07	SCALE	AS SHOWN
CADD	CM 08/22/07	REV.	0
CHECK	TS 08/22/07		
REVIEW	CR 08/22/07		

**FIGURE 2-5**



PROJECT: PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

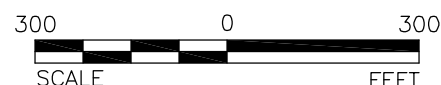
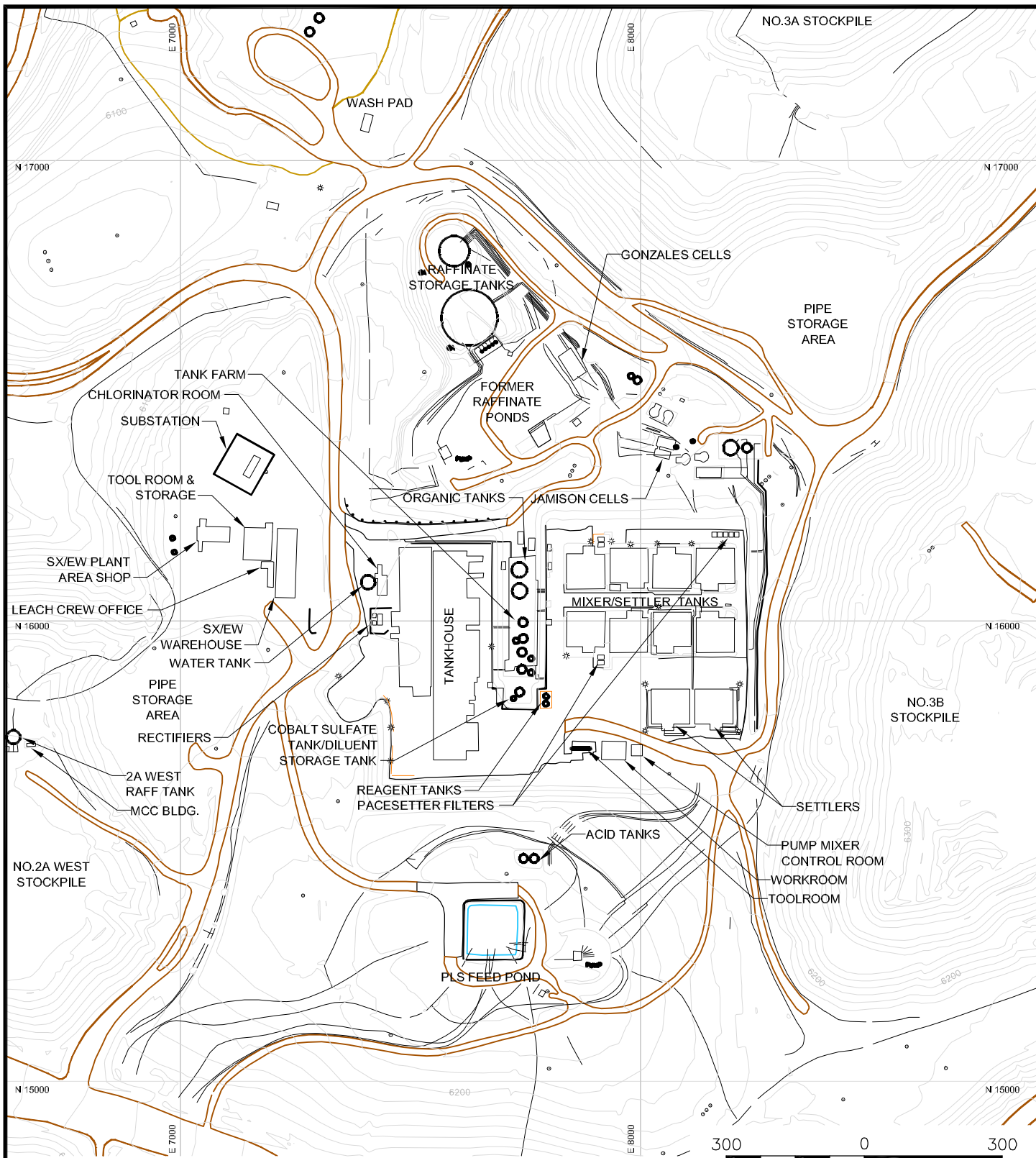
TITLE: MAIN MINE FACILITIES AREA

PROJECT No.	073-80012	FILE No.	2-6 Mine Facilities
DESIGN	TS 07/09/07	SCALE	AS SHOWN
CADD	CM 07/09/07	REV.	0
CHECK	TS 07/09/07		
REVIEW			

**FIGURE 2-6**



Drawing file: 2-7 SXEW PLANT.dwg Oct 11, 2007 - 9:04am



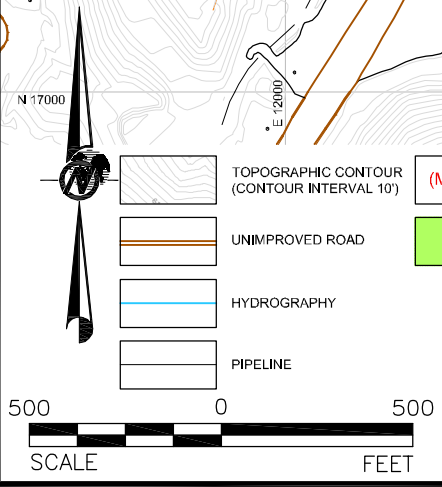
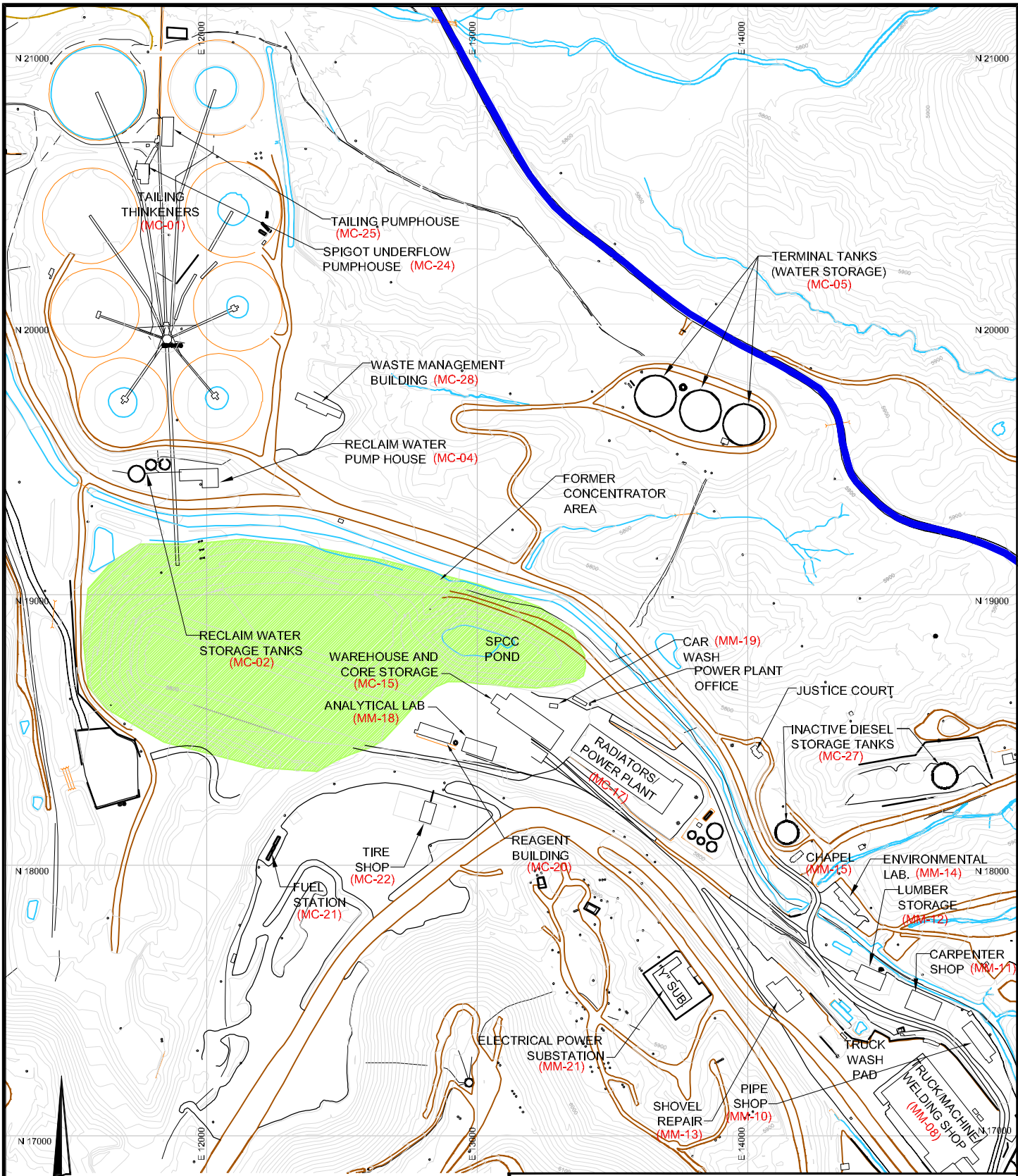
- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
- UNIMPROVED ROAD
- HYDROGRAPHY
- PIPELINE









PROJECT	PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO		
TITLE	<b>SX/EW PLANT AREA</b>		
<b>Golder Associates</b> Albuquerque, New Mexico		PROJECT No. 073-80012	FILE No. 2-7 SXEW PLANT
DESIGN	TS	07/09/07	SCALE AS SHOWN
CADD	CM	07/09/07	REV. 0
CHECK	TS	07/09/07	
REVIEW			
			FIGURE 2-7




Drawing file: 2-8 Mill-Concentrator.dwg Oct 11, 2007 - 9:19am



-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
-  UNIMPROVED ROAD
-  HYDROGRAPHY
-  PIPELINE
-  BUILDING TAG NUMBER
-  RECLAIMED FACILITIES AND FACILITIES TO BE RECLAIMED BY APRIL 2008

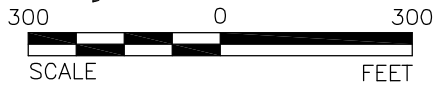
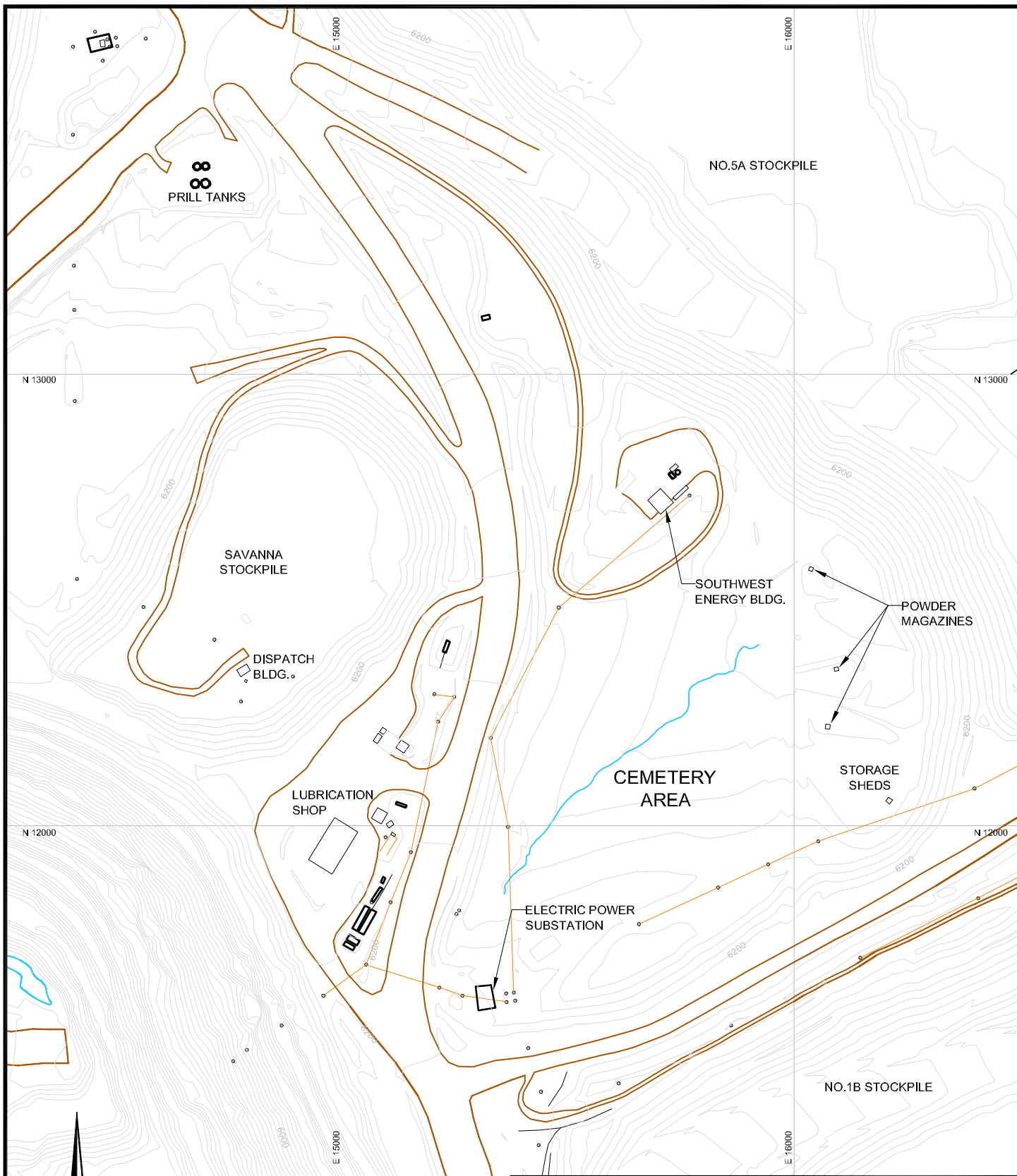
PROJECT  
**PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO**




