



NORTHEAST CHURCH ROCK PROJECT

Revised 95% Design Submittal - September 2018

Volume 2 - Design Drawings

Prepared For

UNITED NUCLEAR CORPORATION
AND GENERAL ELECTRIC COMPANY



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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	_K REED
CHECKED	_M WITLER
APPROVED	_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
COVER SHEET

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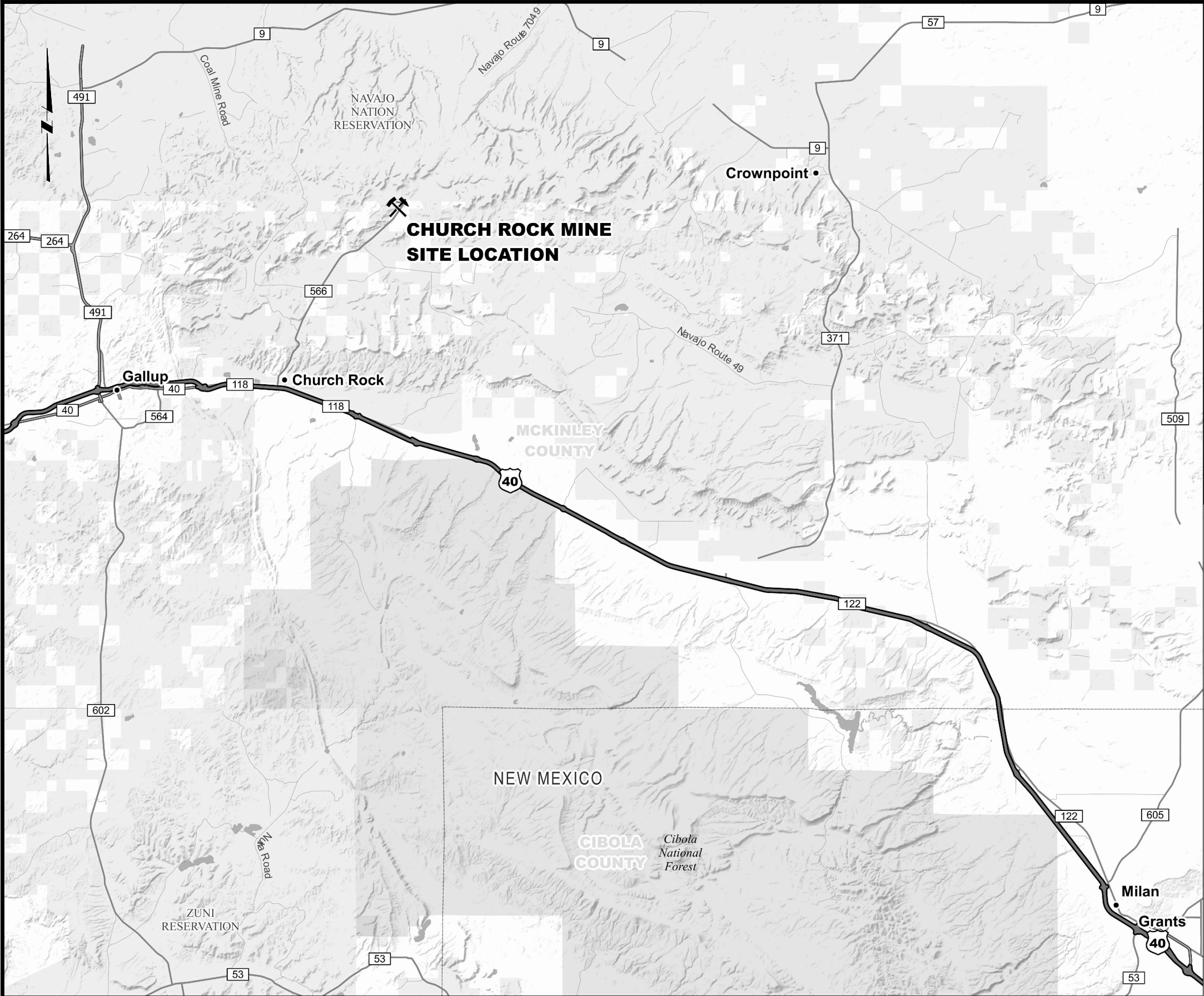
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MCKINLEY COUNTY, NEW MEXICO

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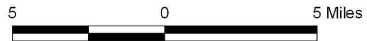
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GENERAL NOTES - CIVIL:				LEGEND:				SYMBOL:				ACRONYMS:			
<p><u>GENERAL:</u></p> <p>1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.</p> <p>2. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.</p> <p>3. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.</p> <p>4. SITE SURVEY IN STATE PLANE COORDINATES, NEW MEXICO WEST, NAD83, US FEET.</p> <p><u>UTILITIES:</u></p> <p>1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION.</p> <p>2. THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.</p> <p>3. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.</p> <p>4. PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER.</p> <p>5. PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR. SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL OR LOCAL UNDERGROUND SERVICE ALERT COMPANY AT LEAST 3 DAYS, BUT NO MORE THAN 7 DAYS, PRIOR TO SUCH EXCAVATION.</p> <p><u>EROSION CONTROL:</u></p> <p>1. THE CONTRACTOR SHALL SUBMIT A CSWPPP TO THE DESIGN ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.</p> <p>2. NO ACTIVITY MAY BEGIN UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL OF THE CSWPPP.</p>				<div><div><div><div><div><div></div><div>7200</div></div><div></div></div><div><div><div></div><div>7200</div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><d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SITE VICINITY MAP



SITE LOCATION MAP



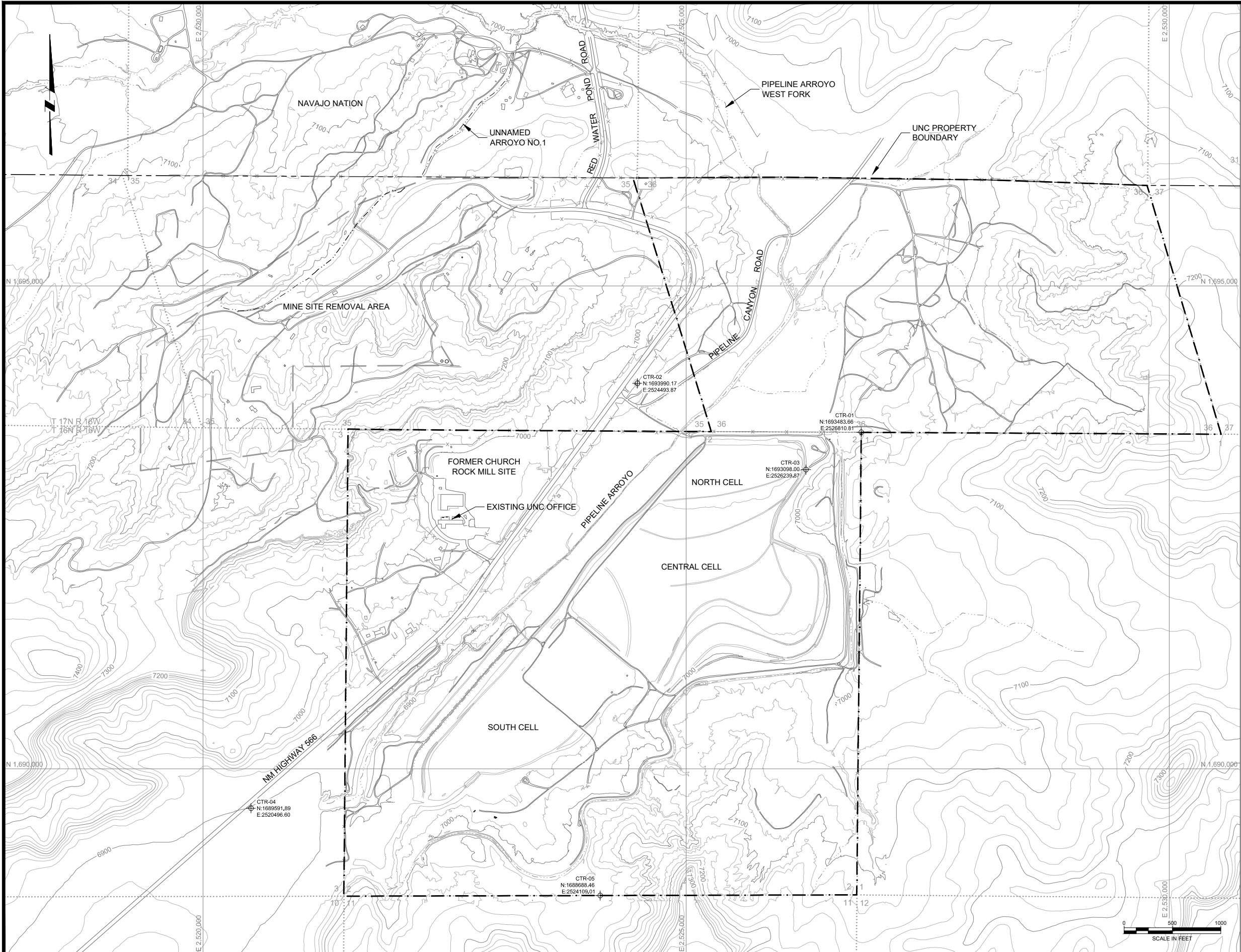
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A	07/15/16	KR	ISSUED FOR 30% DESIGN		APPROVED	_J CUMBERS
REV	DATE	BY	DESCRIPTION			



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
SITE LOCATION MAP

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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- NECR MINE PERMIT BOUNDARY
- UNC PROPERTY BOUNDARY
- APPROXIMATE NAVAJO NATION BOUNDARY
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- STRUCTURES
- SECTION LINE
- SECTION NUMBER
- SURVEY CONTROL POINTS

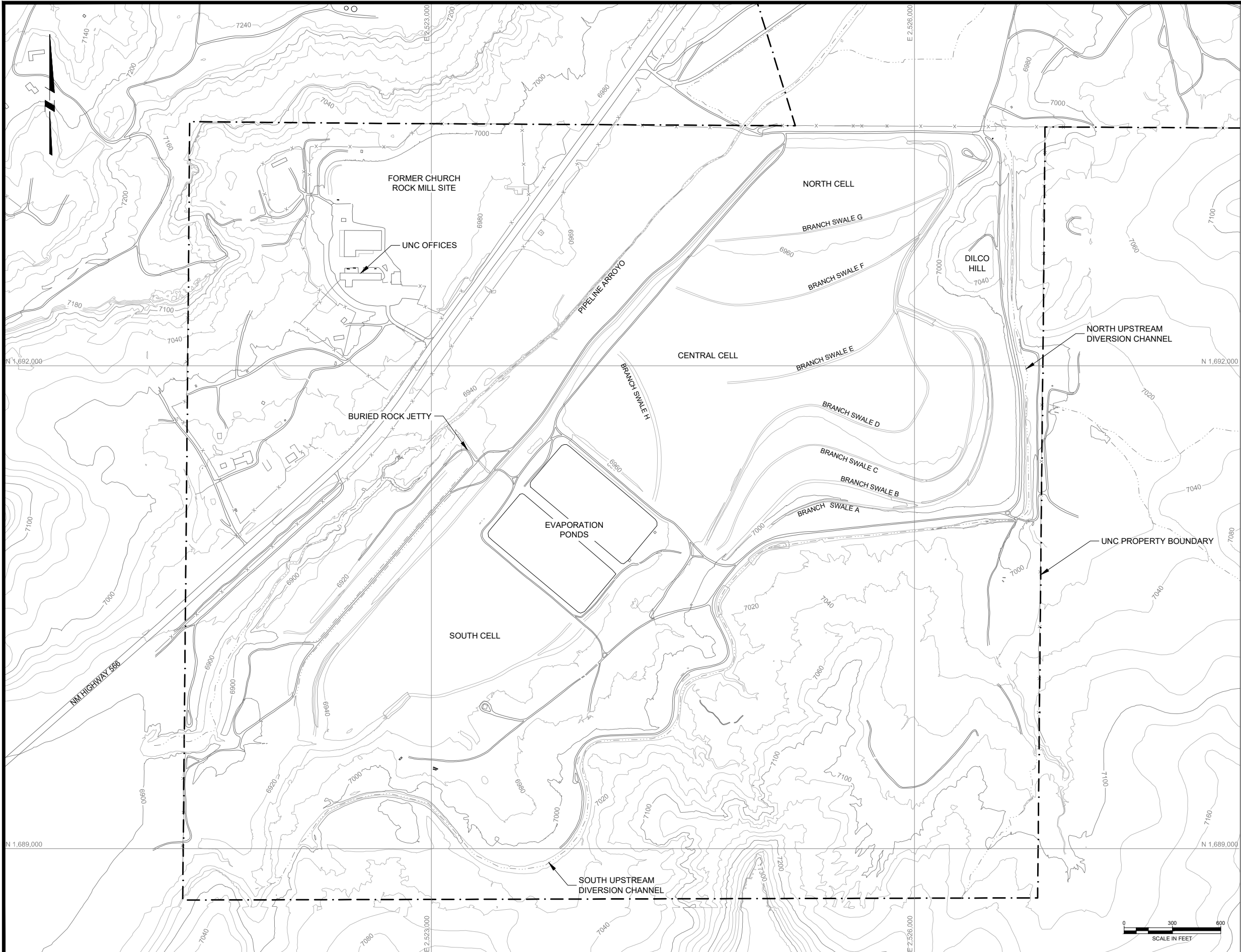
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A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	_K REED
CHECKED	_M WITLER
APPROVED	_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
PRINCIPAL EXISTING CONDITION, SITE FEATURES, AND SURVEY CONTROL

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - STRUCTURES

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

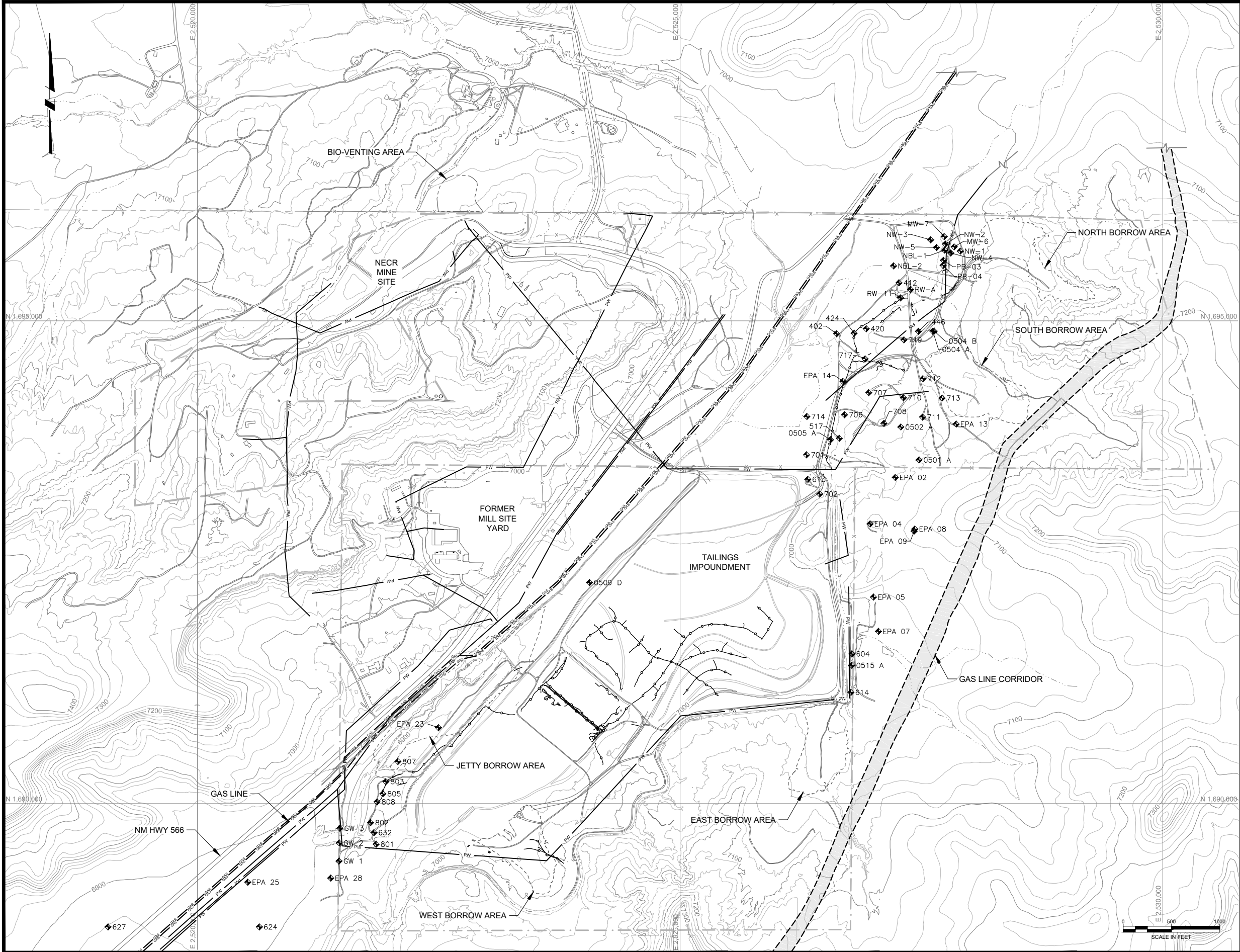
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
EXISTING CONDITION UNC SITE

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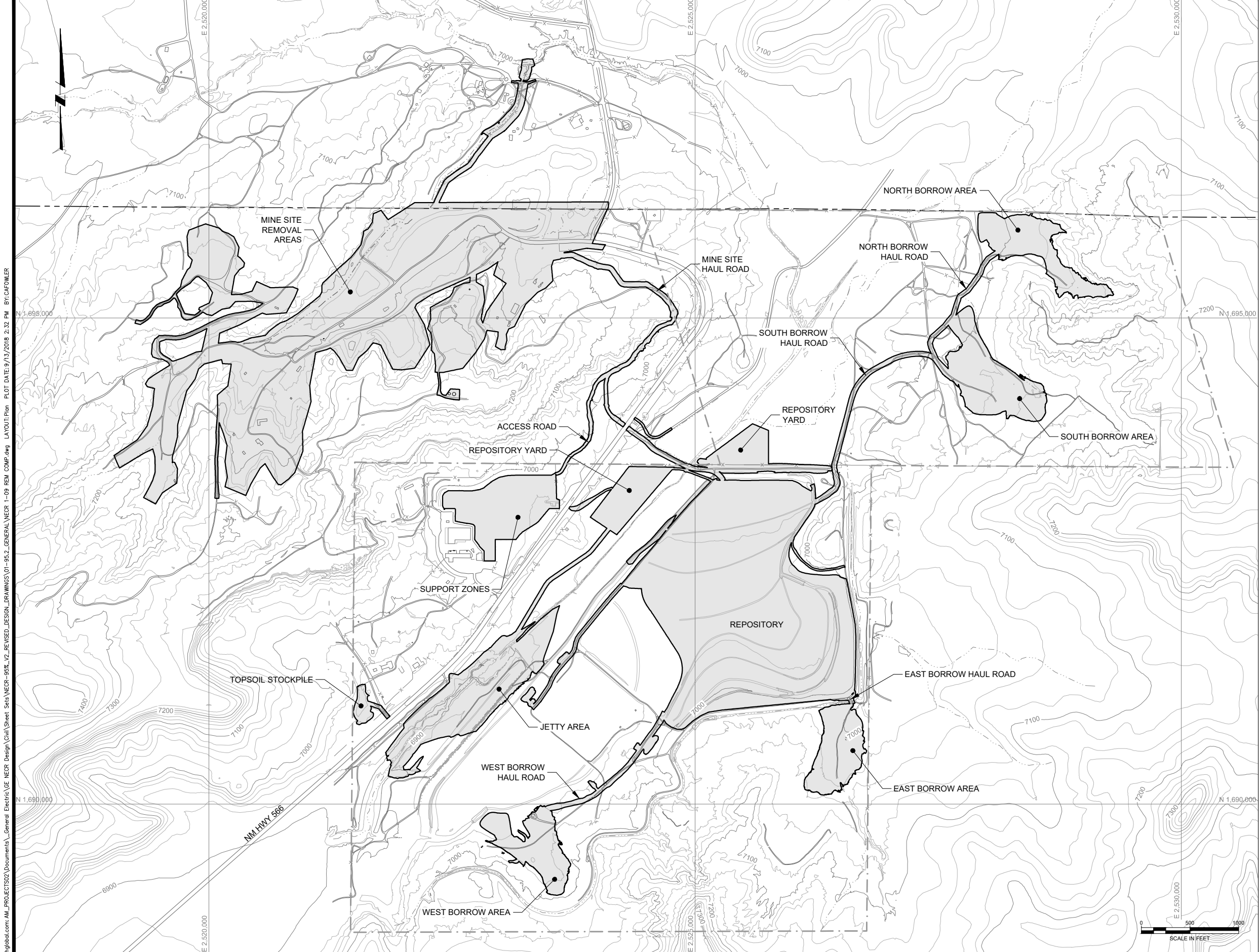
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- NECR MINE PERMIT BOUNDARY
- UNC PROPERTY BOUNDARY
- APPROXIMATE NAVAJO NATION BOUNDARY
- ROADS
- EXISTING STORMWATER CHANNEL
- NATURAL DRAINAGE
- EXISTING FENCE
- STRUCTURES
- GAS LINE
- GAS LINE CORRIDOR
- OVERHEAD POWER LINES
- PIPELINE
- MONITORING WELL

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	K REED
CHECKED	M WITLER
APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
SITE UTILITIES



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - APPROXIMATE NAVAJO NATION BOUNDARY
 - ROADS
 - EXISTING STORMWATER CHANNEL
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - STRUCTURES
 - LIMITS OF DISTURBANCE

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REV	DATE	BY	DESCRIPTION
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN

DESIGNED	K REED
CHECKED	M WITLER
APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

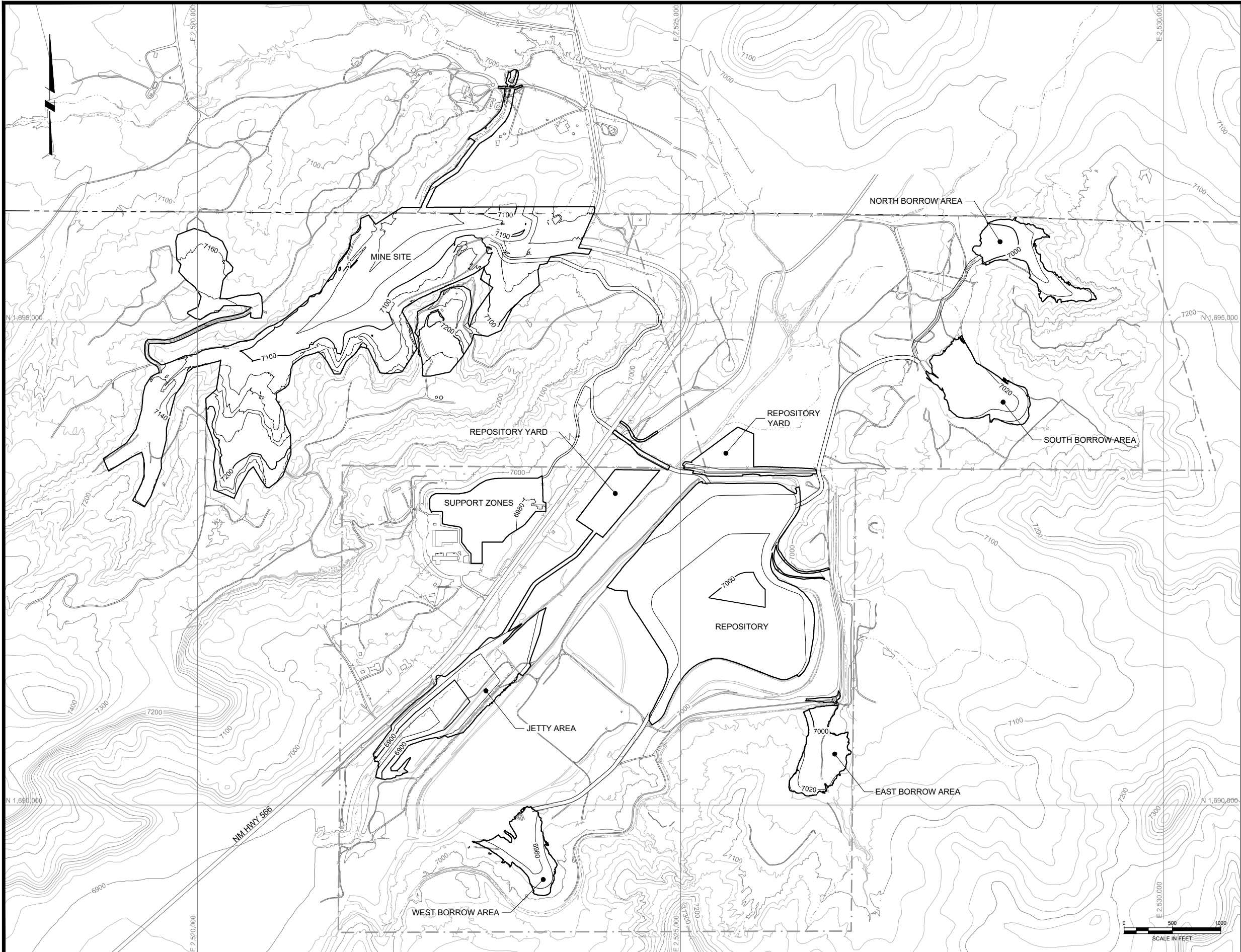
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
PRINCIPAL COMPONENTS AND LIMITS OF DISTURBANCE

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - APPROXIMATE NAVAJO NATION BOUNDARY
 - EXISTING ROADS
 - EXISTING STORMWATER CHANNEL
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - STRUCTURES

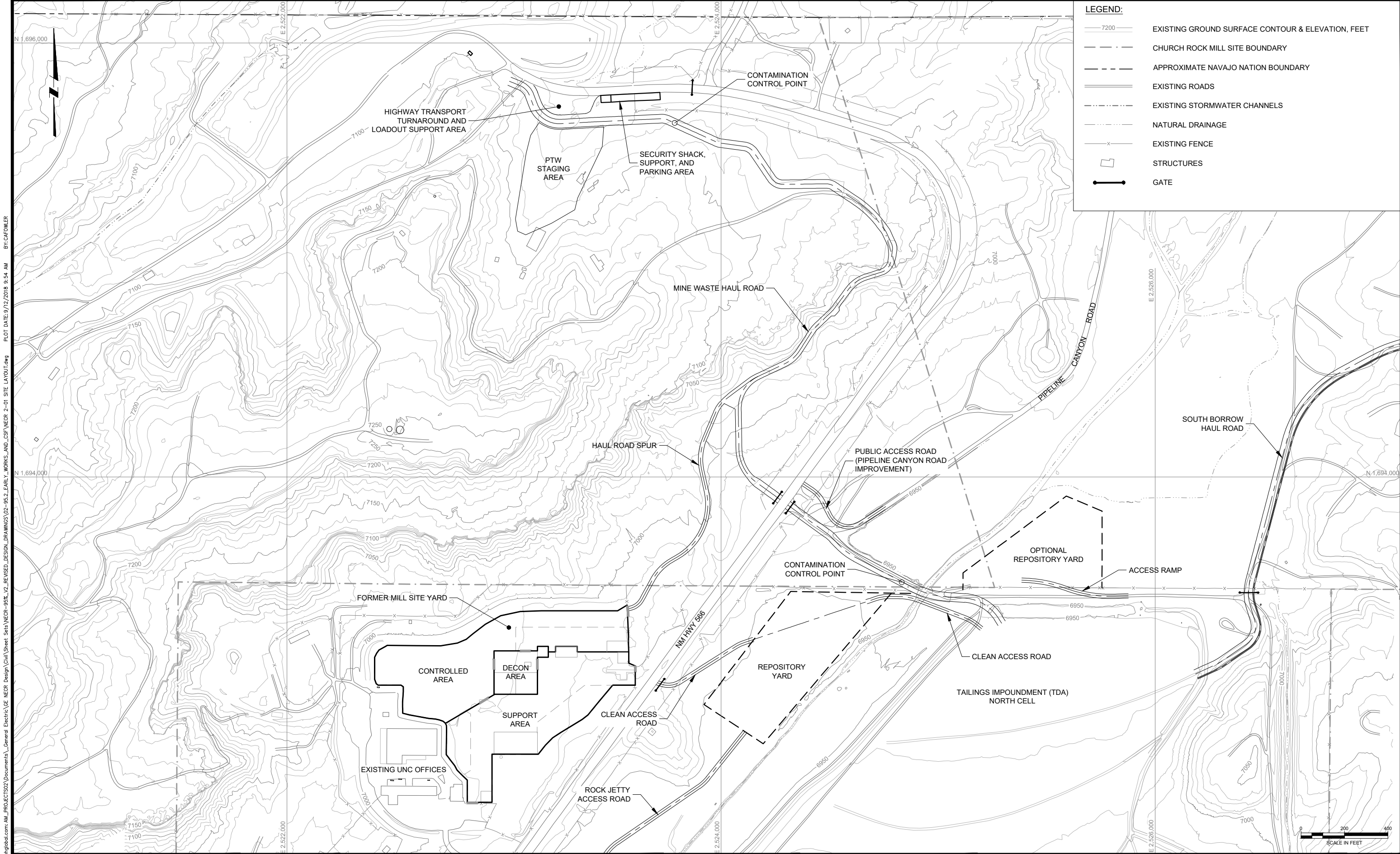
- NOTE(S):**
- HAUL ROADS TO BE RECLAIMED FOLLOWING CONSTRUCTION.

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B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
FINAL RECLAIMED TOPOGRAPHY

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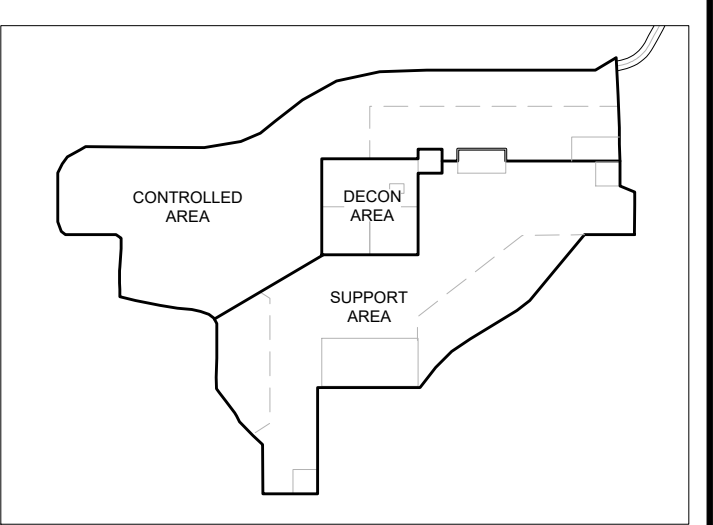
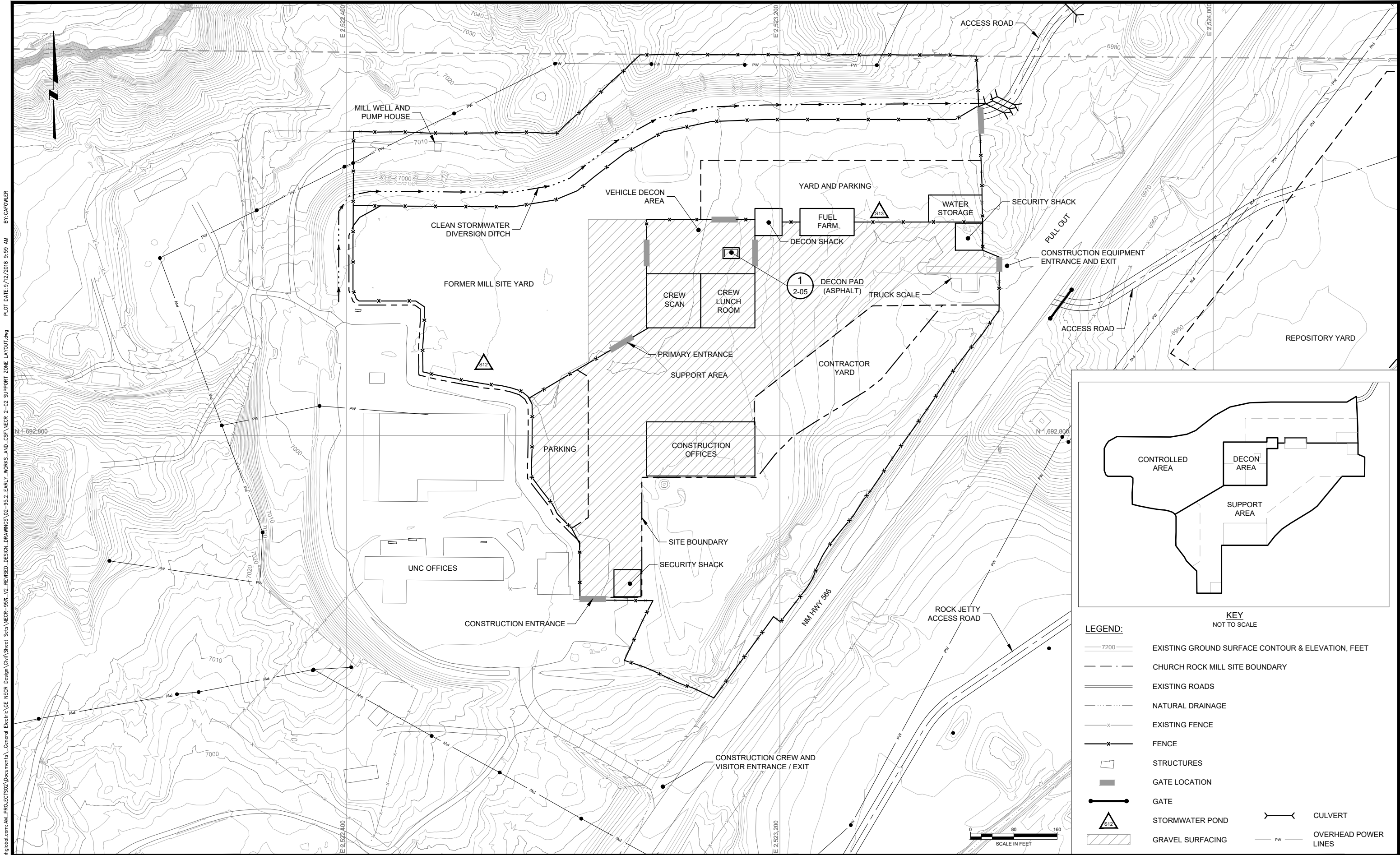
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B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
EARLY WORKS AND CONSTRUCTION SUPPORT FACILITIES

SHEET
2-01
233001048



LEGEND:	
	EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
	CHURCH ROCK MILL SITE BOUNDARY
	EXISTING ROADS
	NATURAL DRAINAGE
	EXISTING FENCE
	FENCE
	STRUCTURES
	GATE LOCATION
	GATE
	STORMWATER POND
	GRAVEL SURFACING
	CULVERT
	OVERHEAD POWER LINES

REV	DATE	BY	DESCRIPTION	APPROVED
D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	

DESIGNED_K REED
CHECKED_J COLEMAN
APPROVED_J CUMBERS

UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

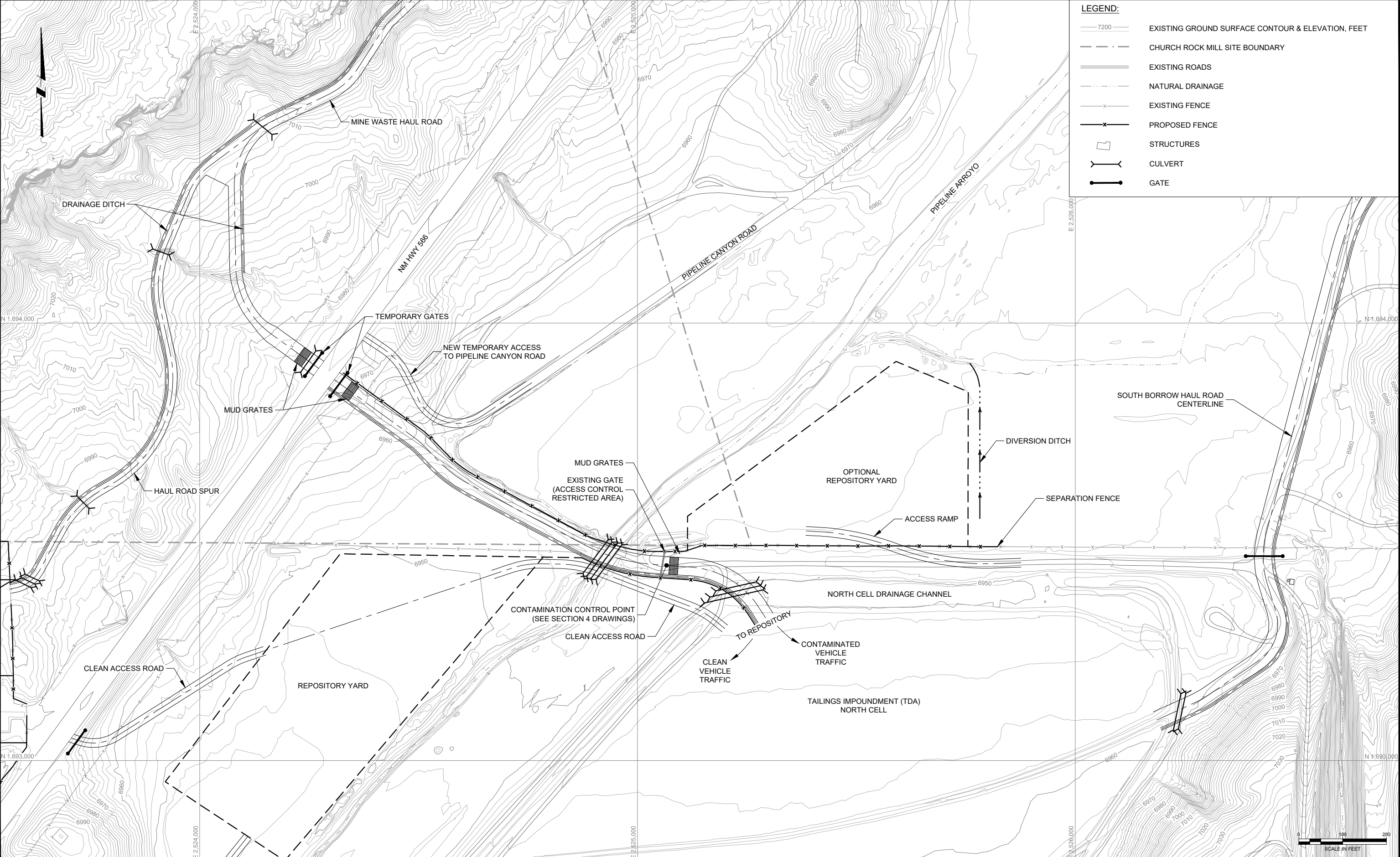
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
FORMER MILL SITE YARD

