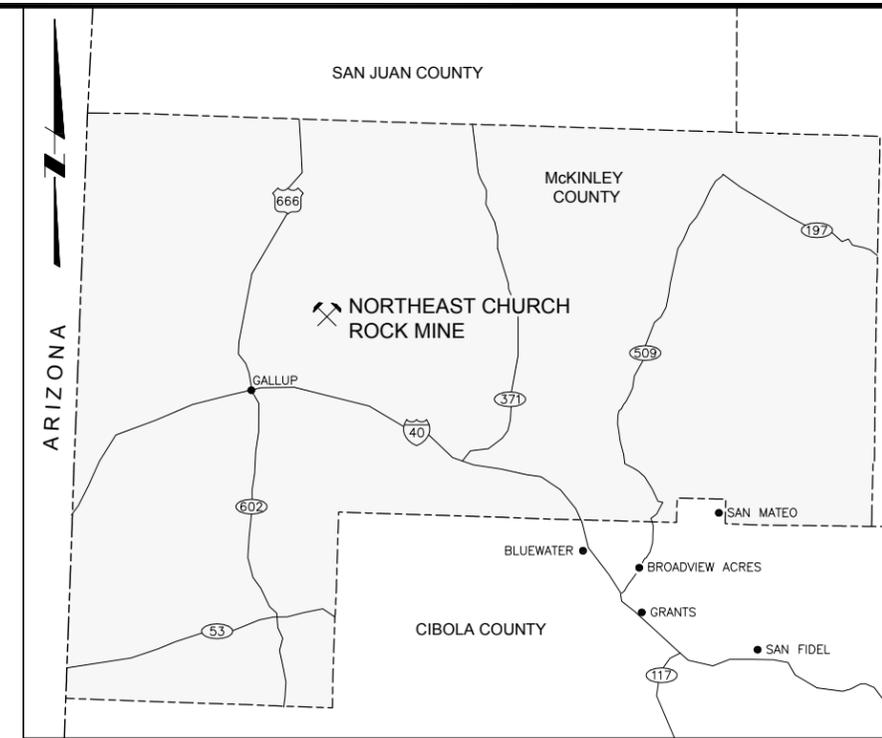


LOCATION MAP
NOT TO SCALE

DRAWING INDEX	
No.	TITLE
1	COVER AND INDEX SHEET
2	EXISTING CONDITIONS
3	RESULTS OF SUPPLEMENTAL REMOVAL SITE EVALUATIONS
4.1	EXCAVATION PLAN
4.2	EXCAVATION PLAN
5.1	EROSION CONTROL LOCATIONS
5.2	EROSION CONTROL PLAN
6	EROSION CONTROL DETAILS
7	SOIL CONSOLIDATION AREA GRADING PLAN AND PROFILE
8	DRAINAGE EXCAVATION PLAN DETAIL
9	REVEGETATION PLAN



VICINITY MAP
NOT TO SCALE

NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN

Prepared for

UNITED NUCLEAR CORPORATION

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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
1		FINAL	CF	SM	08/20/12

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DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

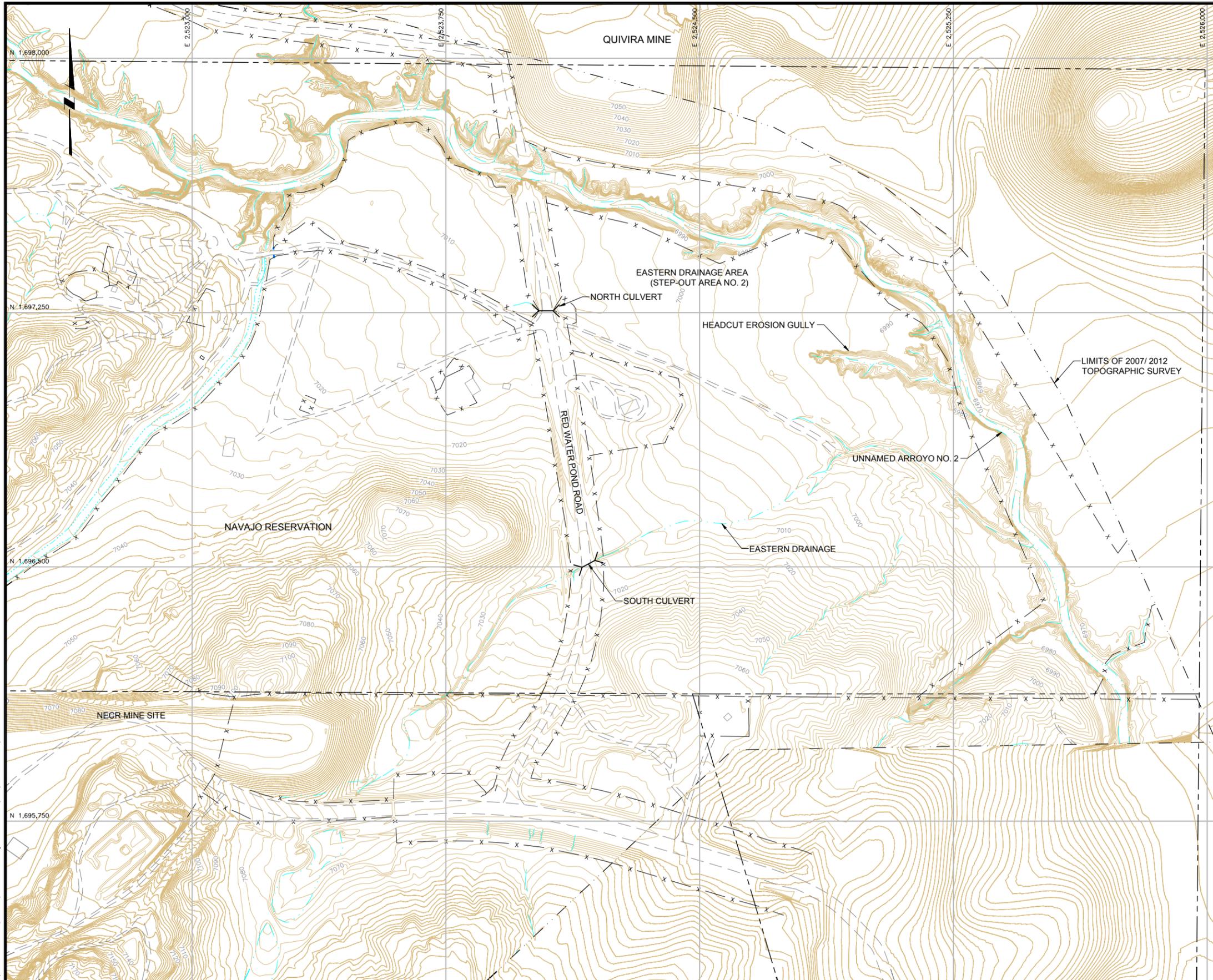


P.O. BOX 3077
Gallup, New Mexico 87305-3077

PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	COVER AND INDEX SHEET	

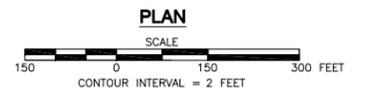


DRAWING	1	REVISION	1
FILE NAME	1012217D001		



LEGEND:

- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ROAD
- NATURAL DRAINAGE
- LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
- EXISTING FENCE
- APPROXIMATE NAVAJO RESERVATION BOUNDARY
- BUILDING



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
1		FINAL	CF	SM	08/20/12

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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

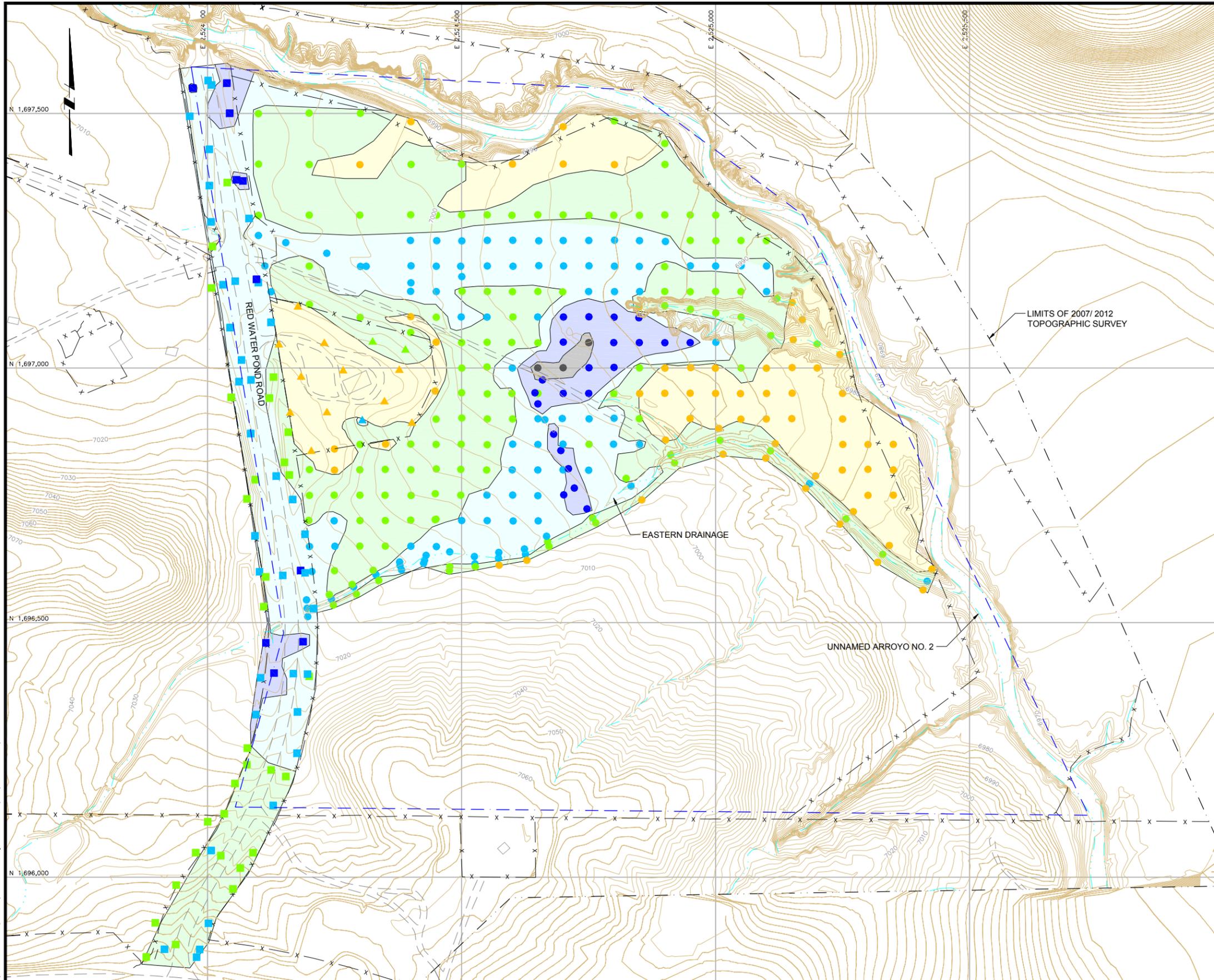
DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



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PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EXISTING CONDITIONS	

	DRAWING	2	REVISION	1
	FILE NAME	1012217D002		



LEGEND:

- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ROAD
- NATURAL DRAINAGE
- LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
- EXISTING FENCE
- APPROXIMATE LIMITS OF CULTURAL RESOURCES SURVEYS
- BUILDING

2011 STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION

- <2.24
- 2.24 ~ 6.0
- 6.1 ~ 22.4
- 22.4 ~ 50
- >50

2007/2009 STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION

- 2.24 ~ 6.0
- 6.1 ~ 22.4
- 22.4 ~ 50

2012 EPA SURVEY SHOWING Ra-226 (pCi/g) CONCENTRATIONS

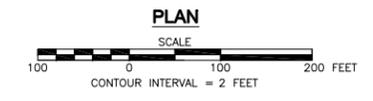
- <2.24
- 2.24 ~ 6.0
- 6.1 ~ 22.4

CONCENTRATION AREAS

- <2.24
- 2.24 ~ 6.0
- 6.1 ~ 22.4
- 22.4 ~ 50
- >50

NOTES:

1. THREE-SAMPLE TRANSECTS ALONG EASTERN DRAINAGE MEASURED WITH A 1 MIN COUNT TIME; ALL OTHERS MEASURED WITH A 0.1 MIN COUNT TIME.
2. 2007 - 2009 GAMMA MEASUREMENTS TAKEN DURING SUPPLEMENTAL RSES ALONG RED WATER POND ROAD.
3. EPA SURVEY SAMPLING LOCATIONS WERE DIGITIZED FROM FIGURE X EASTERN DRAINAGE AREA OVERVIEW, PROVIDED BY ECOLOGY AND ENVIRONMENT, INC.