TITLE  
**FORMER MILL AND CONCENTRATOR WITHIN  
 THE MAIN MINE FACILITIES AREA**

 <b>Golder Associates</b> Albuquerque, New Mexico	PROJECT No.	073-80012	FILE No. 2-8 Mill Concentrator
	DESIGN	TS 07/09/07	SCALE AS SHOWN REV. 0
	CADD	CM 07/09/07	
	CHECK	TS 07/09/07	
REVIEW			

**FIGURE 2-8**

Drawing file: 2-9 Lubrication Shop.dwg Oct 11, 2007 - 9:23am



-  TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
-  UNIMPROVED ROAD
-  HYDROGRAPHY

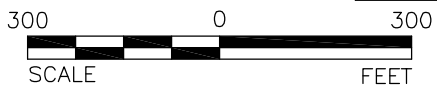
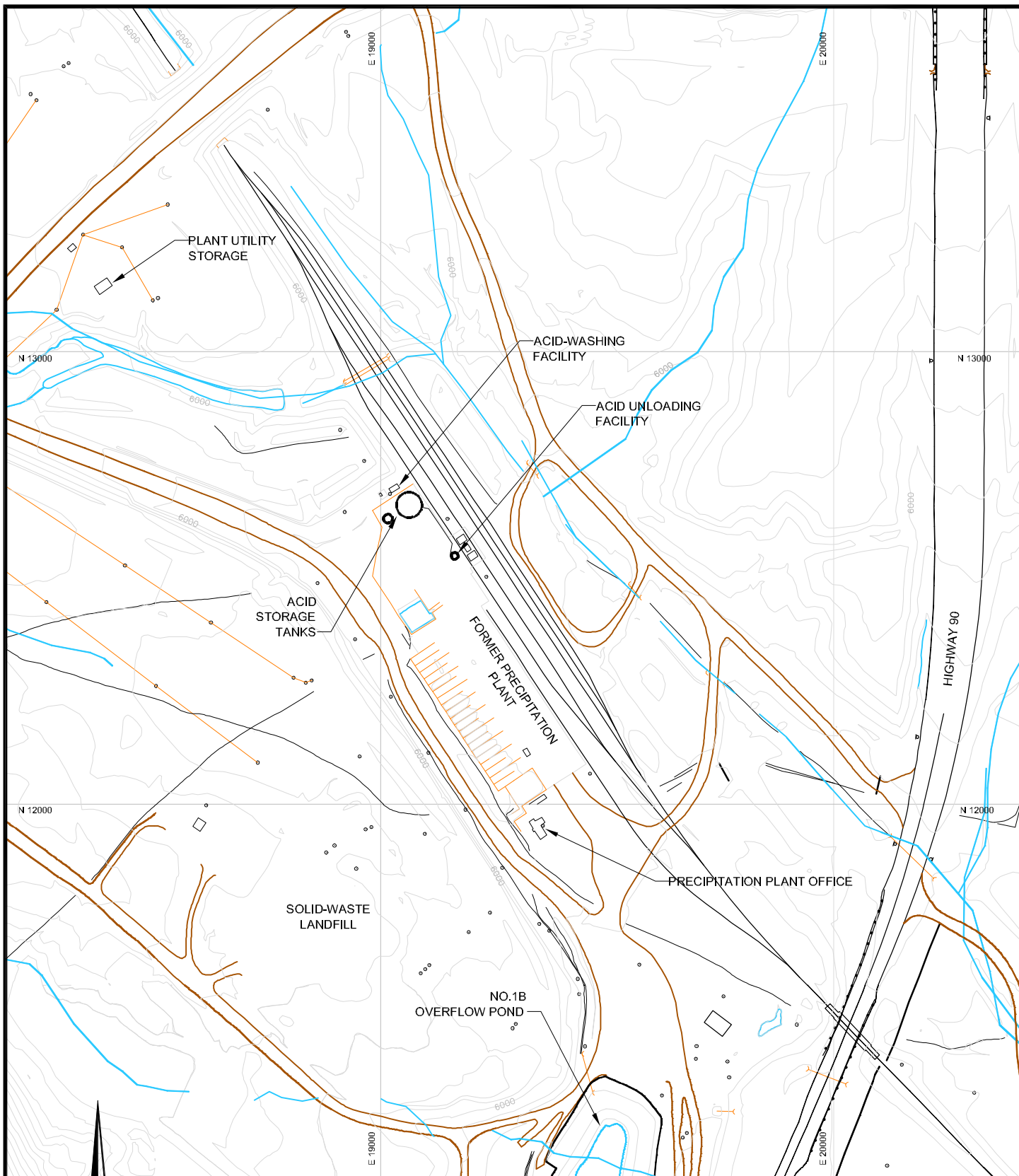
PROJECT  
**PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO**

TITLE  
**LUBRICATION SHOP AREA**



PROJECT No.	073-80012	FILE No.	Lubrication Shop
DESIGN	TS 07/09/07	SCALE	AS SHOWN
CADD	CM 07/09/07	REV.	0
CHECK	TS 07/09/07	<b>FIGURE 2-9</b>	
REVIEW			

Drawing file: 2-10 Acid-Unloading \_Precipitation Plant.dwg Oct 11, 2007 - 9:25am



- TOPOGRAPHIC CONTOUR (CONTOUR INTERVAL 10')
- UNIMPROVED ROAD
- HYDROGRAPHY
- PIPELINE

PROJECT  
**PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO**

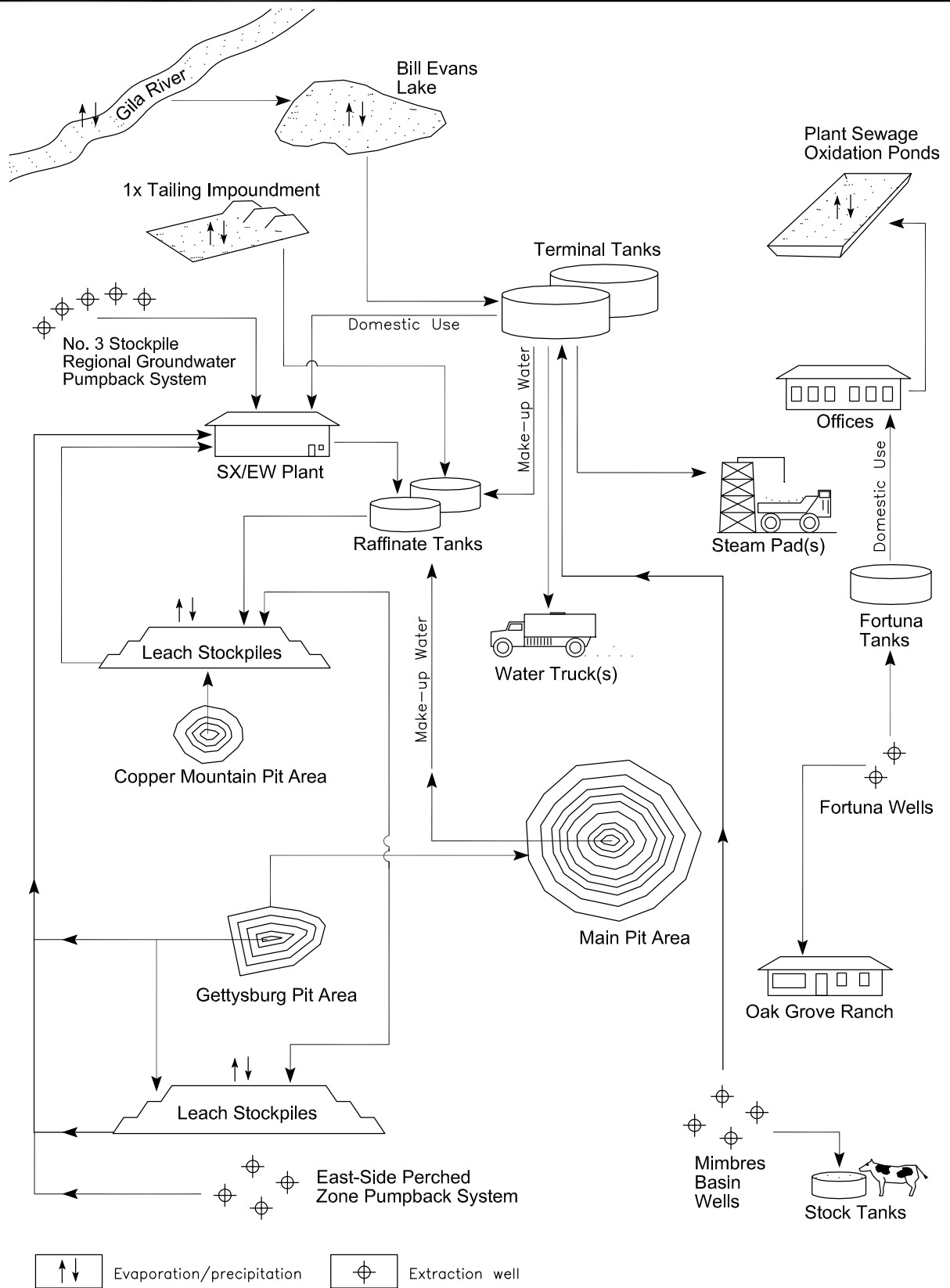
TITLE  
**ACID-UNLOADING FACILITY AREA AND  
 FORMER PRECIPITATION PLANT**



PROJECT No.	073-80012	FILE No.	Acid-Unloading_Precip
DESIGN	TS 07/09/07	SCALE	AS SHOWN REV. 0
CADD	CM 07/09/07		
CHECK	TS 07/09/07		
REVIEW			