SHEET

2-02

233001048

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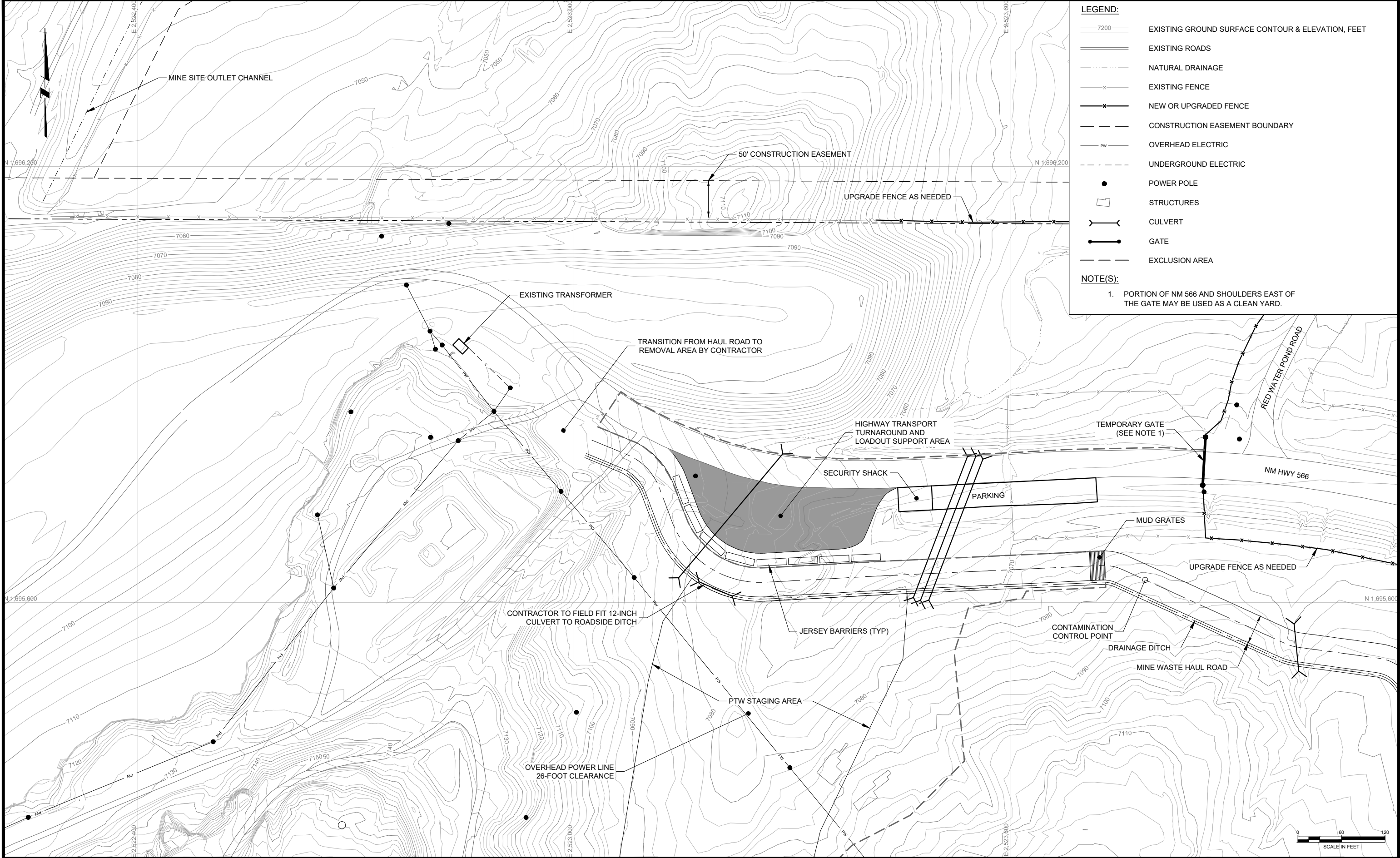


LEGEND:

- 7200 — EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- - - CHURCH ROCK MILL SITE BOUNDARY
- ===== EXISTING ROADS
- - - - - NATURAL DRAINAGE
- x - EXISTING FENCE
- x - - - PROPOSED FENCE
- [] STRUCTURES
- [] CULVERT
- [] GATE

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED	  	UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE	SHEET
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN				McKINLEY COUNTY, NEW MEXICO	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED	J COLEMAN			
A	07/15/16	KR	ISSUED FOR 30% DESIGN					
REV	DATE	BY	DESCRIPTION	APPROVED	J CUMBERS		NORTHEAST CHURCH ROCK PROJECT 95% DESIGN	2-03
							REPOSITORY YARDS	233001048

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BY: CAC/OWLER
PLOT DATE: 9/12/2018 10:08 AM



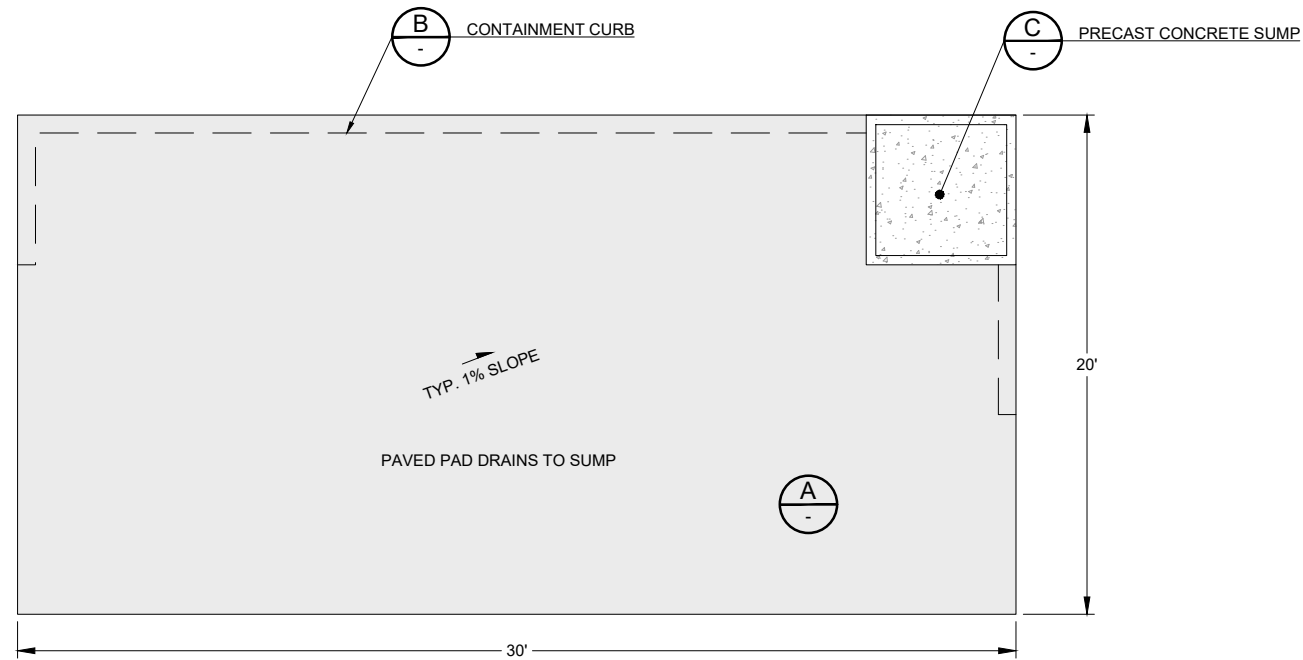
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



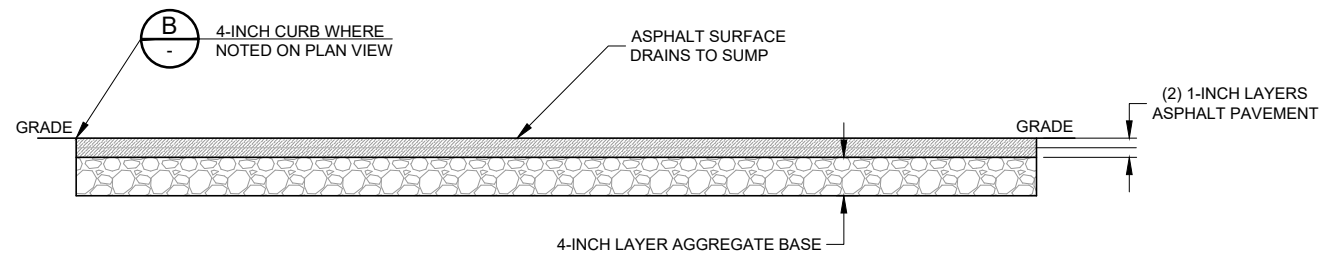
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE YARD

SHEET
2-04
233001048

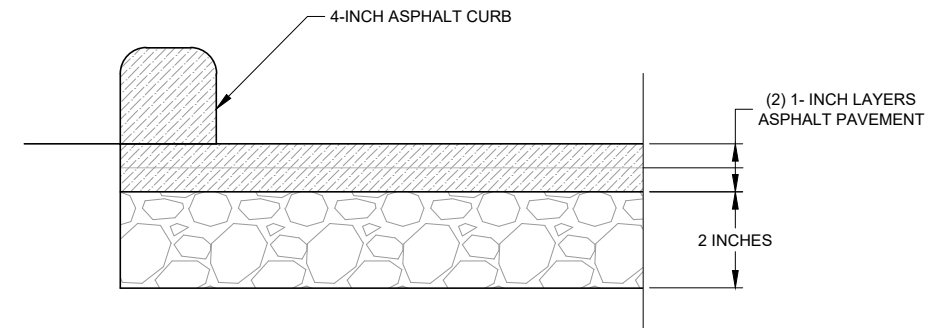
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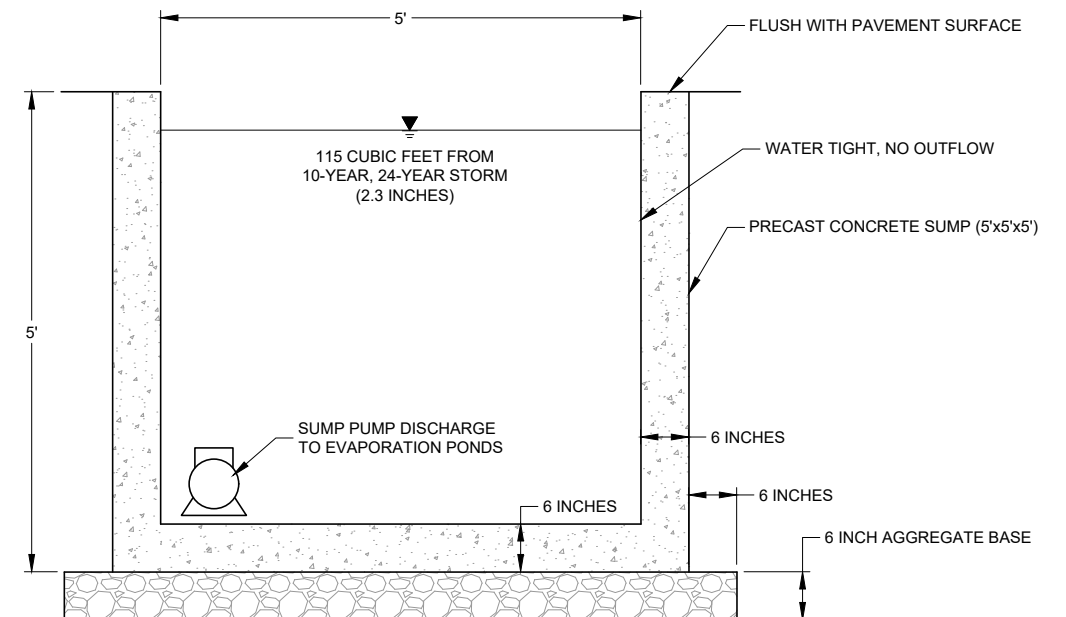
1 ASPHALT DECON PAD DETAIL - PLAN VIEW
2-05 NOT TO SCALE



A DECON PAD DETAIL
NOT TO SCALE



B CURB DETAIL
NOT TO SCALE



C PRECAST CONCRETE SUMP
NOT TO SCALE

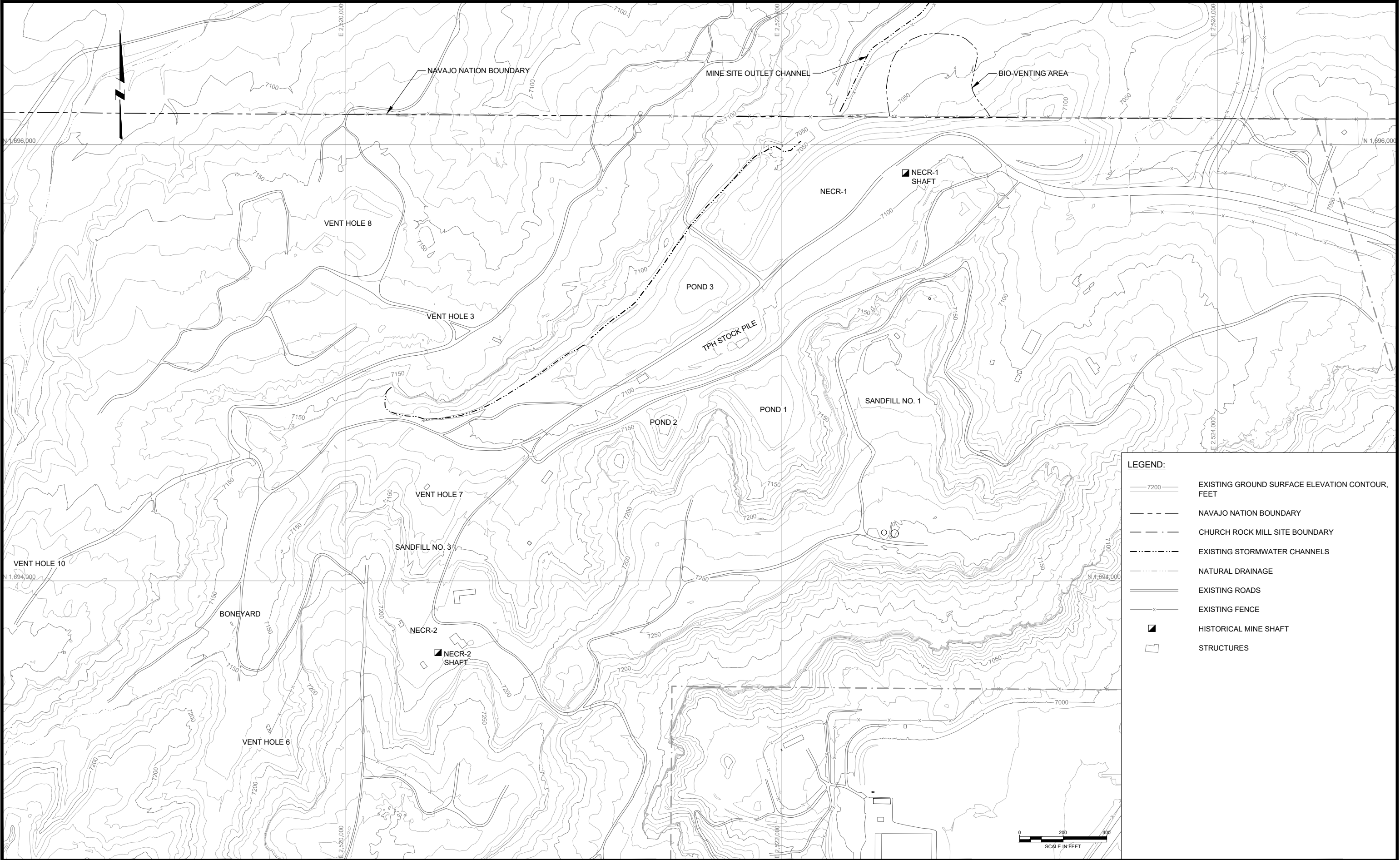
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B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED _J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
DETAILS

SHEET
2-05
233001048

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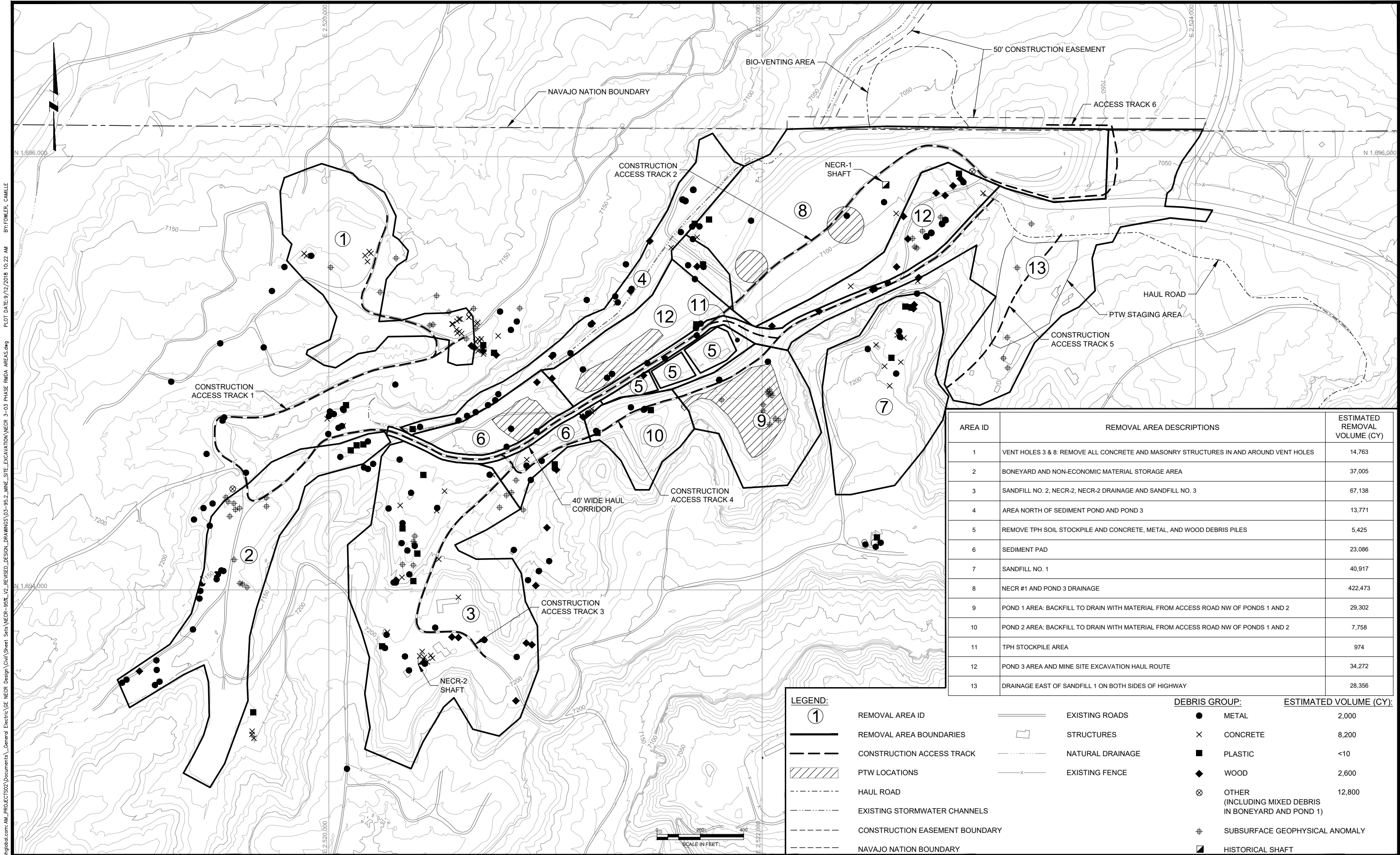


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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	_K REED
CHECKED	_M WITLER
APPROVED	_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
EXISTING CONDITION



AREA ID	REMOVAL AREA DESCRIPTIONS	ESTIMATED REMOVAL VOLUME (CY)
1	VENT HOLES 3 & 8: REMOVE ALL CONCRETE AND MASONRY STRUCTURES IN AND AROUND VENT HOLES	14,763
2	BONEYARD AND NON-ECONOMIC MATERIAL STORAGE AREA	37,005
3	SANDFILL NO. 2, NECR-2, NECR-2 DRAINAGE AND SANDFILL NO. 3	67,138
4	AREA NORTH OF SEDIMENT POND AND POND 3	13,771
5	REMOVE TPH SOIL STOCKPILE AND CONCRETE, METAL, AND WOOD DEBRIS PILES	5,425
6	SEDIMENT PAD	23,086
7	SANDFILL NO. 1	40,917
8	NECR #1 AND POND 3 DRAINAGE	422,473
9	POND 1 AREA: BACKFILL TO DRAIN WITH MATERIAL FROM ACCESS ROAD NW OF PONDS 1 AND 2	29,302
10	POND 2 AREA: BACKFILL TO DRAIN WITH MATERIAL FROM ACCESS ROAD NW OF PONDS 1 AND 2	7,758
11	TPH STOCKPILE AREA	974
12	POND 3 AREA AND MINE SITE EXCAVATION HAUL ROUTE	34,272
13	DRAINAGE EAST OF SANDFILL 1 ON BOTH SIDES OF HIGHWAY	28,356

LEGEND:

①

REMOVAL AREA ID

—

REMOVAL AREA BOUNDARIES

CONSTRUCTION ACCESS TRACK

▨

PTW LOCATIONS

HAUL ROAD

EXISTING STORMWATER CHANNELS

CONSTRUCTION EASEMENT BOUNDARY

NAVAJO NATION BOUNDARY

=====

EXISTING ROADS

□

STRUCTURES

NATURAL DRAINAGE

—x—

EXISTING FENCE

DEBRIS GROUP:

●

METAL

2,000

×

CONCRETE

8,200

■

PLASTIC

<10

◆

WOOD

2,600

⊗

OTHER
(INCLUDING MIXED DEBRIS
IN BONEYARD AND POND 1)

12,800

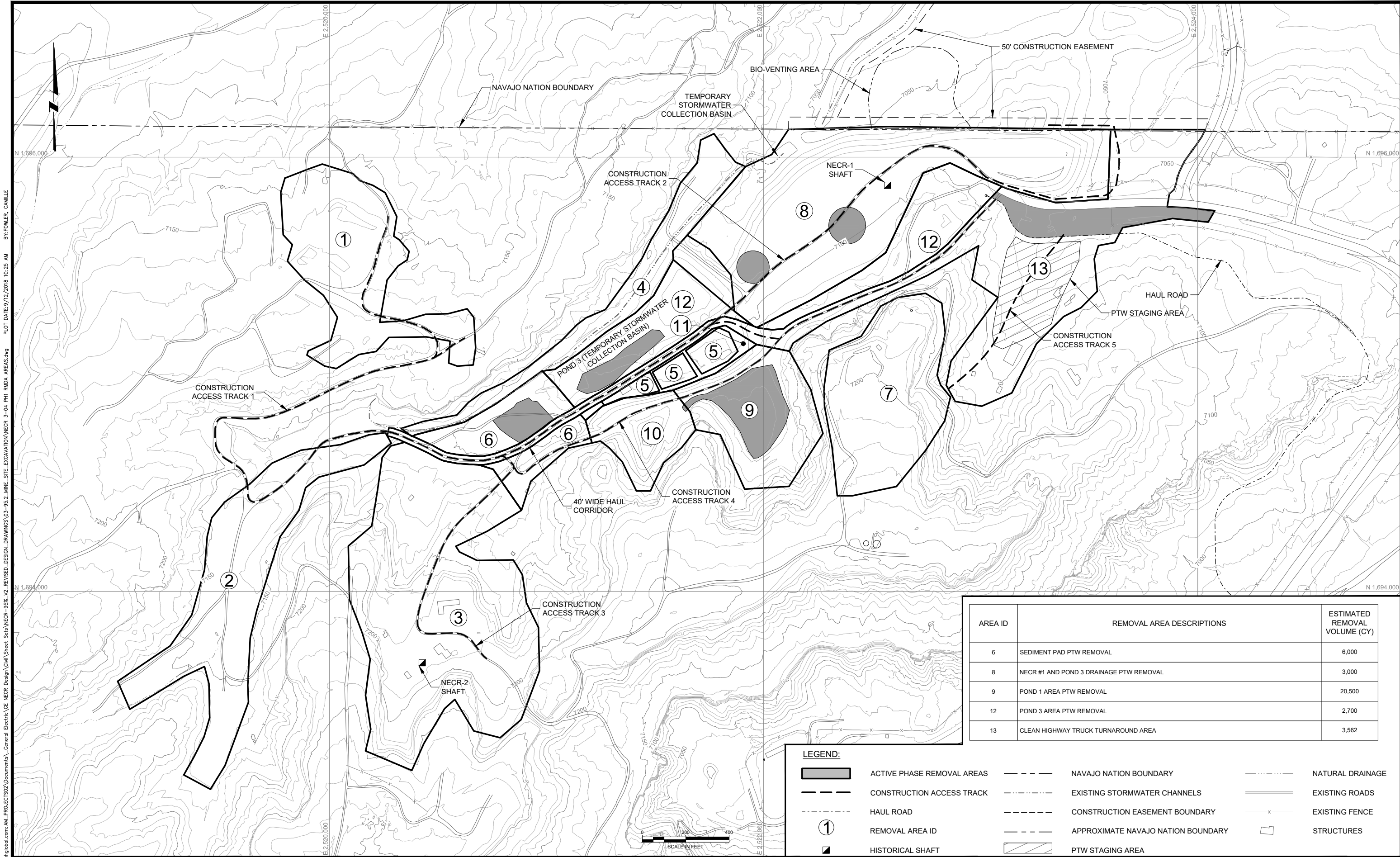
⊕

SUBSURFACE GEOPHYSICAL ANOMALY

■

HISTORICAL SHAFT

ESTIMATED VOLUME (CY):



AREA ID	REMOVAL AREA DESCRIPTIONS	ESTIMATED REMOVAL VOLUME (CY)
6	SEDIMENT PAD PTW REMOVAL	6,000
8	NECR #1 AND POND 3 DRAINAGE PTW REMOVAL	3,000
9	POND 1 AREA PTW REMOVAL	20,500
12	POND 3 AREA PTW REMOVAL	2,700
13	CLEAN HIGHWAY TRUCK TURNAROUND AREA	3,562

LEGEND:

- ACTIVE PHASE REMOVAL AREAS
- CONSTRUCTION ACCESS TRACK
- HAUL ROAD
- 1

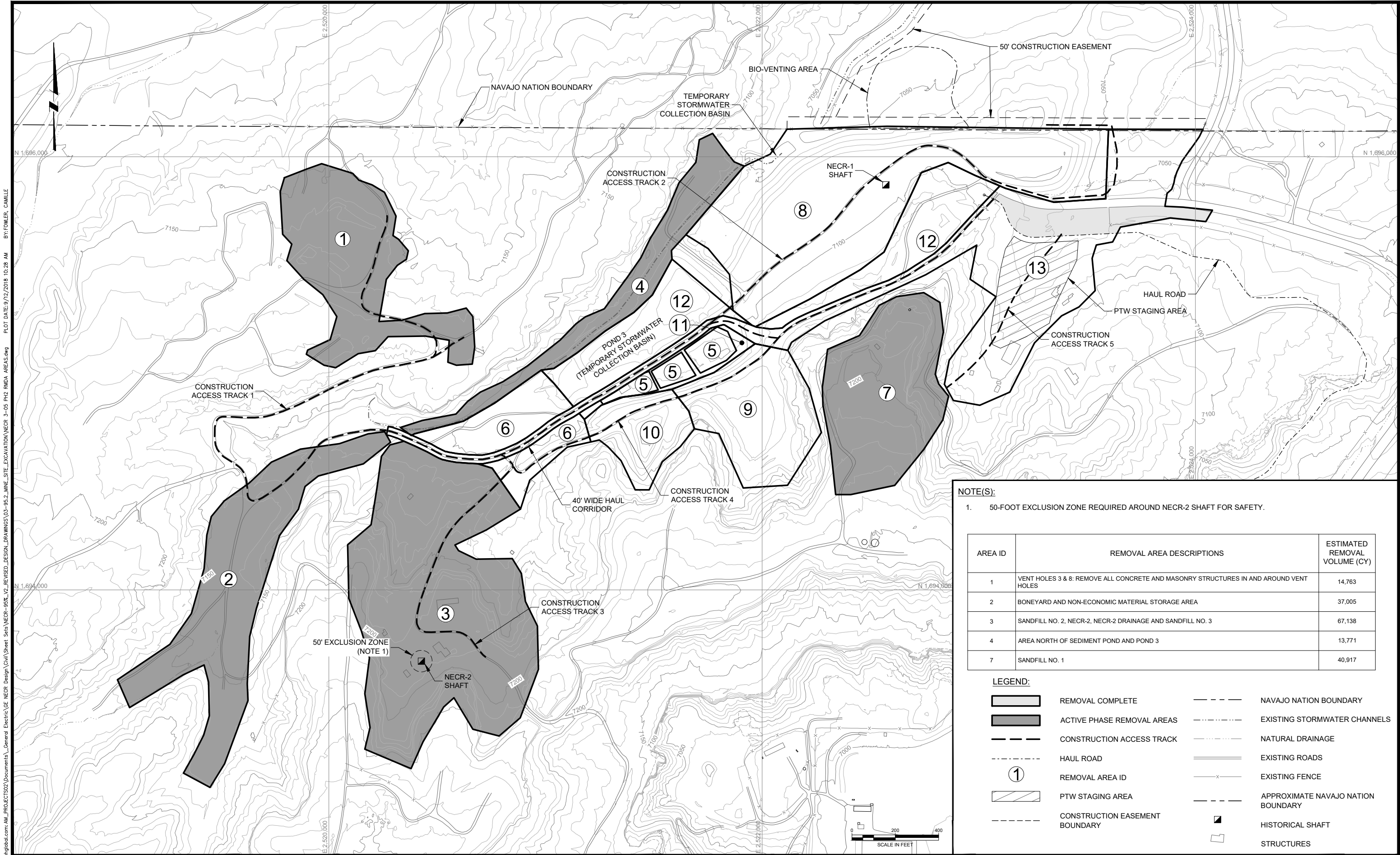
REMOVAL AREA ID
- HISTORICAL SHAFT

NAVAJO NATION BOUNDARYEXISTING STORMWATER CHANNELSCONSTRUCTION EASEMENT BOUNDARYAPPROXIMATE NAVAJO NATION BOUNDARYPTW STAGING AREANATURAL DRAINAGEEXISTING ROADSEXISTING FENCESTRUCTURES

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
PHASE 1 REMOVAL AREAS - PRINCIPAL THREAT WASTE AND LOADOUT



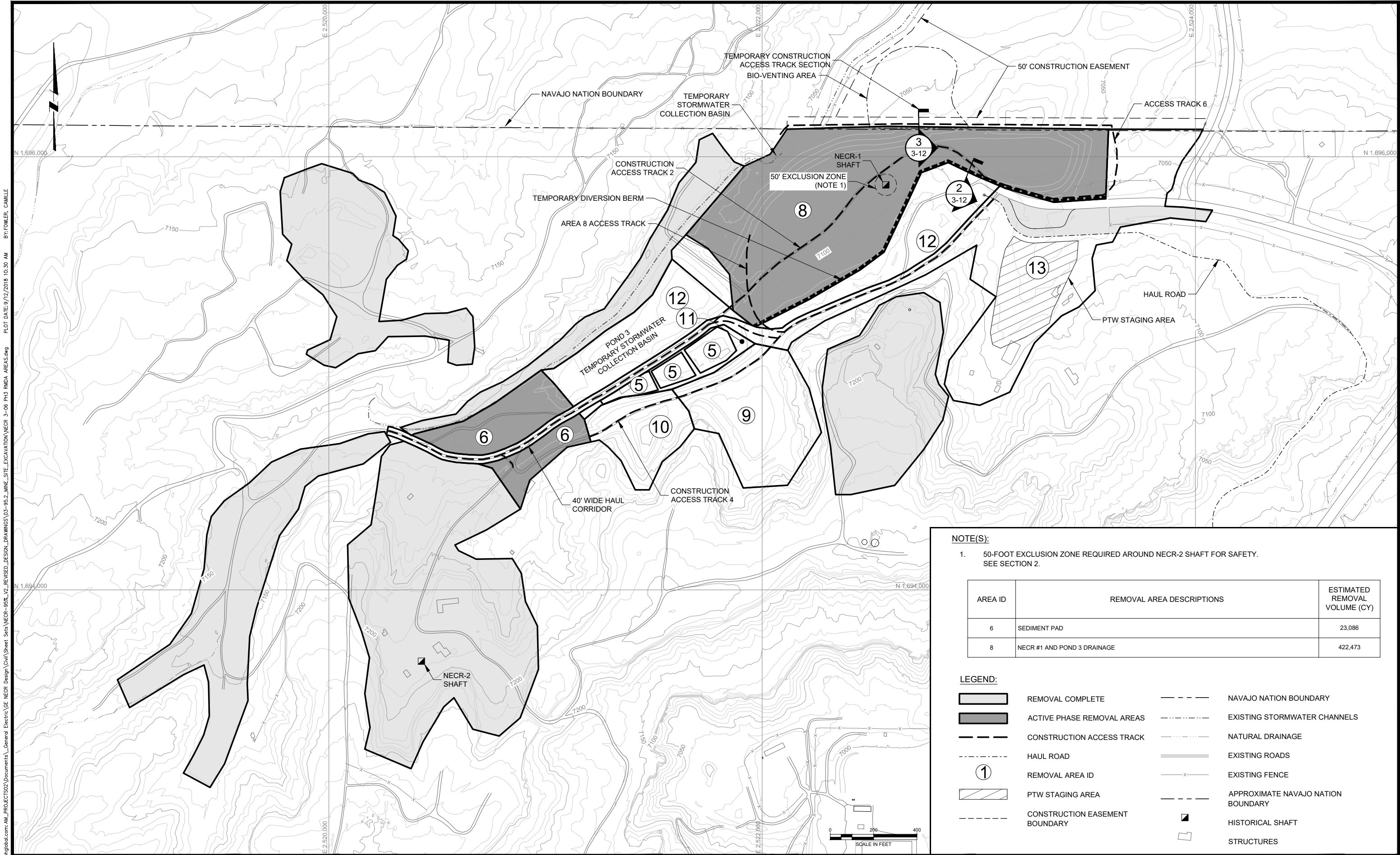
NOTE(S):

1. 50-FOOT EXCLUSION ZONE REQUIRED AROUND NECR-2 SHAFT FOR SAFETY.

AREA ID	REMOVAL AREA DESCRIPTIONS	ESTIMATED REMOVAL VOLUME (CY)
1	VENT HOLES 3 & 8: REMOVE ALL CONCRETE AND MASONRY STRUCTURES IN AND AROUND VENT HOLES	14,763
2	BONEYARD AND NON-ECONOMIC MATERIAL STORAGE AREA	37,005
3	SANDFILL NO. 2, NECR-2, NECR-2 DRAINAGE AND SANDFILL NO. 3	67,138
4	AREA NORTH OF SEDIMENT POND AND POND 3	13,771
7	SANDFILL NO. 1	40,917

LEGEND:

REMOVAL COMPLETE	NAVAJO NATION BOUNDARY
ACTIVE PHASE REMOVAL AREAS	EXISTING STORMWATER CHANNELS
CONSTRUCTION ACCESS TRACK	NATURAL DRAINAGE
HAUL ROAD	EXISTING ROADS
REMOVAL AREA ID	EXISTING FENCE
PTW STAGING AREA	APPROXIMATE NAVAJO NATION BOUNDARY
CONSTRUCTION EASEMENT BOUNDARY	HISTORICAL SHAFT
	STRUCTURES



NOTE(S):

1. 50-FOOT EXCLUSION ZONE REQUIRED AROUND NECR-2 SHAFT FOR SAFETY. SEE SECTION 2.