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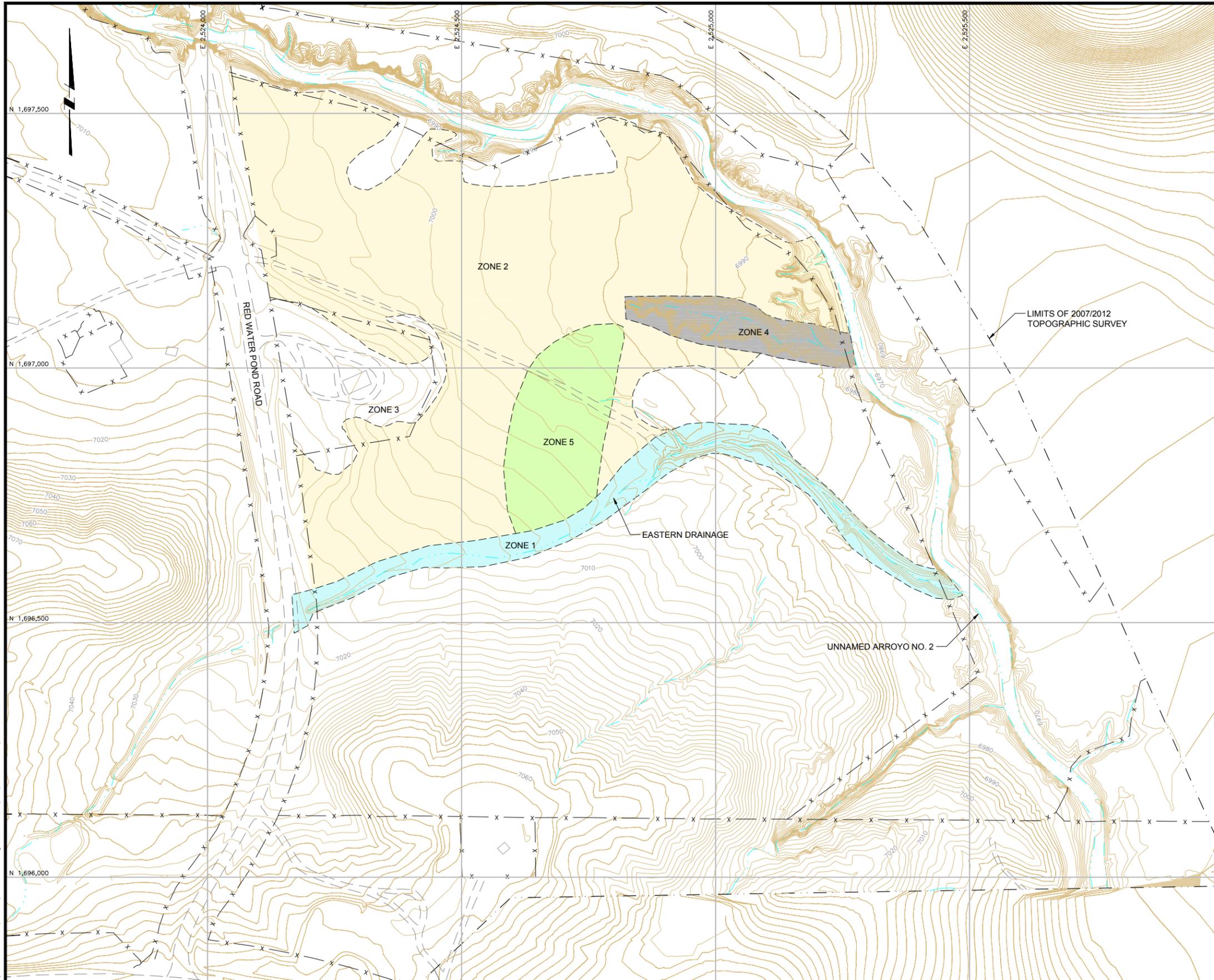
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STATE PLANE COORDINATE SYSTEM
ZONE:
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	RESULTS OF SUPPLEMENTAL REMOVAL SITE EVALUATIONS	

DRAWING	3	REVISION	1
	FILE NAME	1012217D006	



LEGEND:

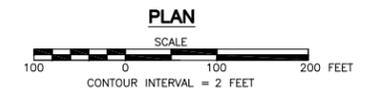
- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ROAD
- NATURAL DRAINAGE
- LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
- EXISTING FENCE
- BUILDING

IRA EXCAVATION AREAS:

- SCRAPE 0.5' ~ 1'
- SCRAPE 0.5' ~ 1'. REMOVE TRASH/DEBRIS
- SCRAPE 1' ~ 2'
- EXCAVATE > 2'
- ZONE1** CONSTRUCTION ZONE

NOTES:

1. ACTUAL EXCAVATION BOUNDARIES MAY BE ADJUSTED IN THE FIELD BASED ON EXCAVATION CONTROL SURVEYS.
2. THE FENCE AROUND THE HOME SITE WILL BE REMOVED AND REPLACED FOR AREAS REQUIRING EXCAVATION.



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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE 10
NEW MEXICO WEST HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

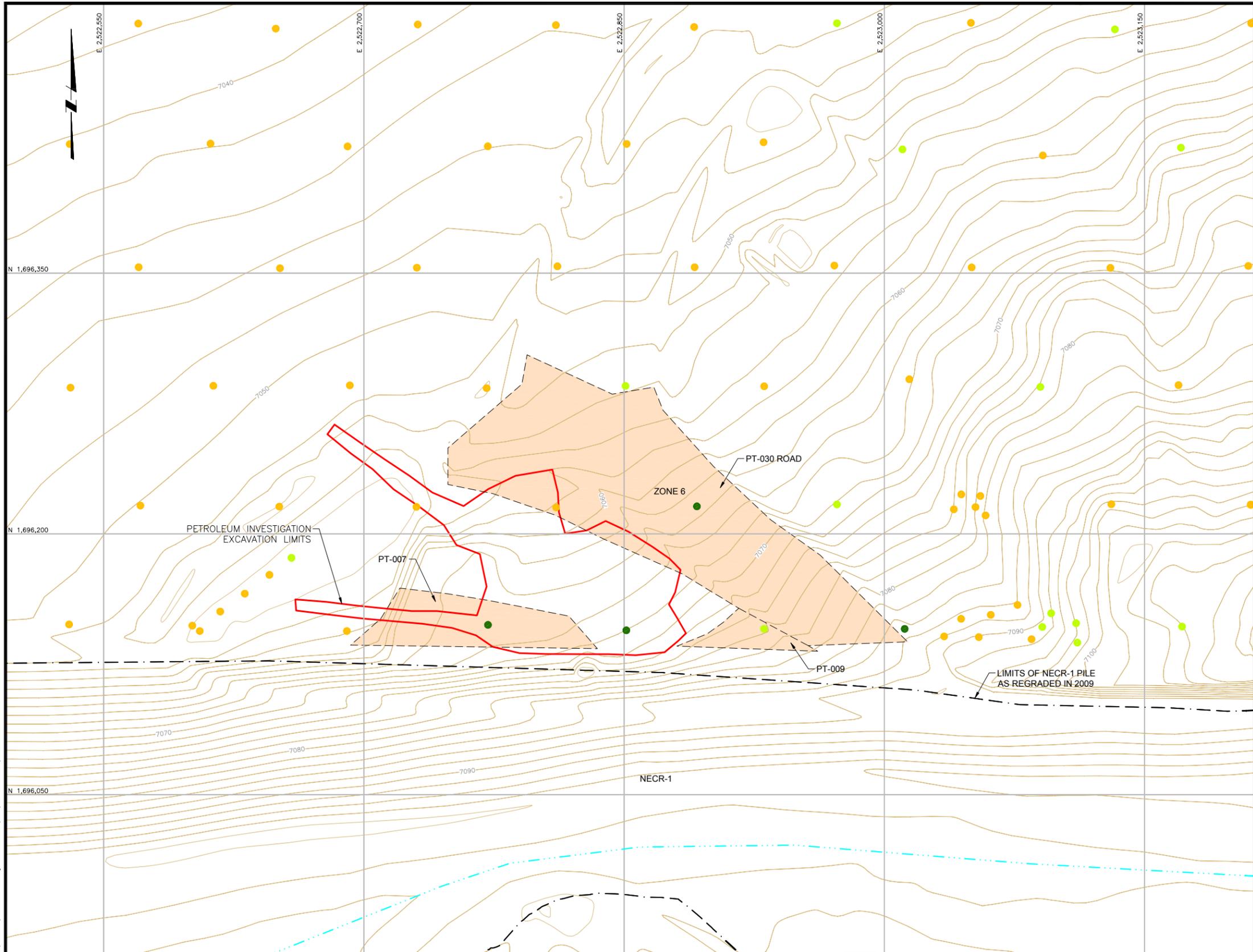
DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