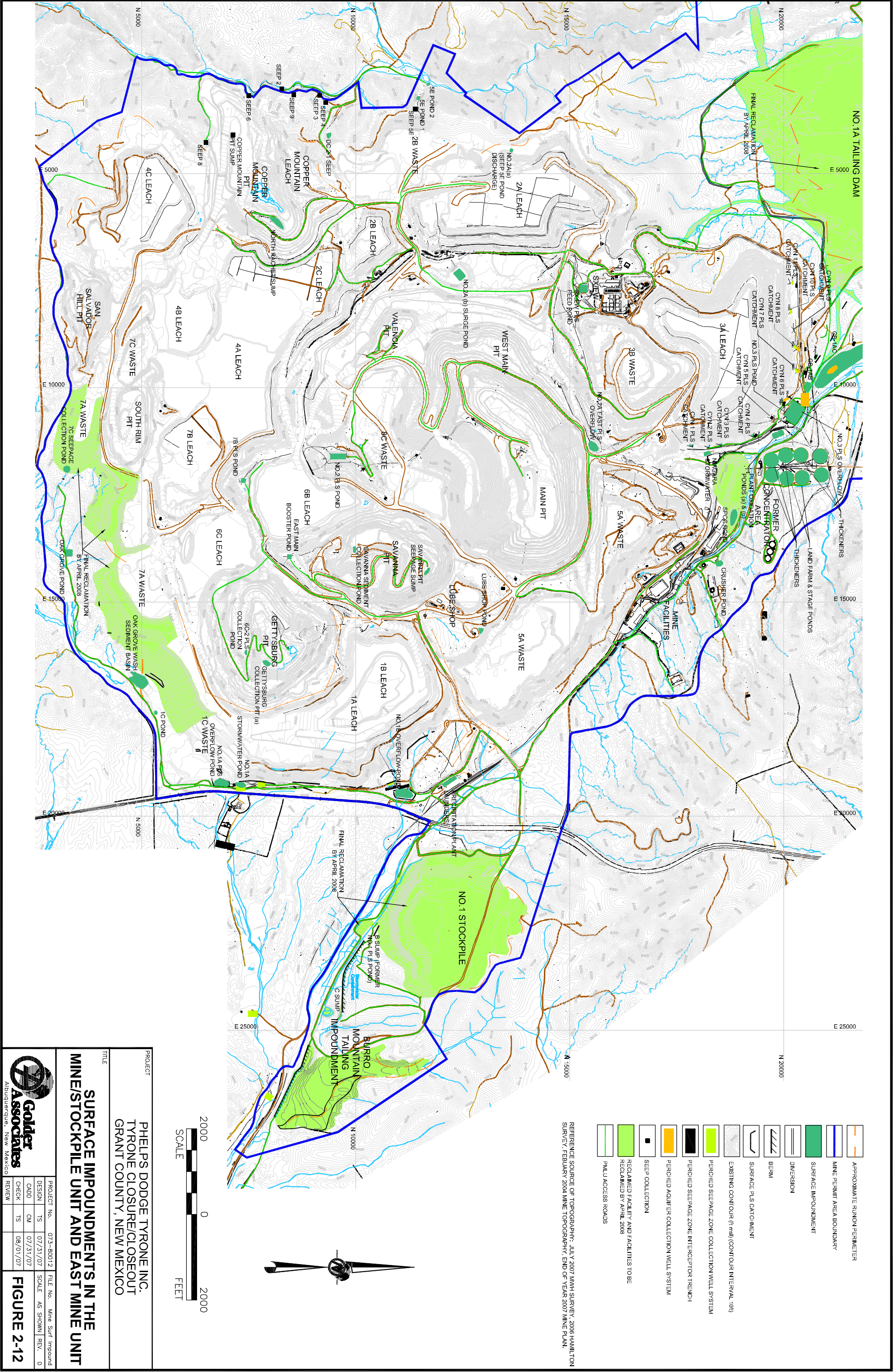
**FIGURE 2-10**

Drawing file: 2-11 Water Management.dwg Oct 11, 2007 - 9:26am



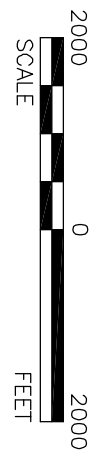
↑↓ Evaporation/precipitation
 ⊕ Extraction well

PROJECT	<b>PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO</b>			
TITLE	<b>CURRENT WATER MANAGEMENT SCHEMATIC</b>			
 <b>Golder Associates</b> Albuquerque, New Mexico	PROJECT No.	073-80012	FILE No.	Water Management
	DESIGN	TS	07/09/07	SCALE AS SHOWN
	CADD	CM	07/09/07	REV. 0
	CHECK	TS	07/09/07	REV. 0
REVIEW			FIGURE 2-11	



- APPROXIMATE RUNON PERIMETER
- MINE PERMIT AREA BOUNDARY
- SURFACE IMPOUNDMENT
- DIVERSION
- BERM
- SURFACE PLS CATCHMENT
- EXISTING CONTOUR (ft.msl) (CONTOUR INTERVAL: 10ft)
- PERCHED SEEPAGE ZONE COLLECTION WELL SYSTEM
- PERCHED SEEPAGE ZONE INTERCEPTOR TRENCH
- PERCHED AQUIFER COLLECTION WELL SYSTEM
- SEEP COLLECTION
- RECLAIMED FACILITY AND FACILITIES TO BE RECLAIMED BY APRIL 2008
- PMLU ACCESS ROADS

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MWH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.



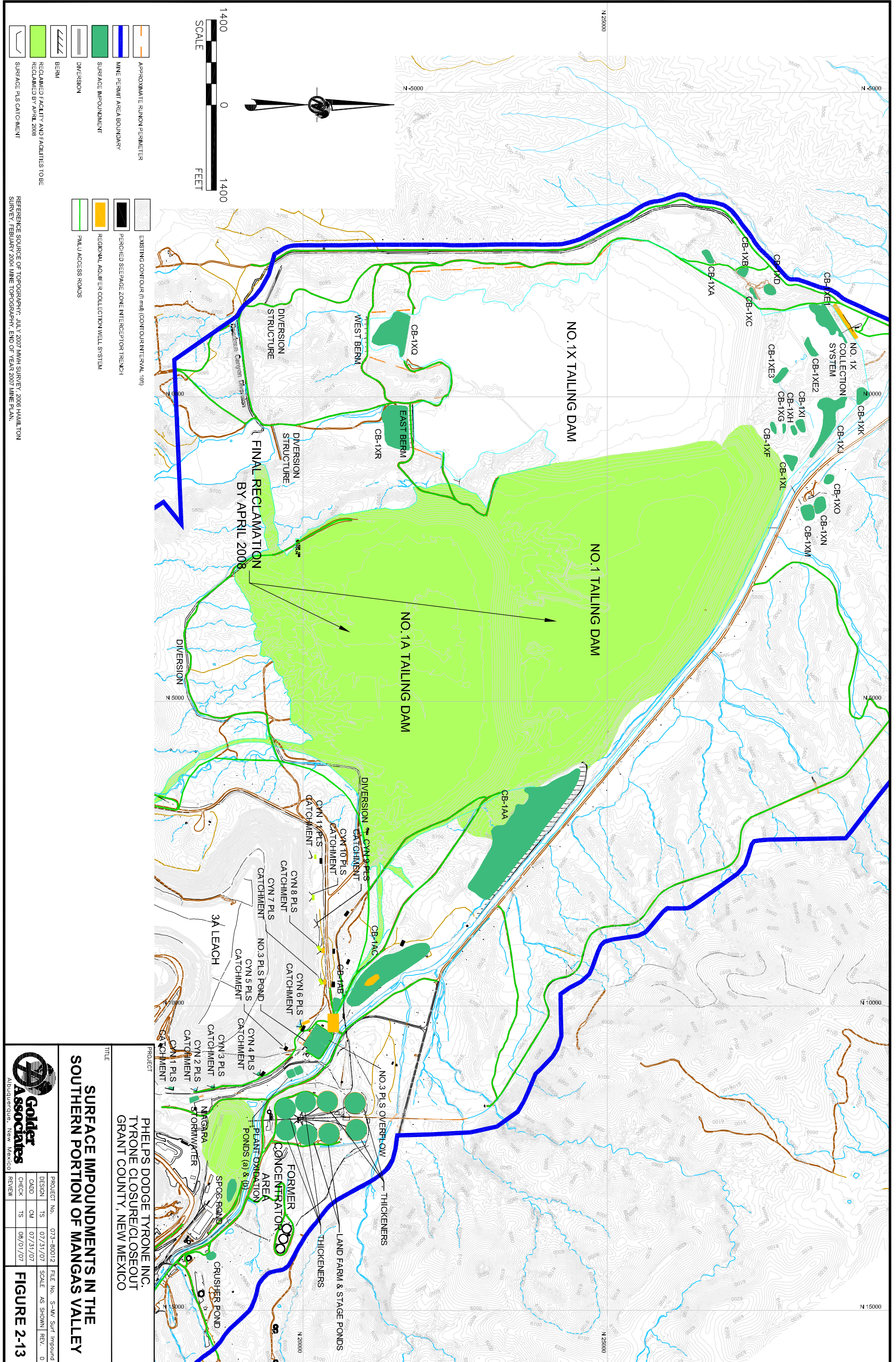
PROJECT  
**PHELPS DODGE TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

**SURFACE IMPOUNDMENTS IN THE  
 MINE/STOCKPILE UNIT AND EAST MINE UNIT**

PROJECT No.	073-80012	FILE No.	Mine Surf Impound
DESIGN	TS 07/31/07	SCALE	AS SHOWN REV. 0
CADD	CM 07/31/07		
CHECK	TS 08/01/07		
REVIEW			



**FIGURE 2-12**



**SURFACE IMPOUNDMENTS IN THE SOUTHERN PORTION OF MANGAS VALLEY**

PROJECT  
**PHELPS DODGE TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

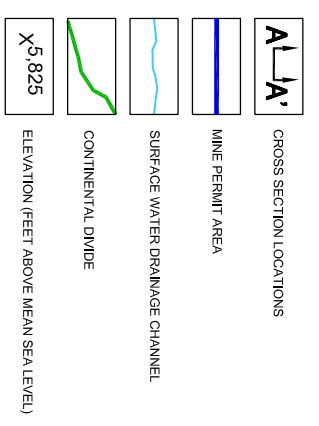
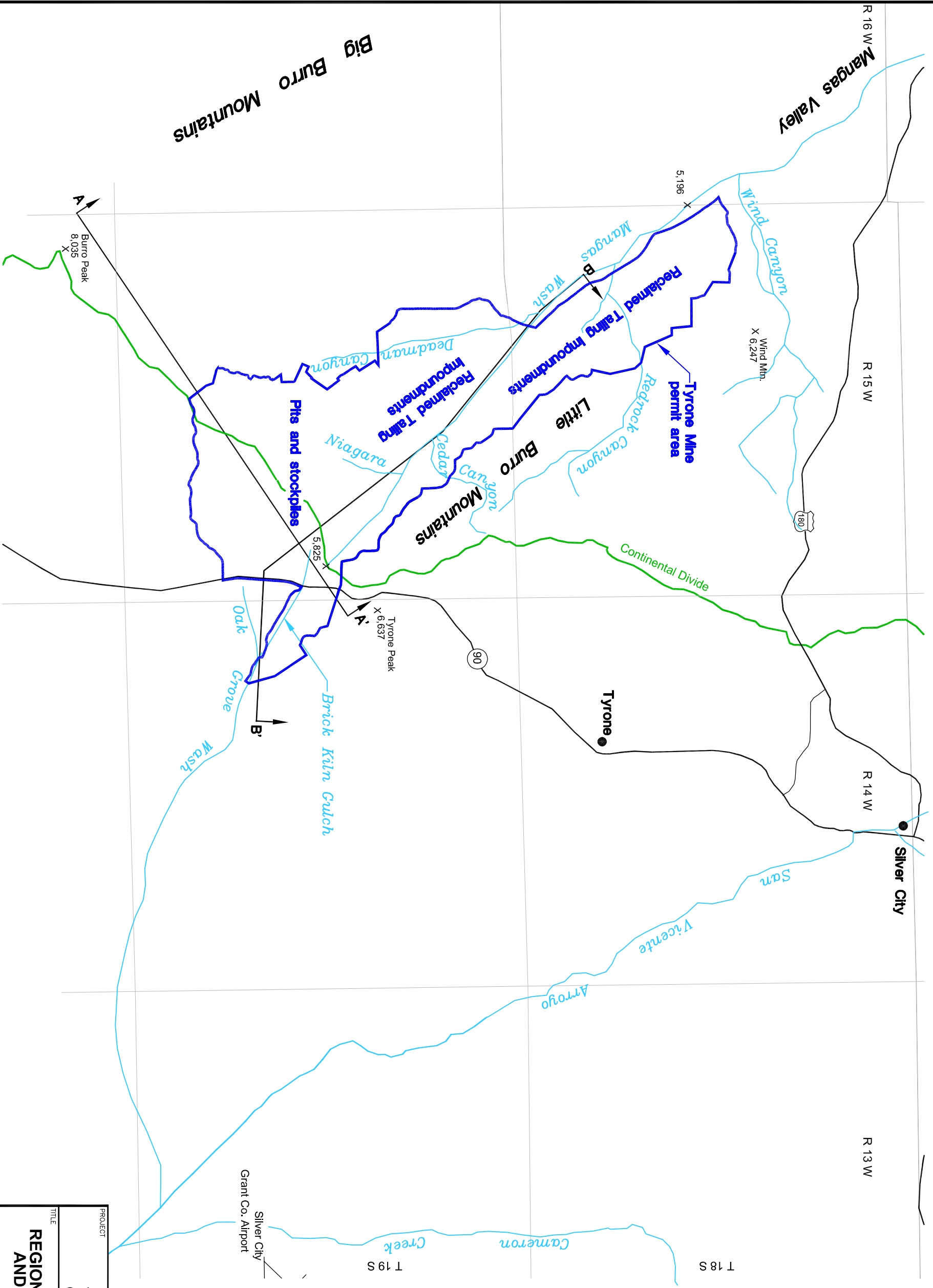
**Goldier Associates**  
 Albuquerque, New Mexico

PROJECT No.	073-80012	FILE No.	S-MV Surf Impound
DESIGN	TS 07/31/07	SCALE	AS SHOWN REV. 0
QA/QD	CM 07/31/07	CHECK	TS 08/01/07
REVIEW			

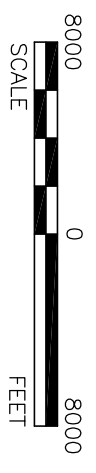
**FIGURE 2-13**

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MMH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

Source: Hedlund, 1978



NOTE: CROSS SECTION DETAILS SHOWN ON FIGURE 2-18.