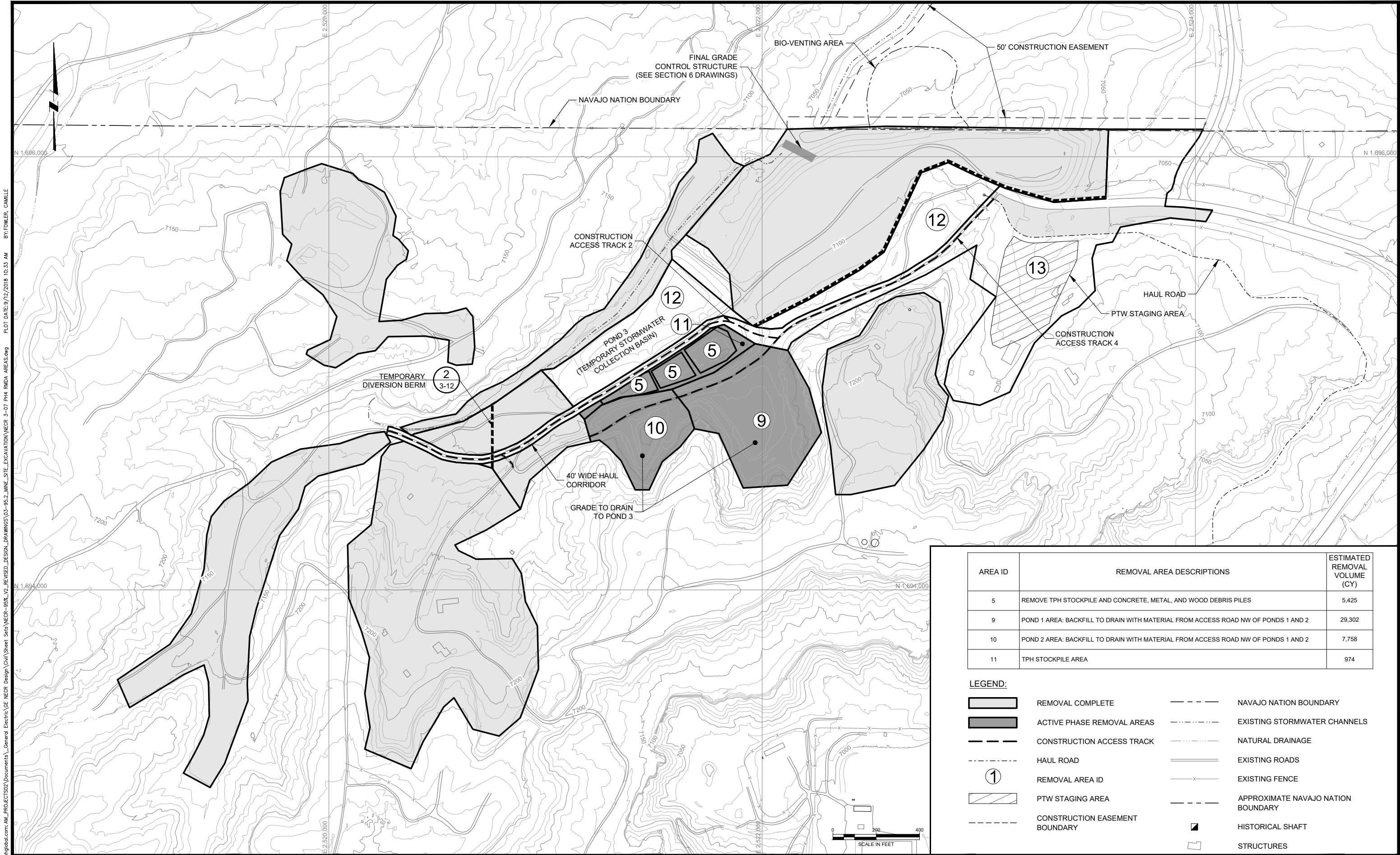
AREA ID	REMOVAL AREA DESCRIPTIONS	ESTIMATED REMOVAL VOLUME (CY)
6	SEDIMENT PAD	23,086
8	NECR #1 AND POND 3 DRAINAGE	422,473

LEGEND:

	REMOVAL COMPLETE		NAVAJO NATION BOUNDARY
	ACTIVE PHASE REMOVAL AREAS		EXISTING STORMWATER CHANNELS
	CONSTRUCTION ACCESS TRACK		NATURAL DRAINAGE
	HAUL ROAD		EXISTING ROADS
	REMOVAL AREA ID		EXISTING FENCE
	PTW STAGING AREA		APPROXIMATE NAVAJO NATION BOUNDARY
	CONSTRUCTION EASEMENT BOUNDARY		HISTORICAL SHAFT
			STRUCTURES

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN		
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED	J CUMBERS
REV	DATE	BY	DESCRIPTION		





AREA ID	REMOVAL AREA DESCRIPTIONS	ESTIMATED REMOVAL VOLUME (CY)
5	REMOVE TPH STOCKPILE AND CONCRETE, METAL, AND WOOD DEBRIS PILES	5,425
9	POND 1 AREA: BACKFILL TO DRAIN WITH MATERIAL FROM ACCESS ROAD NW OF PONDS 1 AND 2	29,302
10	POND 2 AREA: BACKFILL TO DRAIN WITH MATERIAL FROM ACCESS ROAD NW OF PONDS 1 AND 2	7,758
11	TPH STOCKPILE AREA	974

LEGEND:

REMOVAL COMPLETE

ACTIVE PHASE REMOVAL AREAS

CONSTRUCTION ACCESS TRACK

HAUL ROAD

①

REMOVAL AREA ID

PTW STAGING AREA

CONSTRUCTION EASEMENT

BOUNDARY

NAVAJO NATION BOUNDARY

EXISTING STORMWATER CHANNELS

NATURAL DRAINAGE

EXISTING ROADS

EXISTING FENCE

APPROXIMATE NAVAJO NATION BOUNDARY

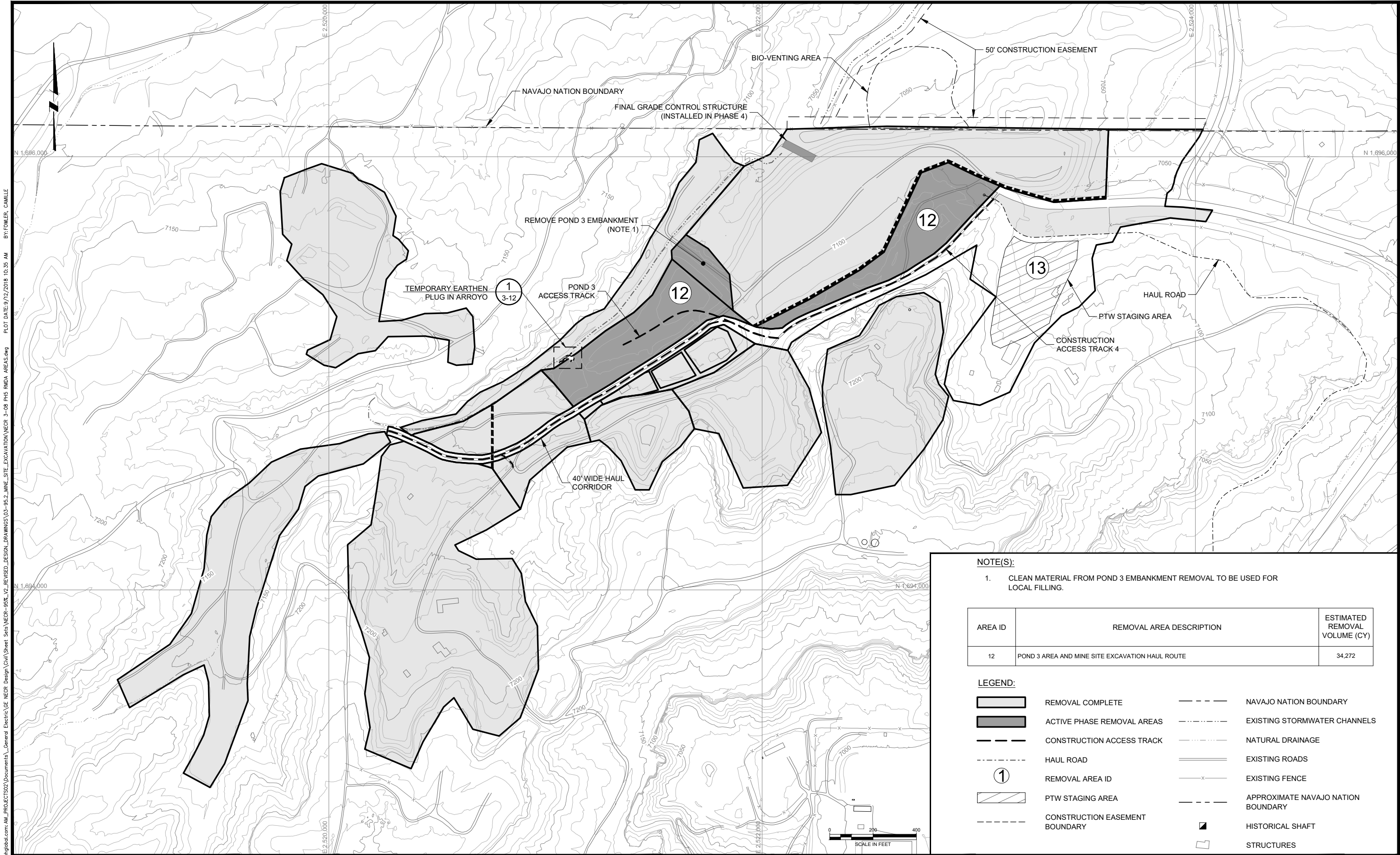
HISTORICAL SHAFT

STRUCTURES

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN		
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED	J CUMBERS
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
PHASE 4 REMOVAL AREAS



- NOTE(S):**
- CLEAN MATERIAL FROM POND 3 EMBANKMENT REMOVAL TO BE USED FOR LOCAL FILLING.

AREA ID	REMOVAL AREA DESCRIPTION	ESTIMATED REMOVAL VOLUME (CY)
12	POND 3 AREA AND MINE SITE EXCAVATION HAUL ROUTE	34,272

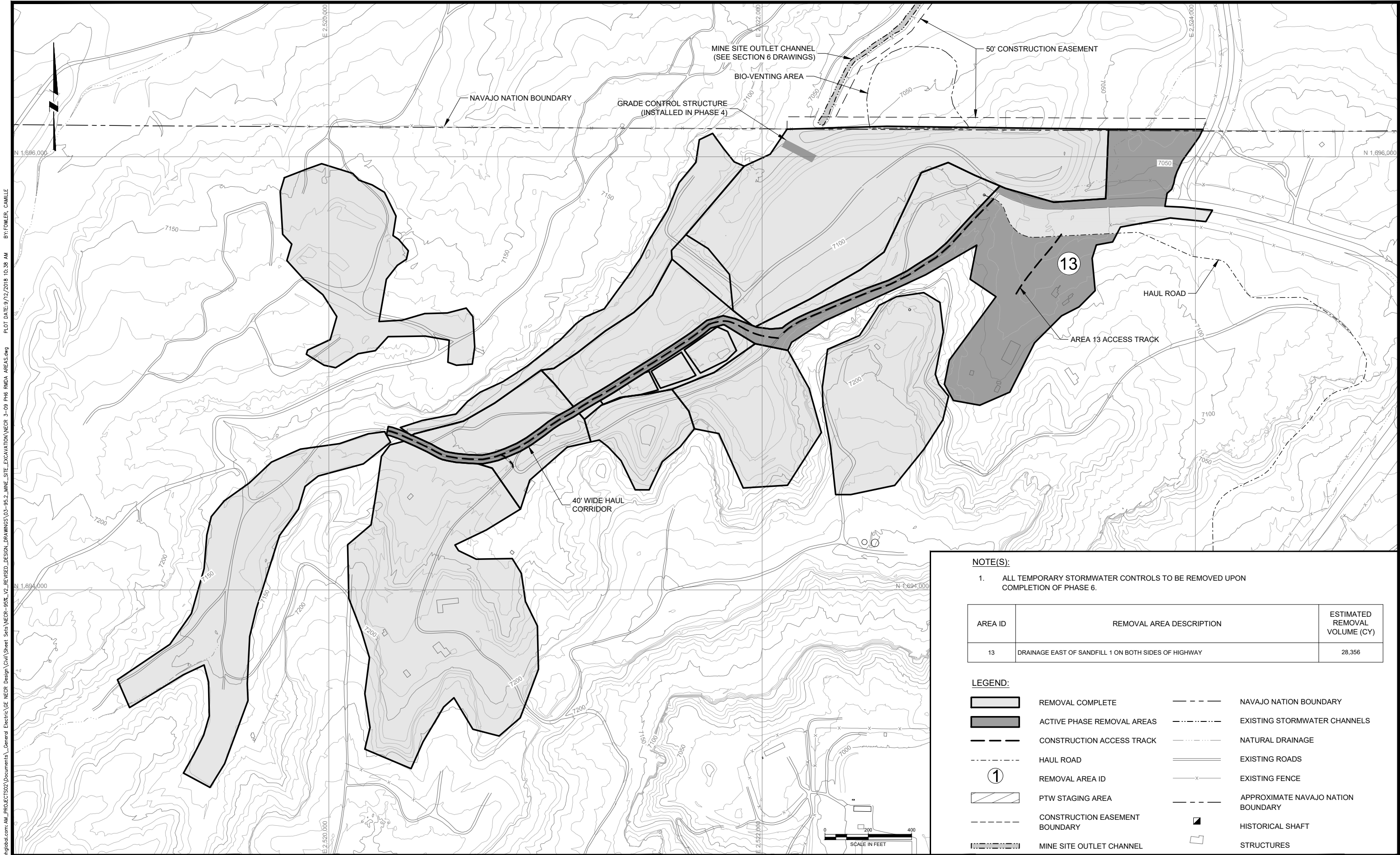
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| | REMOVAL COMPLETE | | NAVAJO NATION BOUNDARY |
| | ACTIVE PHASE REMOVAL AREAS | | EXISTING STORMWATER CHANNELS |
| | CONSTRUCTION ACCESS TRACK | | NATURAL DRAINAGE |
| | HAUL ROAD | | EXISTING ROADS |
| | REMOVAL AREA ID | | EXISTING FENCE |
| | PTW STAGING AREA | | APPROXIMATE NAVAJO NATION BOUNDARY |
| | CONSTRUCTION EASEMENT BOUNDARY | | HISTORICAL SHAFT |
| | | | STRUCTURES |

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
PHASE 5 REMOVAL AREAS

SHEET
3-08
233001048



- NOTE(S):
- ALL TEMPORARY STORMWATER CONTROLS TO BE REMOVED UPON COMPLETION OF PHASE 6.

AREA ID	REMOVAL AREA DESCRIPTION	ESTIMATED REMOVAL VOLUME (CY)
13	DRAINAGE EAST OF SANDFILL 1 ON BOTH SIDES OF HIGHWAY	28,356

- LEGEND:
- | | | | |
|--|--------------------------------|--|------------------------------------|
| | REMOVAL COMPLETE | | NAVAJO NATION BOUNDARY |
| | ACTIVE PHASE REMOVAL AREAS | | EXISTING STORMWATER CHANNELS |
| | CONSTRUCTION ACCESS TRACK | | NATURAL DRAINAGE |
| | HAUL ROAD | | EXISTING ROADS |
| | REMOVAL AREA ID | | EXISTING FENCE |
| | PTW STAGING AREA | | APPROXIMATE NAVAJO NATION BOUNDARY |
| | CONSTRUCTION EASEMENT BOUNDARY | | HISTORICAL SHAFT |
| | MINE SITE OUTLET CHANNEL | | STRUCTURES |

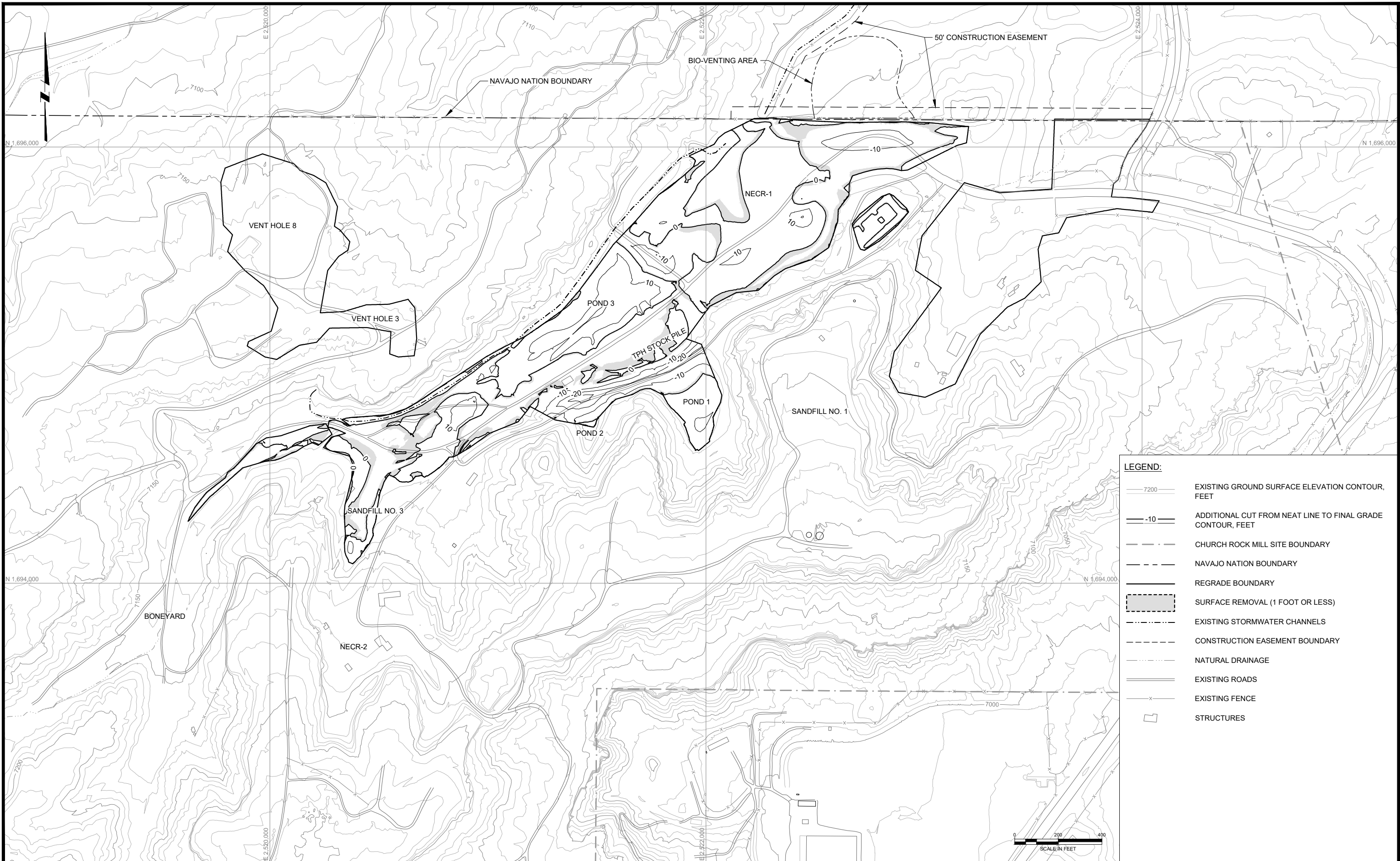
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN		
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION	APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
PHASE 6 REMOVAL AREAS

SHEET
3-09
233001048

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LEGEND:

- EXISTING GROUND SURFACE ELEVATION CONTOUR, FEET
- ADDITIONAL CUT FROM NEAT LINE TO FINAL GRADE CONTOUR, FEET
- CHURCH ROCK MILL SITE BOUNDARY
- NAVAJO NATION BOUNDARY
- REGRADE BOUNDARY
- SURFACE REMOVAL (1 FOOT OR LESS)
- EXISTING STORMWATER CHANNELS
- CONSTRUCTION EASEMENT BOUNDARY
- NATURAL DRAINAGE
- EXISTING ROADS
- EXISTING FENCE
- STRUCTURES

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
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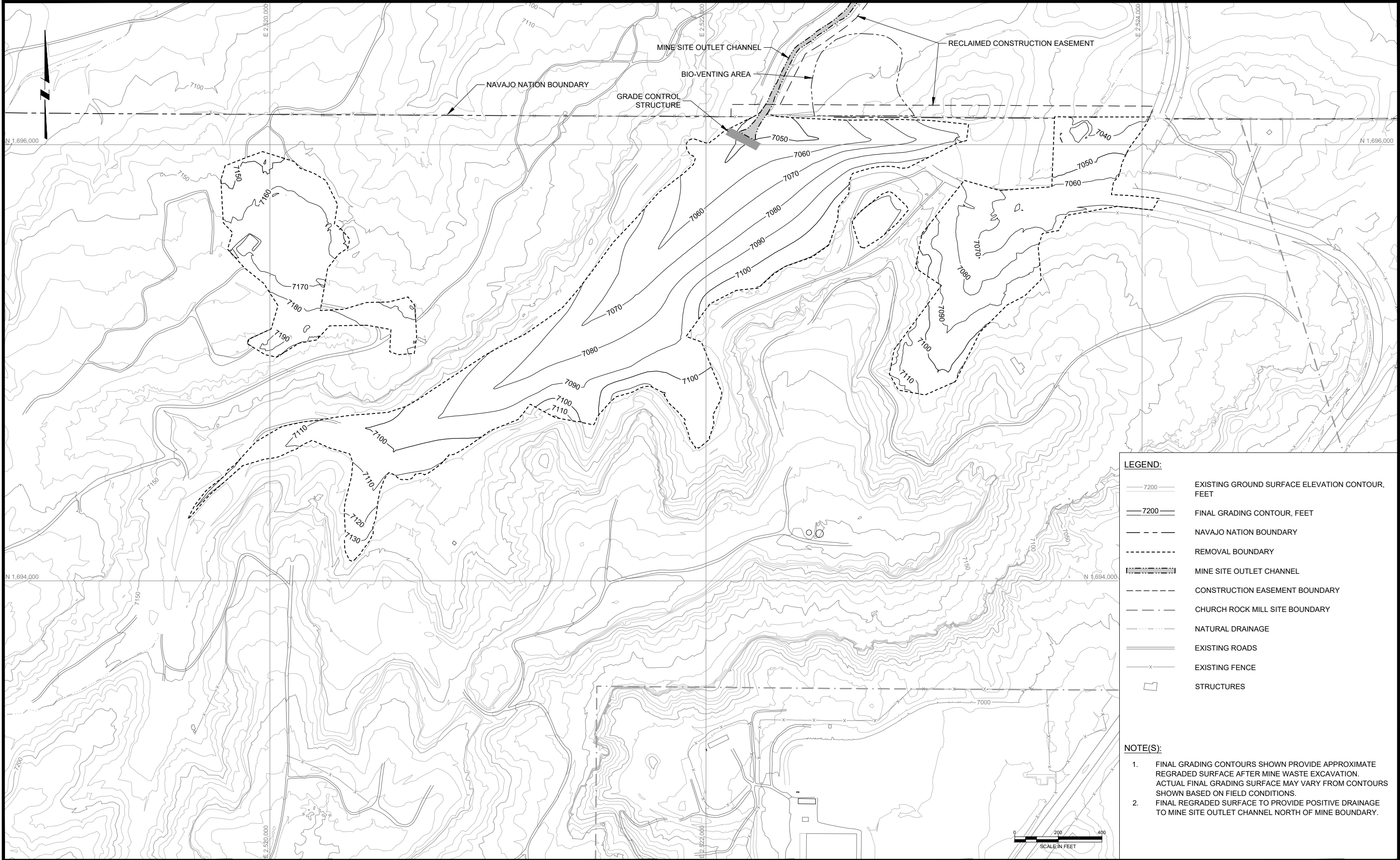
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CHECKED	M WITLER
APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
CUT / FILL DEPTHS - NEAT LINE TO FINAL GRADE

SHEET
3-10
233001048

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LEGEND:

- EXISTING GROUND SURFACE ELEVATION CONTOUR, FEET
- FINAL GRADING CONTOUR, FEET
- NAVAJO NATION BOUNDARY
- REMOVAL BOUNDARY
- MINE SITE OUTLET CHANNEL
- CONSTRUCTION EASEMENT BOUNDARY
- CHURCH ROCK MILL SITE BOUNDARY
- NATURAL DRAINAGE
- EXISTING ROADS
- EXISTING FENCE
- STRUCTURES

NOTE(S):

- FINAL GRADING CONTOURS SHOWN PROVIDE APPROXIMATE REGRADED SURFACE AFTER MINE WASTE EXCAVATION. ACTUAL FINAL GRADING SURFACE MAY VARY FROM CONTOURS SHOWN BASED ON FIELD CONDITIONS.
- FINAL REGRADED SURFACE TO PROVIDE POSITIVE DRAINAGE TO MINE SITE OUTLET CHANNEL NORTH OF MINE BOUNDARY.

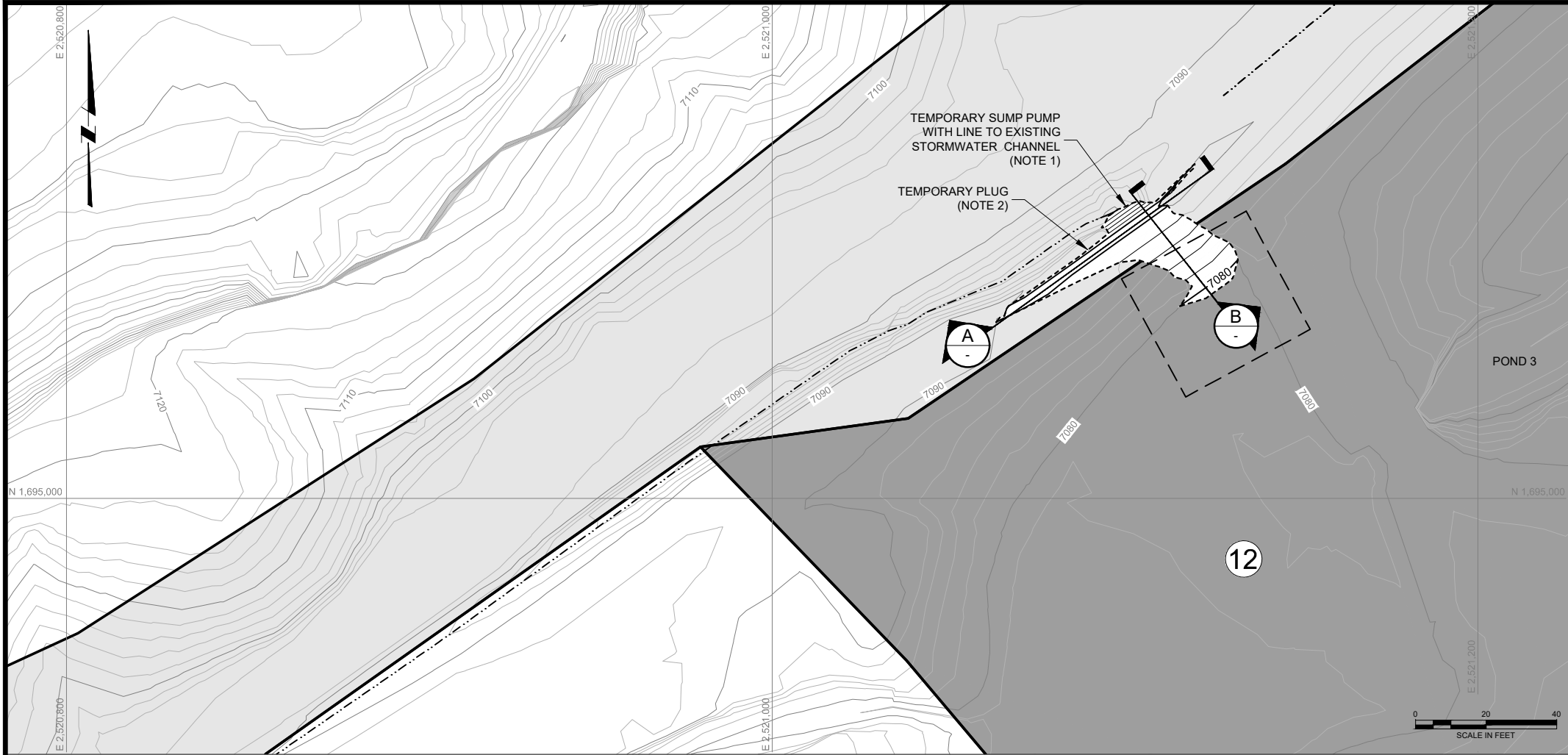
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
FINAL GRADING

SHEET
3-11
233001048

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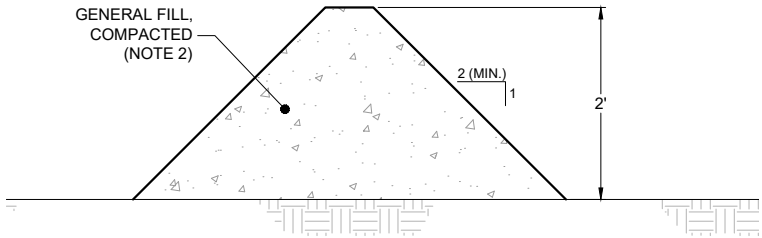


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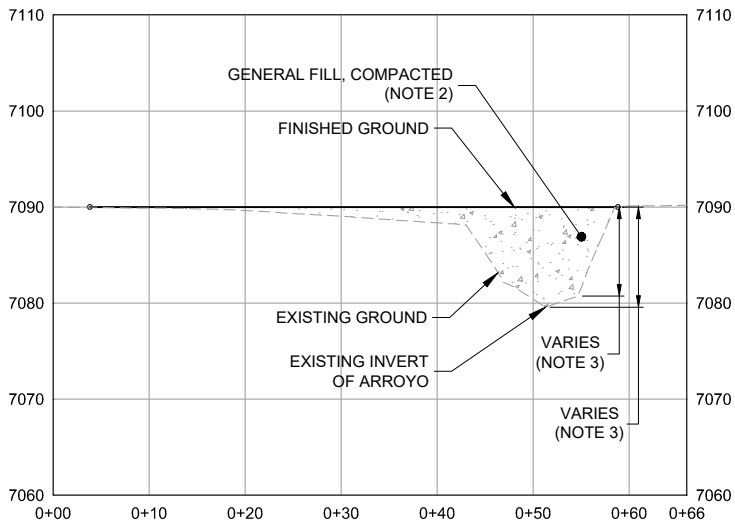
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- REMOVAL COMPLETE
- IMPACTED AREAS
- EXISTING STORMWATER CHANNEL
- PONDING EXTENT BOUNDARY

NOTE(S):

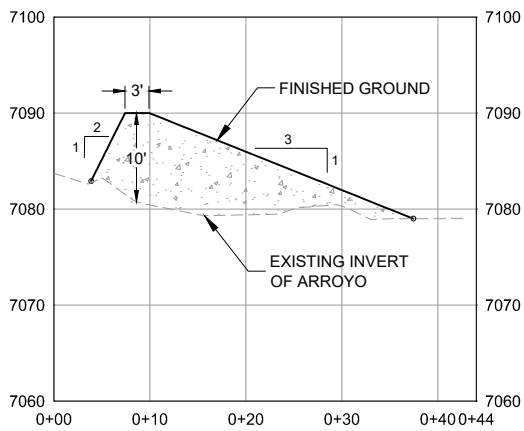
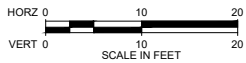
- 50 GPM SUMP PUMP IS REQUIRED TO REMOVE STORMWATER THAT COLLECTS IN EXISTING ARROYO BEHIND EARTHEN PLUG. TO BE PROVIDED BY CONTRACTOR. REMOVED STORMWATER CAN BE RELEASED TO THE EXISTING STORMWATER CHANNEL THAT BYPASSES POND 3 TO THE NORTHEAST.
- PLUG AND TYPICAL BERM CONSTRUCTED WITH AVAILABLE ONSITE, CLEAN SOIL COMPACTED IN 2-FT LIFTS TO 95% OF STANDARD PROCTOR DENSITY.
- CONSTRUCT PLUG HEIGHT TO BE LEVEL WITH GROUND SURFACE.