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Gallup, New Mexico 87305-3077

PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EXCAVATION PLAN	

	DRAWING	4.1	REVISION	1
	FILE NAME	1012217D003		

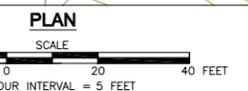


- LEGEND:**
- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
 - ROAD
 - NATURAL DRAINAGE
 - LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
 - EXISTING FENCE
 - PETROLEUM INVESTIGATION EXCAVATION LIMITS
 - LIMITS OF NECR-1 PILE AS REGRADED IN 2009
 - DRAINAGE CHANNEL
 - BUILDING
 - PT-009 AREA NAME

- IRA EXCAVATION AREAS:**
- AREAS WITH POTENTIAL TPH AND Ra-226 COMMINGLED SHALLOW SOILS

- STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION
- <2.24
 - 2.24 ~ 3.0
 - > 3.0
- (1.5) Ra-226 (pCi/g) BASED ON GAMMA MEASUREMENTS (CPM)

NOTE:
EQUIVALENT RADIUM CONCENTRATIONS CALCULATED USING REVISED IRA CORRELATION REGRESSION EQUATION: $Ra-226 = (0.013 \times \text{GAMMA}) - 4.4967$.



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
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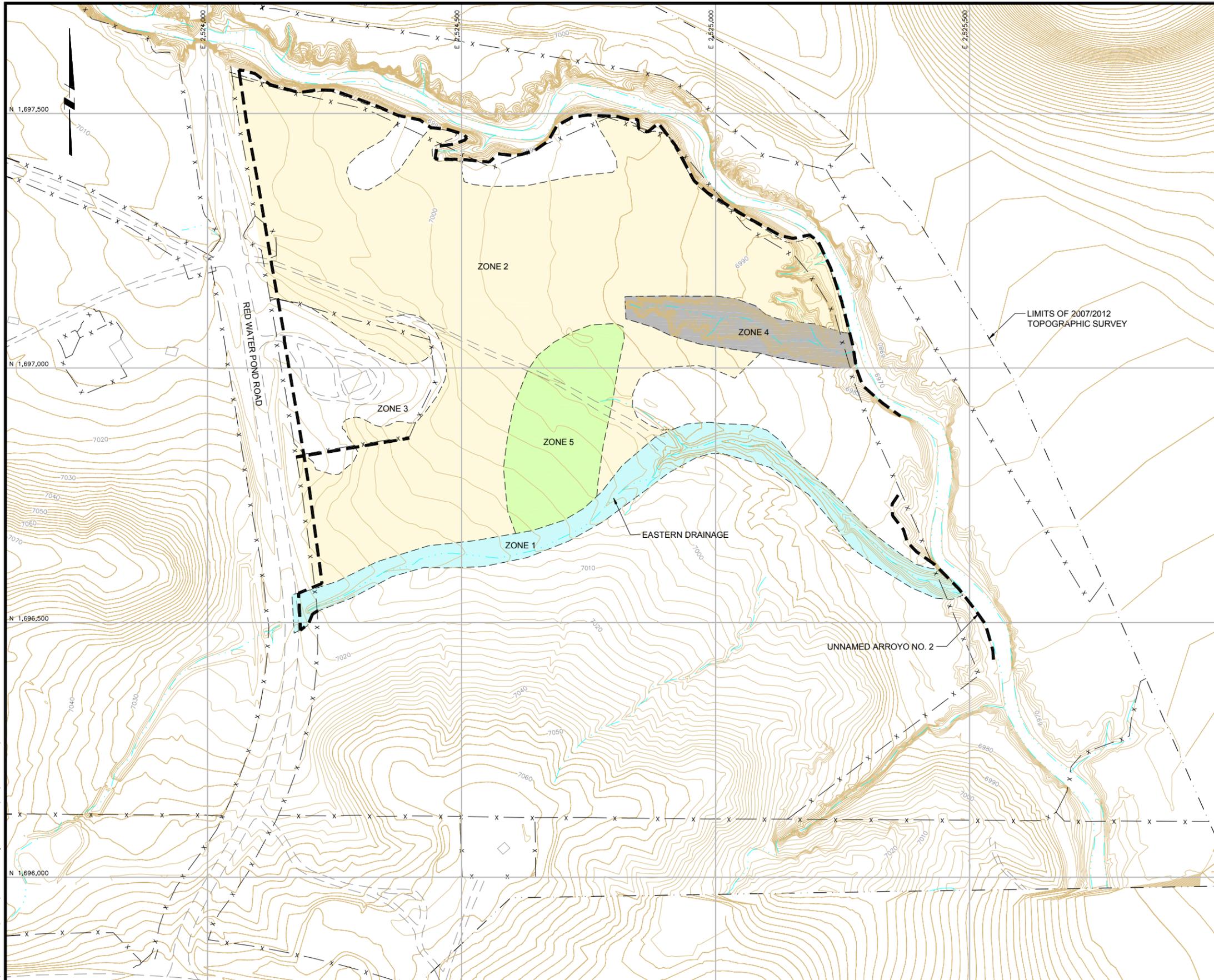
PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	S MOORE	08/20/12
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PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