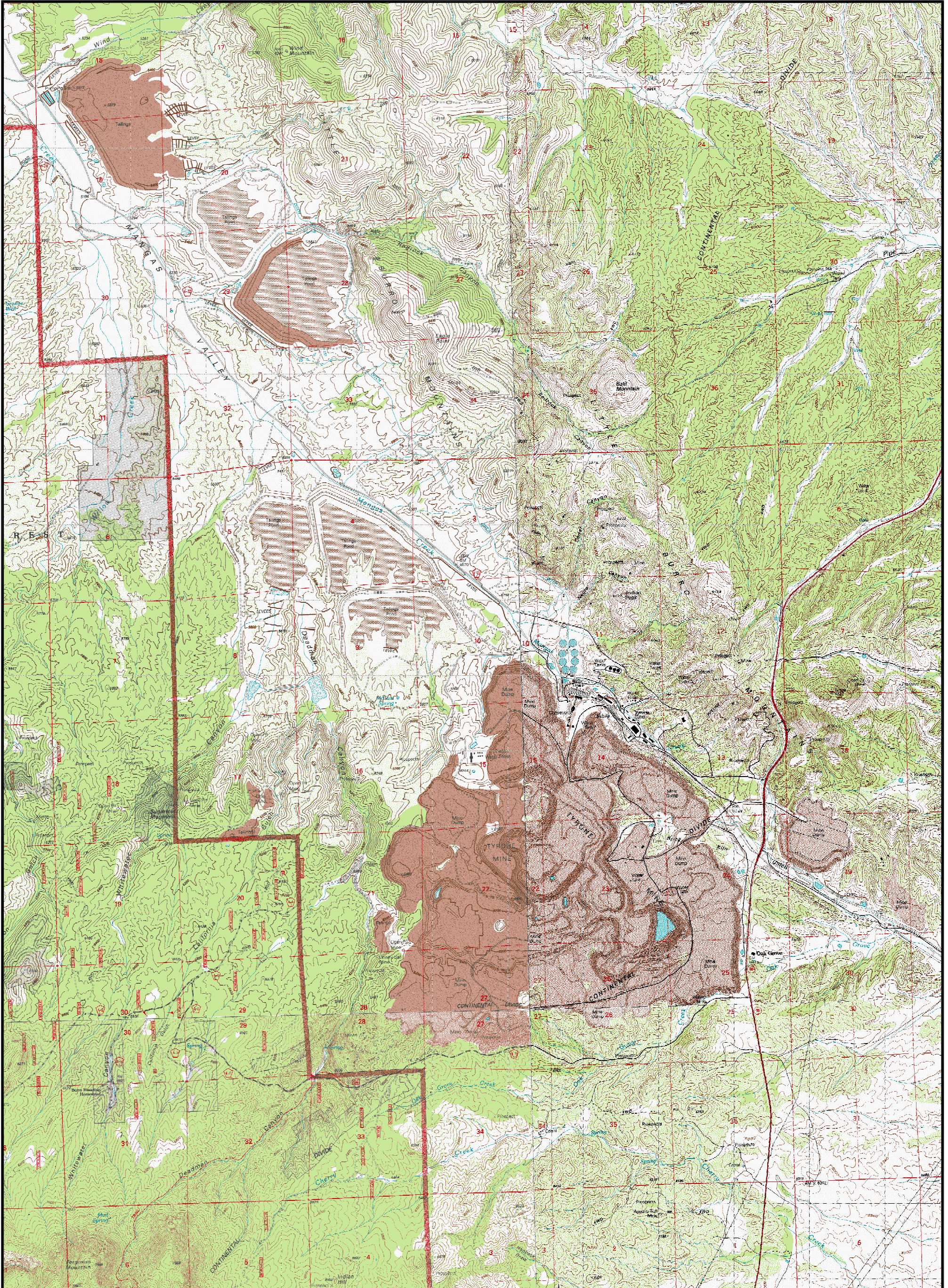
PROJECT  
PHELPS DODGE TYRONE INC.  
TYRONE CLOSURE/CLOSEOUT  
GRANT COUNTY, NEW MEXICO

**REGIONAL PHYSIOGRAPHIC FEATURES  
AND CROSS SECTION LOCATIONS**

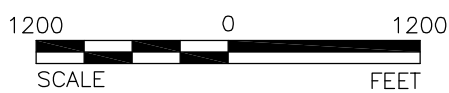
PROJECT No.		073-80012		FILE No		Regional Physiographic	
DESIGN	TS	07/31/07	SCALE	AS SHOWN	REV.	0	
CADD	CM	07/31/07					
CHECK	TS	08/01/07					
REVIEW							

**FIGURE 2-14**






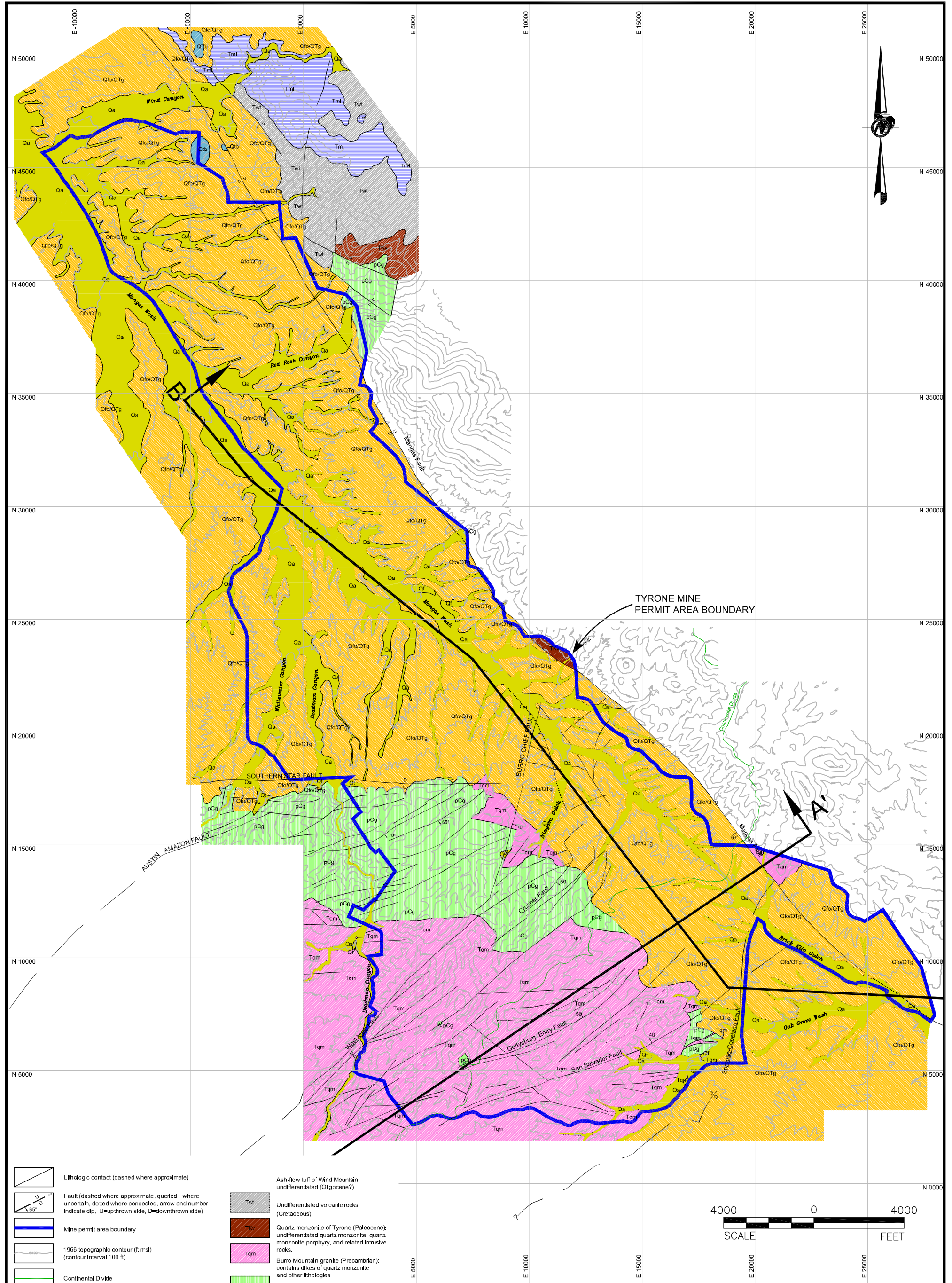
**NOTE:** TOPOGRAPHIC MAP DETAILS WERE DEVELOPED BETWEEN 1992 AND 1999. SPECIFIC MINE FEATURES MAY VARY FROM THOSE SHOWN ON THIS MAP. FOR SPECIFIC MINE TOPOGRAPHY AND PHYSICAL FEATURES, REFER TO PLATES 1 THROUGH 3 OF THIS CCP.



**Source:** ALL TOPO MAPS V7 PROFESSIONAL MAP REFERENCE SET, NEW MEXICO RELEASE 3.

PROJECT	PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO		
TITLE	REGIONAL TOPOGRAPHIC MAP		
 <b>Golder Associates</b> Albuquerque, New Mexico	PROJECT No.	073-80012	FILE No Tyrone Area Topo Map
	DESIGN	TS	07/31/07
	CADD	CM	07/31/07
	CHECK	TS	08/01/07
REVIEW			SCALE AS SHOWN REV. 0
			<b>FIGURE 2-15</b>