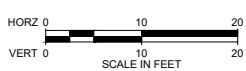
1 TEMPORARY PLUG
3-12 (SEE SHEET 3-07 FOR LOCATION)



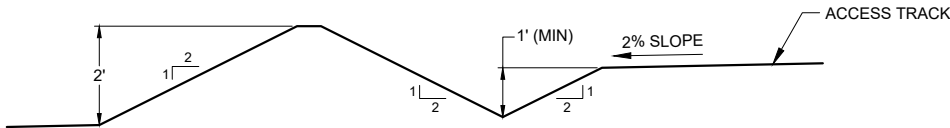
A TEMPORARY PLUG SECTION A



B TEMPORARY PLUG SECTION B



2 TEMPORARY DIVERSION BERM DETAIL
3-12 (NOT TO SCALE)



3 TEMPORARY CONSTRUCTION ACCESS TRACK SECTION
3-12 (NOT TO SCALE)

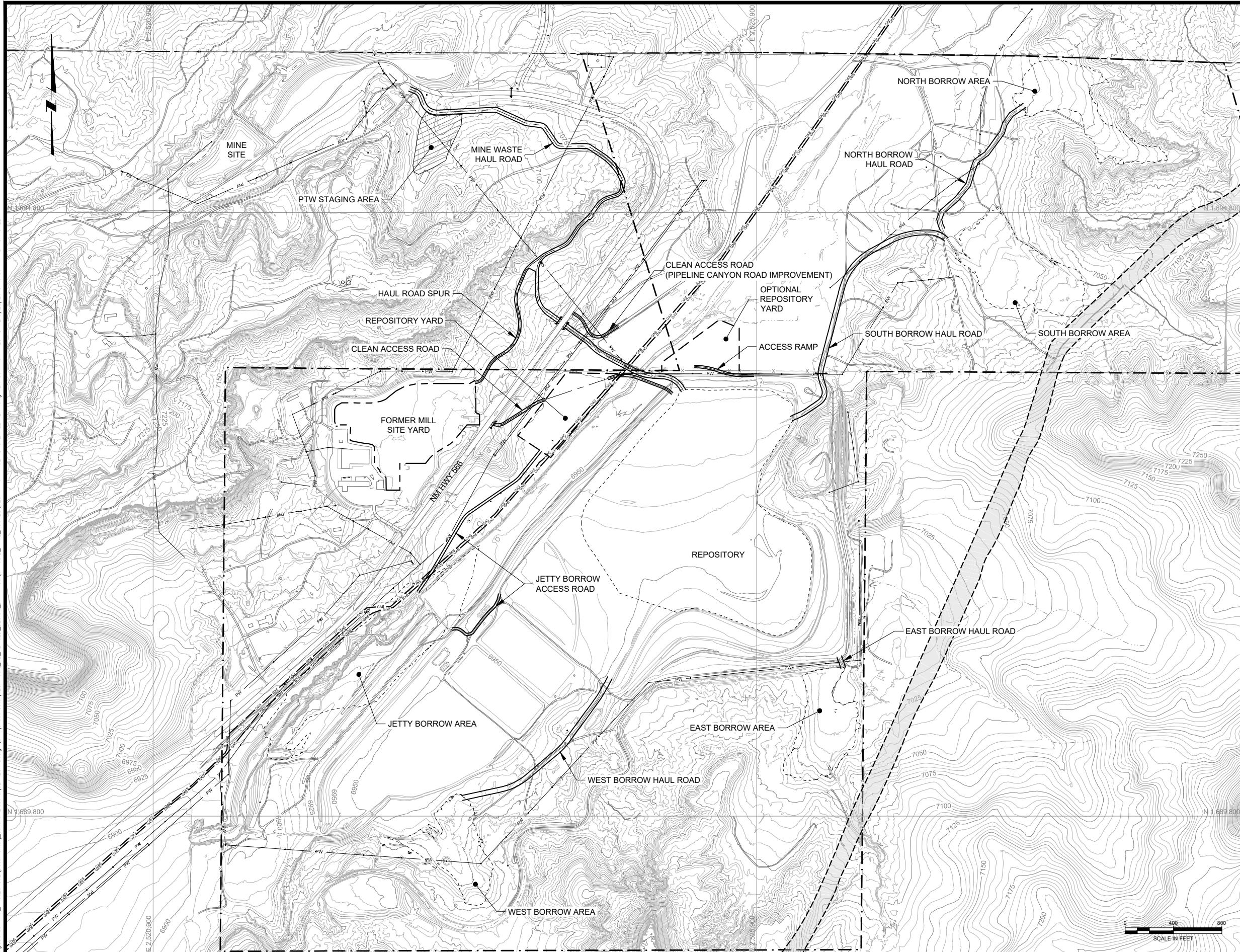
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B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED _J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE SITE REMOVAL EXCAVATIONS AND DEMOLITION
TEMPORARY PLUG CROSS SECTIONS AND TYPICAL BERM DETAIL

SHEET
3-12
233001048

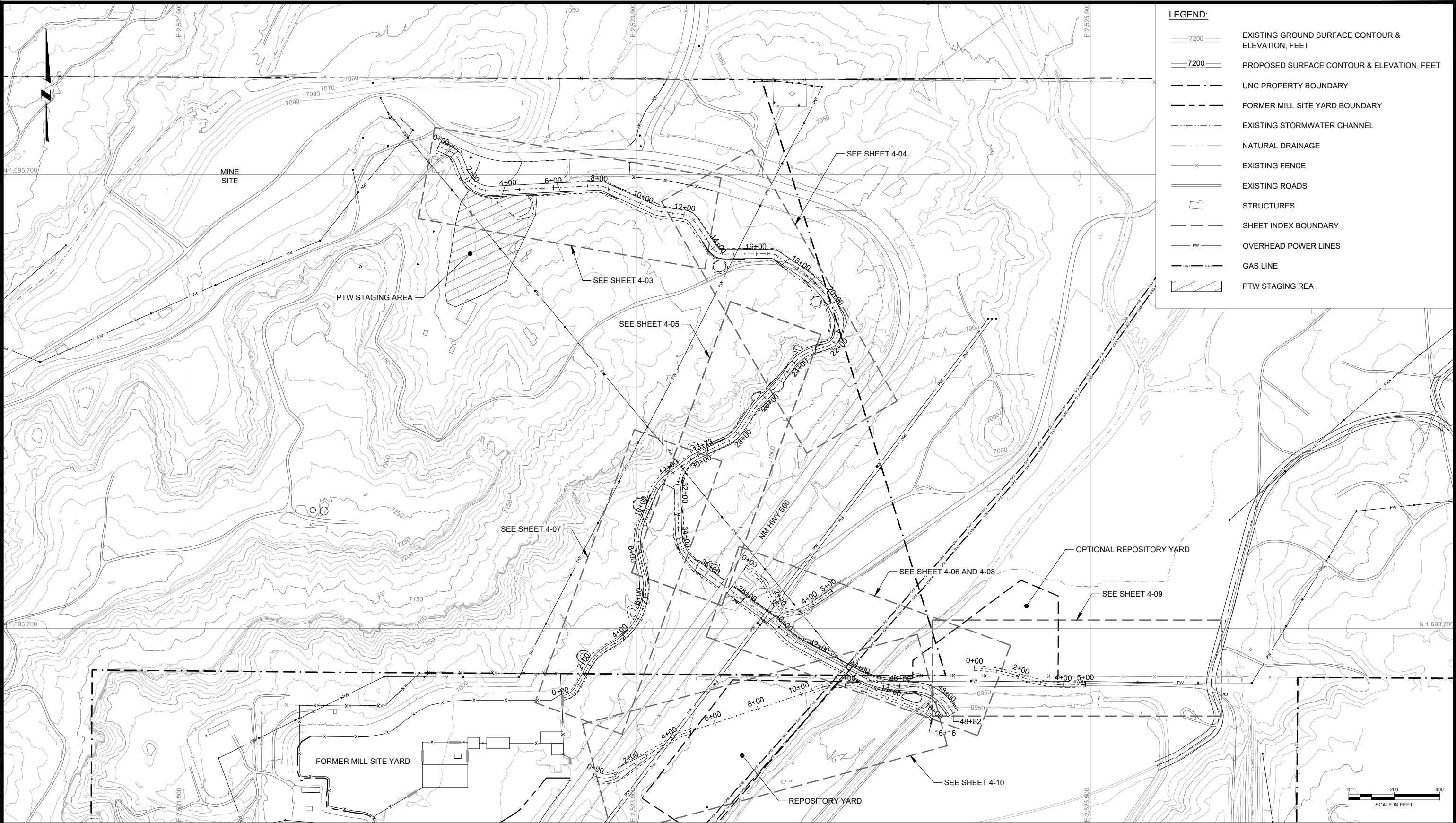
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- LEGEND:
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED FINAL SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - FORMER MILL SITE YARD BOUNDARY
 - OVERHEAD POWER LINES
 - EXISTING FENCE
 - EXISTING ROADS
 - EXISTING STORMWATER CHANNELS
 - NATURAL DRAINAGE
 - GAS LINE
 - GAS LINE CORRIDOR
 - STRUCTURES
 - PTW STAGING AREA
 - GATE

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED	<div>Stantec</div> <div>UNC</div> <div>GE</div>	UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE	SHEET
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN				MCKINLEY COUNTY, NEW MEXICO	4-01
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED	J COLEMAN			
A	07/15/16	KR	ISSUED FOR 30% DESIGN				NORTHEAST CHURCH ROCK PROJECT 95% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED	J CUMBERS		HAUL ROAD OVERALL PLAN	233001048

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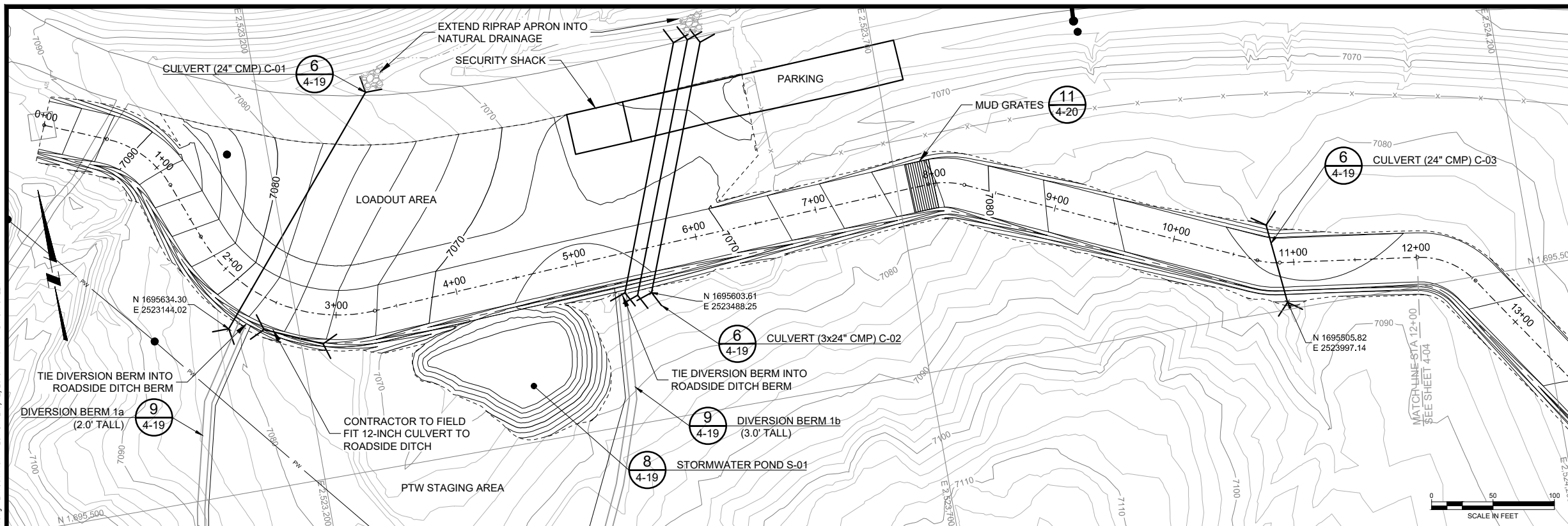
D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	K REED
CHECKED	J COLEMAN
APPROVED	J CUMBERS

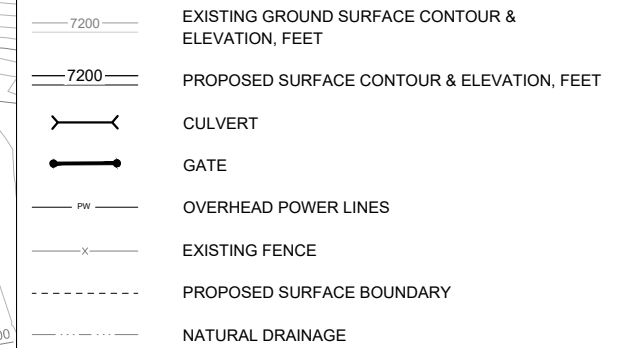


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
HAUL ROAD PLAN INDEX

SHEET
4-02
233001048



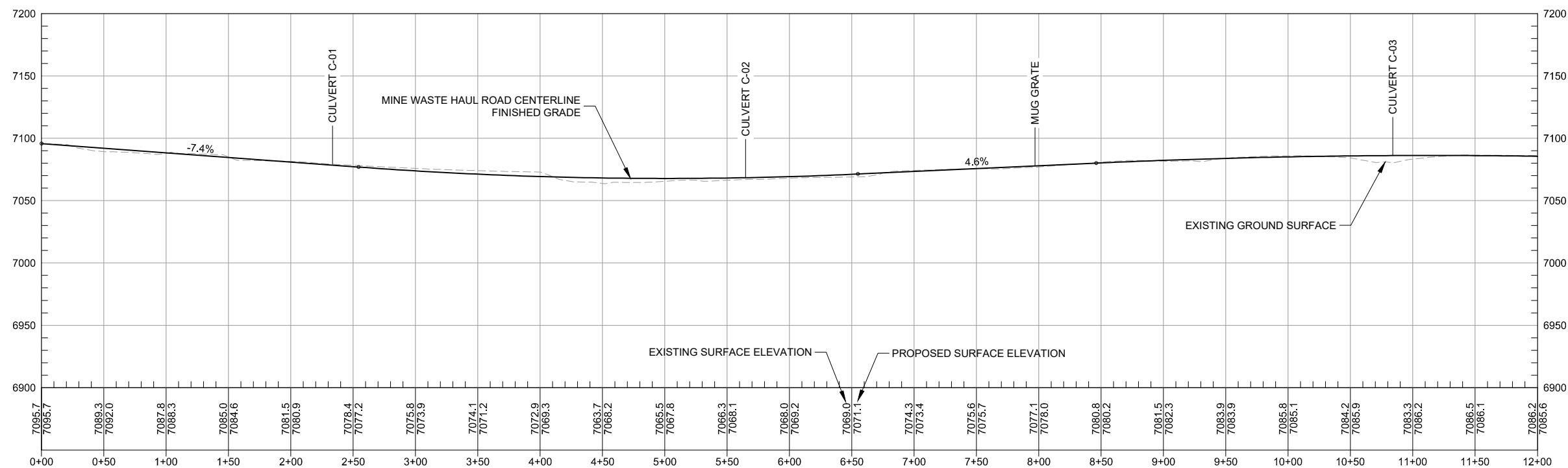
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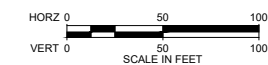
NOTE(S):

1. TYPICAL ROAD SECTIONS ARE SHOWN ON DETAILS 1 AND 2 ON SHEET 4-18.
- A. 2-LANE SECTION: STA 0+00 TO 21+00
 - B. TRANSITION: STA 21+00 TO 22+00
 - C. 1-LANE SECTION: STA 22+00 TO 35+00
 - D. TRANSITION: STA 35+00 TO 35+50
 - E. 2-LANE SECTION: STA 35+50 TO 48+82

MINE WASTE HAUL ROAD PLAN VIEW



MINE WASTE HAUL ROAD PROFILE



D	09/24/18	KR	ISSUED FOR LAR	DESIGNED <u>K REED</u>
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED <u>J COLEMAN</u>
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED <u>J CUMBERS</u>

DESIGNED K REED

CHECKED J COLEMAN

APPROVED J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO

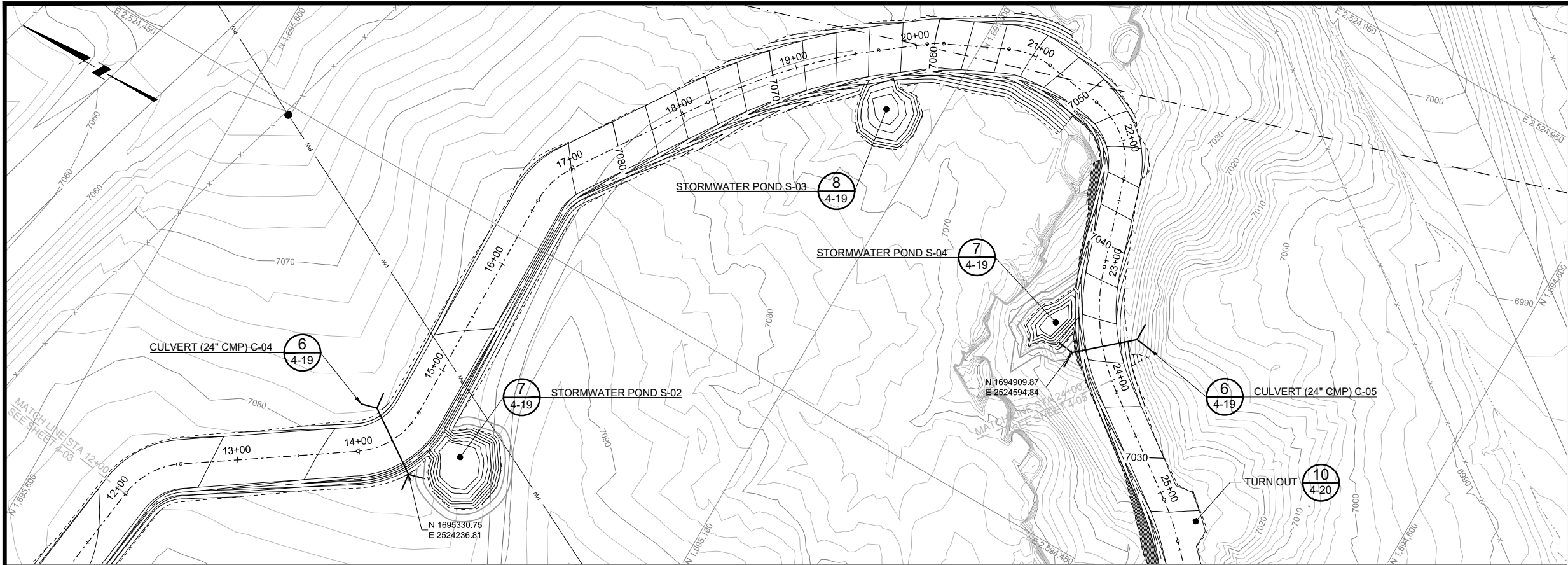
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD PLAN AND PROFILE (1 OF 4)

SHEET

-03

001048

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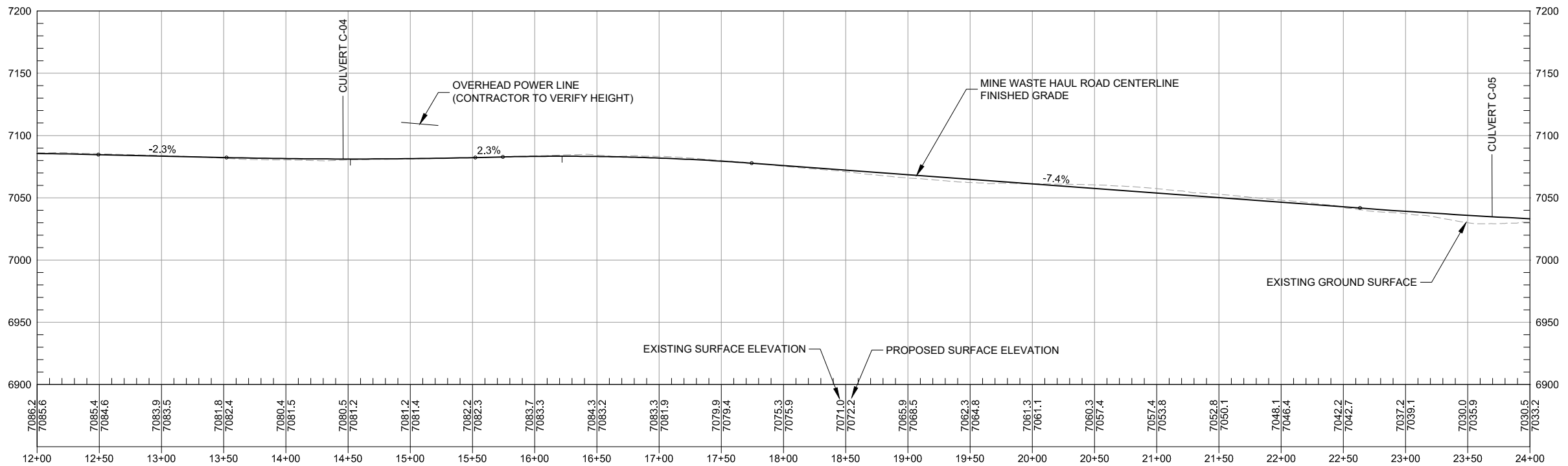
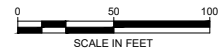
LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- CULVERT
- GATE
- OVERHEAD POWER LINES
- UNC PROPERTY BOUNDARY
- EXISTING FENCE
- PROPOSED SURFACE BOUNDARY
- NATURAL DRAINAGE

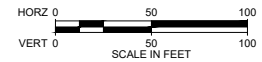
NOTE(S):

- TYPICAL ROAD SECTIONS ARE SHOWN ON DETAILS 1 AND 2 ON SHEET 4-18.
 - 2-LANE SECTION: STA 0+00 TO 21+00
 - TRANSITION: STA 21+00 TO 22+00
 - 1-LANE SECTION: STA 22+00 TO 35+00
 - TRANSITION: STA 35+00 TO 35+50
 - 2-LANE SECTION: STA 35+50 TO 48+82

MINE WASTE HAUL ROAD PLAN VIEW
STATION 12+00 TO 24+00



MINE WASTE HAUL ROAD PROFILE
STATION 12+00 TO 24+00



D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	K REED
CHECKED	J COLEMAN
APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

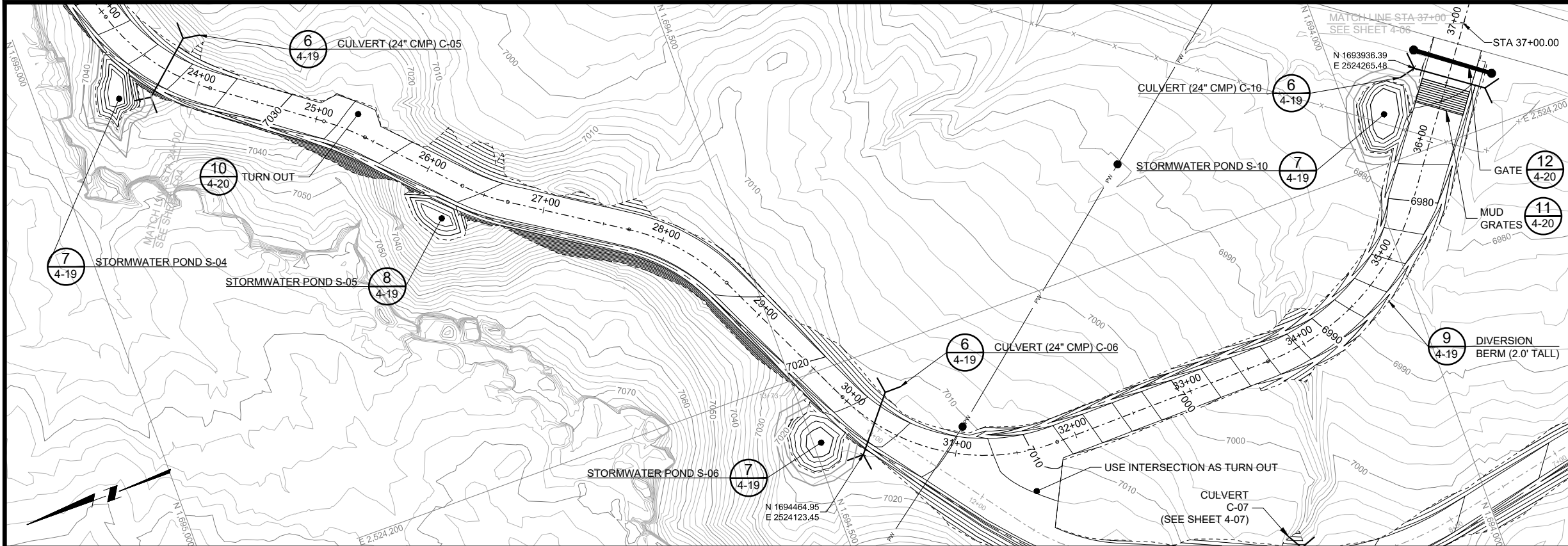
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD PLAN AND PROFILE (2 OF 4)

SHEET

4-04

233001048

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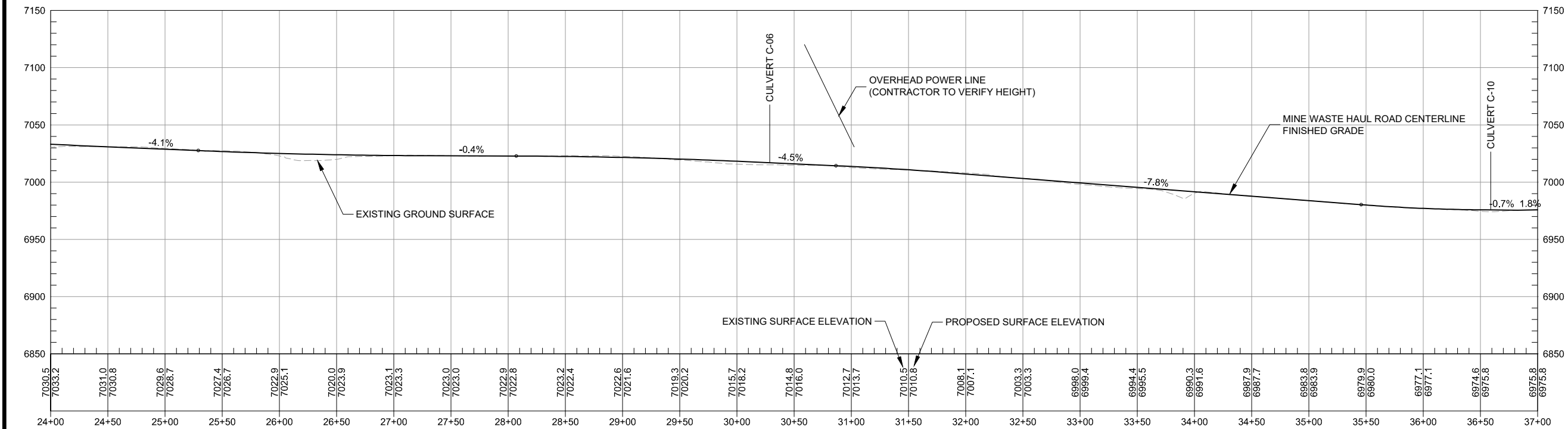


LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- CULVERT
- GATE
- OVERHEAD POWER LINES
- EXISTING FENCE
- PROPOSED SURFACE BOUNDARY
- NATURAL DRAINAGE

- NOTE(S):**
- TYPICAL ROAD SECTIONS ARE SHOWN ON DETAILS 1 AND 2 ON SHEET 4-18.
 - 2-LANE SECTION: STA 0+00 TO 21+00
 - TRANSITION: STA 21+00 TO 22+00
 - 1-LANE SECTION: STA 22+00 TO 35+00
 - TRANSITION: STA 35+00 TO 35+50
 - 2-LANE SECTION: STA 35+50 TO 48+82

MINE WASTE HAUL ROAD PLAN VIEW
STATION 24+00 TO 37+00

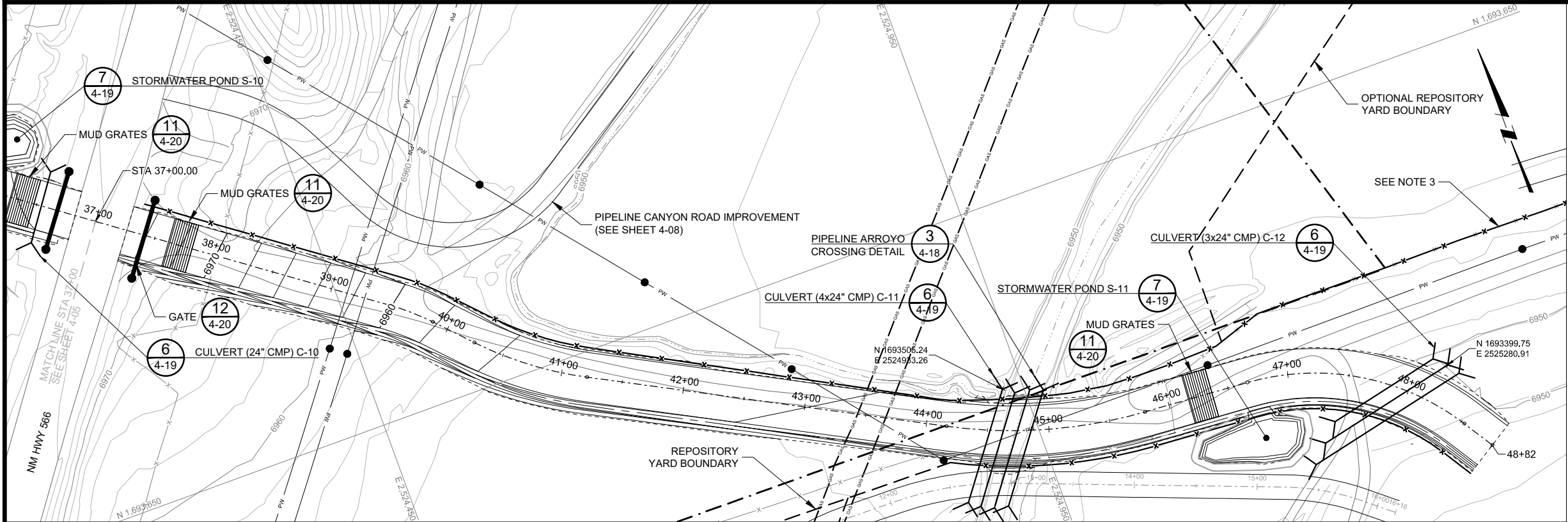


MINE WASTE HAUL ROAD PROFILE
STATION 24+00 TO 37+00

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	J COLEMAN
B	10/30/17	KR	ISSUED FOR 95% DESIGN		
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED	J CUMBERS
REV	DATE	BY	DESCRIPTION		



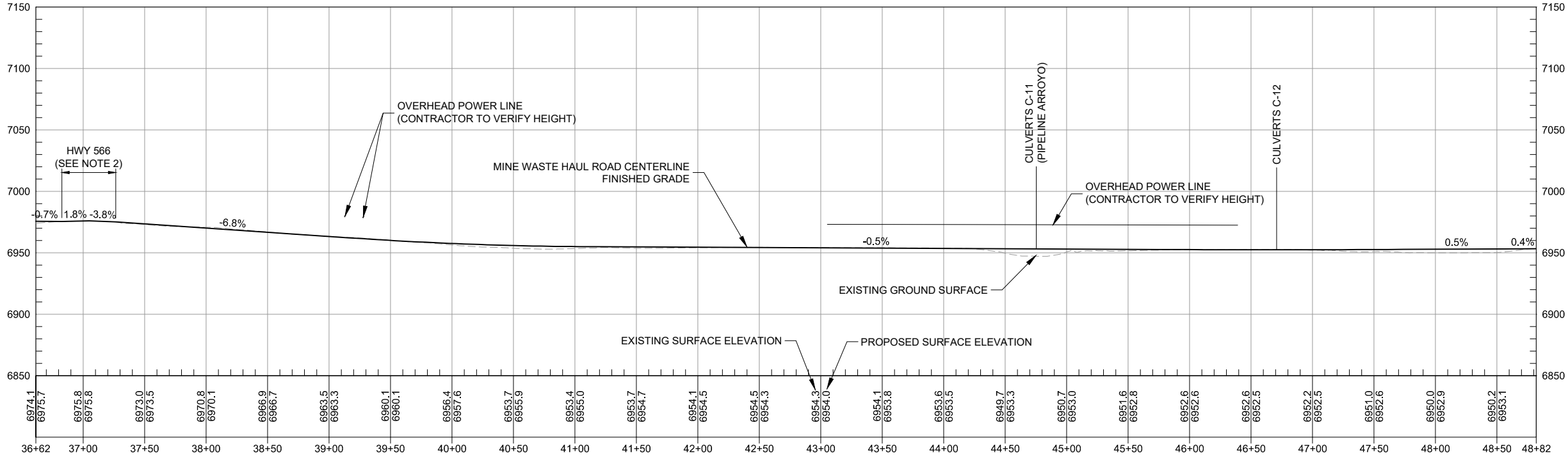
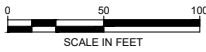
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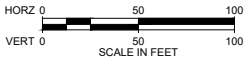
- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - 7200 PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - CULVERT
 - GATE
 - PW OVERHEAD POWER LINES
 - UNC PROPERTY BOUNDARY
 - EXISTING FENCE
 - NEW SEPARATION FENCE
 - PROPOSED SURFACE BOUNDARY
 - NATURAL DRAINAGE
 - GAS LINE

- NOTE(S):**
- TYPICAL ROAD SECTIONS ARE SHOWN ON DETAILS 1 AND 2 ON SHEET 4-18.
 - A. 2-LANE SECTION: STA 0+00 TO 21+00
 - B. TRANSITION: STA 21+00 TO 22+00
 - C. 1-LANE SECTION: STA 22+00 TO 35+00
 - D. TRANSITION: STA 35+00 TO 35+50
 - E. 2-LANE SECTION: STA 35+50 TO 48+82
 - FIELD FIT HAUL ROAD GRADE AT HWY 566 TO MATCH PAVEMENT ELEVATION.
 - CONTRACTOR TO MATCH EXISTING FENCE (SEE SPECIFICATIONS).

MINE WASTE HAUL ROAD PLAN VIEW
STATION 37+00 TO 48+89



MINE WASTE HAUL ROAD PROFILE
STATION 37+77 TO 48+89



D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR 95% REVISED DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

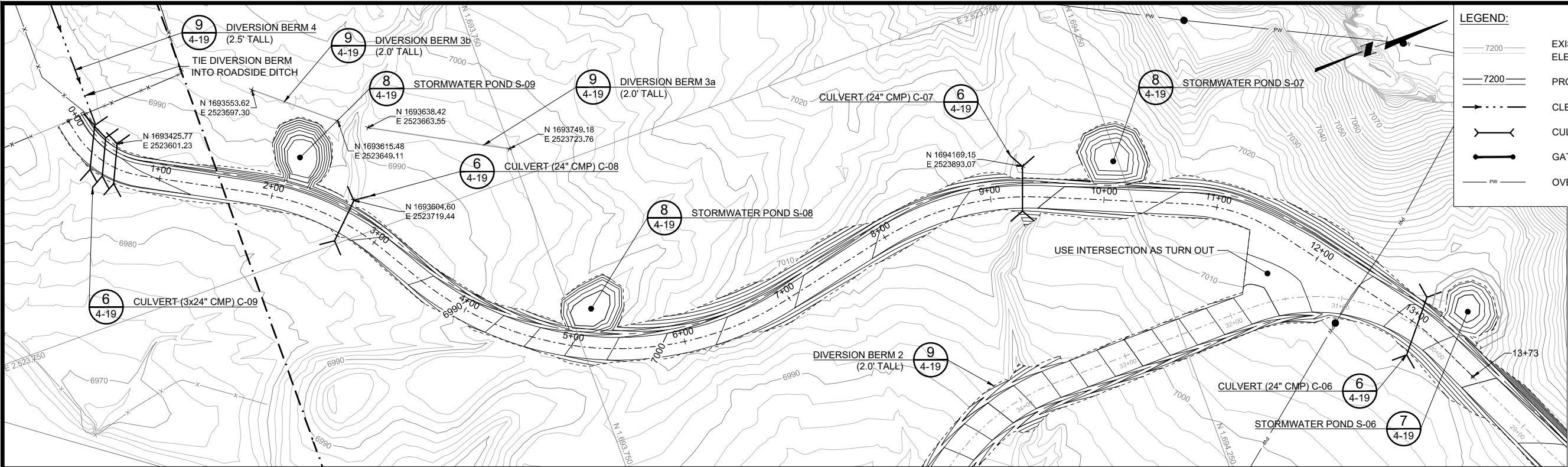
DESIGNED K REED
CHECKED J COLEMAN
APPROVED J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD PLAN AND PROFILE (4 OF 4)

SHEET
4-06
233001048

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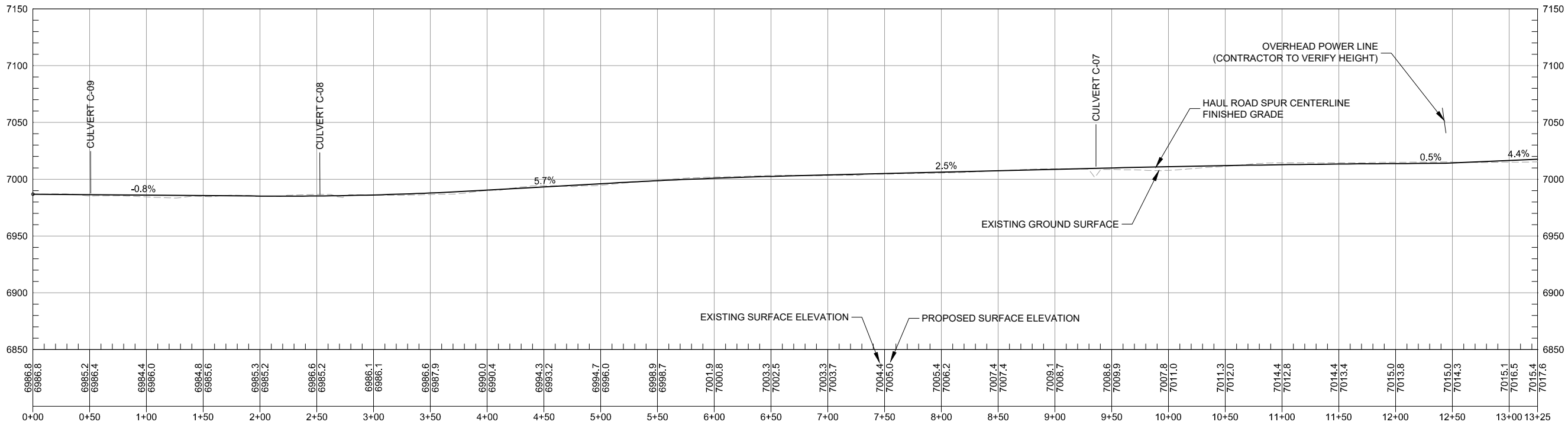
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- CLEAN STORMWATER DIVERSION DITCH
- CULVERT
- GATE
- OVERHEAD POWER LINES

- UNC PROPERTY BOUNDARY
- EXISTING FENCE
- NEW SEPARATION FENCE
- PROPOSED SURFACE BOUNDARY
- NATURAL DRAINAGE

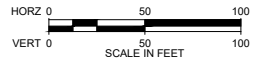
NOTE(S):

- TYPICAL ROAD SECTIONS ARE SHOWN ON DETAILS 1 AND 2 ON SHEET 4-18.
A. 1-LANE SECTION: STA 0+00 TO 13+00

HAUL ROAD SPUR PLAN VIEW
STATION 0+00 TO 13+09



HAUL ROAD SPUR PROFILE
STATION 0+00 TO 13+09



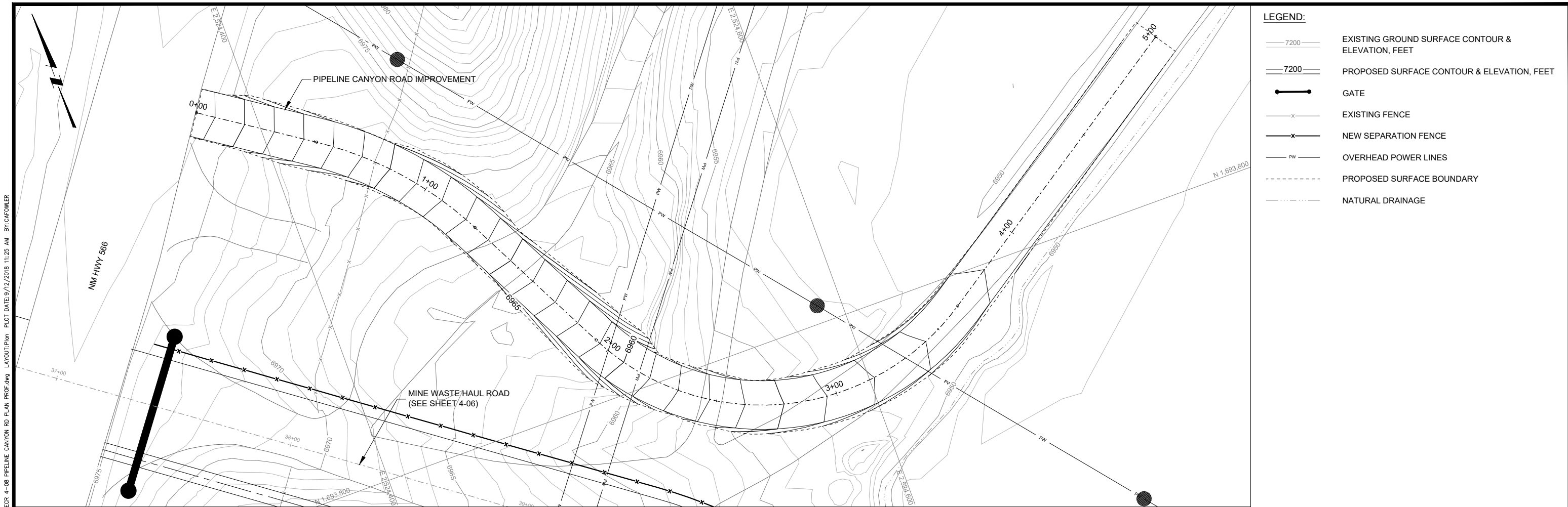
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C	04/09/18	KR	ISSUED FOR 95% REVISED DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED _K REED
CHECKED _J COLEMAN
APPROVED _J CUMBERS