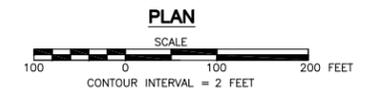


PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EXCAVATION PLAN	

DRAWING	4.2	REVISION	1
	FILE NAME	1012217D009	



- LEGEND:**
- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
 - ROAD
 - NATURAL DRAINAGE
 - LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
 - EXISTING FENCE
 - BUILDING
 - SCRAPE 0.5' ~ 1'
 - SCRAPE 0.5' ~ 1'. REMOVE TRASH/DEBRIS
 - SCRAPE 1' ~ 2'
 - EXCAVATE > 2'
 - POTENTIAL EROSION CONTROL LOCATIONS



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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE 10
NEW MEXICO WEST HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	S MOORE	08/20/12
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CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EROSION CONTROL LOCATIONS	

	DRAWING	5.1	REVISION	1
	FILE NAME	1012217D004		



LEGEND:

- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ROAD
- NATURAL DRAINAGE
- LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
- EXISTING FENCE
- PETROLEUM INVESTIGATION EXCAVATION LIMITS
- LIMITS OF NECR-1 PILE AS REGRADED IN 2009
- POTENTIAL EROSION CONTROL LOCATIONS¹
- DRAINAGE CHANNEL
- BUILDING
- AREAS WITH POTENTIAL TPH AND Ra-226 COMMINGLED SHALLOW SOILS
- PT-009 AREA NAME

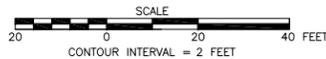
STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION²

- <2.24
 - 2.24 ~ 3.0
 - > 3.0
- (1.5) Ra-226 (pCi/g) BASED ON GAMMA MEASUREMENTS (CPM)

NOTES:

1. ADDITIONAL EROSION CONTROL MAY NOT BE REQUIRED DEPENDING ON THE LOCATION AND CONDITION OF THE SOIL BERM INSTALLED AROUND THIS AREA IN 2009.
2. EQUIVALENT RADIUM CONCENTRATIONS CALCULATED USING 2009 IRA CORRELATION REGRESSION EQUATION: Ra-226=(0.013XGAMMA)-4.4967.

PLAN



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ISSUE	DESCRIPTION	TECH	ENG	DATE
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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		

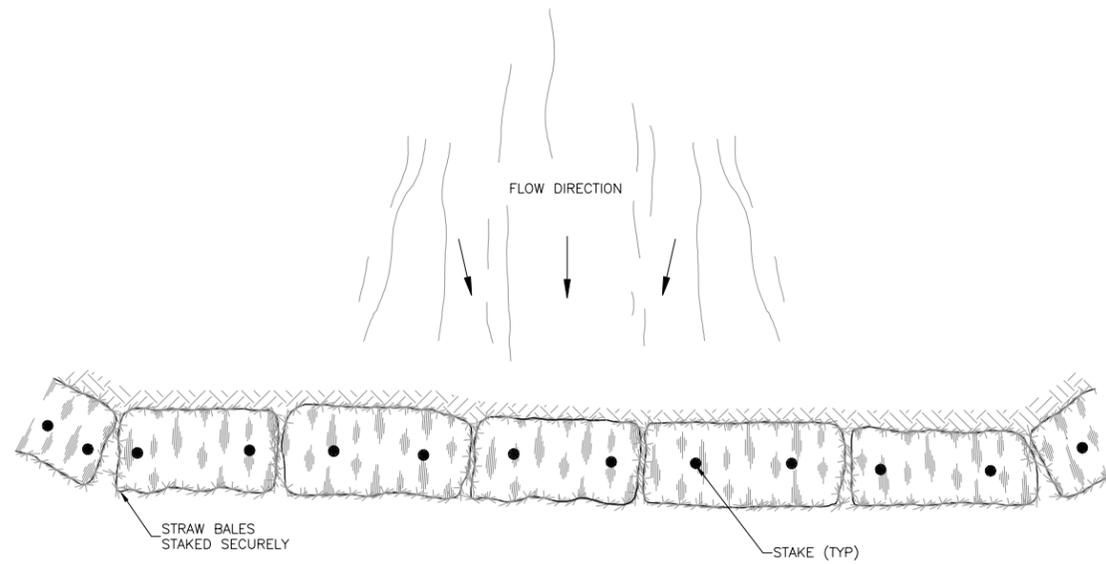


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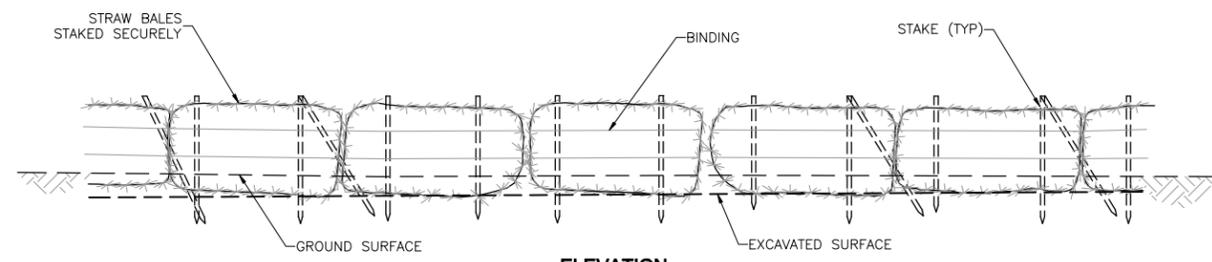
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PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EROSION CONTROL PLAN	



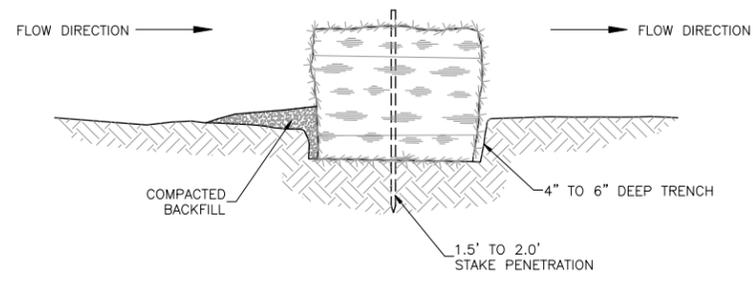
DRAWING	5.2	REVISION	1
FILE NAME	1012217D010		