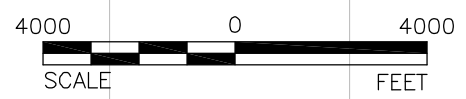




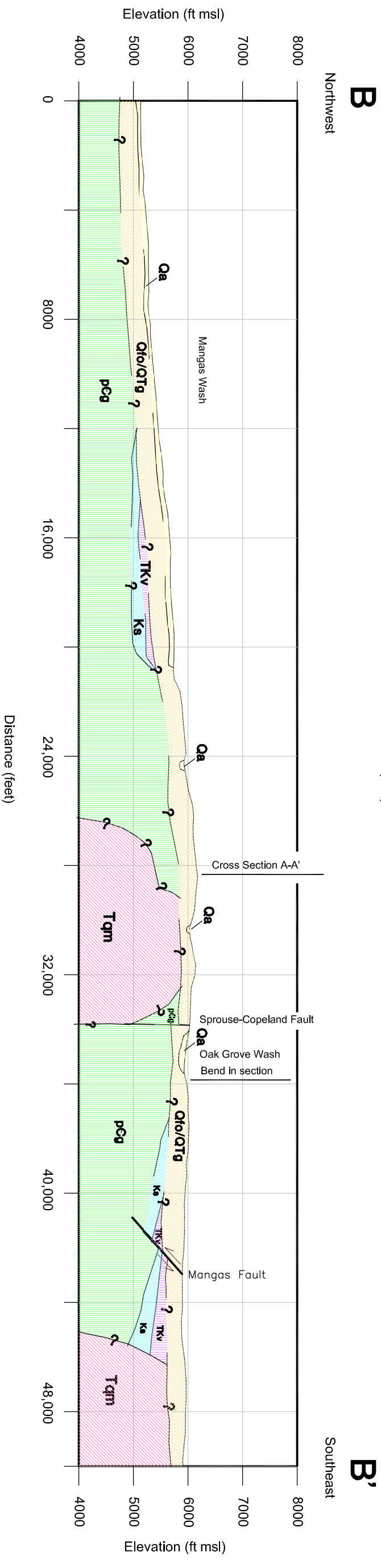
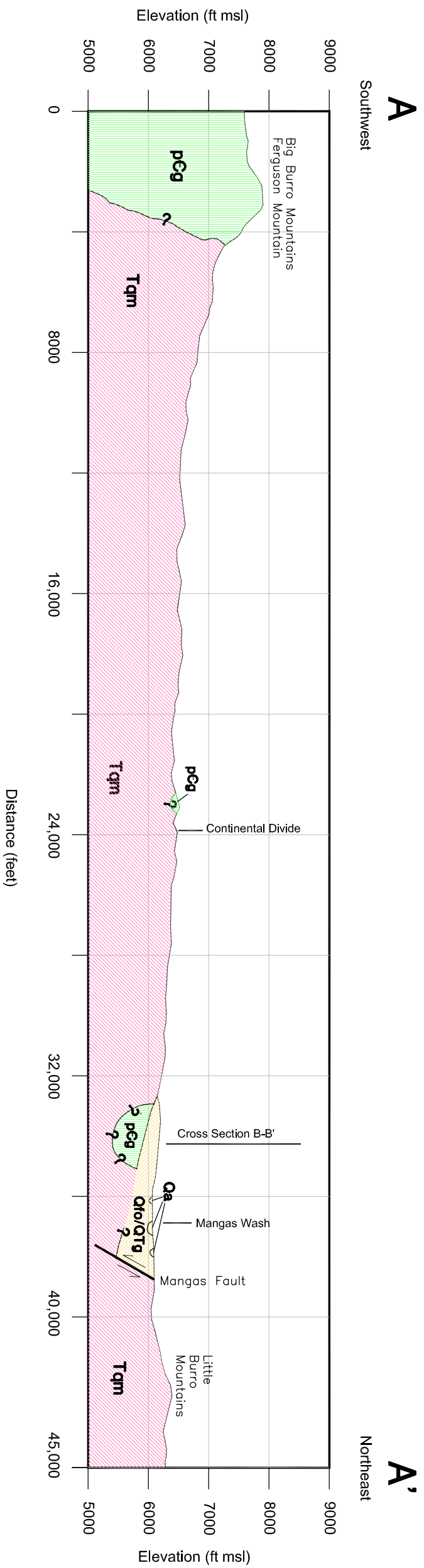
- Lithologic contact (dashed where approximate)
- Fault (dashed where approximate, queried where uncertain, dotted where concealed, arrow and number indicate dip, U=upthrown side, D=downthrown side)
- Mine permit area boundary
- 1966 topographic contour (ft msl) (contour interval 100 ft)
- Continental Divide
- Qa Alluvium (Holocene); unconsolidated poorly sorted gravel, sand, and silt
- Qf Fan deposits (Holocene and/or Pleistocene); sheet flood fan deposits
- Ql Talus (Holocene and/or Pleistocene)
- Qlb Basalt (Pleistocene and/or Pliocene?)
- Qfo/QTg Undifferentiated older fan deposits, undifferentiated sheet flood deposits (Pleistocene and/or Pliocene); Pleistocene, Pliocene, and Miocene; upper eroded surface locally cemented by caliche
- Tml Andesite and basaltic andesite (Oligocene?) flows and pyroclastic rocks exposed in Wind Canyon
- Twl Ash-flow tuff of Wind Mountain, undifferentiated (Oligocene?)
- Twv Undifferentiated volcanic rocks (Cretaceous)
- Tqm Quartz monzonite of Tyrone (Paleocene); undifferentiated quartz monzonite, quartz monzonite porphyry, and related intrusive rocks.
- pCg Burro Mountain granite (Precambrian); contains dikes of quartz monzonite and other lithologies

NOTE: 1966 topography compiled by stereophoto-surveys by Fairchild Aerial Surveys, Hollywood, CA, grammatic methods from 1964 and 1966 aerial

SOURCES: Recent unpublished data from PD Kolesar, J., 1982, The Tyrone copper deposit. In Tiley, Hedlund, 1978, Geologic Map of the Wind Mountain Quadrangle, Grant Co., NM, USGS Misc. Field Studies, MF-1031, 7.5' map. Hedlund, 1978, Geologic Map of the Tyrone Quadrangle, Grant Co., NM, USGS Misc. Field Studies, MF-1037, 7.5' map. Hedlund, 1978, Geologic Map of the Burro Peak Quadrangle, Grant Co., NM, USGS Misc. Field Studies, MF-1040, 7.5' map. Hedlund, 1978, Geologic Map of the White Signal Quadrangle, Grant Co., NM, USGS Misc. Field Studies, MF-1041, 7.5' map. Deposits southwestern North America. University of S. R., ed., Advances in geology of the porphyry copper Arizona Press, Tucson, AZ, geologists (Stegen, Genve, and Selbert, 1998; Calkins, and Selbert, 1999)



PROJECT		<b>PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO</b>	
TITLE		<b>GENERALIZED GEOLOGIC MAP OF THE TYRONE MINE AREA</b>	
	PROJECT No.	073-80012	FILE No. Geologic Map
	DESIGN	TS 07/31/07	SCALE AS SHOWN REV. 0
	CADD	CM 07/31/07	
	CHECK	TS 08/01/07	
REVIEW			<b>FIGURE 2-16</b>



<b>Qa</b>	QUATERNARY ALLUVIUM
<b>Qto/Qtg</b>	QUATERNARY OLDER FAN DEPOSITS AND SHEET FLOOD DEPOSITS/TERTIARY/QUATERNARY SILA CONGLOMERATE; UNDIVIDED
<b>Tqm</b>	TERTIARY QUARTZ MONZONITE OF TYRONE (QUARTZ MONZONITE AND QUARTZ MONZONITE PORPHYRY); UNDIVIDED
<b>TKv</b>	CRETACEOUS/TERTIARY VOLCANIC ROCKS; UNDIVIDED
<b>Ks</b>	CRETACEOUS SEDIMENTARY ROCKS (INCLUDES BEARTOOTH QUARTZITE AND COLORADO FORMATION); UNDIVIDED
<b>pCg</b>	PRECAMBRIAN BURRO MOUNTAIN GRANITE
	FAULT (DASHED WHERE APPROXIMATE, QUERIED WHERE UNCERTAIN) (ARROWS INDICATE DIRECTION OF MOVEMENT)
	LITHOLOGIC CONTACT (DASHED WHERE APPROXIMATE, QUERIED WHERE UNCERTAIN)

NOTE: CROSS SECTIONS SHOWN ON FIGURE 2-16.

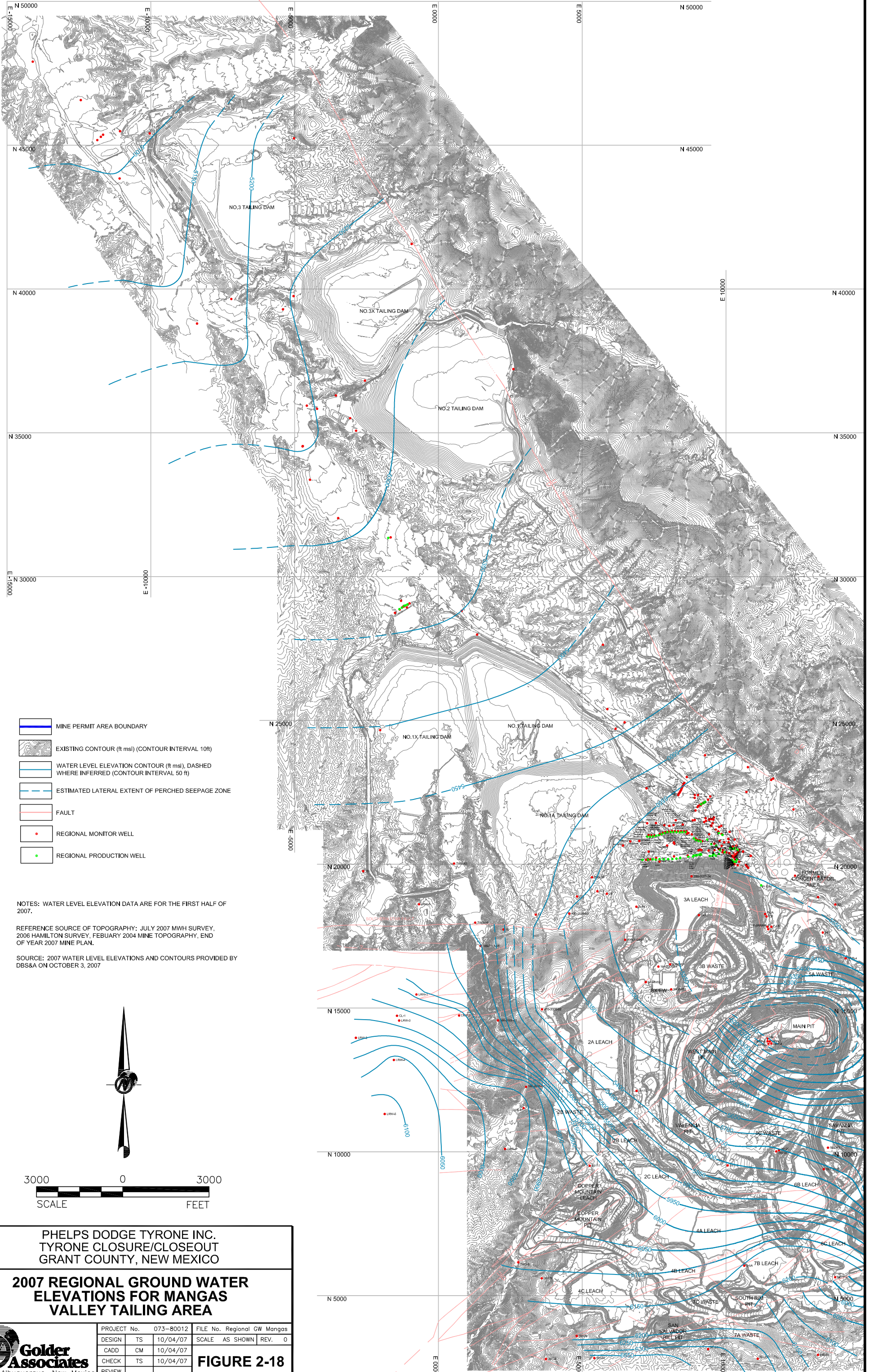
Horizontal scale 1"=4000'  
Vertical scale 1"=2000'  
(2x vertical exaggeration)

PROJECT  
PHELPS DODGE TYRONE INC.  
TYRONE CLOSURE/CLOSEOUT  
GRANT COUNTY, NEW MEXICO

**IDEALIZED REGIONAL GEOLOGIC  
CROSS SECTIONS A-A' AND B-B'**

<p>Golder Associates Albuquerque, New Mexico</p>	PROJECT No.	073-80012	FILE No.	Regional Geologic CS	
	DESIGN	TS	07/31/07	SCALE	AS SHOWN
	CADD	CM	07/31/07	REV.	0
	CHECK	TS	08/01/07		
	REVIEW				

**FIGURE 2-17**

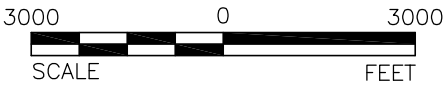


- MINE PERMIT AREA BOUNDARY
- EXISTING CONTOUR (ft msl) (CONTOUR INTERVAL 10ft)
- WATER LEVEL ELEVATION CONTOUR (ft msl), DASHED WHERE INFERRED (CONTOUR INTERVAL 50 ft)
- ESTIMATED LATERAL EXTENT OF PERCHED SEEPAGE ZONE
- FAULT
- REGIONAL MONITOR WELL
- REGIONAL PRODUCTION WELL

NOTES: WATER LEVEL ELEVATION DATA ARE FOR THE FIRST HALF OF 2007.