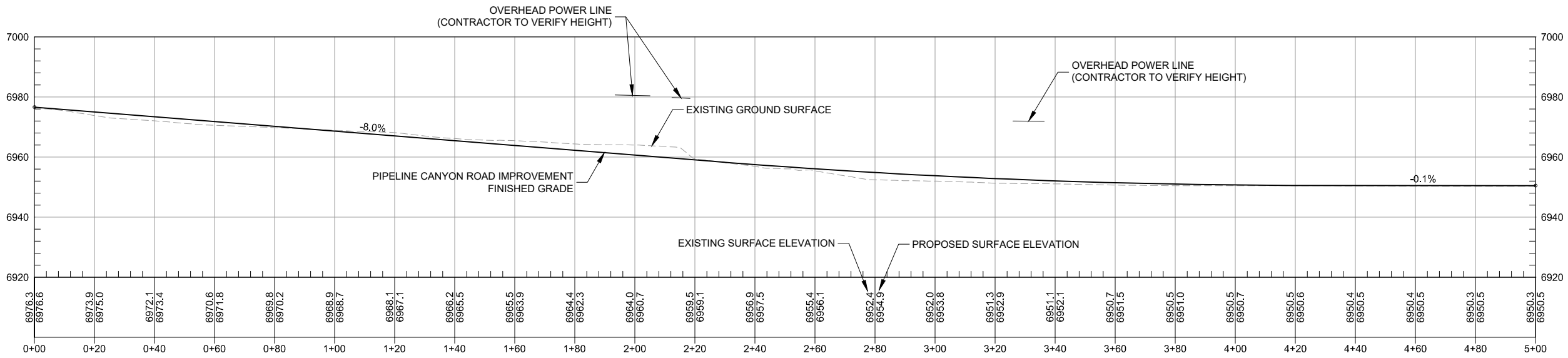


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD SPUR PLAN AND PROFILE

SHEET
4-07
233001048



PIPELINE CANYON ROAD IMPROVEMENT PLAN VIEW
STATION 0+00 TO 5+00



PIPELINE CANYON ROAD IMPROVEMENT PROFILE
STATION 0+00 TO 5+00

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

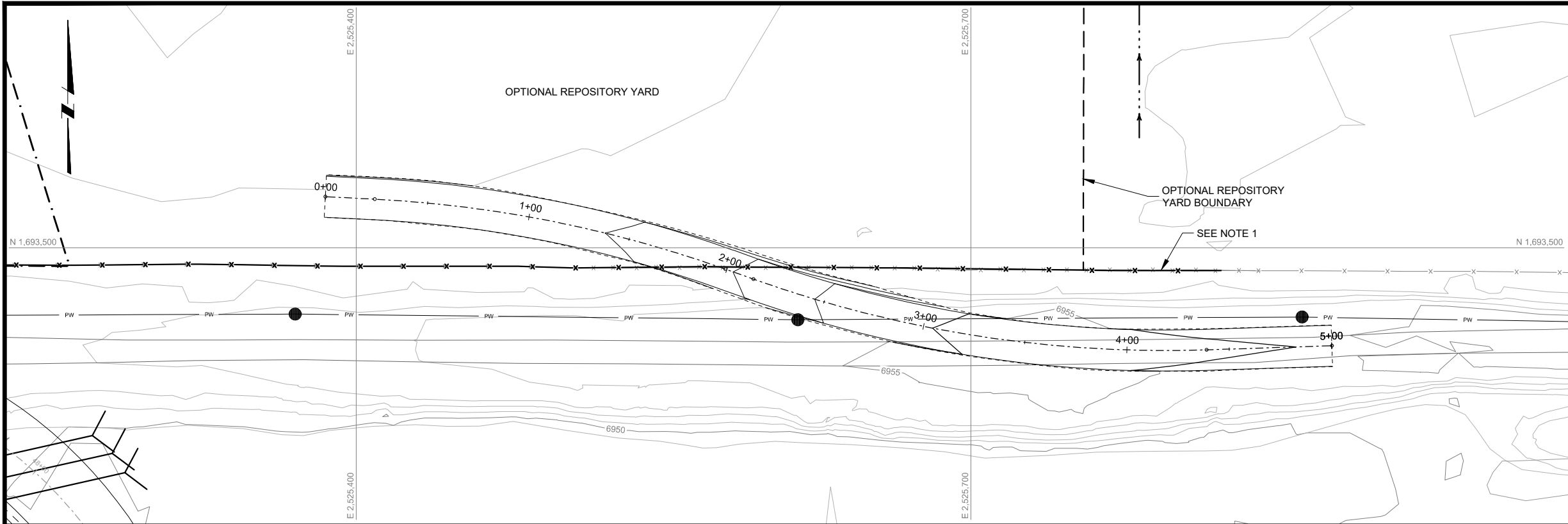
DESIGNED _K REED
CHECKED _J COLEMAN
APPROVED _J CUMBERS



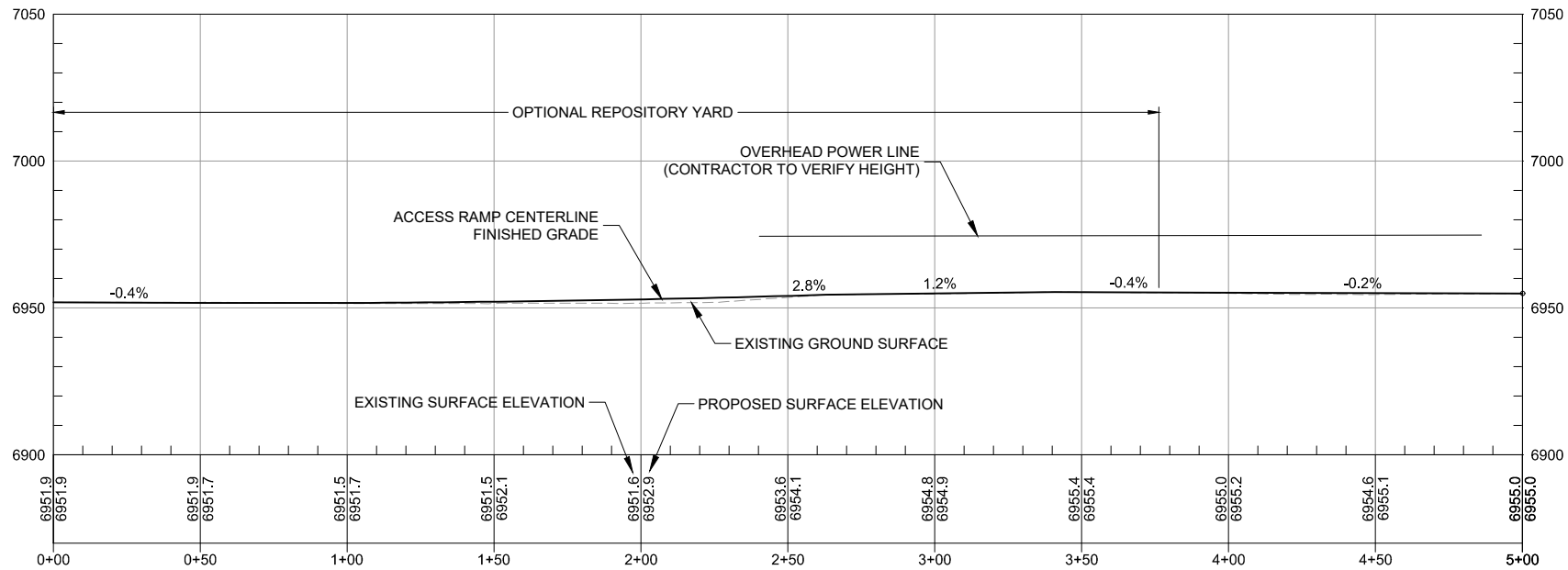
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
CLEAN ACCESS ROAD PLAN AND PROFILE

SHEET
4-08
233001048

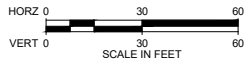
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ACCESS RAMP PLAN VIEW
STATION 0+00 TO 5+00



ACCESS RAMP PROFILE
STATION 0+00 TO 5+00



LEGEND:

- 7200 — EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- 7200 — PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- x — EXISTING FENCE
- x — NEW SEPARATION FENCE
- - - - DITCH
- PW — OVERHEAD POWER LINES
- - - - UNC PROPERTY BOUNDARY

NOTE:

1. CONTRACTOR TO MATCH EXISTING FENCE. (SEE SPECIFICATIONS)

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

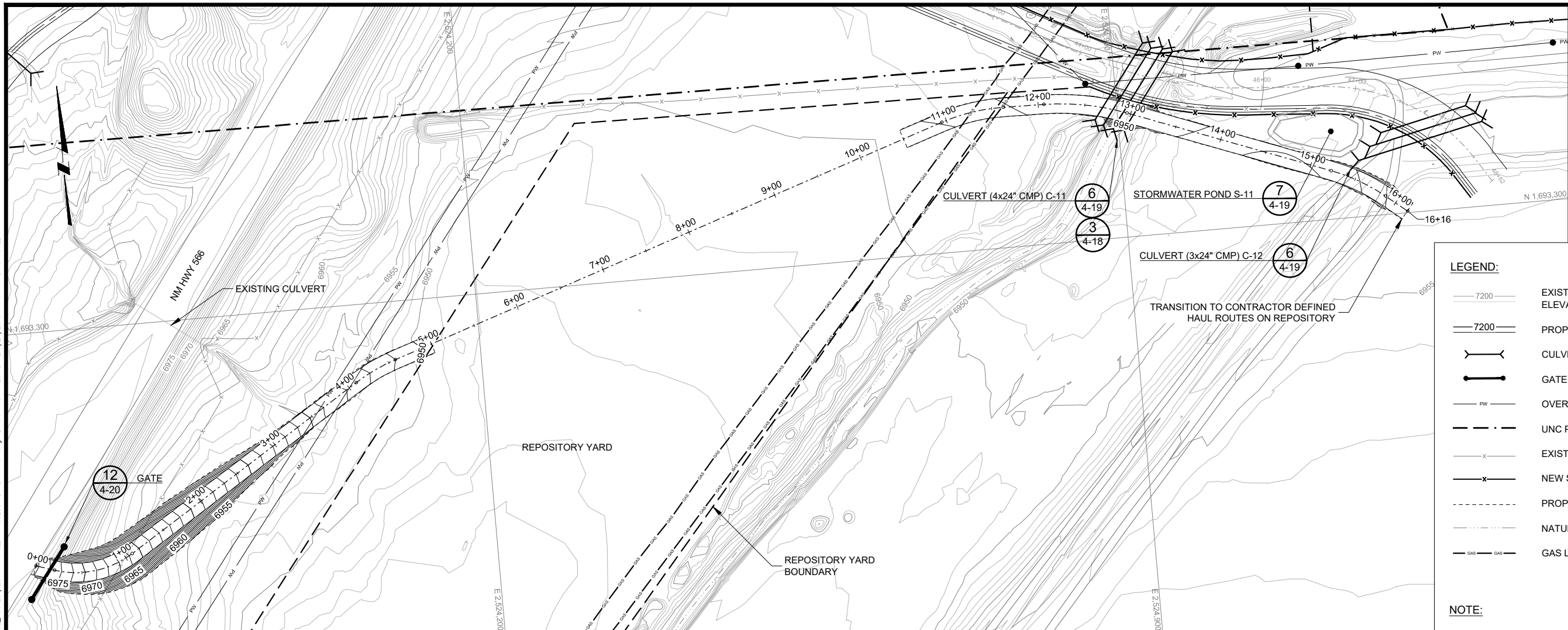
DESIGNED _K REED
CHECKED _J COLEMAN
APPROVED _J CUMBERS



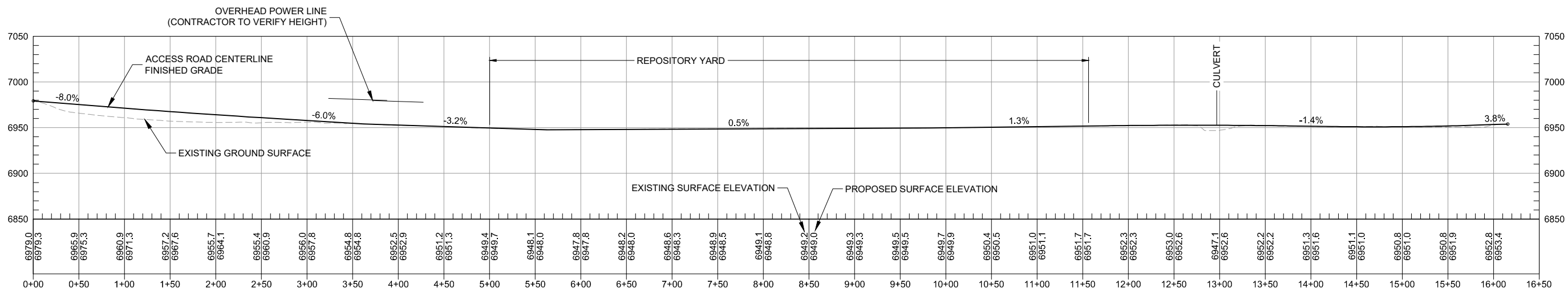
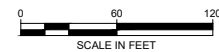
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
CLEAN ACCESS RAMP PLAN AND PROFILE

SHEET
4-09
233001048

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CLEAN ACCESS ROAD PLAN VIEW
STATION 0+00 TO 16+16



CLEAN ACCESS ROAD PROFILE
STATION 0+00 TO 16+16

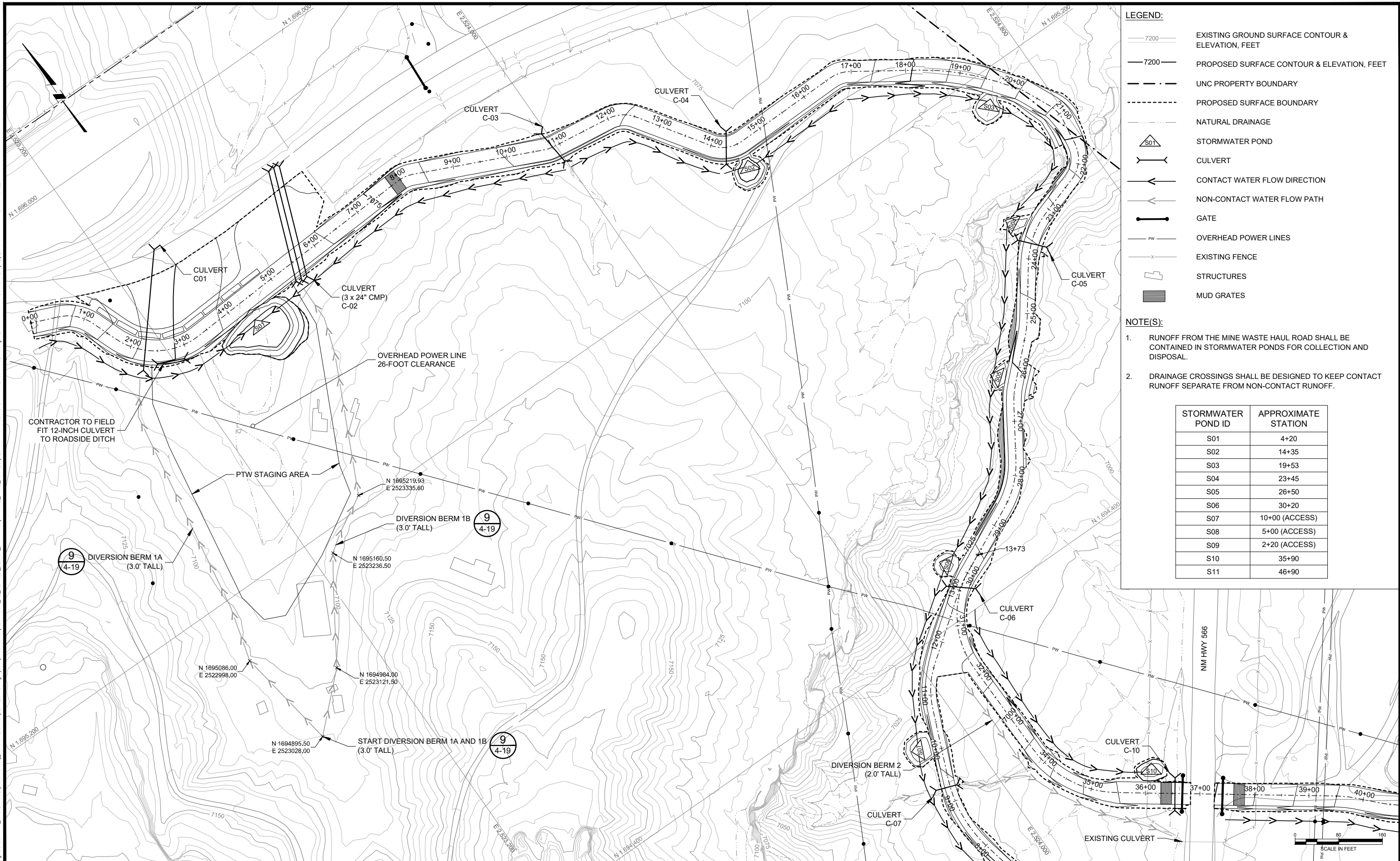
D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	_K REED
CHECKED	_J COLEMAN
APPROVED	_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY YARD CLEAN ACCESS ROAD PLAN AND PROFILE

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LEGEND:

- 7200 — EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- 7200 — PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- - - - - UNC PROPERTY BOUNDARY
- - - - - PROPOSED SURFACE BOUNDARY
- - - - - NATURAL DRAINAGE
- △ S01 STORMWATER POND
- |—|— CULVERT
- |—|— CONTACT WATER FLOW DIRECTION
- |—|— NON-CONTACT WATER FLOW PATH
- |—|— GATE
- |—|— OVERHEAD POWER LINES
- |—|— EXISTING FENCE
- |—|— STRUCTURES
- |—|— MUD GRATES

NOTE(S):

- RUNOFF FROM THE MINE WASTE HAUL ROAD SHALL BE CONTAINED IN STORMWATER PONDS FOR COLLECTION AND DISPOSAL.
- DRAINAGE CROSSINGS SHALL BE DESIGNED TO KEEP CONTACT RUNOFF SEPARATE FROM NON-CONTACT RUNOFF.

STORMWATER POND ID	APPROXIMATE STATION
S01	4+20
S02	14+35
S03	19+53
S04	23+45
S05	26+50
S06	30+20
S07	10+00 (ACCESS)
S08	5+00 (ACCESS)
S09	2+20 (ACCESS)
S10	35+90
S11	46+90

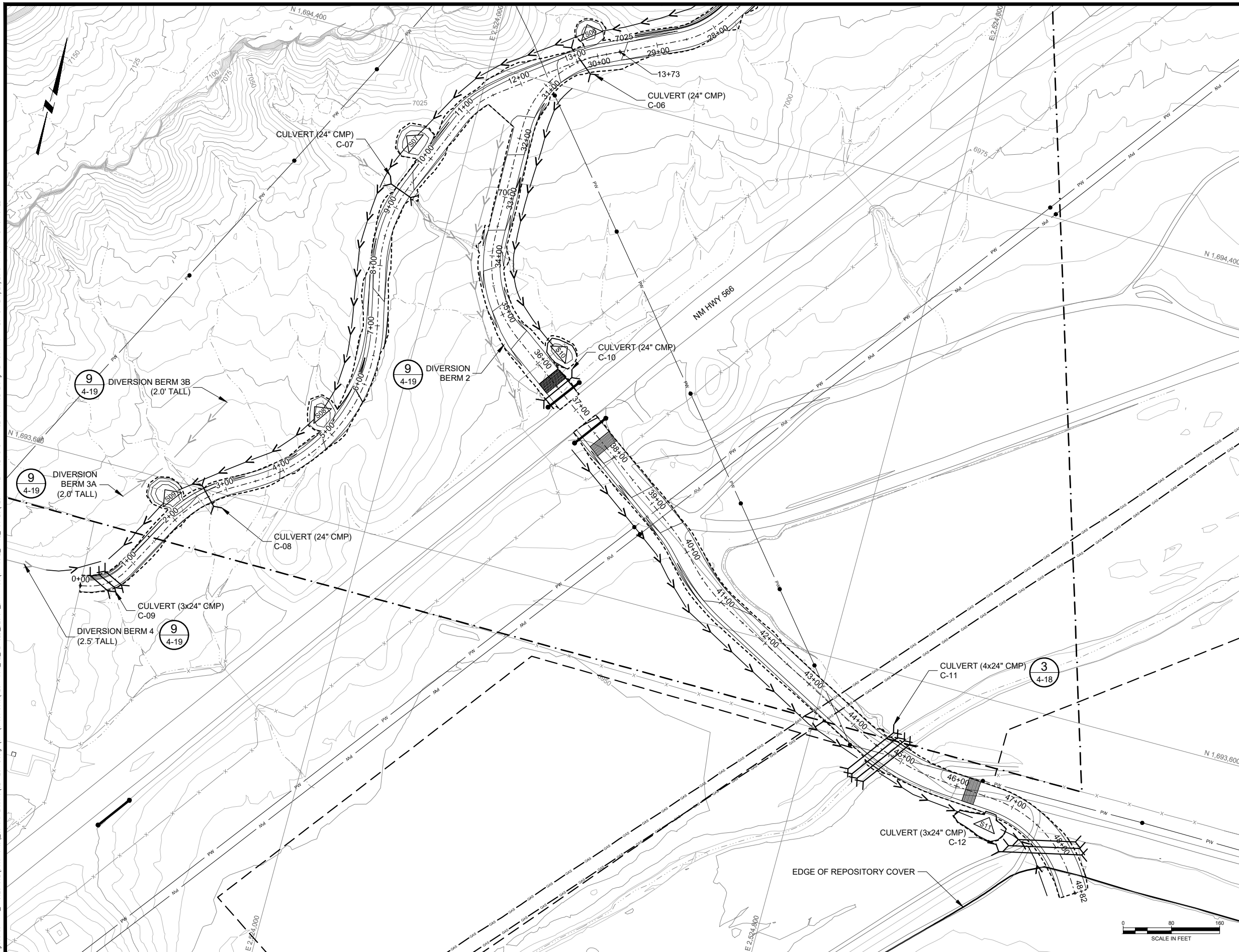
D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	J COLEMAN
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD DRAINAGE CONTROL PLAN (1 OF 2)

p:\mineview\103_mineglobal.com\AM_PROJECTS\202 Documents\General Electric (GE) NECR Design\Civil\Sheet Sets\NECR-95%_V2_REVISED_DESIGN_DRAWINGS\04-95.2_HAUL_ROUTES\NECR 4-12 HAUL RD DRAINAGE CONTROL-2.dwg LAYOUT:Plan PLOT DATE:9/20/2018 11:18 AM BY:CAROWLER



LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- PROPOSED SURFACE BOUNDARY
- EXISTING FENCE
- NEW SEPARATION FENCE
- NATURAL DRAINAGE
- STORMWATER POND
- CULVERT
- CONTACT WATER FLOW DIRECTION
- NON-CONTACT WATER FLOW PATH
- GATE
- OVERHEAD POWER LINES
- GAS LINE
- MUD GRATES

NOTE(S):

- RUNOFF FROM THE MINE WASTE HAUL ROAD SHALL BE CONTAINED IN STORMWATER PONDS FOR COLLECTION AND DISPOSAL.
- DRAINAGE CROSSINGS SHALL BE DESIGNED TO KEEP CONTACT RUNOFF SEPARATE FROM NON-CONTACT RUNOFF.

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	K REED
CHECKED	J COLEMAN
APPROVED	J CUMBERS

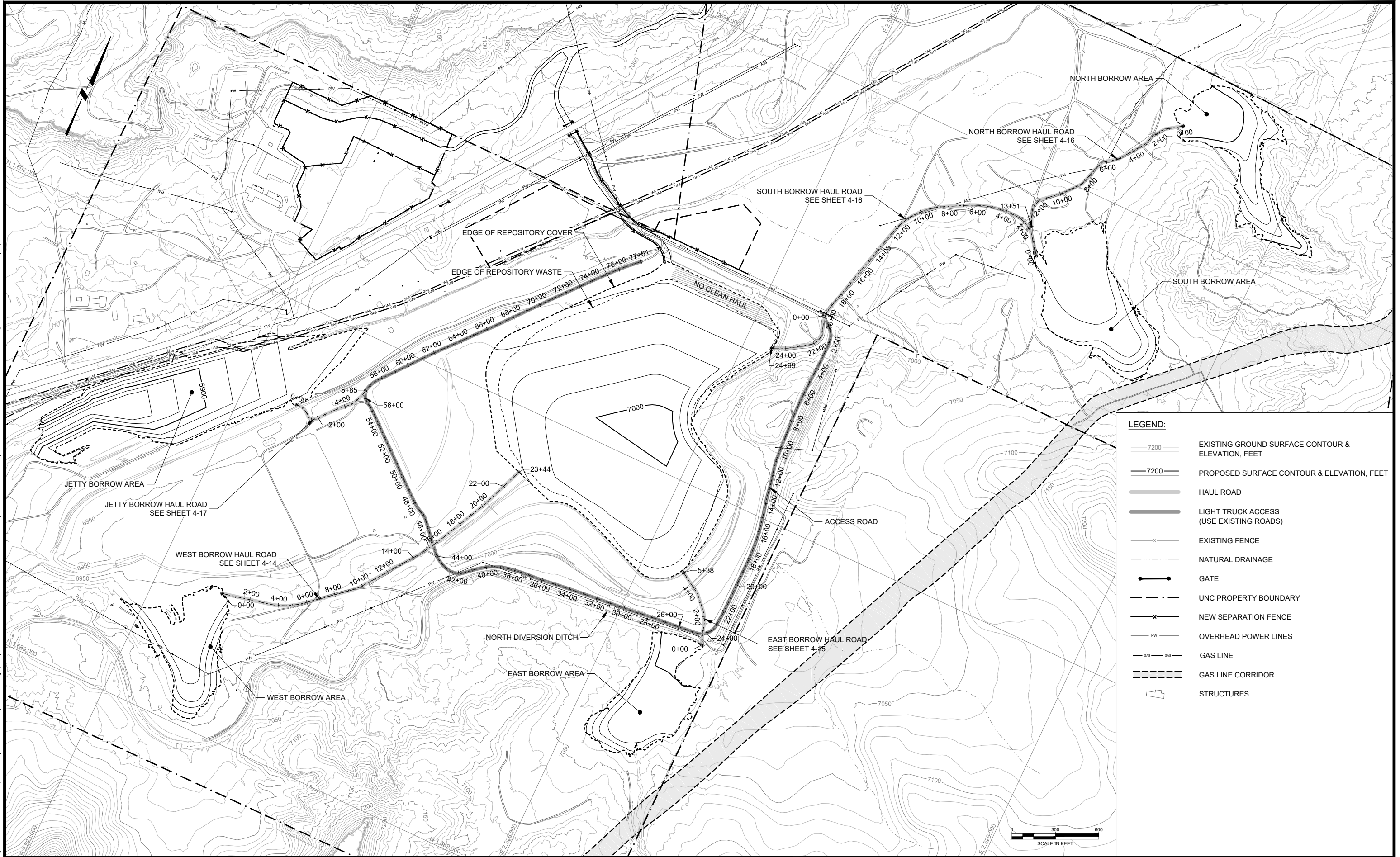


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MINE WASTE HAUL ROAD DRAINAGE CONTROL PLAN (2 OF 2)

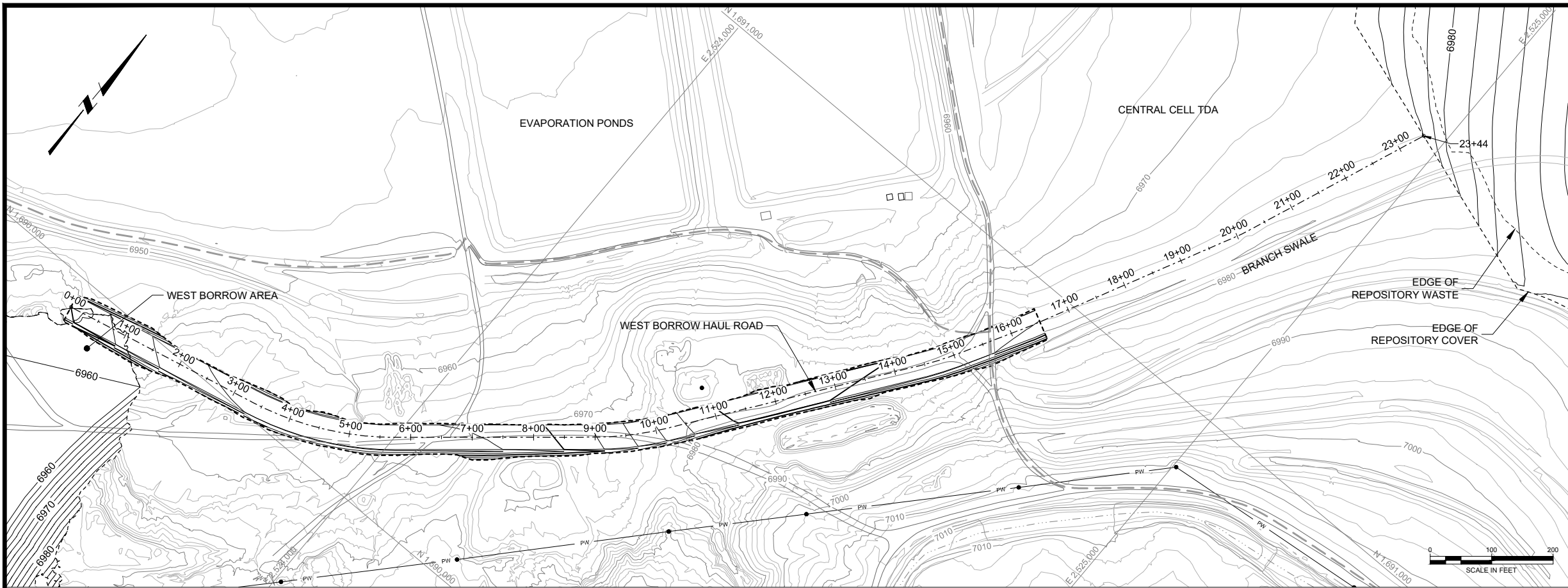
SHEET
4-12
233001048

p:\unreview\103.mh\global.com:AM_PROJECTS\202\Documents\General Electric GE_NECR_Design\Civil\Sheet Sets\NECR-95%_V2_REVISED_DESIGN_DRAWINGS\04-95.2_HAUL_ROUTES\NECR 4-13 BORROW HAUL RD PLAN AND INDEX.dwg PLOT DATE:9/20/2018 11:22 AM BY:CAFOMER



<table><tr><td>D</td><td>09/24/18</td><td>KR</td><td>ISSUED FOR LAR</td></tr><tr><td>C</td><td>04/09/18</td><td>KR</td><td>ISSUED FOR REVISED 95% DESIGN</td></tr><tr><td>B</td><td>10/30/17</td><td>KR</td><td>ISSUED FOR 95% DESIGN</td></tr><tr><td>A</td><td>07/15/16</td><td>KR</td><td>ISSUED FOR 30% DESIGN</td></tr><tr><td>REV</td><td>DATE</td><td>BY</td><td>DESCRIPTION</td></tr></table>				D	09/24/18	KR	ISSUED FOR LAR	C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	B	10/30/17	KR	ISSUED FOR 95% DESIGN	A	07/15/16	KR	ISSUED FOR 30% DESIGN	REV	DATE	BY	DESCRIPTION	<table><tr><td>DESIGNED</td><td>__K REED__</td></tr><tr><td>CHECKED</td><td>__J COLEMAN__</td></tr><tr><td>APPROVED</td><td>__J COLEMAN__</td></tr></table>	DESIGNED	__K REED__	CHECKED	__J COLEMAN__	APPROVED	__J COLEMAN__	<div></div> <div></div>	<div>UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE McKINLEY COUNTY, NEW MEXICO</div> <div>NORTHEAST CHURCH ROCK PROJECT 95% DESIGN BORROW HAUL ROADS</div>	<div>SHEET 4-13</div> <div>233001048</div>
D	09/24/18	KR	ISSUED FOR LAR																														
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN																														
B	10/30/17	KR	ISSUED FOR 95% DESIGN																														
A	07/15/16	KR	ISSUED FOR 30% DESIGN																														
REV	DATE	BY	DESCRIPTION																														
DESIGNED	__K REED__																																
CHECKED	__J COLEMAN__																																
APPROVED	__J COLEMAN__																																

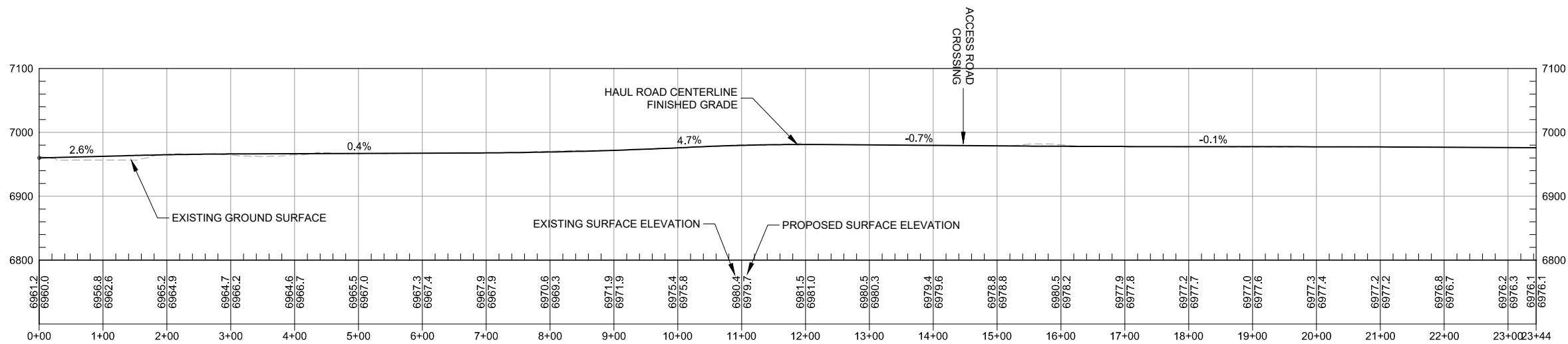
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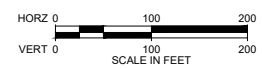
- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - LIMITS OF TAILINGS DISPOSAL AREA
 - OVERHEAD POWER LINES
 - NATURAL DRAINAGE

- NOTE(S):**
- BORROW HAUL ROUTES ON THE EXISTING TDA COVER TO BE DESIGNATED BY CONTRACTOR.
 - TDA COVER BENEATH DESIGNATED HAUL ROUTES SHALL BE RECONSTRUCTED UPON COMPLETION OF CONSTRUCTION TO MITIGATE DAMAGE FROM HAUL TRAFFIC.