PLAN

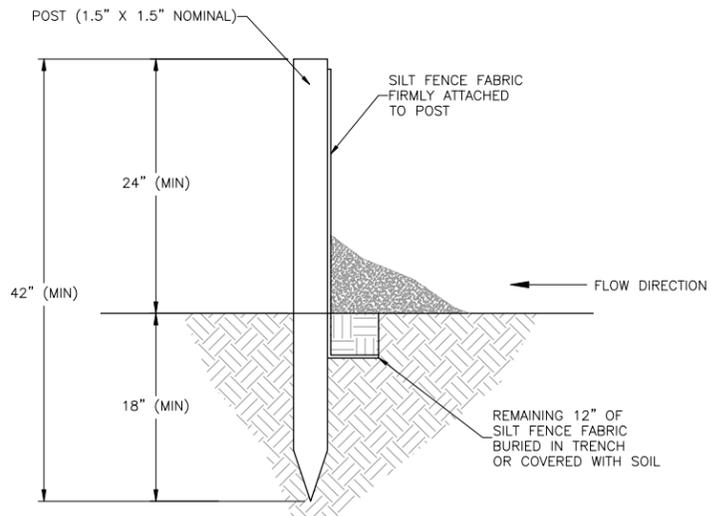
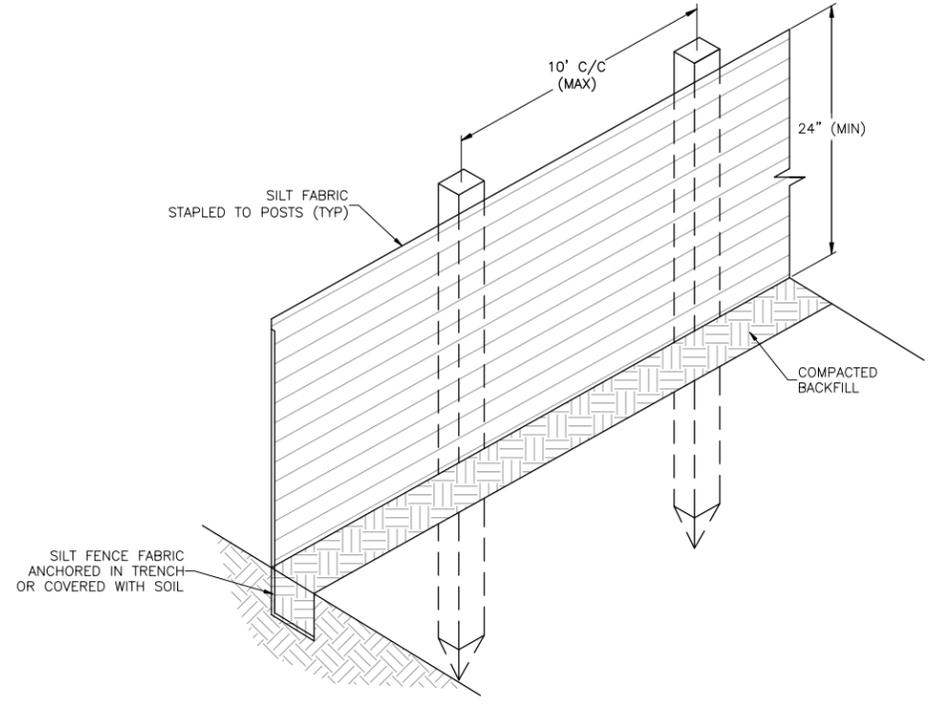


ELEVATION



EMBEDDING DETAIL

1 STRAW BALES
5.1 NOT TO SCALE



2 SILT FENCE
5.1 NOT TO SCALE

LEGEND:

- 1 DETAIL NUMBER
- 2 LOCATION OF DETAIL

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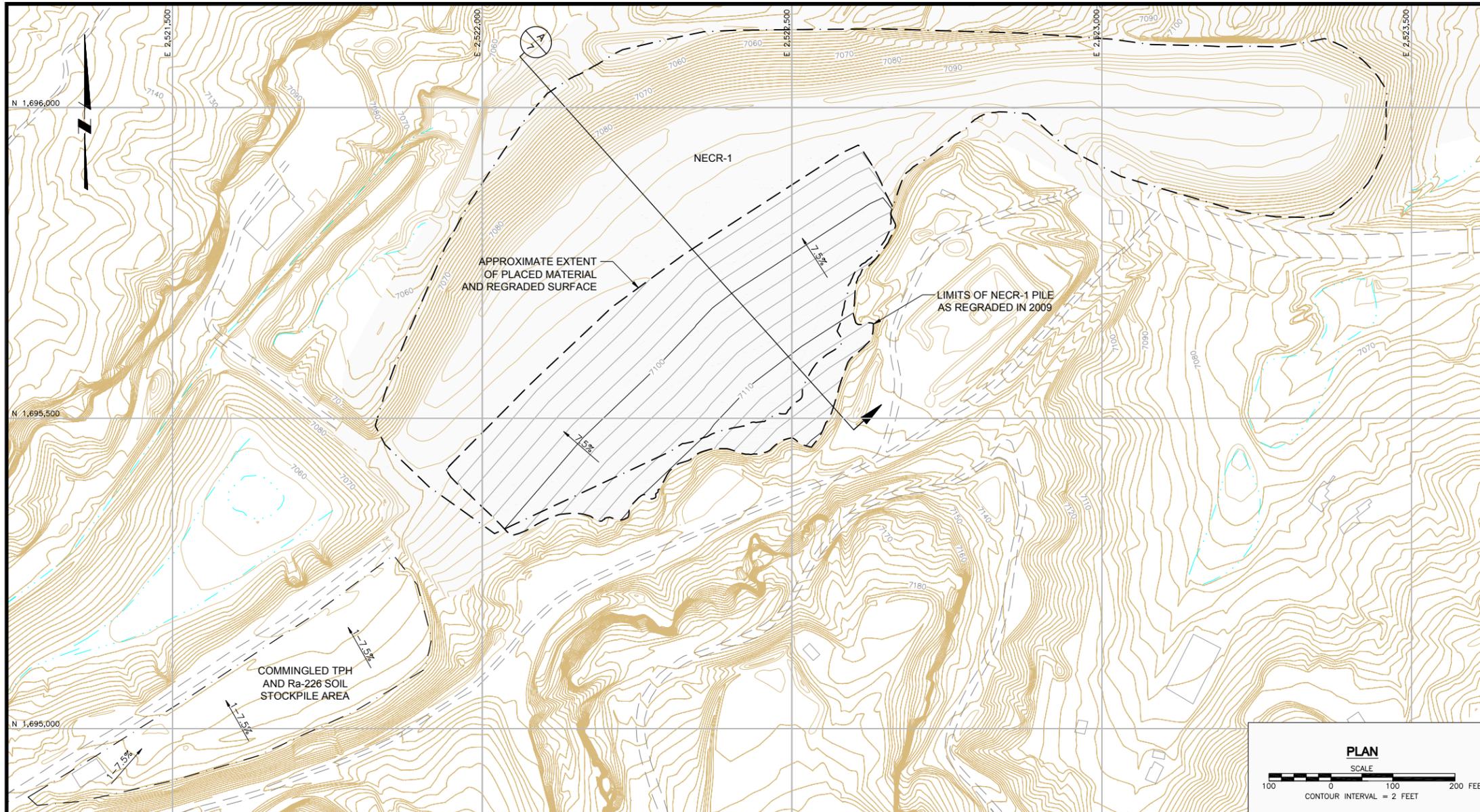
DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