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MWH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

SOURCE: 2007 WATER LEVEL ELEVATIONS AND CONTOURS PROVIDED BY DBS&A ON OCTOBER 3, 2007



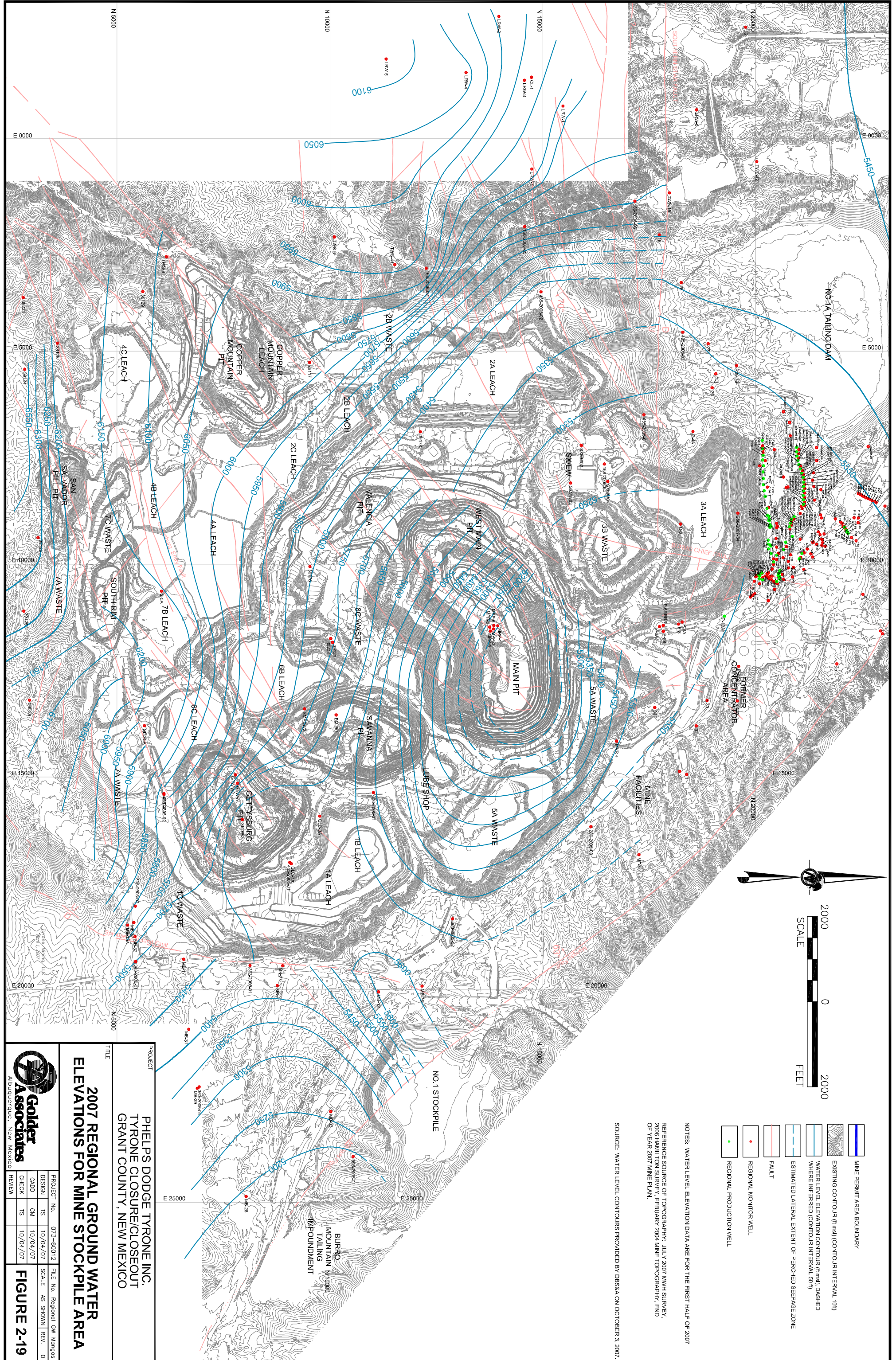
PROJECT  
**PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO**

TITLE  
**2007 REGIONAL GROUND WATER  
 ELEVATIONS FOR MANGAS  
 VALLEY TAILING AREA**



PROJECT No.	073-80012	FILE No.	Regional GW Mangas
DESIGN	TS 10/04/07	SCALE	AS SHOWN REV. 0
CADD	CM 10/04/07		
CHECK	TS 10/04/07		
REVIEW			

**FIGURE 2-18**



- MINE PERMIT AREA BOUNDARY
- EXISTING CONTOUR (ft msl) (CONTOUR INTERVAL 10ft)
- WATER LEVEL ELEVATION CONTOUR (ft msl) DASHED WHERE INFERRED (CONTOUR INTERVAL 50ft)
- ESTIMATED LATERAL EXTENT OF PERCHED SEEPAGE ZONE
- FAULT
- REGIONAL MONITOR WELL
- REGIONAL PRODUCTION WELL

NOTES: WATER LEVEL ELEVATION DATA ARE FOR THE FIRST HALF OF 2007

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MMH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004, MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

SOURCE: WATER LEVEL CONTOURS PROVIDED BY DBSS&A ON OCTOBER 3, 2007.

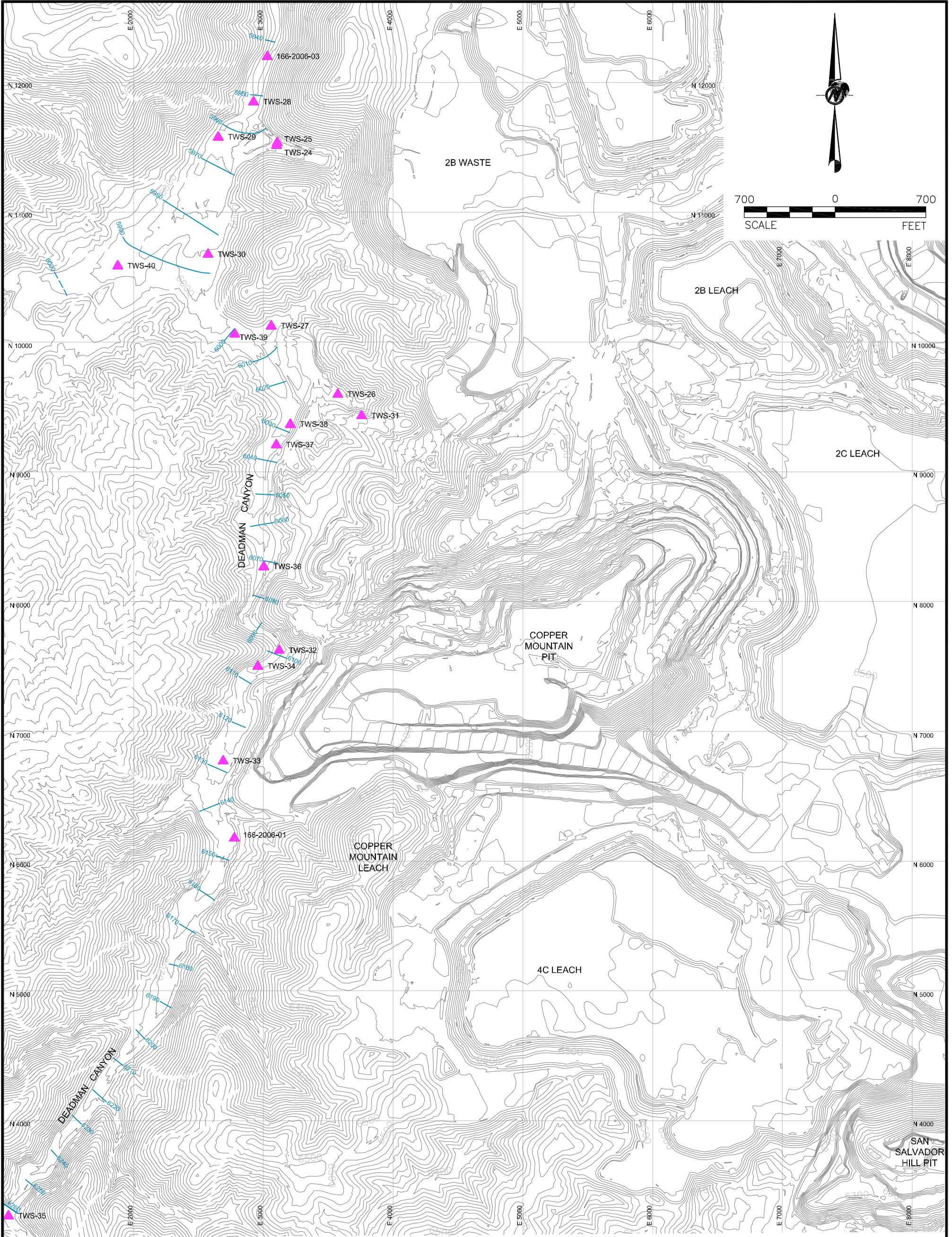
PROJECT  
**PHELPS DODGE TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

**2007 REGIONAL GROUND WATER  
 ELEVATIONS FOR MINE STOCKPILE AREA**

PROJECT No.	073-80012	FILE No.	Regional GW Manganese
DESIGN	TS 10/04/07	SCALE	AS SHOWN REV. 0
CADD	CM 10/04/07		
CHECK	TS 10/04/07		
REVIEW			

**FIGURE 2-19**





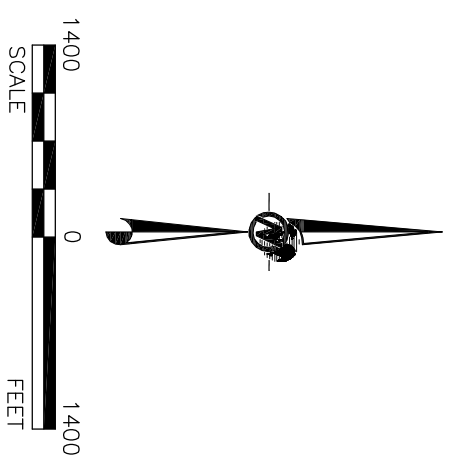
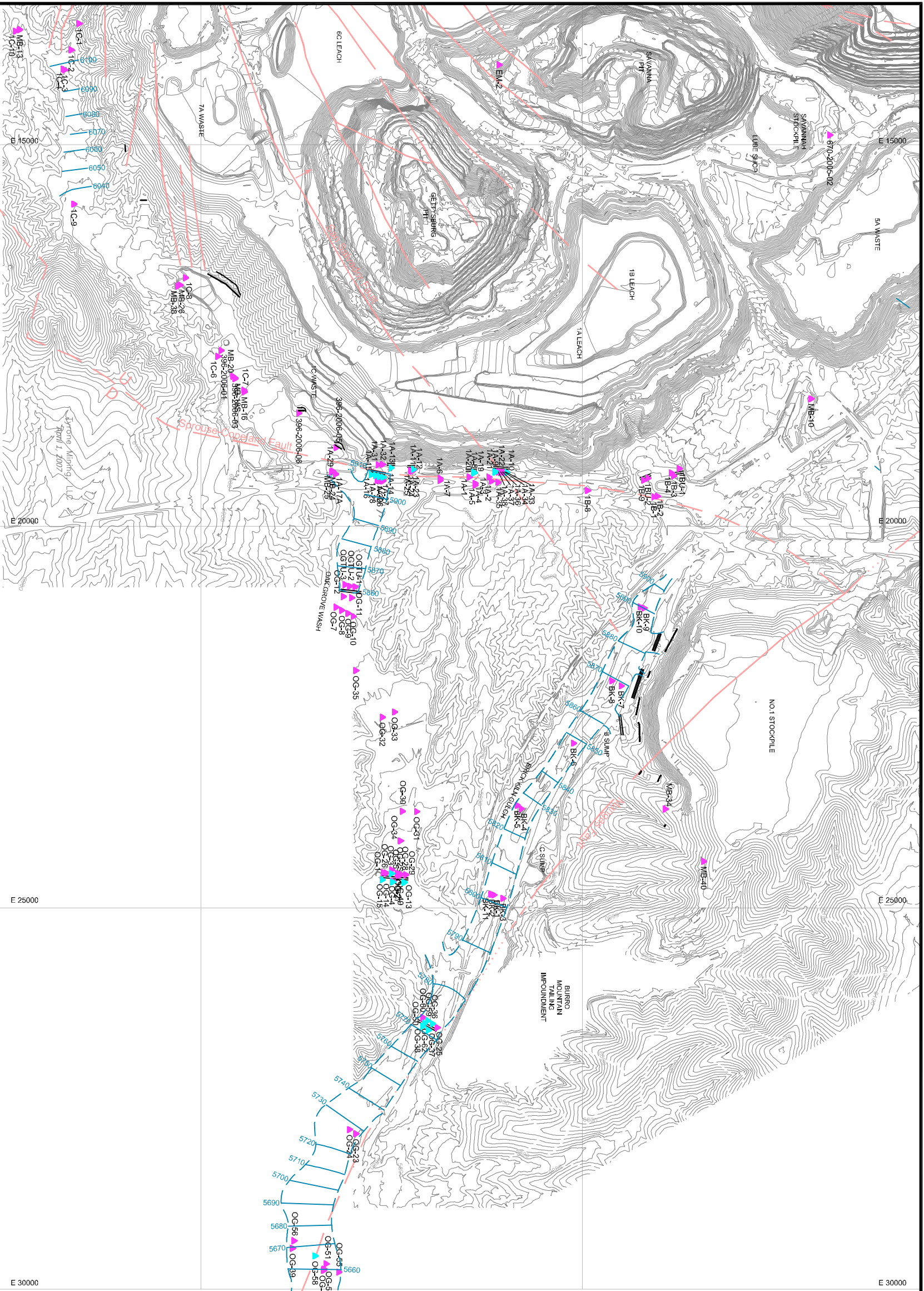
- MINE PERMIT AREA BOUNDARY
- PERCHED ZONE MONITOR WELL WITH WATER LEVEL ELEVATION (ft msl)
- EXISTING CONTOUR (ft msl) (CONTOUR INTERVAL 10ft)
- DRY PERCHED ZONE MONITOR WELL
- WATER LEVEL ELEVATION CONTOUR (ft msl), DASHED WHERE INFERRED (CONTOUR INTERVAL 5 ft)
- ESTIMATED LATERAL EXTENT OF PERCHED SEEPAGE ZONE

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MWH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

NOTES: WATER LEVEL ELEVATION DATA ARE FROM MARCH AND JUNE 2007.