WEST BORROW HAUL ROAD PLAN VIEW
STATION 0+00 TO 22+18



WEST BORROW HAUL ROAD PROFILE
STATION 0+00 TO 22+18

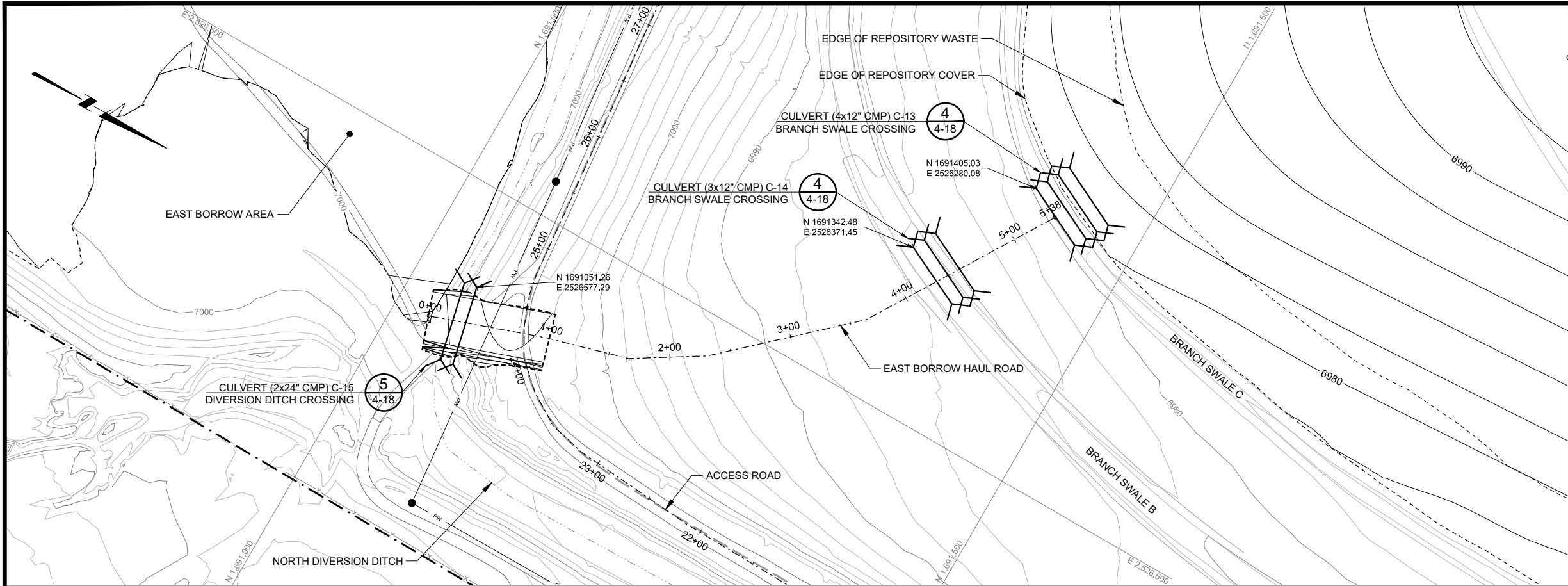


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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/18	KR	ISSUED FOR 95% DESIGN	CHECKED_J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
WEST BORROW HAUL ROAD PLAN AND PROFILE

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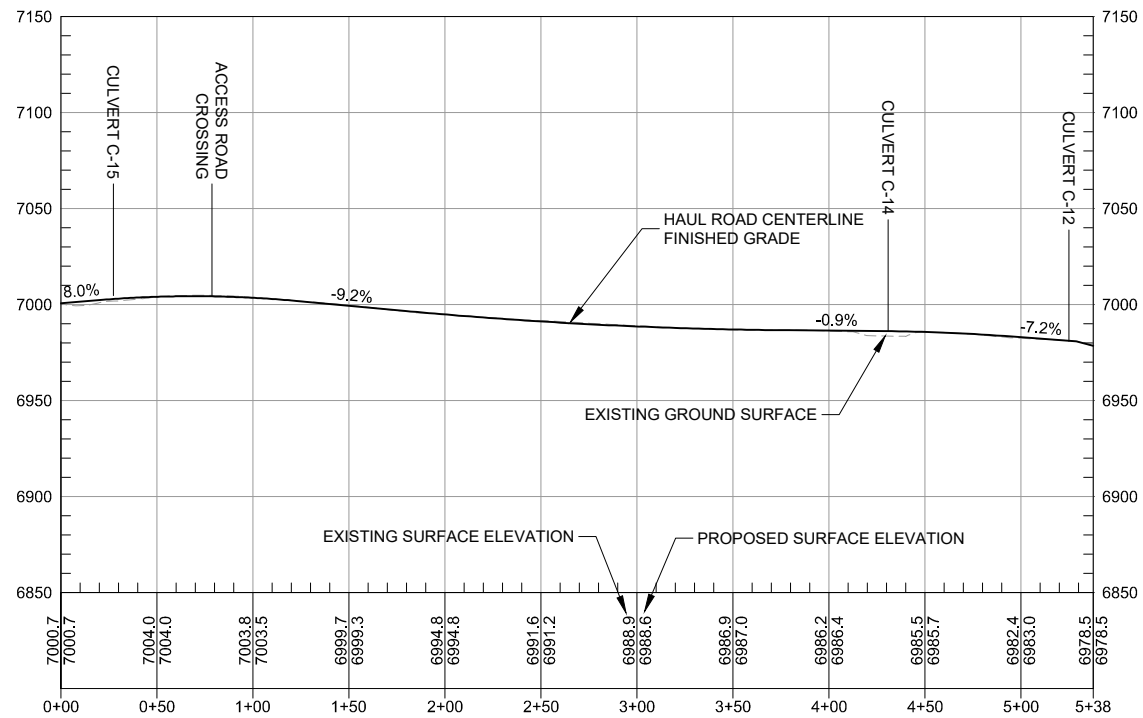
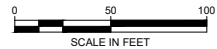
LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- LIMITS OF TAILINGS DISPOSAL AREA
- EXISTING FENCE
- OVERHEAD POWER LINES
- NATURAL DRAINAGE

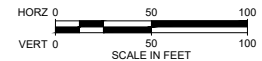
NOTE(S):

- BORROW HAUL ROUTES ON THE EXISTING TDA COVER TO BE DESIGNATED BY CONTRACTOR.
- TDA COVER BENEATH DESIGNATED HAUL ROUTES SHALL BE RECONSTRUCTED UPON COMPLETION OF CONSTRUCTION TO MITIGATE DAMAGE FROM HAUL TRAFFIC.
- BRANCH SWALE CULVERTS SIZED TO 12" CMP.

EAST BORROW HAUL ROAD PLAN VIEW
STATION 0+00 TO 5+38



EAST BORROW HAUL ROAD PROFILE
STATION 0+00 TO 5+38



D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED_J COLEMAN
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED_J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

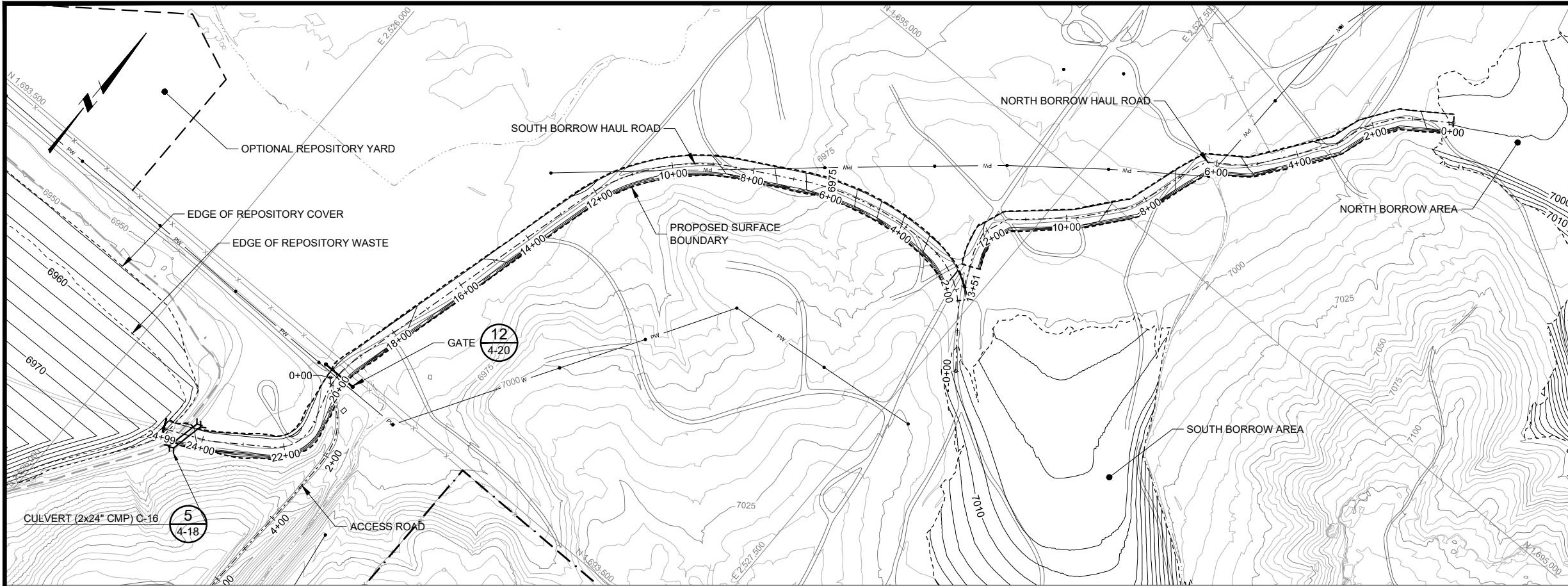
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
EAST BORROW HAUL ROAD PLAN AND PROFILE

SHEET

4-15

233001048

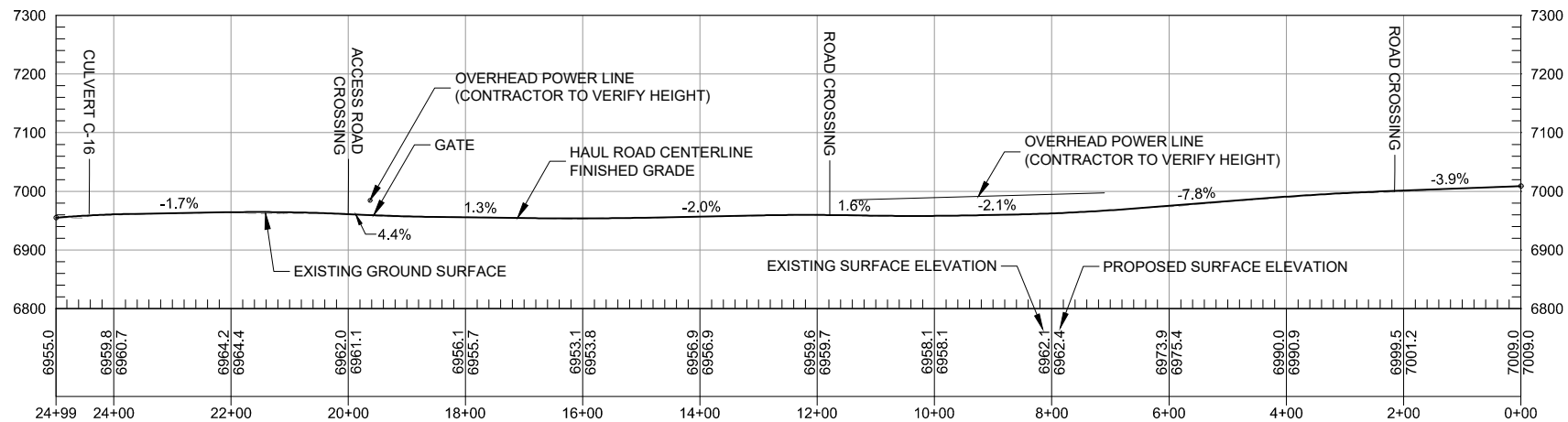
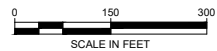
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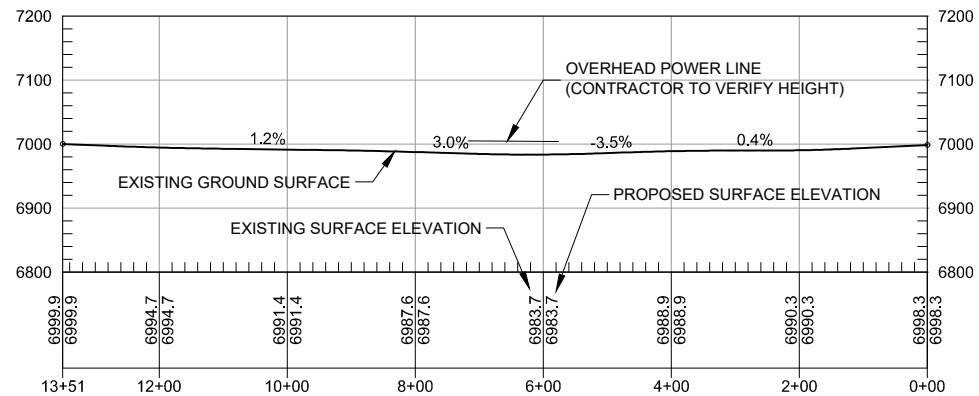
- LEGEND:**
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 - 7200 PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - LIMITS OF TAILINGS DISPOSAL AREA
 - EXISTING FENCE
 - OVERHEAD POWER LINES
 - NATURAL DRAINAGE
 - CULVERT

- NOTE(S):**
- BORROW HAUL ROUTES ON THE EXISTING TDA COVER TO BE DESIGNATED BY CONTRACTOR.
 - TDA COVER BENEATH DESIGNATED HAUL ROUTES SHALL BE RECONSTRUCTED UPON COMPLETION OF CONSTRUCTION TO MITIGATE DAMAGE FROM HAUL TRAFFIC.
 - THE NORTH BORROW HAUL ROAD TERMINATES AT THE BORROW AREA ENTRANCE, WHERE IT WILL BE SUBJECT TO FIELD GRADING DURING BORROW EXCAVATION.

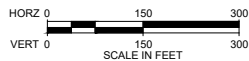
NORTH BORROW HAUL ROAD AND SPUR PLAN VIEW
STATION 0+00 TO 24+99



SOUTH BORROW HAUL ROAD PROFILE
STATION 0+00 TO 24+99



NORTH BORROW HAUL ROAD PROFILE
STATION 0+00 TO 12+69



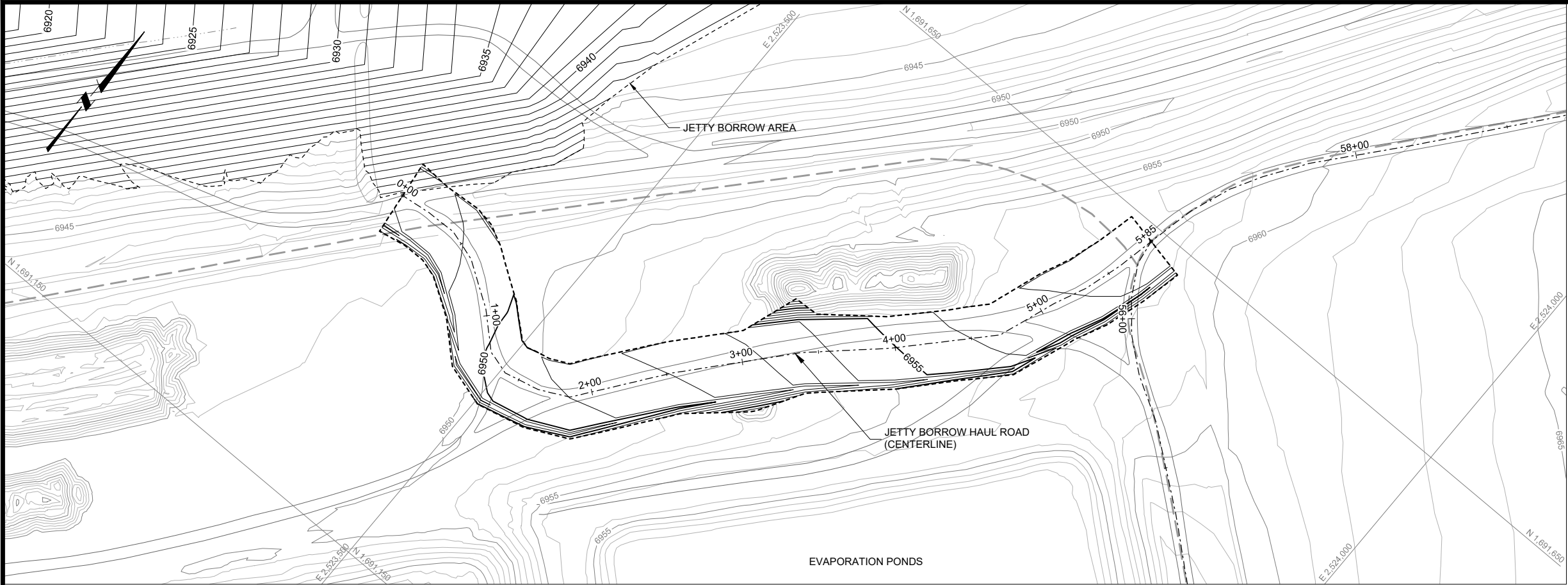
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	J COLEMAN
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
NORTH BORROW HAUL ROAD PLAN AND PROFILE

SHEET
4-16
233001048

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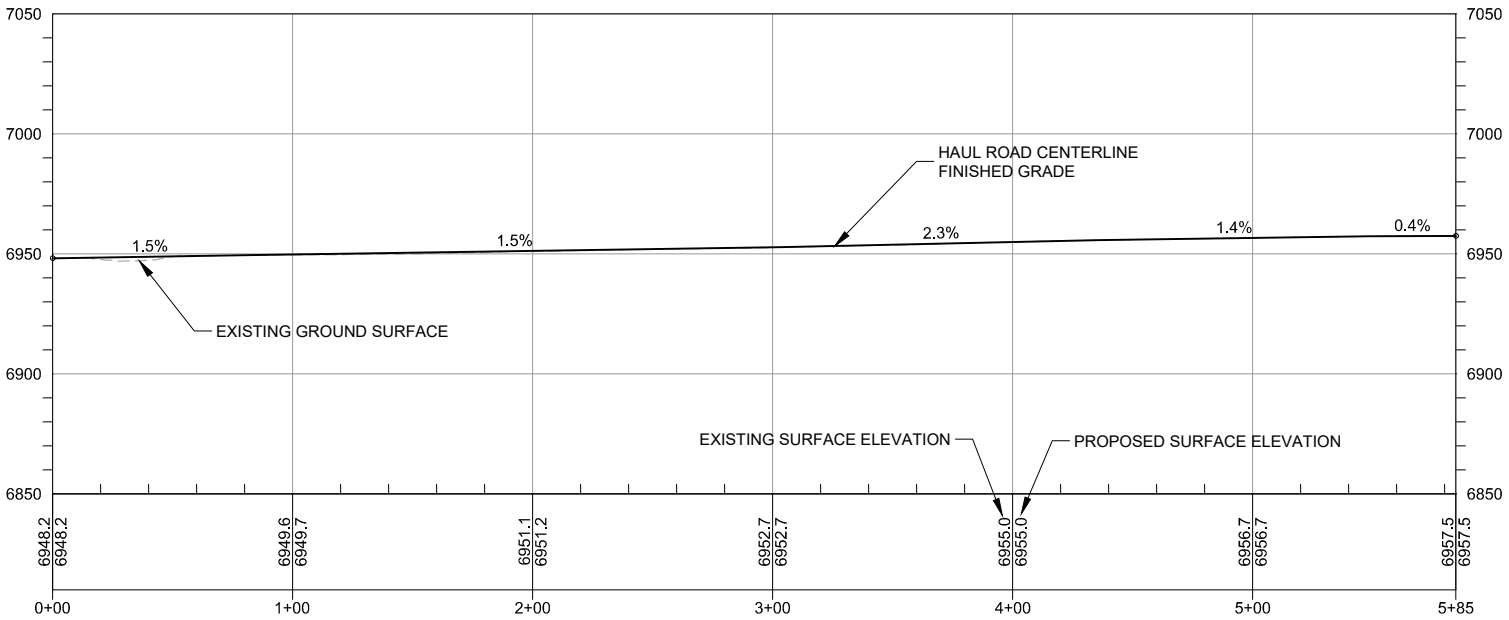
LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- LIMITS OF TAILINGS DISPOSAL AREA
- OVERHEAD POWER LINES
- NATURAL DRAINAGE

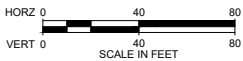
NOTE(S):

- BORROW HAUL ROUTES ON THE EXISTING TDA COVER TO BE DESIGNATED BY CONTRACTOR.
- TDA COVER BENEATH DESIGNATED HAUL ROUTES SHALL BE RECONSTRUCTED UPON COMPLETION OF CONSTRUCTION TO MITIGATE DAMAGE FROM HAUL TRAFFIC.

JETTY BORROW HAUL ROAD PLAN VIEW
STATION 0+00 TO 24+99



JETTY BORROW HAUL ROAD PROFILE
STATION 0+00 TO 5+85



D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
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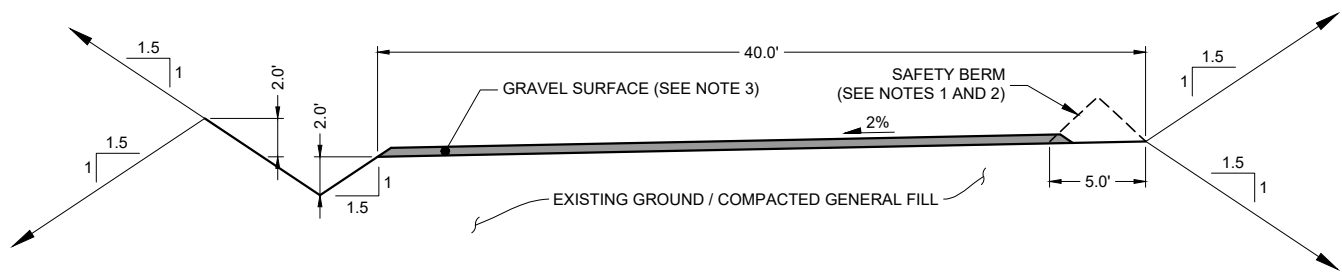
DESIGNED _K REED
CHECKED _J COLEMAN
APPROVED _J CUMBERS



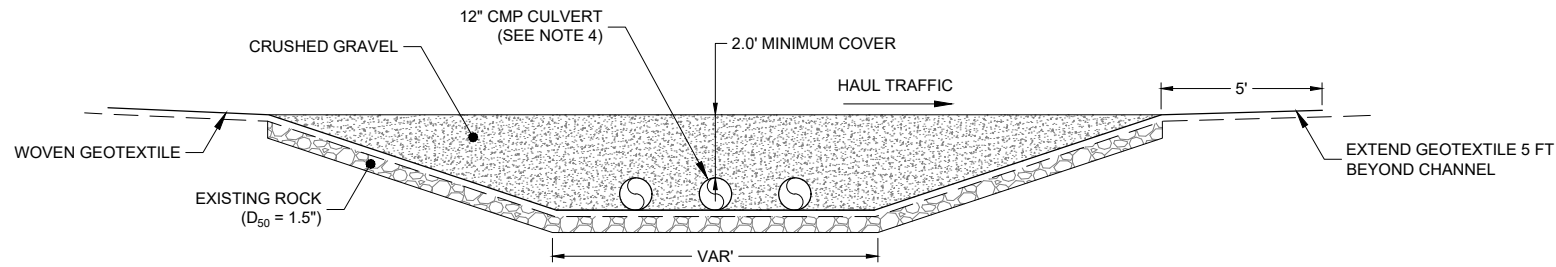
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
NORTH BORROW HAUL ROAD PLAN AND PROFILE

SHEET
4-17
233001048

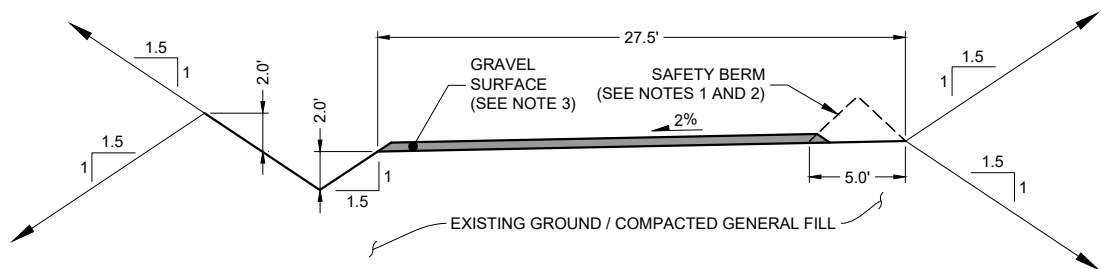
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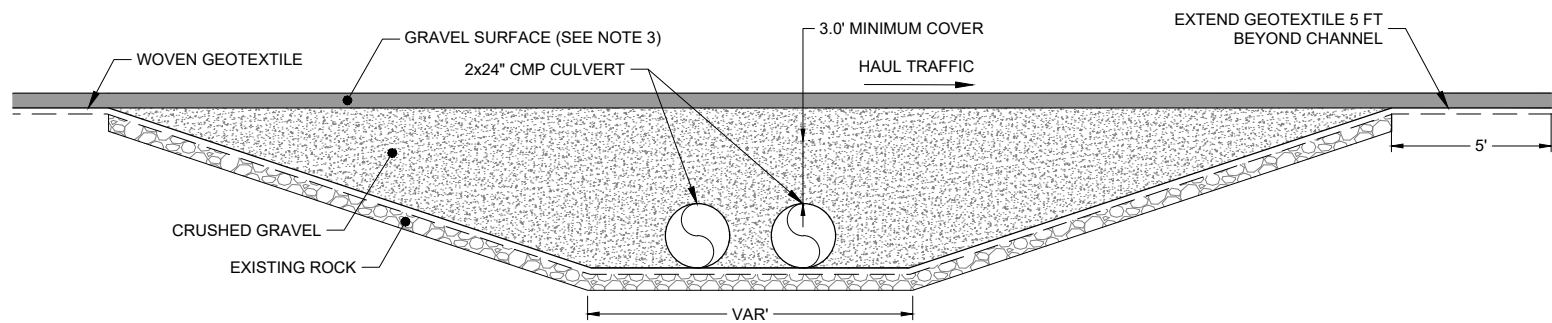
1 TWO-LANE ROAD TYPICAL CROSS SECTION
4-18 HAUL AND ACCESS ROADS



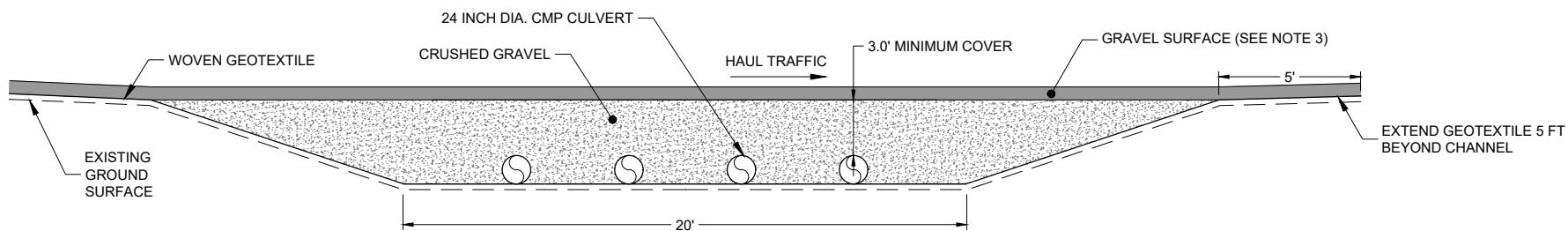
4 TYPICAL BRANCH SWALE CROSSING DETAIL
4-18



2 ONE-LANE ROAD TYPICAL CROSS SECTION
4-18 HAUL AND ACCESS ROADS



5 TYPICAL DIVERSION DITCH CROSSING DETAIL
4-18



3 PIPELINE ARROYO CROSSING DETAIL
4-18

NOTES:

1. SAFETY BERM SHALL BE PROVIDED WHERE A DROPOFF EXISTS OF SUFFICIENT GRADE OR DEPTH TO CAUSE A VEHICLE TO OVERTURN OR ENDANGER THE OPERATOR.
2. SAFETY BERM SHALL BE MID-AXLE HEIGHT OF LARGEST EQUIPMENT THAT TRAVELS THE ROAD.
3. 4-INCH THICK LAYER OF GRAVEL SURFACING SHALL BE ADDED WHERE NOTED IN SPECIFICATIONS.
4. BRANCH SWALE CROSSINGS USE EITHER THREE OR FOUR 12" CMP CULVERTS. SEE SHEET 4-15 FOR NUMBER OF CULVERTS

TABLE CULVERT DESIGN PARAMETERS

CULVERT ID	APPROXIMATE STATION (FT)	DESIGN DIAMETER (INCH)	NUMBER OF PIPE(S)	MINIMUM SLOPE (FT/FT)
C-01	2+20	24	1	1.75%
C-02	5+50	24	3	1.75%
C-03	10+90	24	1	1.75%
C-04	14+50	24	1	1.75%
C-05	23+80	24	1	1.75%
C-06	30+20	24	1	1.75%
C-07	9+40 (SPUR)	24	1	1.75%
C-08	2+50 (SPUR)	24	1	1.75%
C-09	0+30 (SPUR)	24	3	1.75%
C-10	36+50	24	1	1.75%
C-11	44+80	24	4	0%
C-12	48+40	24	3	0%
C-13	5+38 (EAST BORROW ROAD)	12	4	1.75%
C-14	4+30 (EAST BORROW ROAD)	12	3	1%
C-15	0+50 (EAST BORROW ROAD)	24	2	1.75%
C-16	24+50 (NORTH BORROW ROAD)	24	2	1.75%

DESIGNED	K. REED
CHECKED	J. COLEMAN
APPROVED	J. CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO

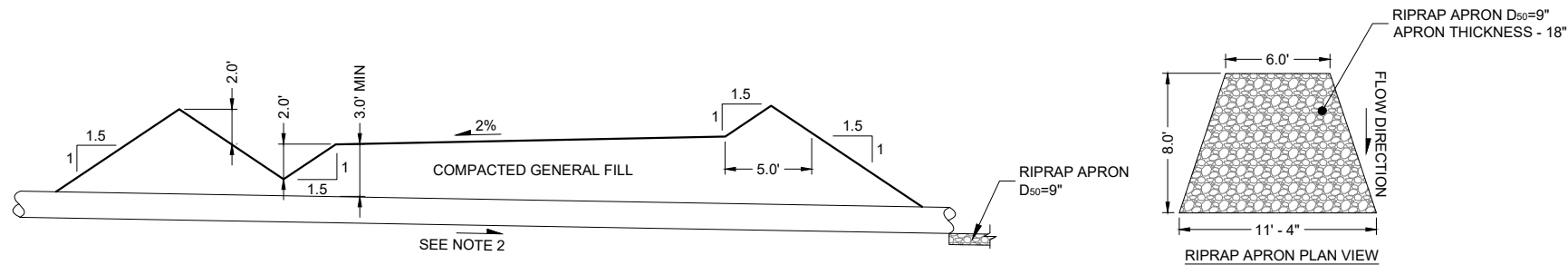
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
TYPICAL CROSS SECTIONS AND DETAILS (1 OF 2)

SHEET

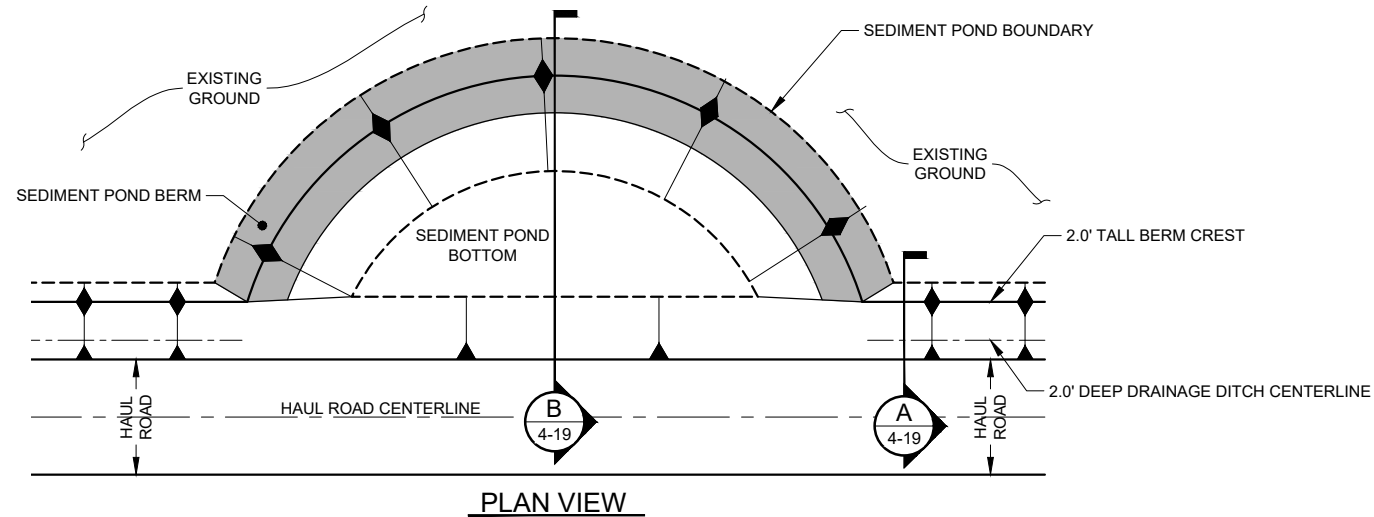
4-18

233001048

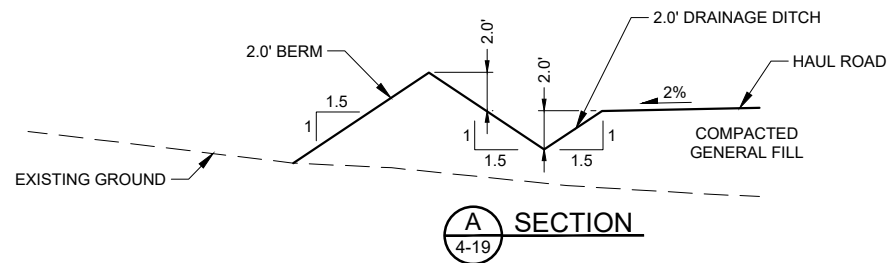
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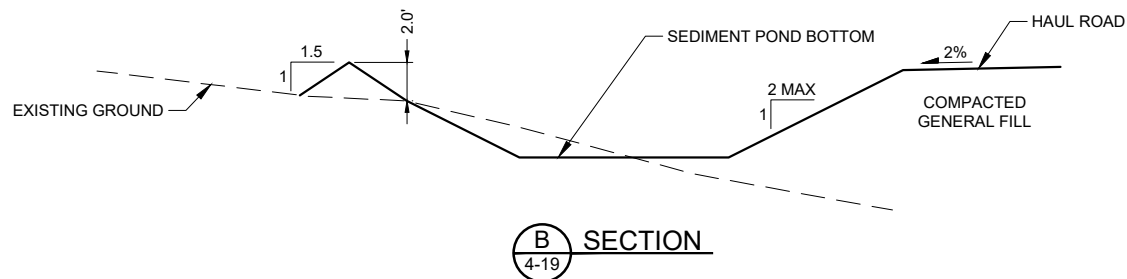
6 HAUL ROAD CULVERT CROSSING TYPICAL CROSS SECTION
4-19



PLAN VIEW



A SECTION
4-19

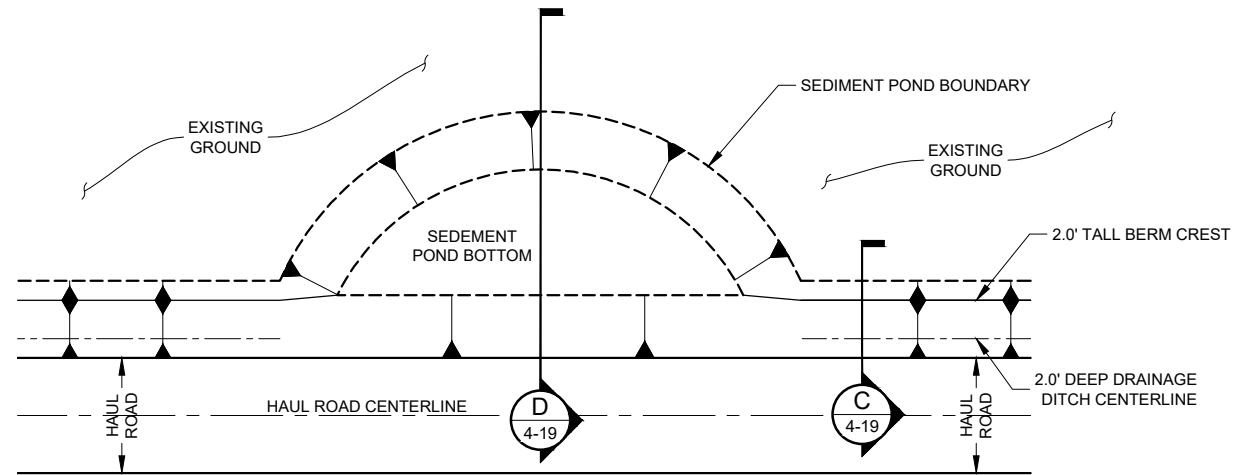


B SECTION
4-19

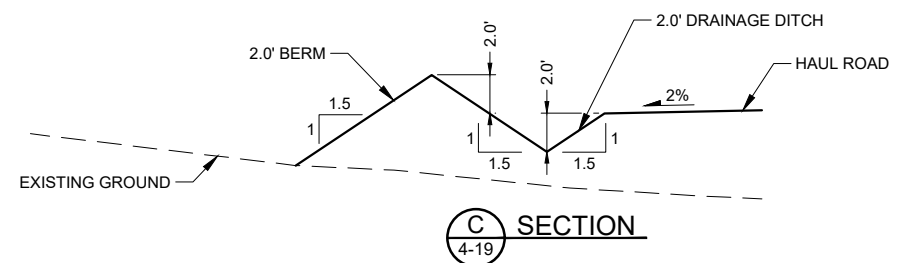
7 TYPICAL STORMWATER POND WITH BERM
4-19

NOTE(S):

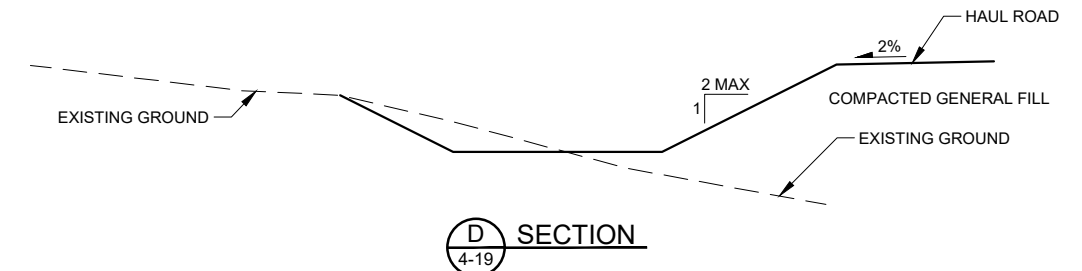
1. RAISE HAUL ROAD TO ACCOMMODATE 3.0' MINIMUM COVER OVER CULVERT PIPES. CULVERT TO BE LAID AS CLOSE AS POSSIBLE TO EXISTING TERRAIN WHILE MAINTAINING THE MINIMUM SLOPE.
2. SEE TABLE FOR CULVERT SIZING, NUMBER OF PIPES, AND MINIMUM CULVERT SLOPES (SHEET 4-18).
3. SEE SHEET 4-11 FOR TABLE WITH STORMWATER POND SIZING.
4. SEE HAUL ROAD PLAN SHEETS FOR DIVERSION BERM HEIGHTS.