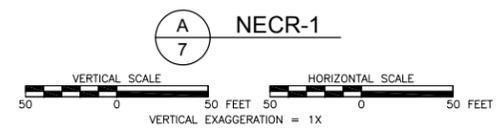
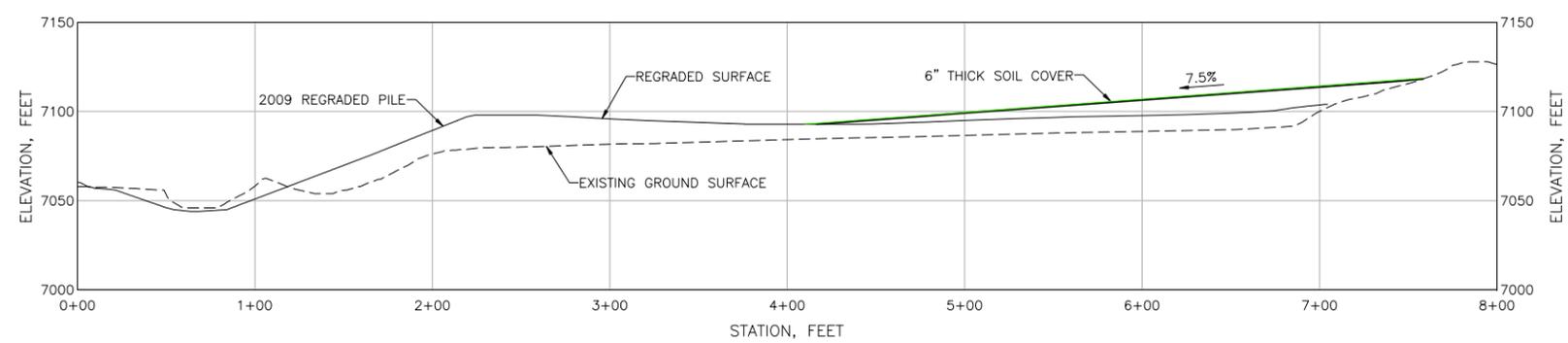
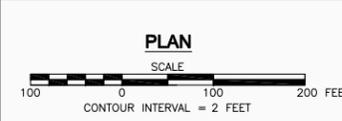
PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	EROSION CONTROL DETAILS	

DRAWING	6	REVISION	1
	FILE NAME	1012217D005	

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- LEGEND:**
- APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
 - FINAL DESIGN SURFACE CONTOUR AND ELEVATION, FEET
 - ROAD
 - NATURAL DRAINAGE
 - BUILDING



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
1		FINAL	CF	SM	08/20/12

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DRAWING REFERENCE(S):
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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE: NEW MEXICO WEST
HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD29
UNITS: U.S. FEET

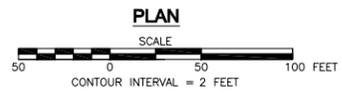
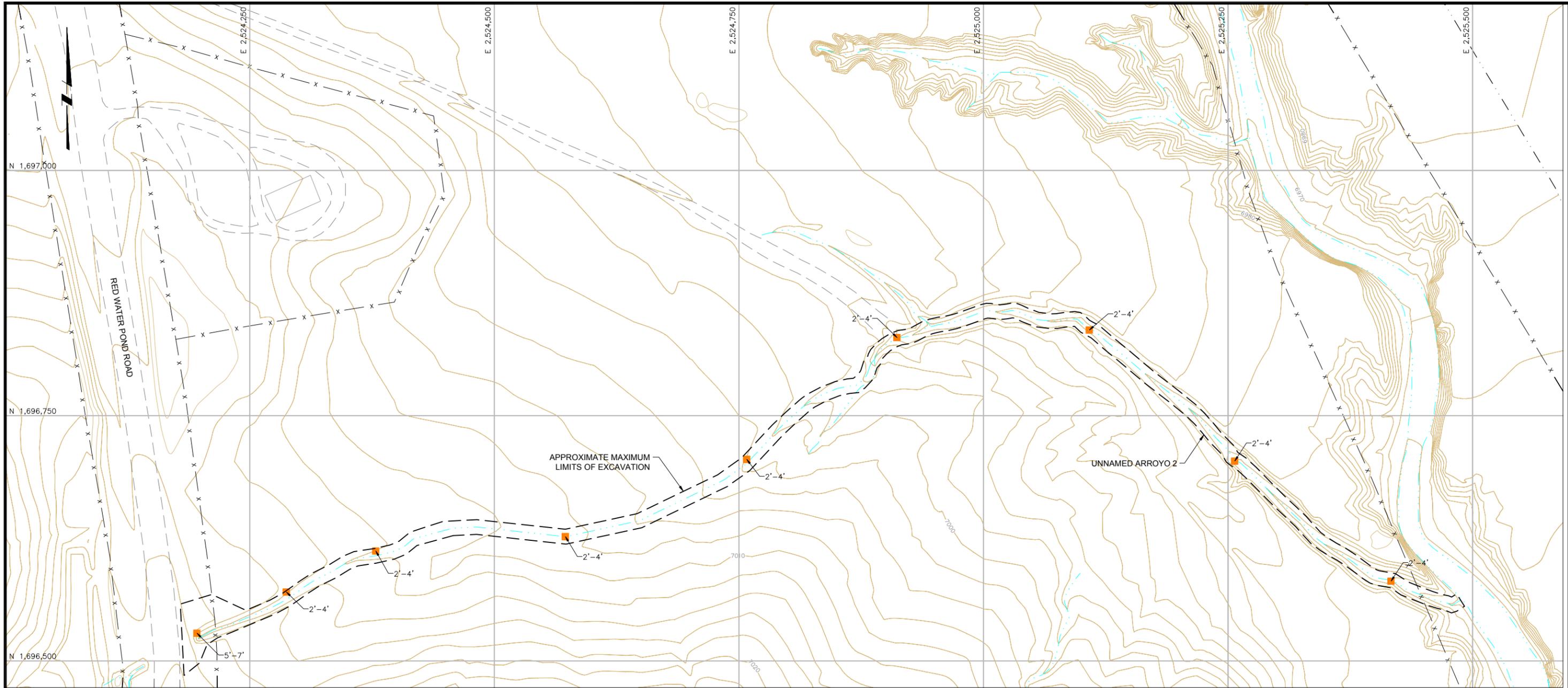
DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