REFERENCE: PHELPS DODGE TYRONE, INC. (PDTI), 2007. LETTER REPORT FROM THOMAS L. SHELLEY TO KEITH EHLERT, NEW MEXICO ENVIRONMENT DEPARTMENT GROUNDWATER QUALITY BUREAU, REGARDING QUARTERLY MONITORING REPORT, DISCHARGE PLAN DP-166 - NO. 2 LEACH SYSTEM. JULY 31, 2007.

<b>PROJECT</b>	PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO		
<b>TITLE</b>	<b>2007 PERCHED WATER ELVATIONS IN DEADMAN CANYON</b>		
 <b>Golder Associates</b> Albuquerque, New Mexico	PROJECT No.	073-80012	FILE P/Perched Wtr Elv Deadman
	DESIGN	TS 10/03/07	SCALE AS SHOWN REV. 0
	CADD	CM 10/03/07	
	CHECK	TS 10/03/07	
REVIEW			<b>FIGURE 2-20</b>



- MINE PERMIT AREA BOUNDARY
- EXISTING CONTOUR (ft msl) (CONTOUR INTERVAL 10ft)
- WATER LEVEL ELEVATION CONTOUR (ft msl), DASHED WHERE INFERRED (CONTOUR INTERVAL 5 ft)
- ESTIMATED LATERAL EXTENT OF PERCHED SEEPAGE ZONE
- FAULT
- PERCHED ZONE MONITOR WELL WITH WATERLEVEL ELEVATION (ft msl)
- DRY PERCHED ZONE MONITOR WELL
- SEEPAGE COLLECTION

REFERENCE SOURCE OF TOPOGRAPHY - JULY 2007 MWH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

NOTES: WATER LEVEL ELEVATION DATA ARE FROM JANUARY THROUGH JUNE 2007. SOME SMALL ZONES OF PERCHED SEEPAGE ADJACENT TO STOCKPILES NOT INCLUDED IN CONTOURING.

PROJECT  
**PHELPS DODGE TYRONE INC.  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO**

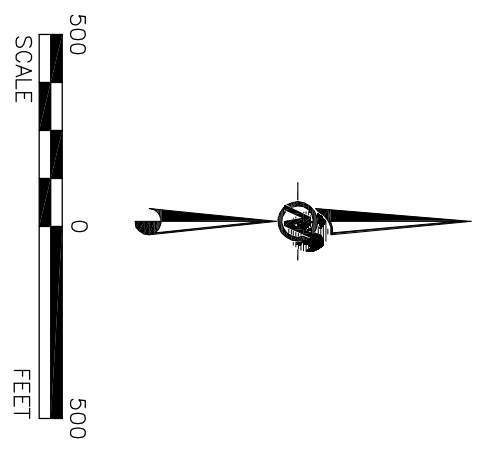
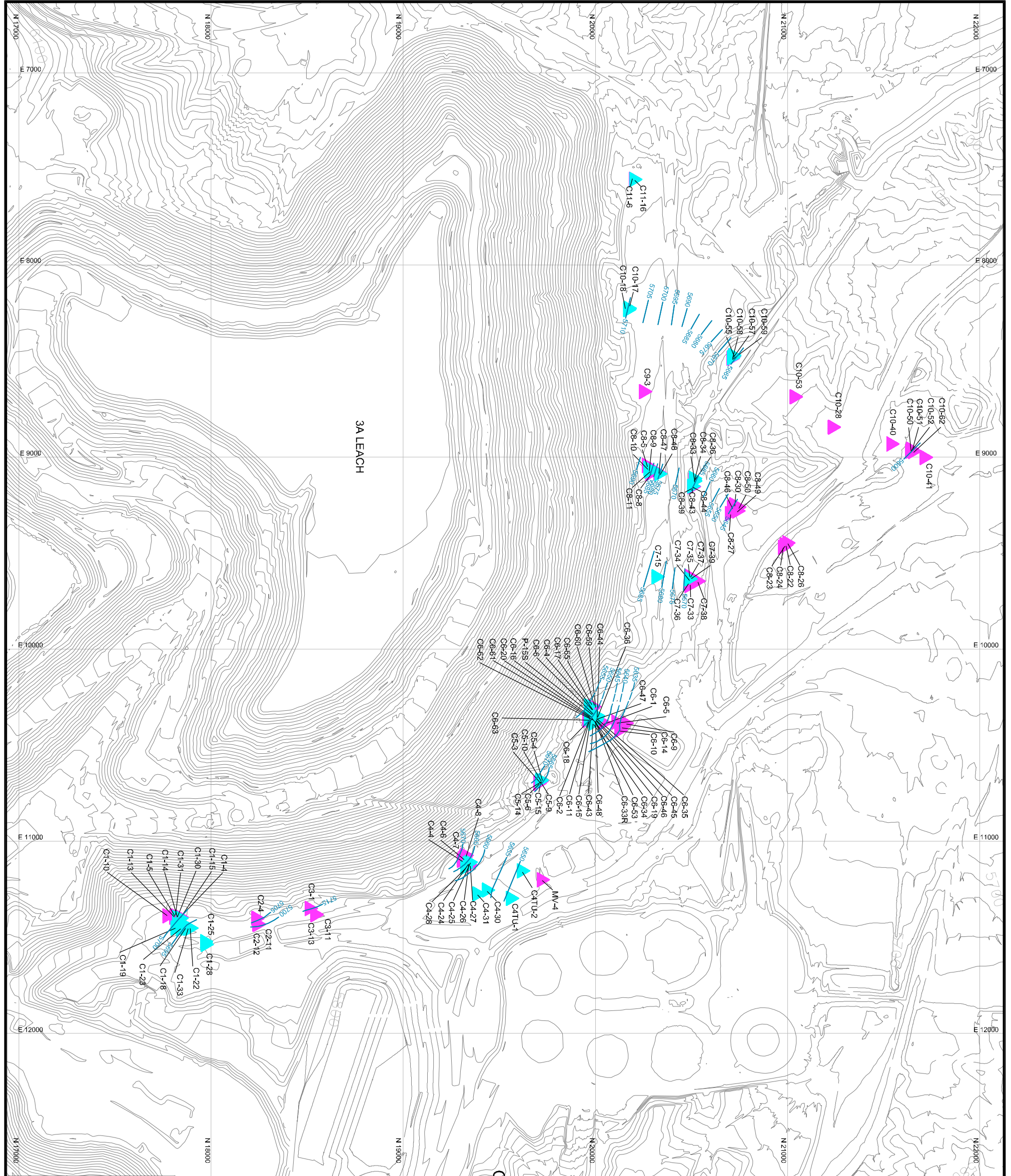
TITLE  
**2007 PERCHED WATER ELEVATIONS  
 FOR EAST SIDE AREA**

**Golder Associates**  
 Albuquerque, New Mexico

PROJECT No.	DESIGN	CADD	CHECK	REVIEW	FILE No/Perched Wtr Elev East	SCALE AS SHOWN	REV.
073-80012	TS 10/03/07	CM 10/03/07	TS 10/03/07				0

**FIGURE 2-21**

REFERENCE: P011, 2007 LETTER REPORT FROM THOMAS L. SHELLEY TO CLINT MARSHALL, NEW MEXICO ENVIRONMENT DEPARTMENT  
 GROUNDWATER QUALITY BUREAU, REGARDING AUGUST 2007 CONTINGENCY PLAN STATUS REPORT, DP-286, AUGUST 14, 2007.



- MINE PERMIT AREA BOUNDARY
- EXISTING CONTOUR (fmsl) (CONTOUR INTERVAL 10ft)
- WATER LEVEL ELEVATION CONTOUR (fmsl), DASHED WHERE INFERRED (CONTOUR INTERVAL 5 ft)
- ESTIMATED LATERAL EXTENT OF PERCHED SEEPAGE ZONE
- PERCHED ZONE MONITOR WELL WITH WATERLEVEL ELEVATION (fmsl)
- DRY PERCHED ZONE MONITOR WELL

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MHW SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.

NOTES: WATER LEVEL ELEVATION DATA ARE FROM MAY 24, 2007 THROUGH JULY 15, 2007.

PROJECT  
**PHELPS DODGE TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

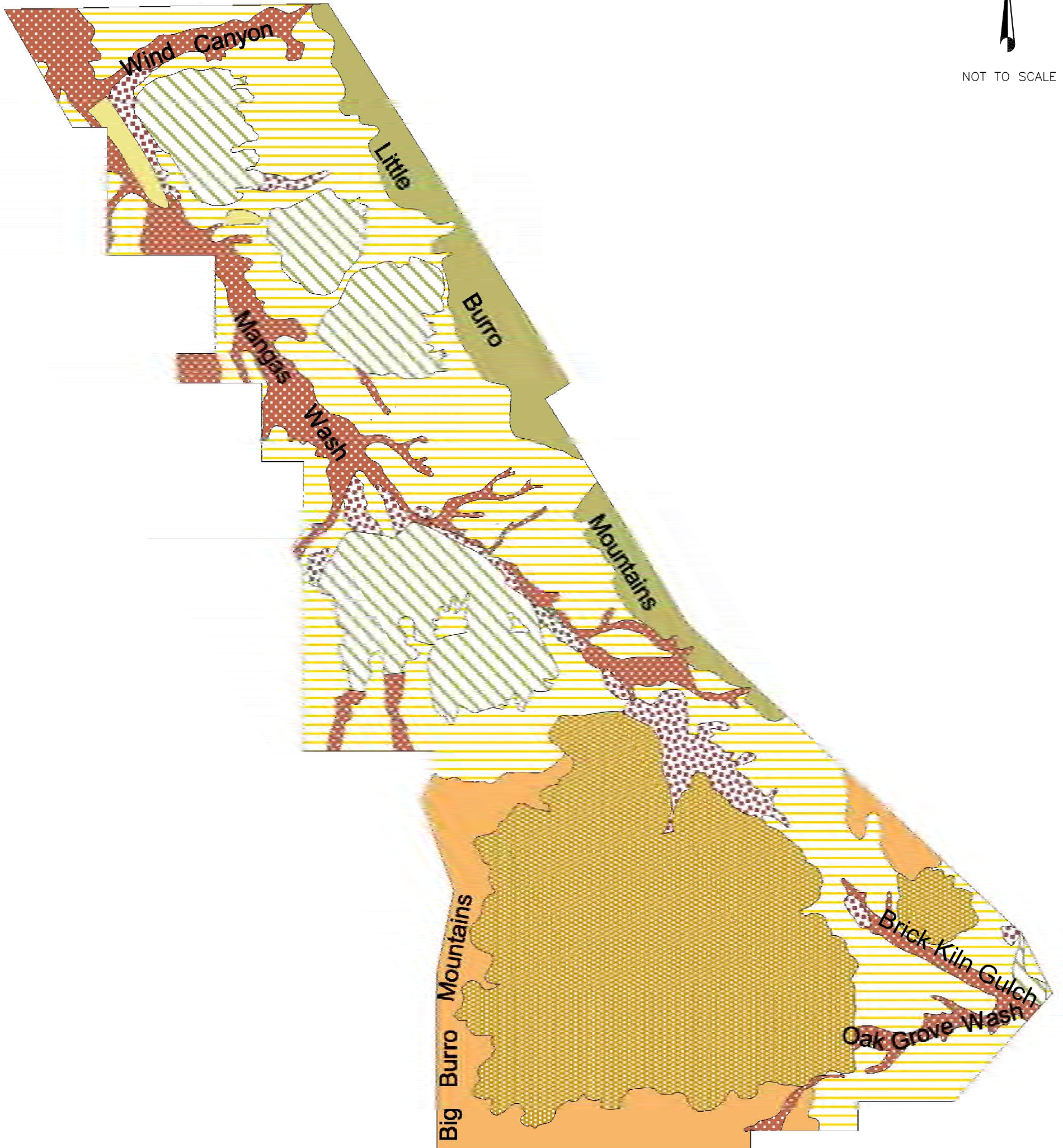
**2007 WATER LEVEL ELEVATIONS FOR  
 PERCHED ZONE, DP-286 AREA**