PLAN VIEW

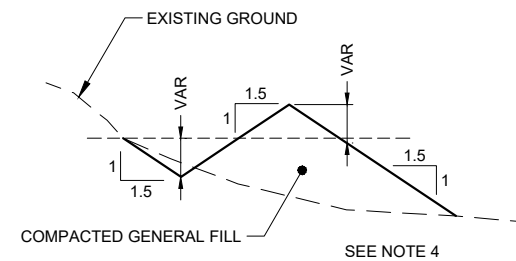


C SECTION
4-19



D SECTION
4-19

8 TYPICAL STORMWATER POND WITHOUT BERM
4-19



9 TYPICAL DIVERSION BERM
4-19

REV	DATE	BY	DESCRIPTION	APPROVED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	DESIGNED _K REED
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _J COLEMAN
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED _J CUMBERS

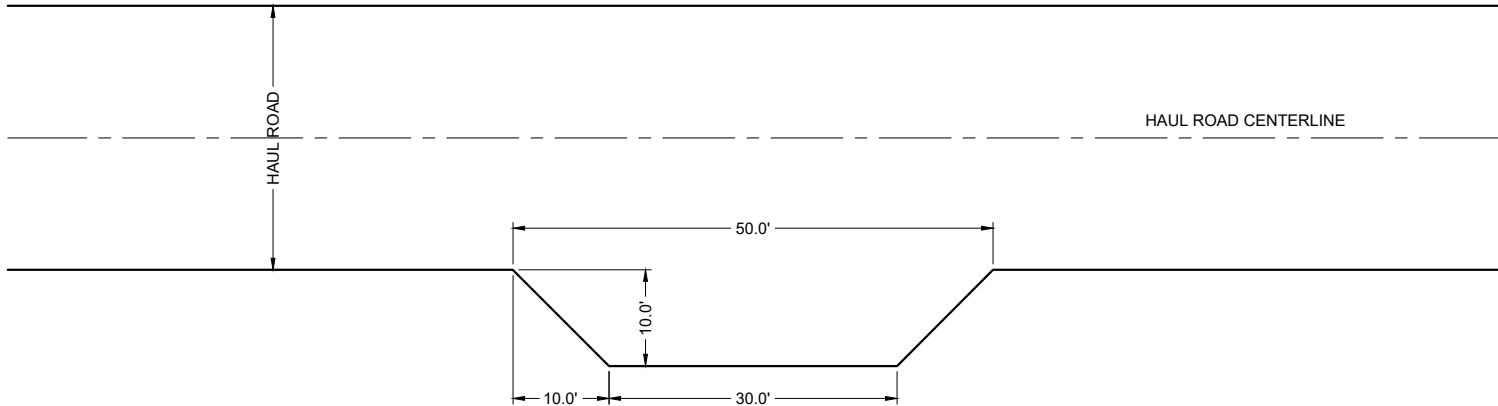


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

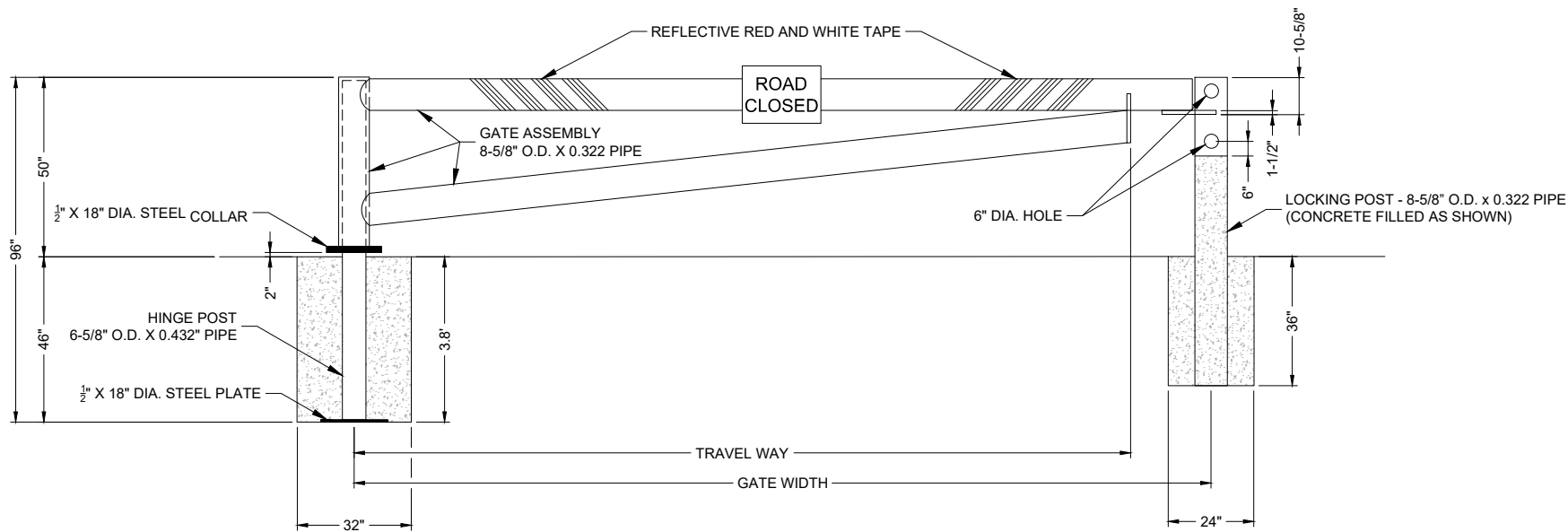
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
TYPICAL CROSS SECTIONS AND DETAILS (2 OF 2)

SHEET
4-19
233001048

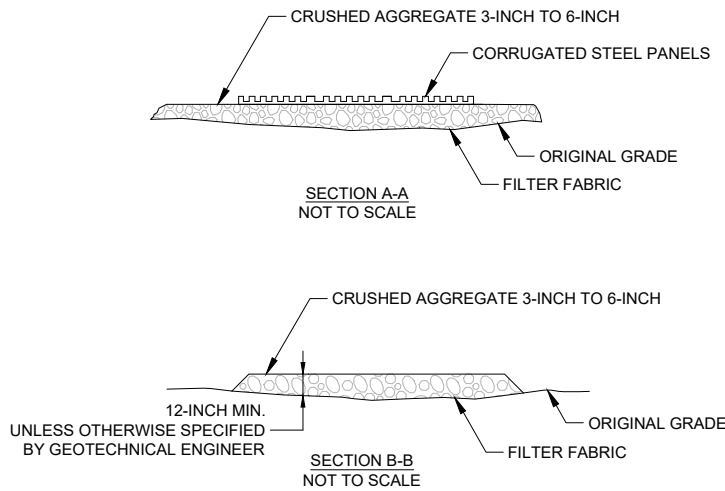
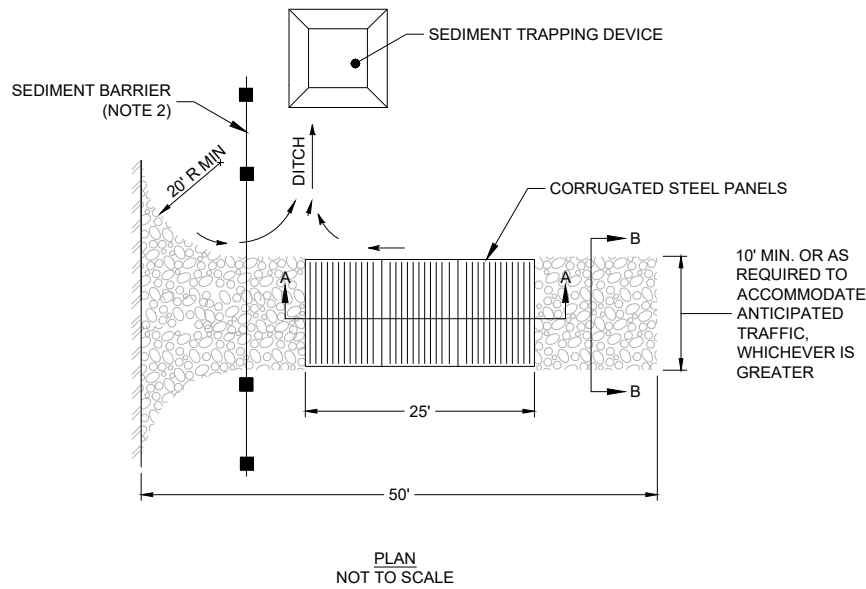
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10 HAUL ROAD TURN OUT DETAIL
4-20



12 GATE DETAIL
4-20 (SEE NOTE 1)



11 MUD GRATE DETAIL
4-20 (SEE NOTE 1)

- NOTE:
1. CONTRACTOR TO SUBMIT SHOP DRAWING FOR ENGINEER REVIEW.
 2. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE.

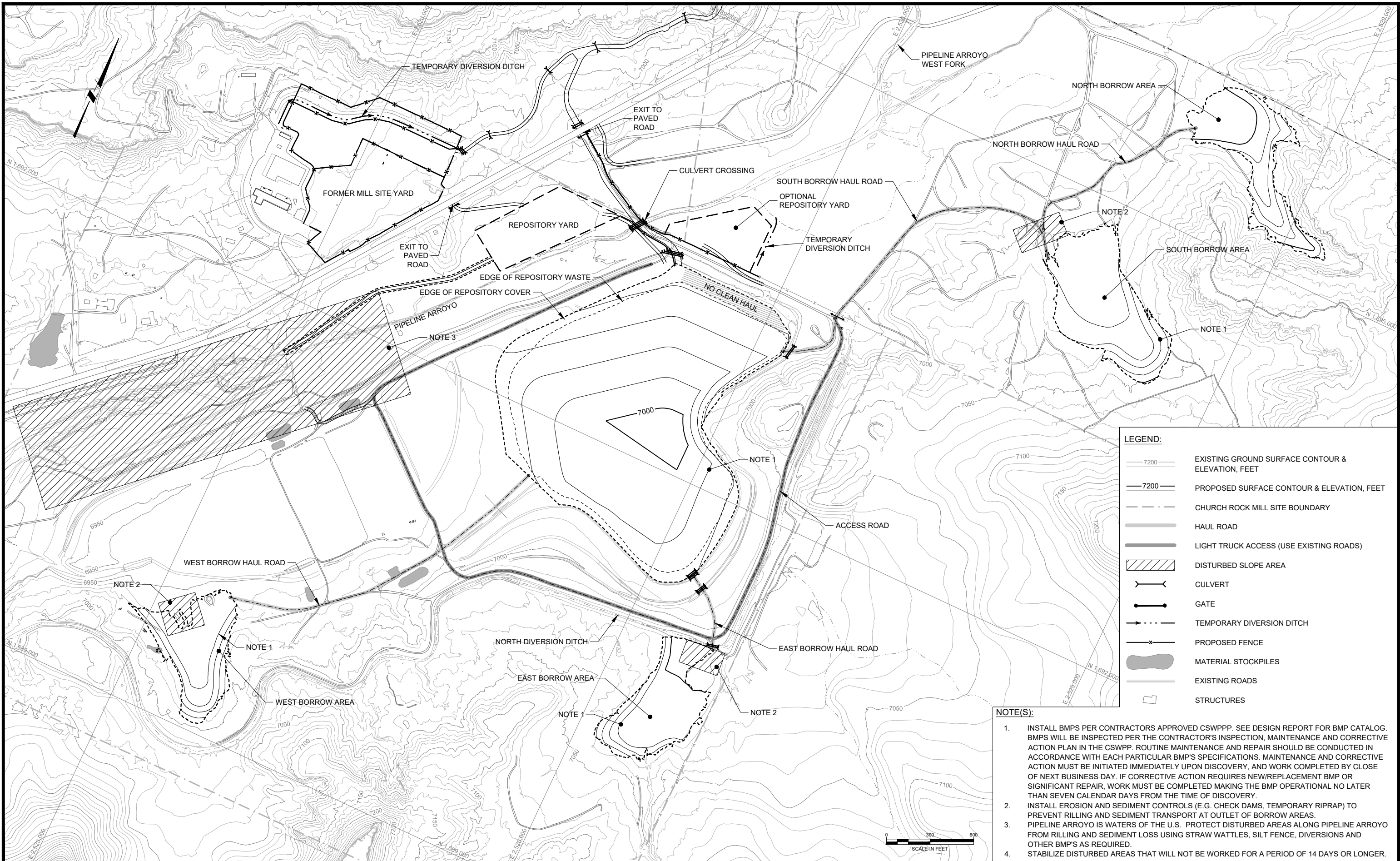
				DESIGNED	K REED	
				CHECKED	J COLEMAN	
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN			
REV	DATE	BY	DESCRIPTION	APPROVED		J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
DETAILS

SHEET
4-20
233001048

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- NOTE(S):**
1. INSTALL BMPs PER CONTRACTORS APPROVED CSWPPP. SEE DESIGN REPORT FOR BMP CATALOG. BMPs WILL BE INSPECTED PER THE CONTRACTOR'S INSPECTION, MAINTENANCE AND CORRECTIVE ACTION PLAN IN THE CSWPP. ROUTINE MAINTENANCE AND REPAIR SHOULD BE CONDUCTED IN ACCORDANCE WITH EACH PARTICULAR BMP'S SPECIFICATIONS. MAINTENANCE AND CORRECTIVE ACTION MUST BE INITIATED IMMEDIATELY UPON DISCOVERY, AND WORK COMPLETED BY CLOSE OF NEXT BUSINESS DAY. IF CORRECTIVE ACTION REQUIRES NEW/REPLACEMENT BMP OR SIGNIFICANT REPAIR, WORK MUST BE COMPLETED MAKING THE BMP OPERATIONAL NO LATER THAN SEVEN CALENDAR DAYS FROM THE TIME OF DISCOVERY.
 2. INSTALL EROSION AND SEDIMENT CONTROLS (E.G. CHECK DAMS, TEMPORARY RIPRAP) TO PREVENT RILLING AND SEDIMENT TRANSPORT AT OUTLET OF BORROW AREAS.
 3. PIPELINE ARROYO IS WATERS OF THE U.S. PROTECT DISTURBED AREAS ALONG PIPELINE ARROYO FROM RILLING AND SEDIMENT LOSS USING STRAW WATTLES, SILT FENCE, DIVERSIONS AND OTHER BMP'S AS REQUIRED.
 4. STABILIZE DISTURBED AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF 14 DAYS OR LONGER.

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	J.ERICKSON
C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN	CHECKED	N.HAWS
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J.CUMBERS
A	07/15/16	JTV	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		





LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SUBGRADE SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- EXISTING ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- EXISTING SWALES
- STRUCTURES

NOTE(S):

- REPOSITORY REGRADED SUBGRADE IS 6 INCHES BELOW THE EXISTING TDA COVER WITH THE SURFACE SWALES FILLED IN.

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D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		

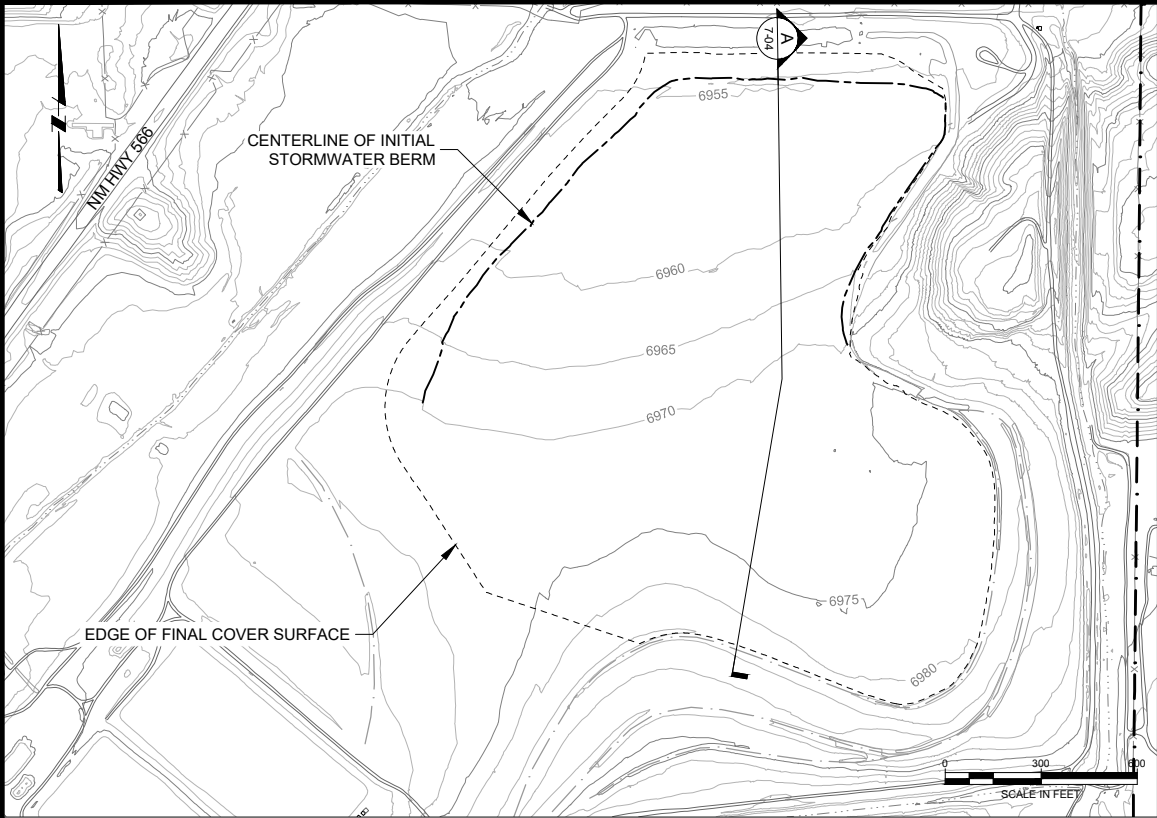


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

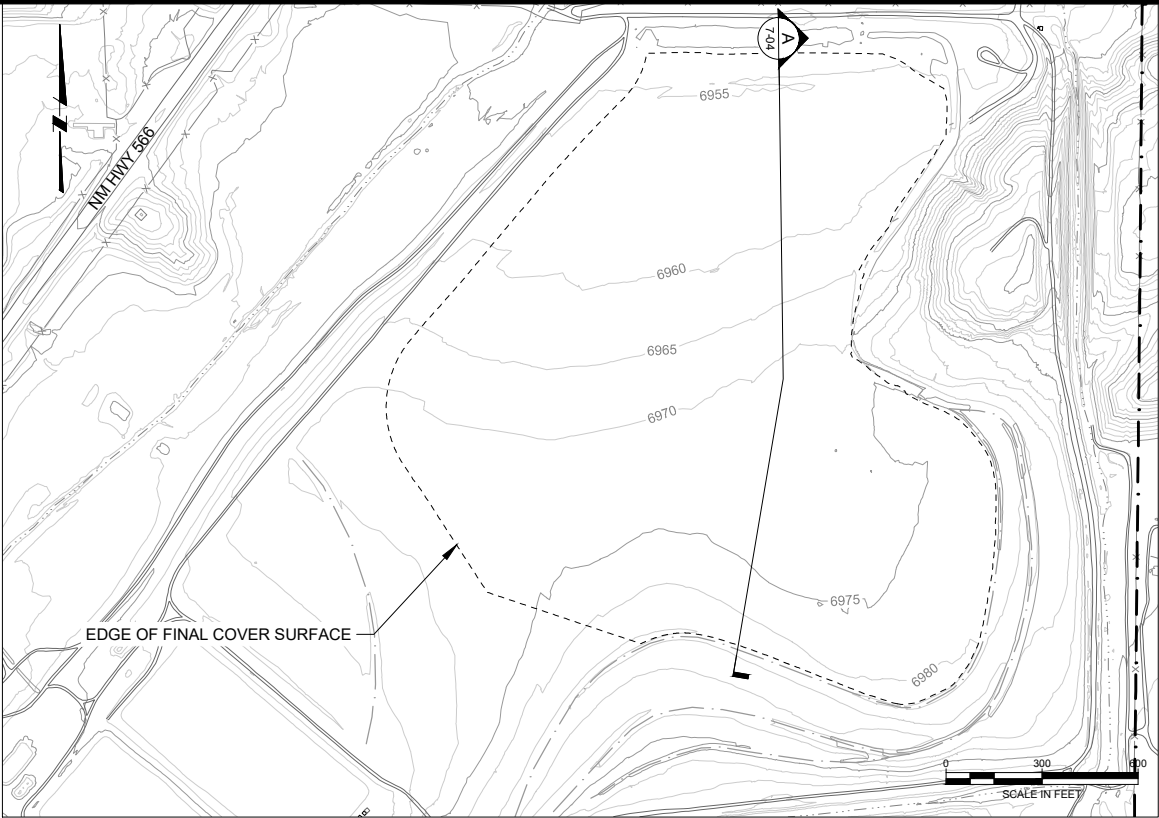
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY SUBGRADE - EXISTING RADON BARRIER

SHEET
7-01
233001048

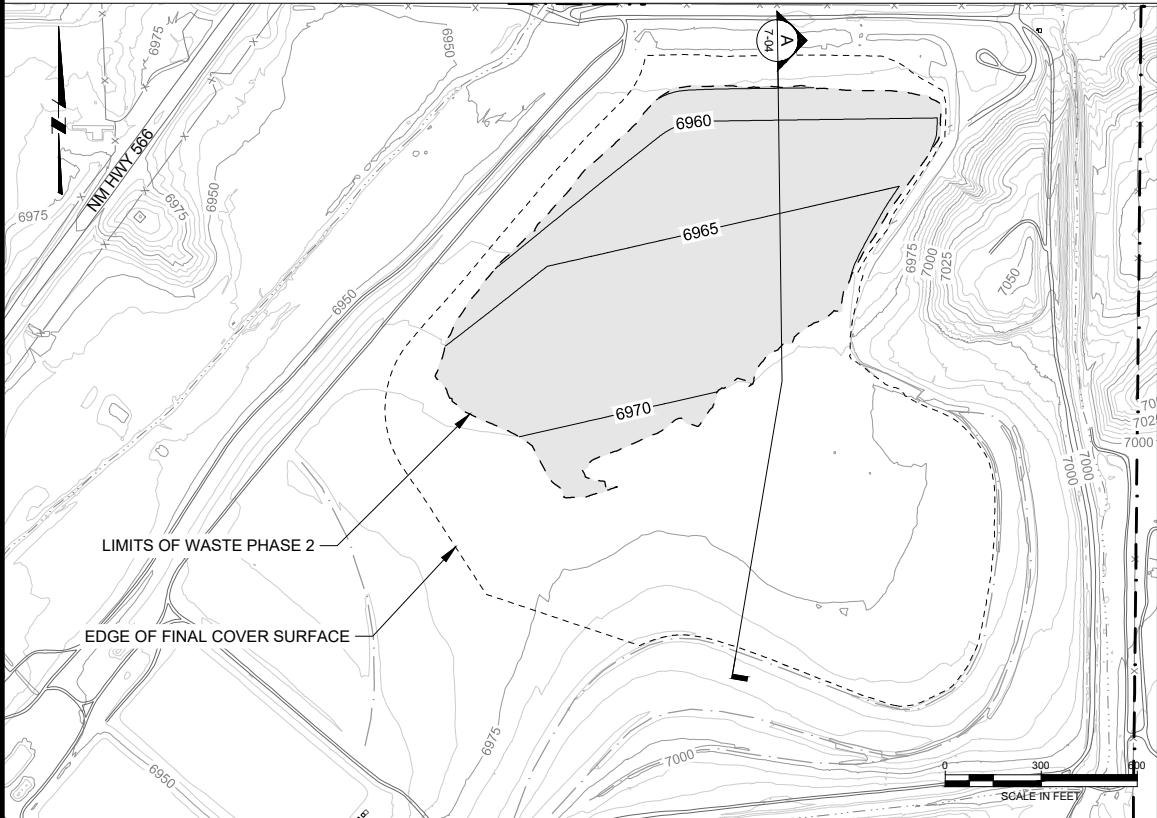
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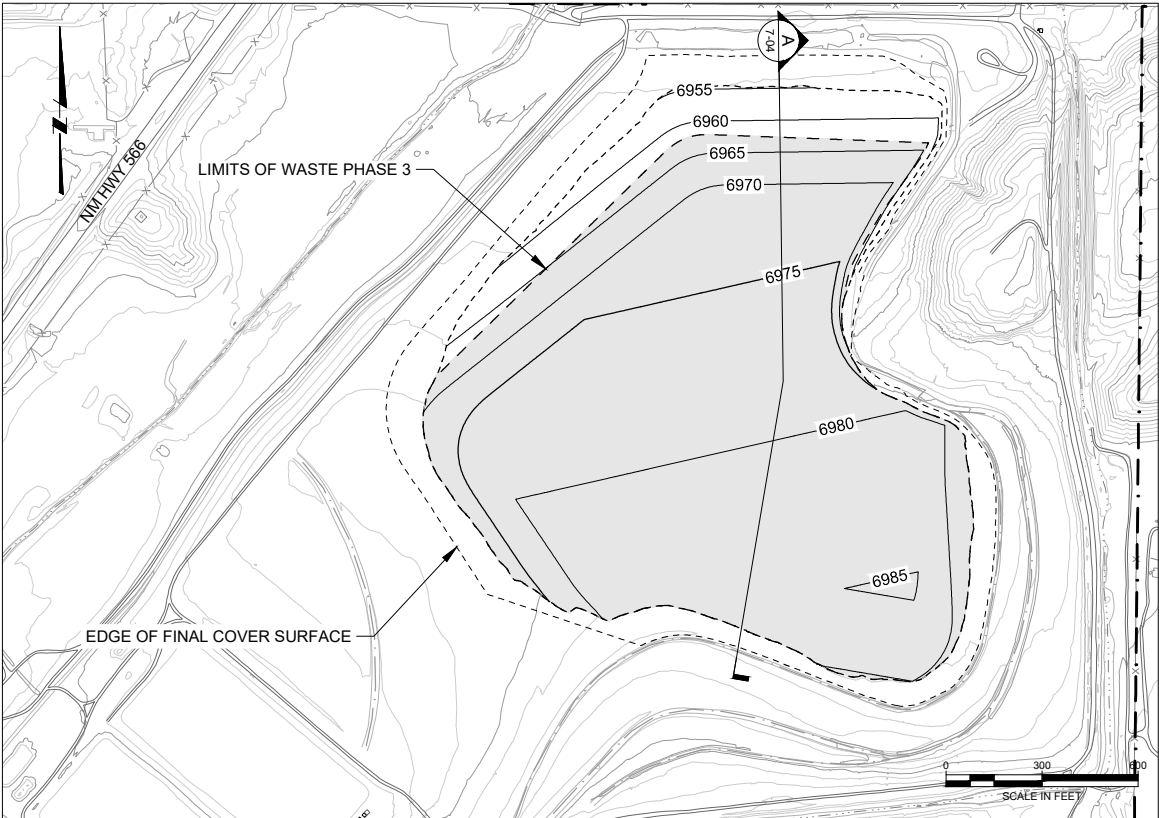
INITIAL STORMWATER CONTROL BERM



REPOSITORY MINE WASTE PLACEMENT PHASE 1
NO PLANNED PLACEMENT OF MINE WASTE (NOTE 3)



REPOSITORY MINE WASTE PLACEMENT PHASE 2
173,594 CY OF MINE WASTE



REPOSITORY MINE WASTE PLACEMENT PHASE 3
445,559 CY OF MINE WASTE (619,153 CY TOTAL)

LEGEND:

- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- 7200 PROPOSED WASTE SURFACE CONTOUR & ELEVATION, FEET
- EXISTING ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- EXISTING SWALES
- STORMWATER BERM
- CURRENT PLACEMENT AREA

NOTE(S):

- MINE WASTE PLACEMENT PHASES CORRESPOND TO MINE REMOVAL PHASES SHOWN IN SECTION 3. PLACEMENT SHOWN WITHOUT VOLUME REDUCTION FOR COMPACTION.
- STORMWATER BERMS CONSTRUCTED OF CLEAN BORROW SOIL MEETING COVER MATERIAL SPECIFICATIONS.
- PHASE 1 PTW TO BE DISPOSED OFFSITE

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED K. REED

CHECKED M. WITLER

APPROVED J. CUMBERS



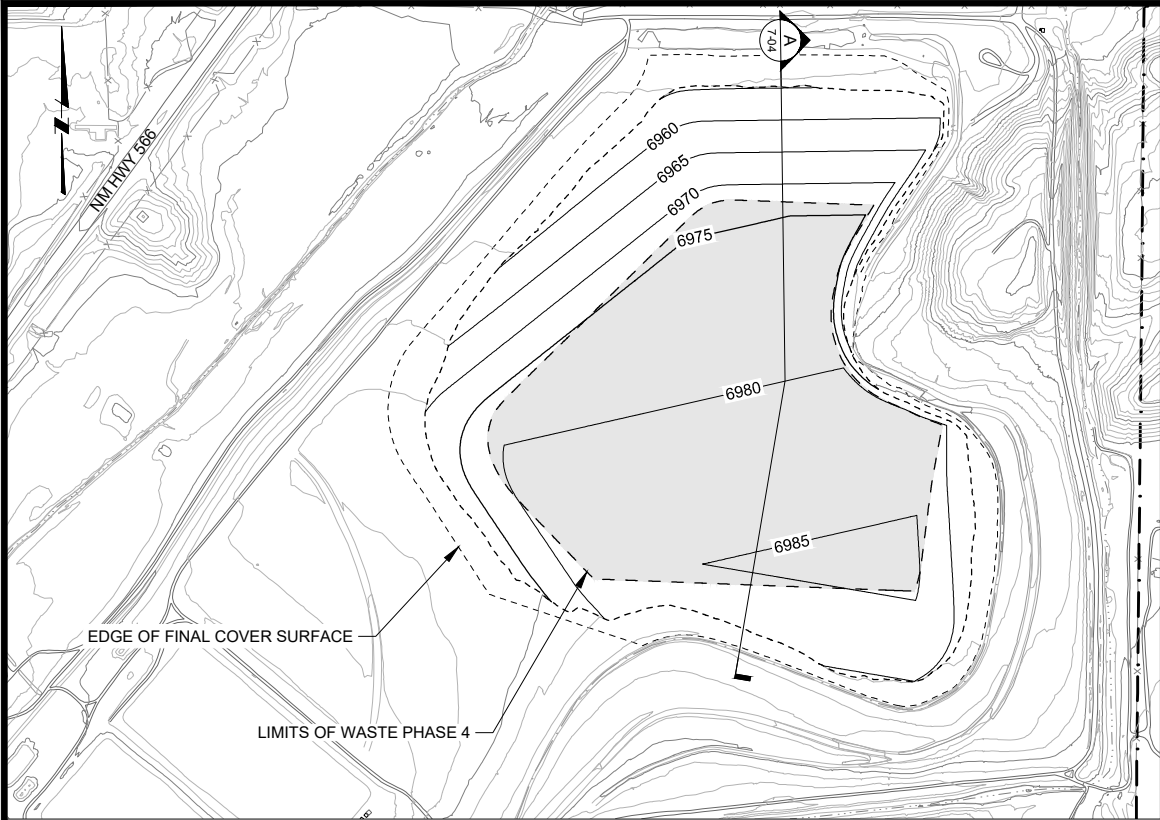
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY MINE WASTE FILL BY REMOVAL PHASE
AND TEMPORARY STORMWATER CONTROL BERMS (1 OF 2)

SHEET

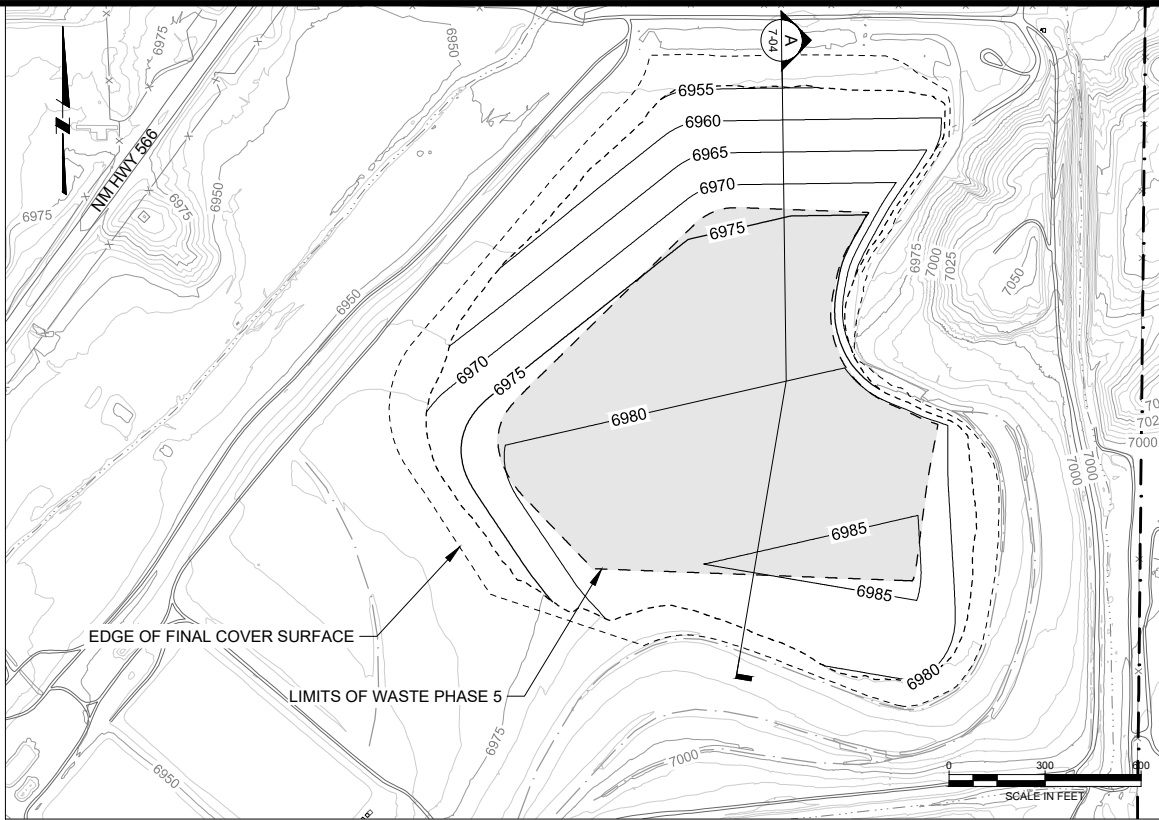
7-02

233001048

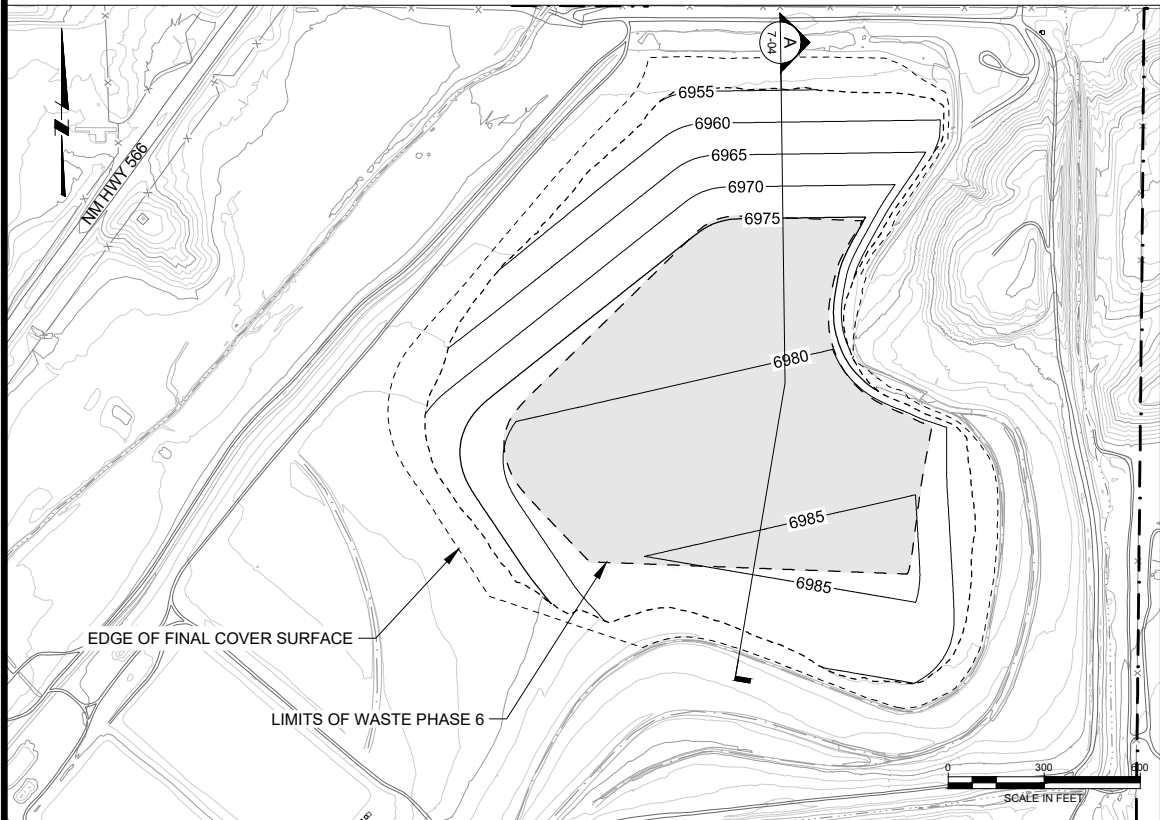
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REPOSITORY MINE WASTE PLACEMENT PHASE 4
43,459 CY OF MINE WASTE (662,612 CY TOTAL)



REPOSITORY MINE WASTE PLACEMENT PHASE 5
34,272 CY OF MINE WASTE (696,884 CY TOTAL)



REPOSITORY MINE WASTE PLACEMENT PHASE 6
28,356 CY OF MINE WASTE (725,240 CY TOTAL)

LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED WASTE SURFACE CONTOUR & ELEVATION, FEET
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- EXISTING SWALES
- CURRENT PLACEMENT AREA

NOTE(S):

- MINE WASTE PLACEMENT PHASES CORRESPOND TO REMOVAL PHASES SHOWN IN SECTION 3.