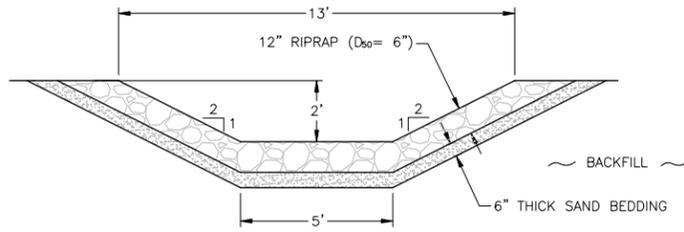
PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	SOIL CONSOLIDATION AREA GRADING PLAN AND PROFILE	

	DRAWING	7	REVISION	1
	FILE NAME	1012217D008		

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- LEGEND:**
- 7100— APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
 - ==== ROAD
 - NATURAL DRAINAGE
 - - - - - LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
 - x EXISTING FENCE
 - APPROXIMATE MAXIMUM LIMITS OF EXCAVATION
 - BUILDING
 - SUPPLEMENTAL SOIL BORING LOCATION WITH ESTIMATED DEPTH OF EXCAVATION, FEET



1
8
CHANNEL DETAIL
SCALE
3 0 3 6 FEET

ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
1		FINAL	CF	SM	08/20/12

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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE:
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

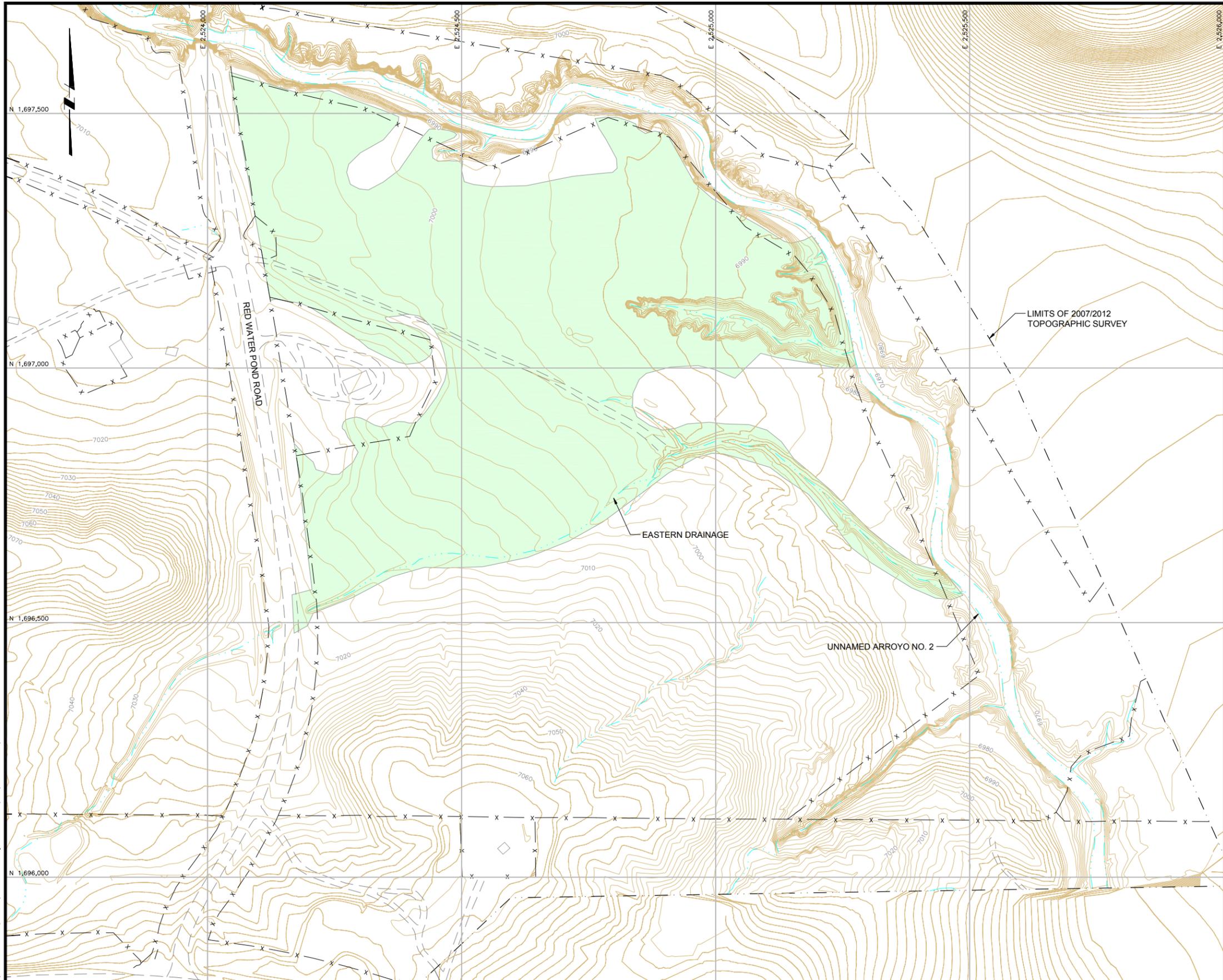
DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	DRAINAGE EXCAVATION PLAN DETAIL	

DRAWING	8	REVISION	1
	FILE NAME	1012217D007	



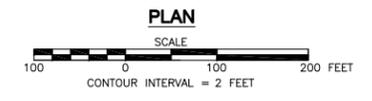


LEGEND:

- 7100 APPROXIMATE EXISTING GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ROAD
- NATURAL DRAINAGE
- LIMITS OF 2007/2012 TOPOGRAPHIC SURVEY
- EXISTING FENCE
- BUILDING
- REVEGETATION AREA AFTER SOIL EXCAVATION

NOTE:

1. ACTUAL REVEGETATION EXCAVATION BOUNDARIES MAY BE ADJUSTED IN THE FIELD BASED ON EXCAVATION CONTROL SURVEYS.



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ISSUE	DESCRIPTION	TECH	ENG	DATE
1	FINAL	CF	SM	08/20/12

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PROJECTION:
STATE PLANE COORDINATE SYSTEM
ZONE:
NEW MEXICO WEST
HORIZONTAL DATUM:
NAD83
VERTICAL DATUM:
NAVD29
UNITS:
U.S. FEET

DESIGNED BY	S MOORE	08/20/12
DRAWN BY	C FOWLER	08/20/12
CHECKED BY	T LEESON	08/20/12
APPROVED BY	T LEESON	08/20/12
PROJECT MANAGER	T LEESON	08/20/12
CLIENT APPROVAL		
CLIENT REFERENCE NO.		



PROJECT LOCATION	NORTHEAST CHURCH ROCK MINE	
PROJECT	NECR EASTERN DRAINAGE CONSTRUCTION WORK PLAN	
TITLE	REVEGETATION PLAN	

	DRAWING	9	REVISION	1
	FILE NAME	1012217D012		