**Golder Associates**  
 Albuquerque, New Mexico

PROJECT No.	073-80012	FILE	Perched Zone DP-286
DESIGN	TS 10/03/07	SCALE	AS SHOWN
QA/QC	CM 10/03/07	REV.	0
CHECK	TS 10/03/07	<b>FIGURE 2-22</b>	
REVIEW			



NOT TO SCALE



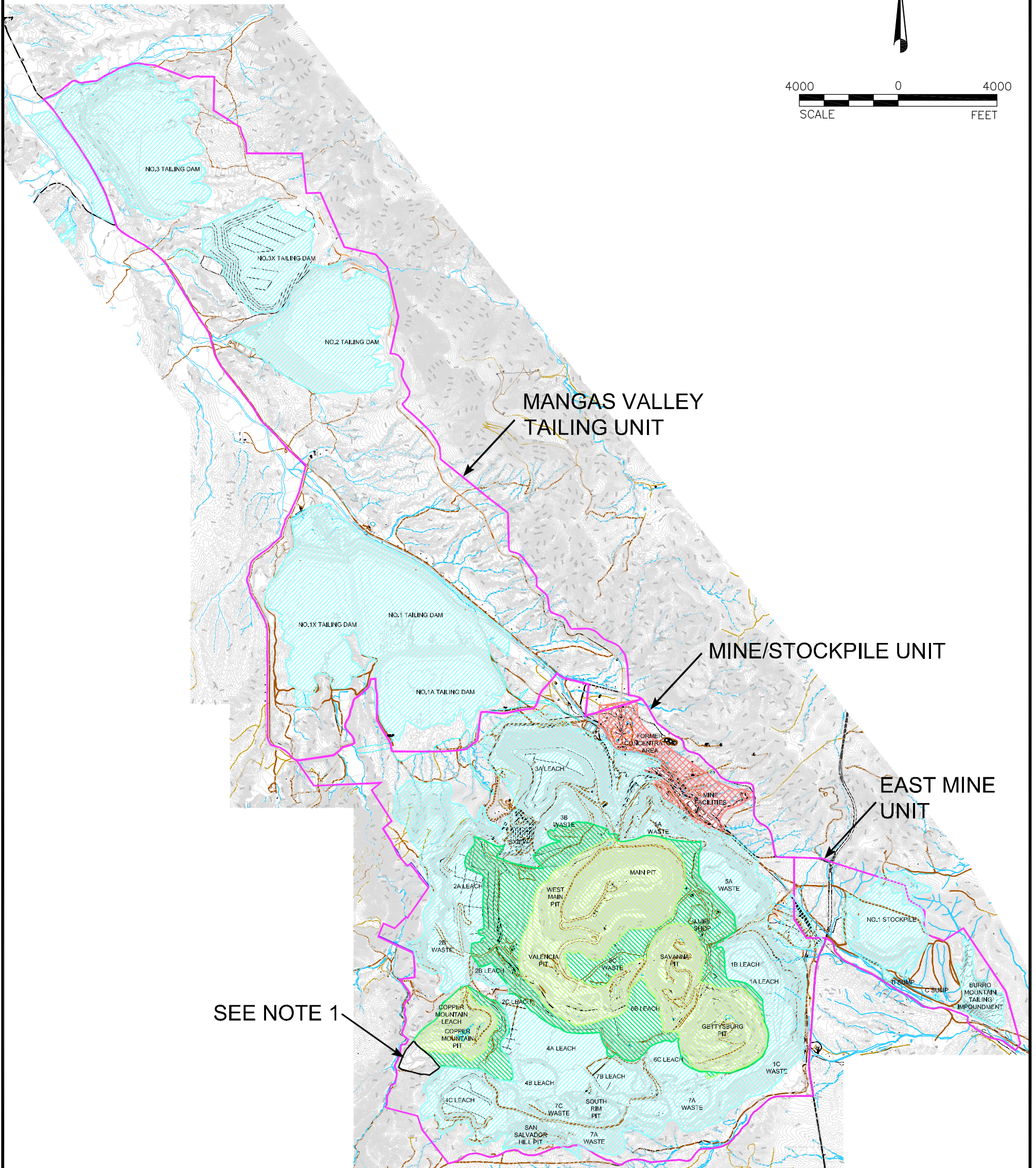
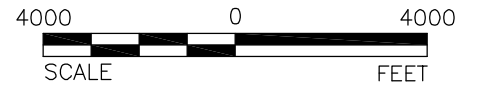
-  ALLUVIAL GRASSLAND
-  PIEDMONT SCRUB SAVANNA
-  MOUNTAIN SLOPE SCRUB SAVANNA
-  MOUNTAIN SLOPE MIXED EVERGREEN WOODLAND
-  FACILITIES AND DISTURBED AREAS
-  MINE PITS AND STOCKPILES
-  RECLAIMED TAILING REPOSITORIES
-  RECLAIMED TAILING PONDS

PROJECT		PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO			
TITLE		SOIL-VEGETATION ASSOCIATIONS AND MISCELLANEOUS LAND AREAS			
PROJECT No.		073-80012		FILE No. Soil-Vegetation	
DESIGN	TS	07/31/07	SCALE	AS SHOWN	REV. 0
CADD	CM	07/31/07			
CHECK	TS	08/01/07			
REVIEW					



**FIGURE 2-23**





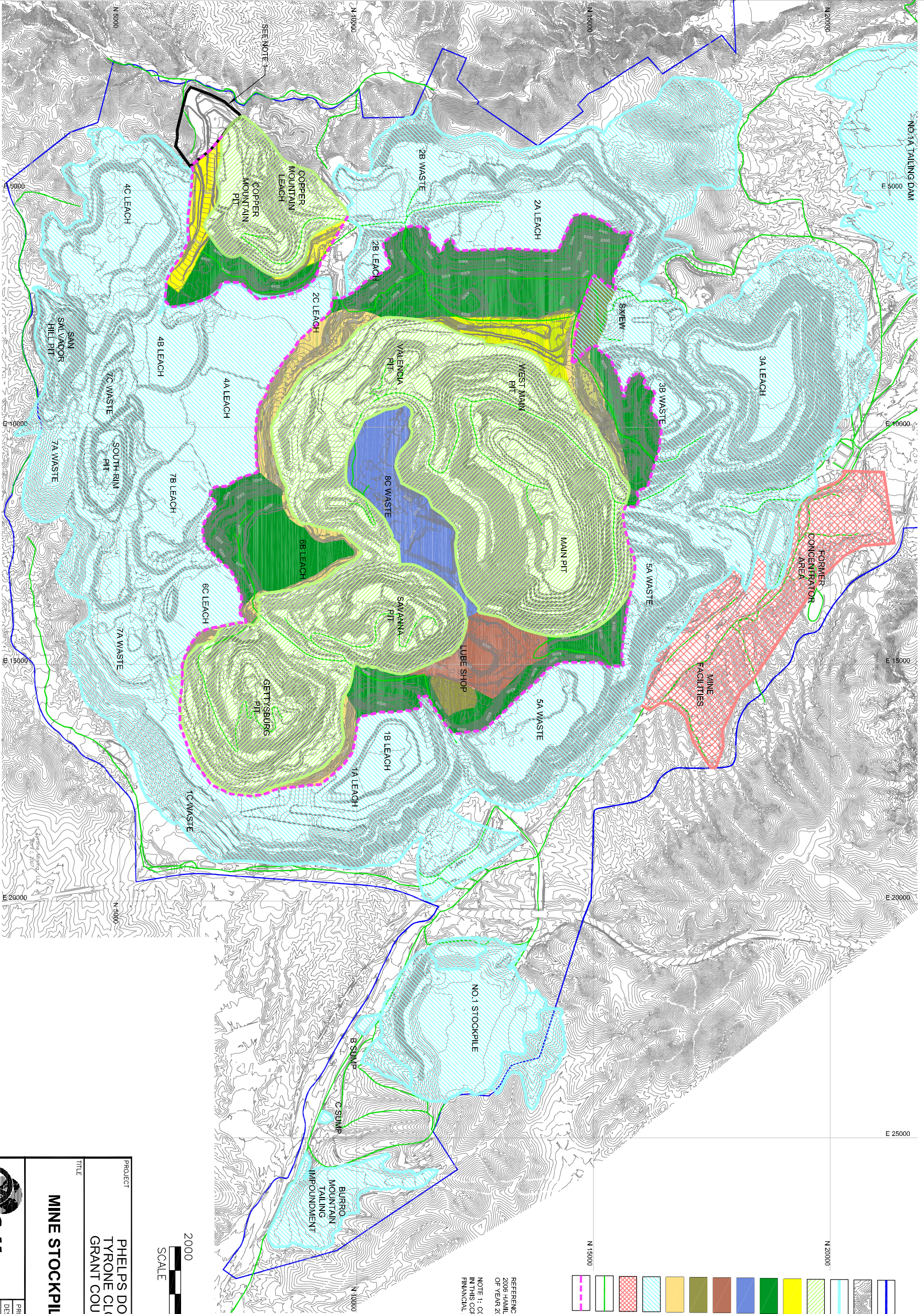
SEE NOTE 1

- WILDLIFE PMLU
- INDUSTRIAL PMLU
- CURRENT WAIVER AREAS
- ADDITIONAL PROPOSED WAIVER AREAS (SEE FIGURE 4-2)
- MINE UNIT BOUNDARY

NOTE 1: COPPER MOUNTAIN SOUTH PIT EXPANSION NOT INCLUDED IN THIS CCP. THIS AREA HAS ITS OWN CCP AND ASSOCIATED FINANCIAL ASSURANCE (PDTI, 2003)

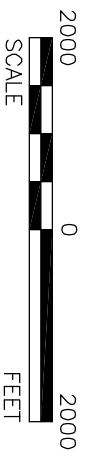
NOTE: PMLU-POST MINING LAND USE

PROJECT <b>PHELPS DODGE TYRONE INC. TYRONE CLOSURE/CLOSEOUT GRANT COUNTY, NEW MEXICO</b>			
TITLE <b>PROPOSED POST-MINING LAND USE AND WAIVER AREAS</b>			
<b>PROJECT No.</b>	073-80012	<b>FILE No</b>	Post Land Use-Waiver
<b>DESIGN</b>	TS	07/31/07	<b>SCALE</b> AS SHOWN <b>REV.</b> 0
<b>CADD</b>	CM	07/31/07	
<b>CHECK</b>	TS	08/01/07	
<b>REVIEW</b>			
<b>Golder Associates</b> Albuquerque, New Mexico			<b>FIGURE 4-1</b>



- MINE PERMIT AREA BOUNDARY
- EXISTING CONTOUR (1-m) (CONTOUR INTERVAL 10)
- APPROXIMATE EXTENT OF RESGRADE
- CURRENT CONDITIONAL WAVER AREA
- CURRENT PIT LIMITS FROM PDMH
- INTERIOR AREAS THAT CANT REASONABLY DRAIN TO EXTERIOR (GWZ)
- PROPOSED SLUDGE DISPOSAL AREA
- BORROW AREA
- UNDISTURBED NATIVE ROCK
- INTERIOR STOCKPILE SLOPES- EXTENSION OF OPEN PIT
- WILDLIFE PMLU
- INDUSTRIAL PMLU
- PMLU ACCESS ROADS
- BOUNDARY OF ADDITIONAL PROPOSED WAVER AREAS

REFERENCE SOURCE OF TOPOGRAPHY: JULY 2007 MMH SURVEY, 2006 HAMILTON SURVEY, FEBRUARY 2004 MINE TOPOGRAPHY, END OF YEAR 2007 MINE PLAN.  
 NOTE 1: COPPER MOUNTAIN SOUTH PIT EXPANSION NOT INCLUDED IN THIS COP. THIS AREA HAS ITS OWN COP AND ASSOCIATED FINANCIAL ASSURANCE (PDTI 2003)



PROJECT  
**PHELPS DODGE TYRONE INC.**  
 TYRONE CLOSURE/CLOSEOUT  
 GRANT COUNTY, NEW MEXICO

**MINE STOCKPILE UNIT PMLU AREAS**

PROJECT No.	073-80012	FILE No. Mine Stockpile Unit PMLU
DESIGN	TS 10/03/07	SCALE AS SHOWN REV. 0
QA/QC	CM 10/03/07	
CHECK	TS 10/03/07	
REVIEW		



**FIGURE 4-2**