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

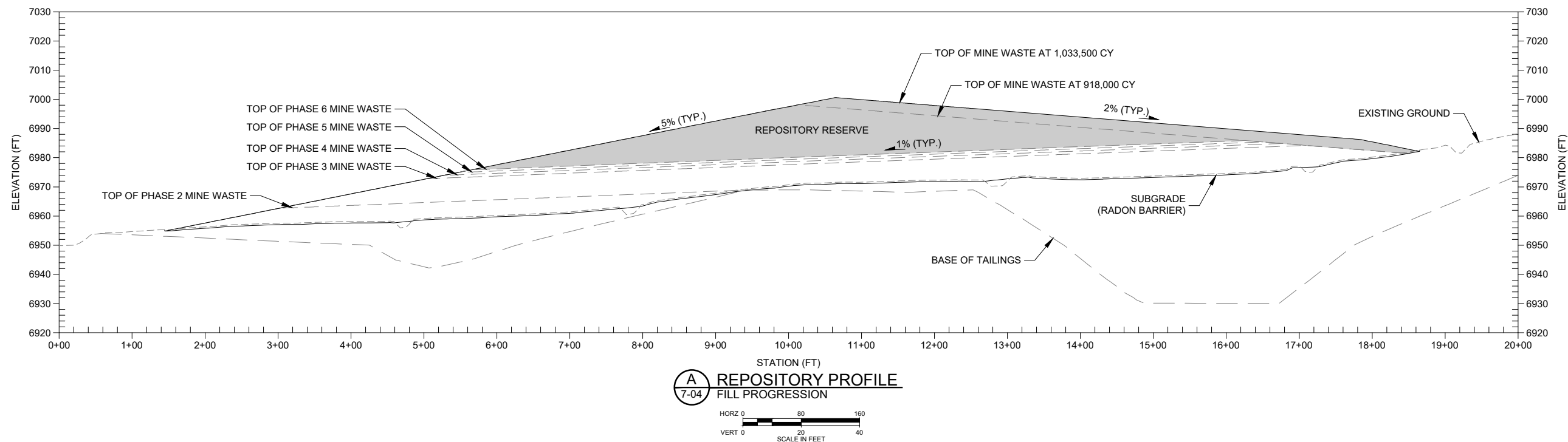
DESIGNED	_K REED
CHECKED	_M WITLER
APPROVED	_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY MINE WASTE FILL BY REMOVAL PHASE
AND TEMPORARY STORMWATER CONTROL BERMS (2 OF 2)

SHEET
7-03
233001048

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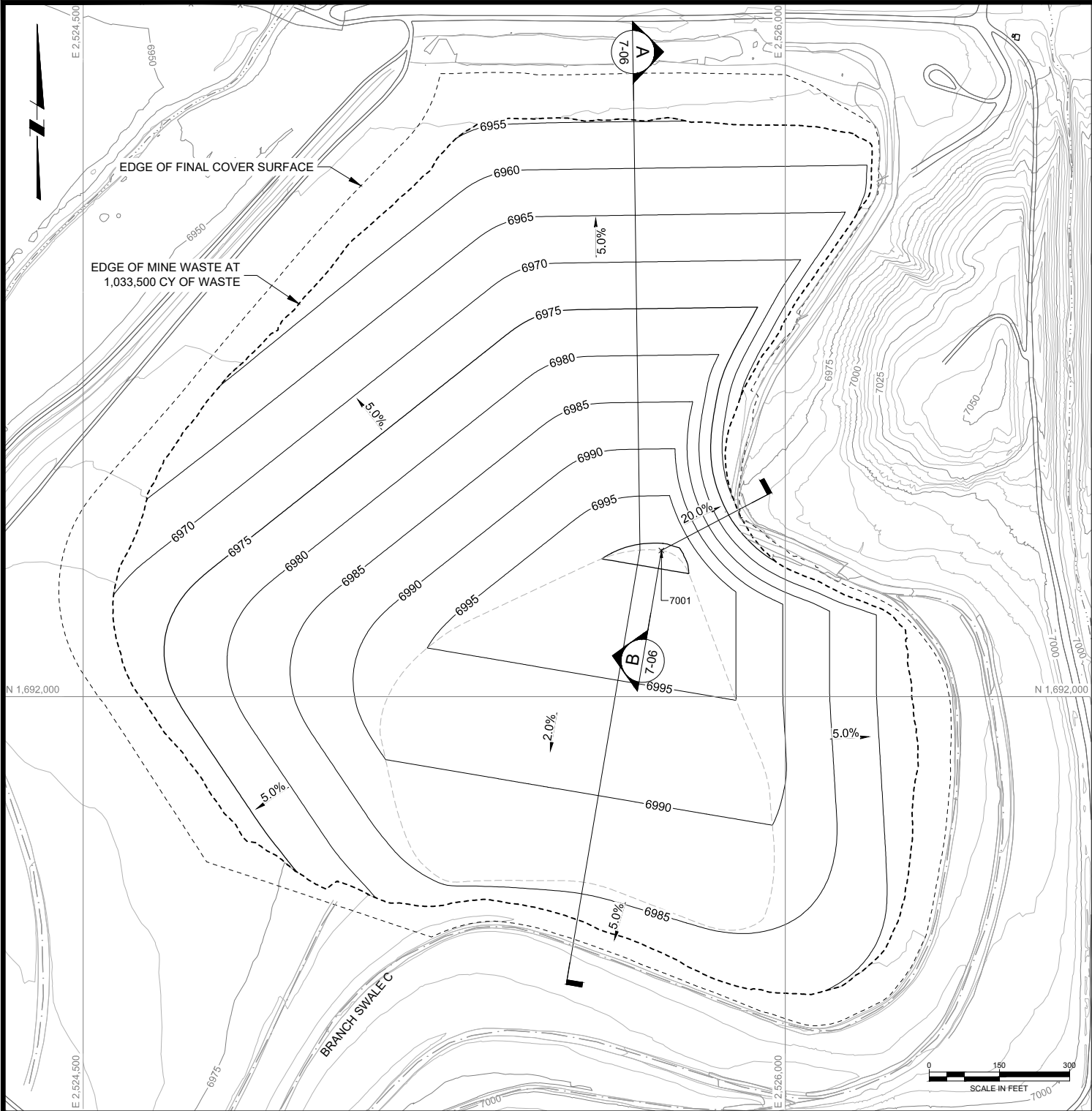


					DESIGNED	K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN		CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN		APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN			
REV	DATE	BY	DESCRIPTION			



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY MINE WASTE FILL PROFILE BY REMOVAL PHASE

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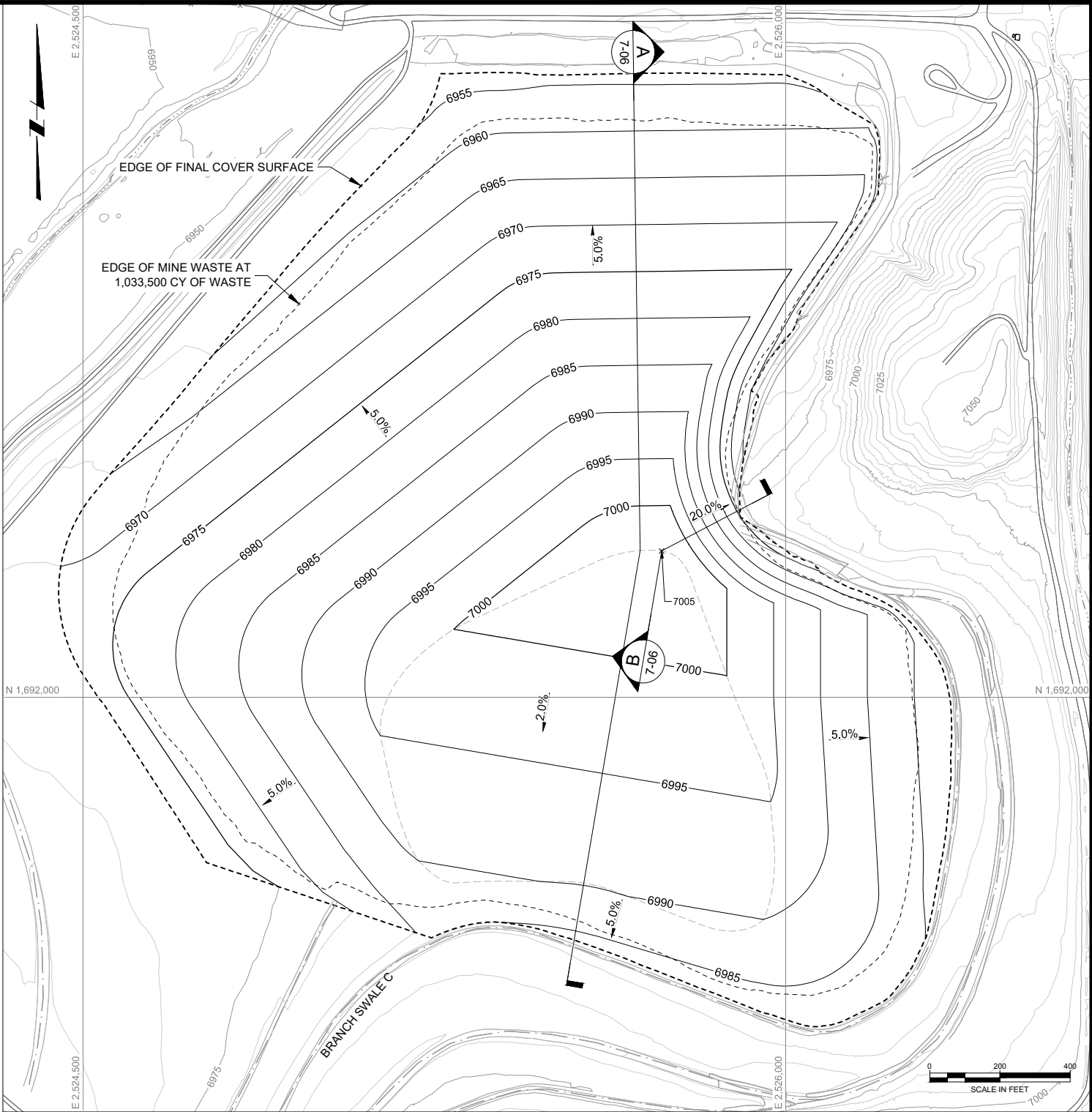


REPOSITORY TOP OF MINE WASTE SURFACE
AT 1,033,500 CY OF MINE WASTE

LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- EXISTING ROADS
- NATURAL DRAINAGE
- EXISTING SWALES
- STRUCTURES

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



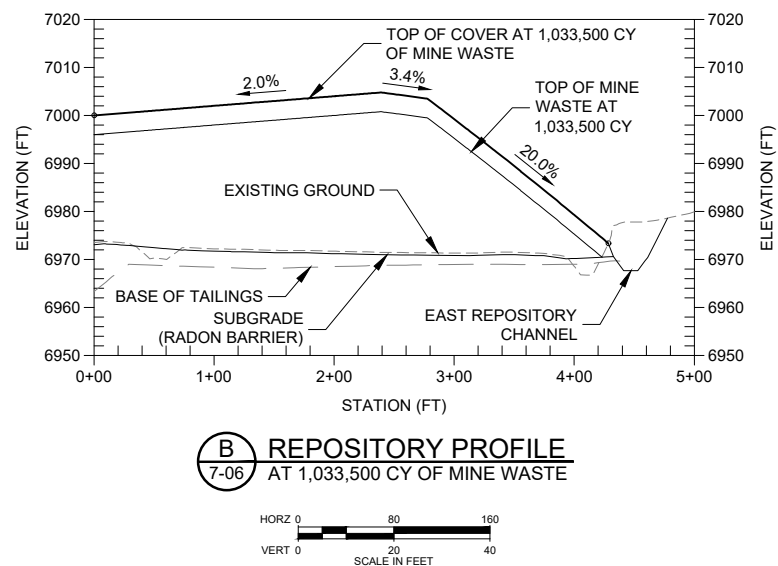
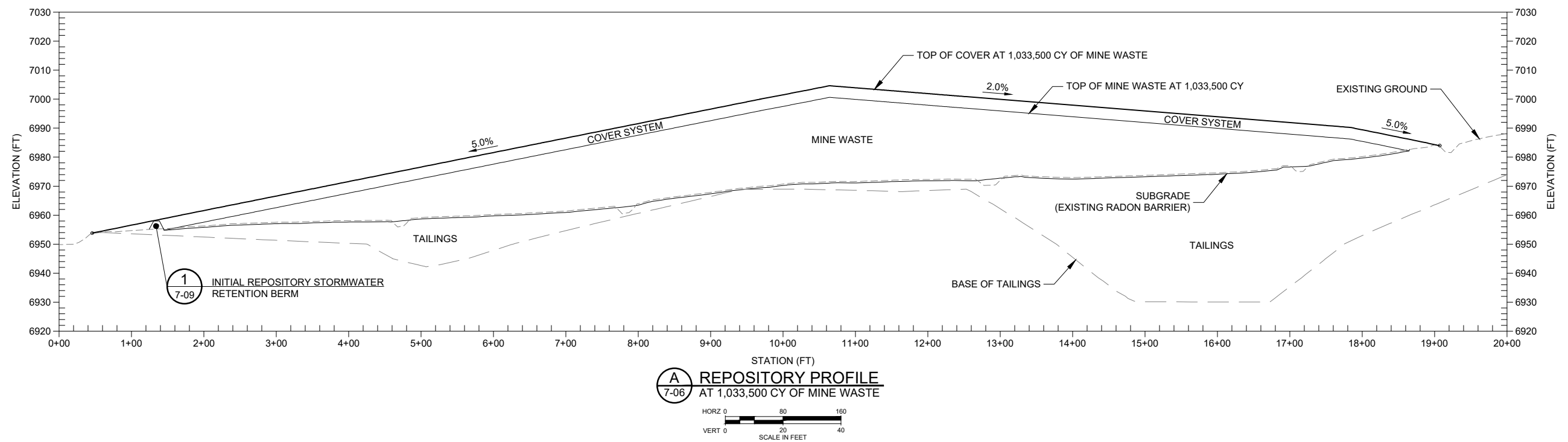
REPOSITORY TOP OF COVER SURFACE
AT 1,033,500 CY OF MINE WASTE



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY TOP OF MINE WASTE
AND COVER GRADING PLAN

SHEET
7-05
233001048

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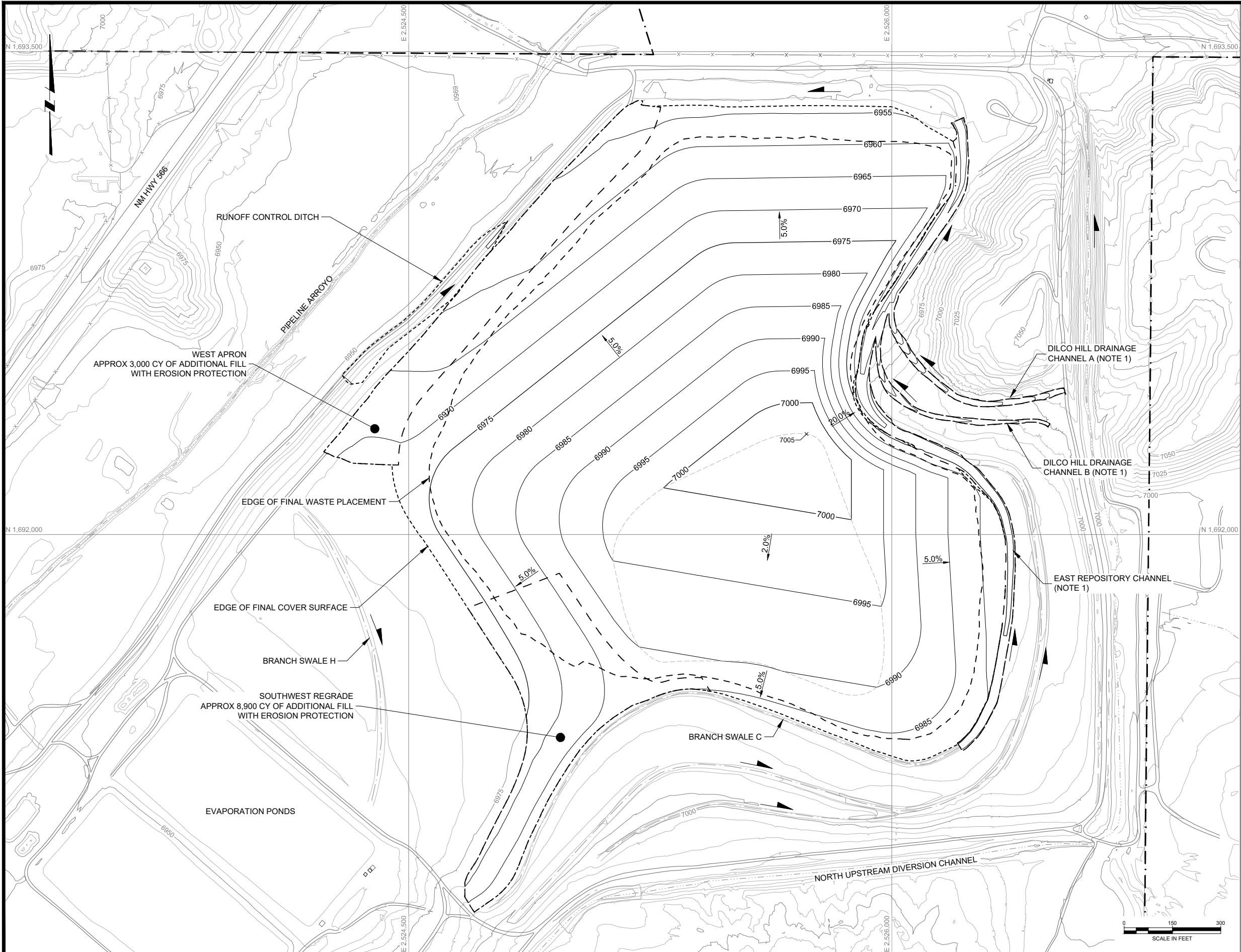
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B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED <u>M. WITLER</u>
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED <u>J. CUMBERS</u>



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY PROFILES

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7-06
233001048

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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- EXISTING SWALES
- STRUCTURES
- FLOW DIRECTION

NOTE(S):

- PERMANENT STORMWATER CONTROL STRUCTURES DETAILED IN SECTION 9 DRAWINGS.

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

DESIGNED	K REED
CHECKED	M WITLER
APPROVED	J CUMBERS

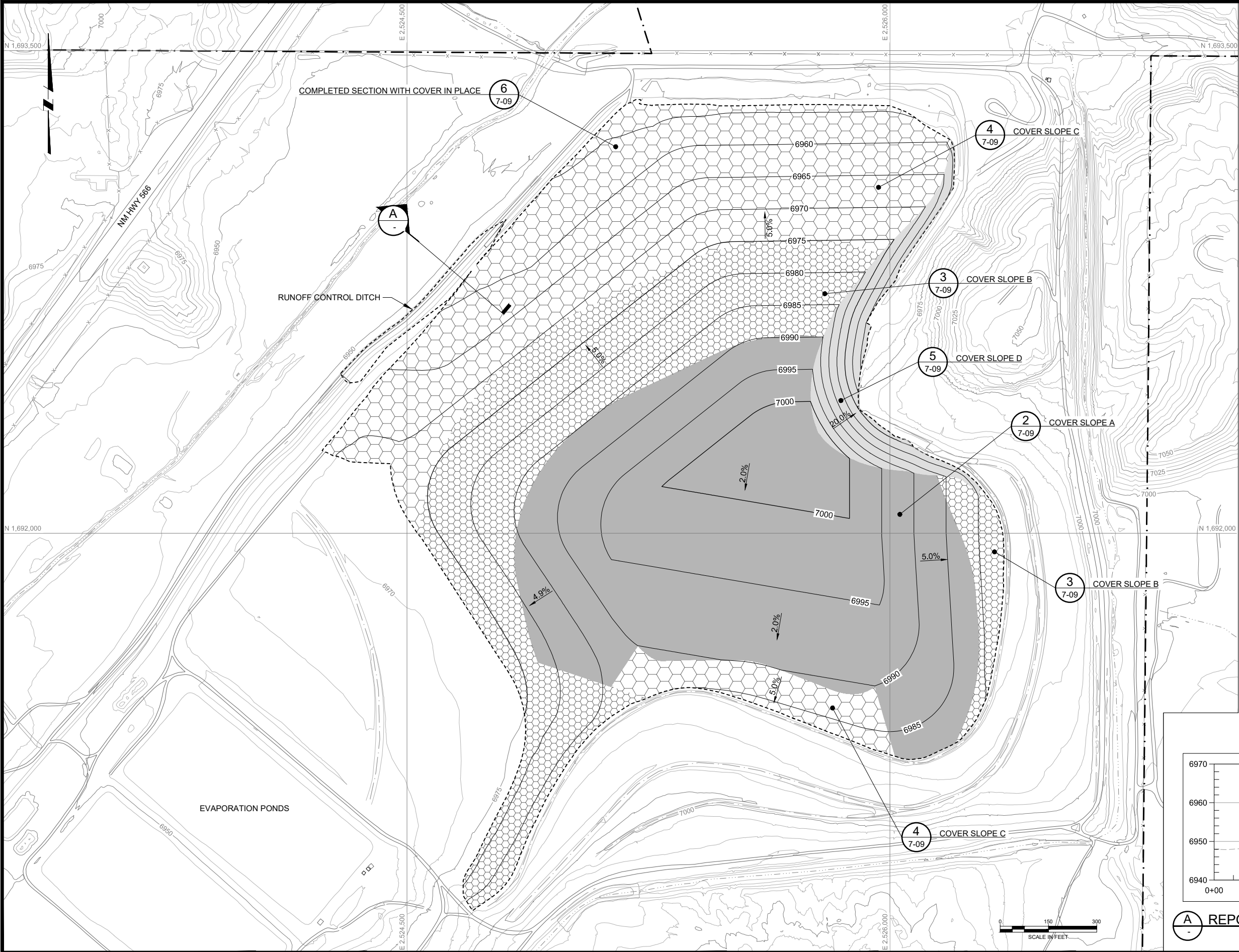


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY FINAL COVER GRADING PLAN

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7-07
233001048

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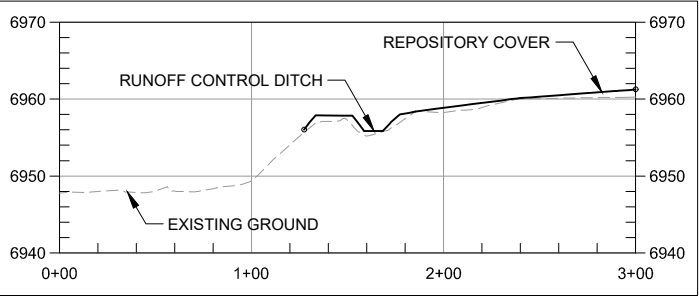


LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED POST STRIPPING SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- EXISTING SWALES
- STRUCTURES
- COVER SLOPE A (D₅₀ = 1.5 INCHES)
- COVER SLOPE B (D₅₀ = 2 INCHES)
- COVER SLOPE C (D₅₀ = 3 INCHES)
- COVER SLOPE D (D₅₀ = 1.5 INCHES)

NOTE(S):

- COVER SLOPES A, B, AND C DESIGNED BY DWYER ENGINEERING, LLC.
- COVER SLOPE D DESIGNED BY STANTEC.



A REPOSITORY COVER TO CHANNEL TRANSITION

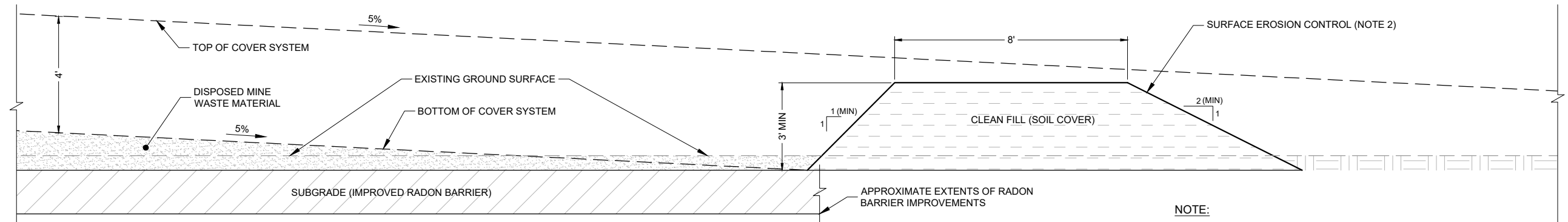
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
COVER SURFACE EROSION PROTECTION

SHEET
7-08
233001048

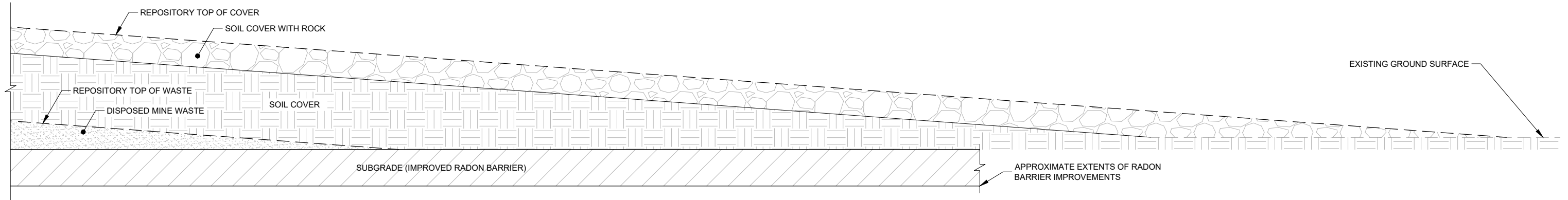
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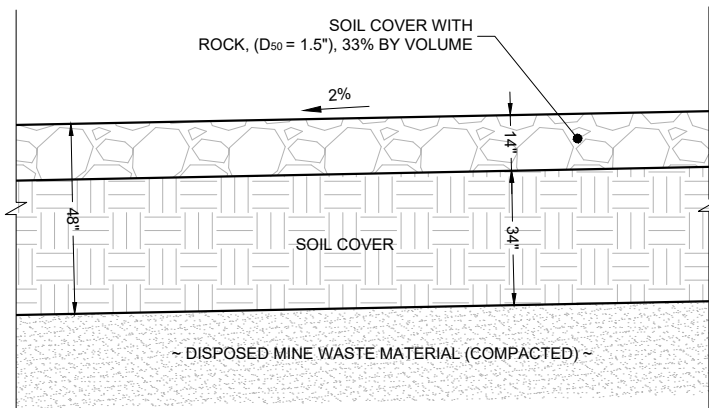
1 INITIAL REPOSITORY PERIMETER STORMWATER RETENTION BERM
(NOT TO SCALE)

NOTE:

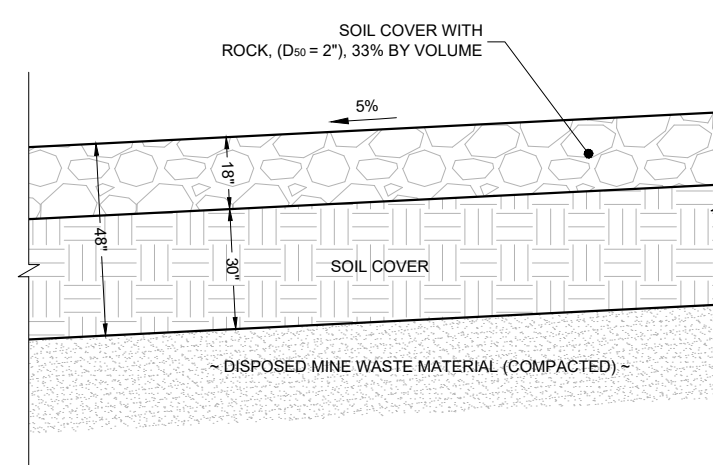
1. CLEAN FILL FOR BERMS TO BE GRADED INTO SOIL COVER LAYER.
2. SEE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN
3. MAINTAIN 3-FOOT HEIGHT ABOVE DISPOSED MINE MATERIAL SURFACE FOR STORMWATER CONTROL.



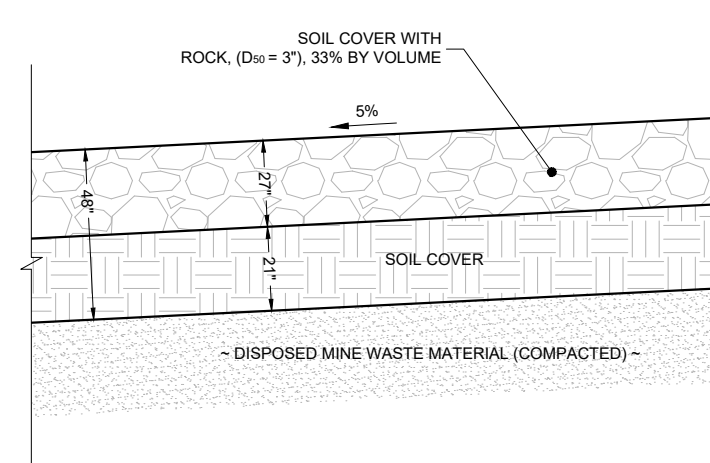
6 COMPLETED SECTION WITH COVER IN PLACE
(NOT TO SCALE)



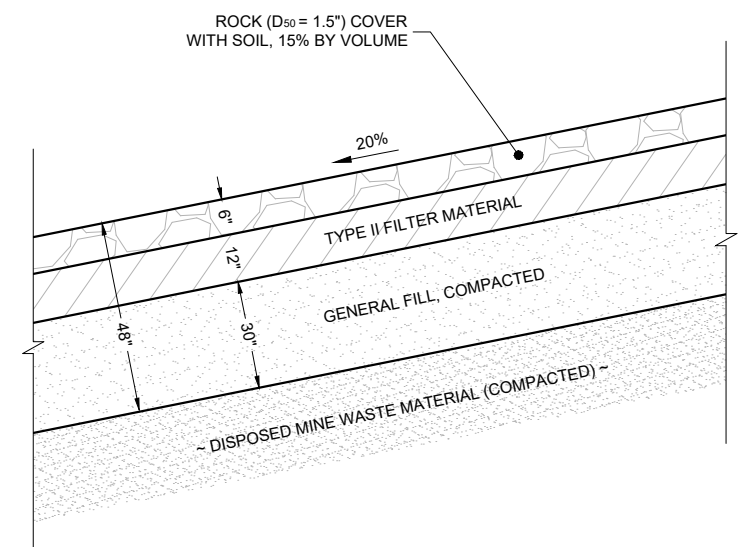
2 COVER SLOPE A (TOP SLOPES)
(NOT TO SCALE)



3 COVER SLOPE B (SIDE SLOPES)
(NOT TO SCALE)



4 COVER SLOPE C (LOWER SIDE SLOPES)
(NOT TO SCALE)



5 COVER SLOPE D (20% SLOPE)
(NOT TO SCALE)

NOTE:

1. COVER SLOPES A, B, AND C DESIGNED BY DWYER ENGINEERING, LLC. COVER SLOPE D DESIGNED BY STANTEC.

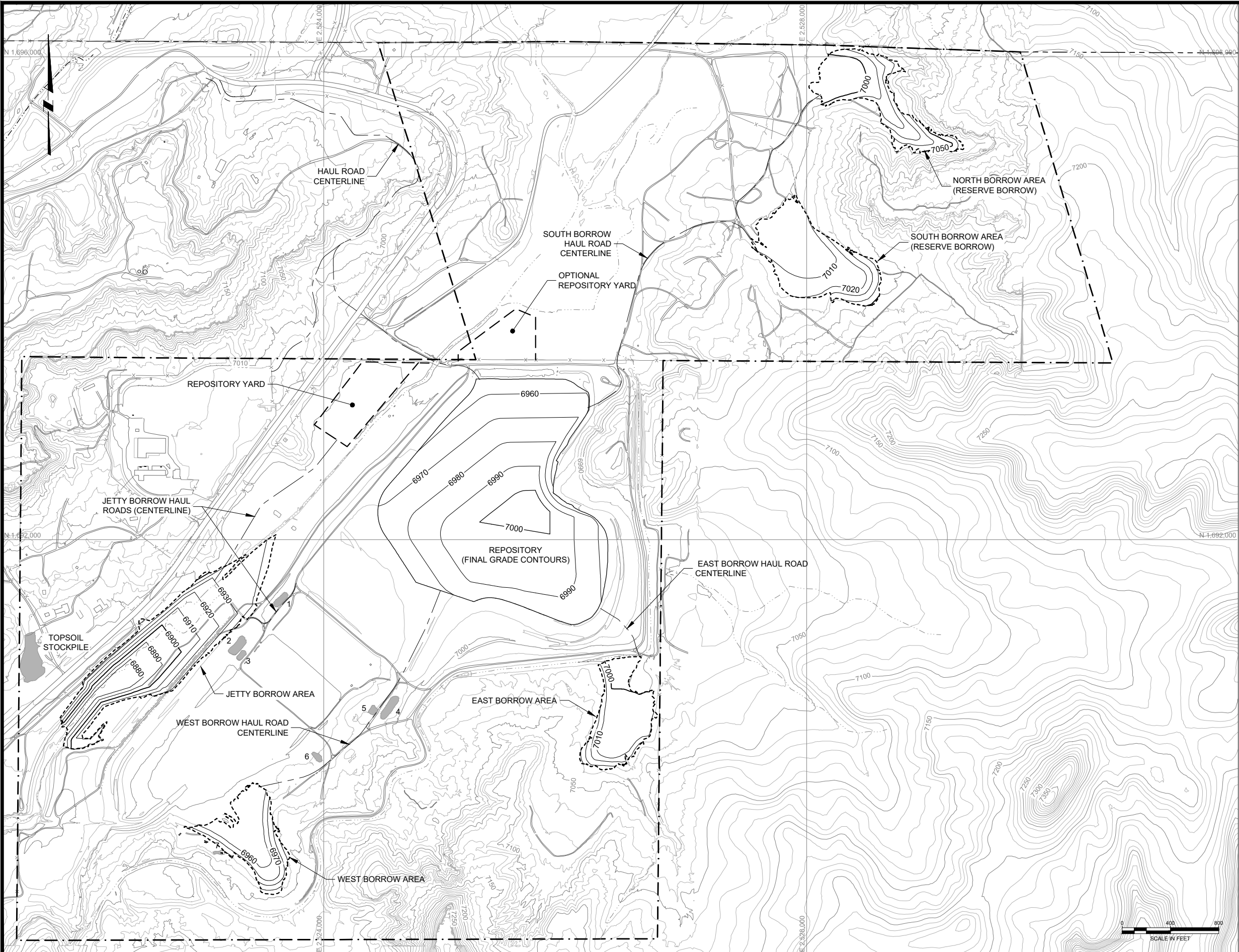
REV	DATE	BY	DESCRIPTION	APPROVED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	DESIGNED_K REED
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
REPOSITORY COVER DETAILS

SHEET
7-09
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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- BORROW EXCAVATION CONTOUR & ELEVATION, FEET
- CHURCH ROCK MILL SITE BOUNDARY
- BORROW AREA BOUNDARY
- HAUL ROAD CENTERLINE
- NATURAL DRAINAGE
- EXISTING ROAD
- EXISTING FENCE
- STRUCTURES
- MATERIAL STOCKPILE AND DESIGNATION

NOTE(S):

- STOCKPILE 1 IS CRUSHER FINES, STOCKPILE 3 IS ROAD BASE, AND THE REMAINING STOCKPILES (2, 4-6) ARE CRUSHED BASALT RANGING IN SIZE FROM 1 TO 15 INCHES.
- TOPSOIL STOCKPILE IS APPROXIMATELY 20,000 CY.

D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	KR	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

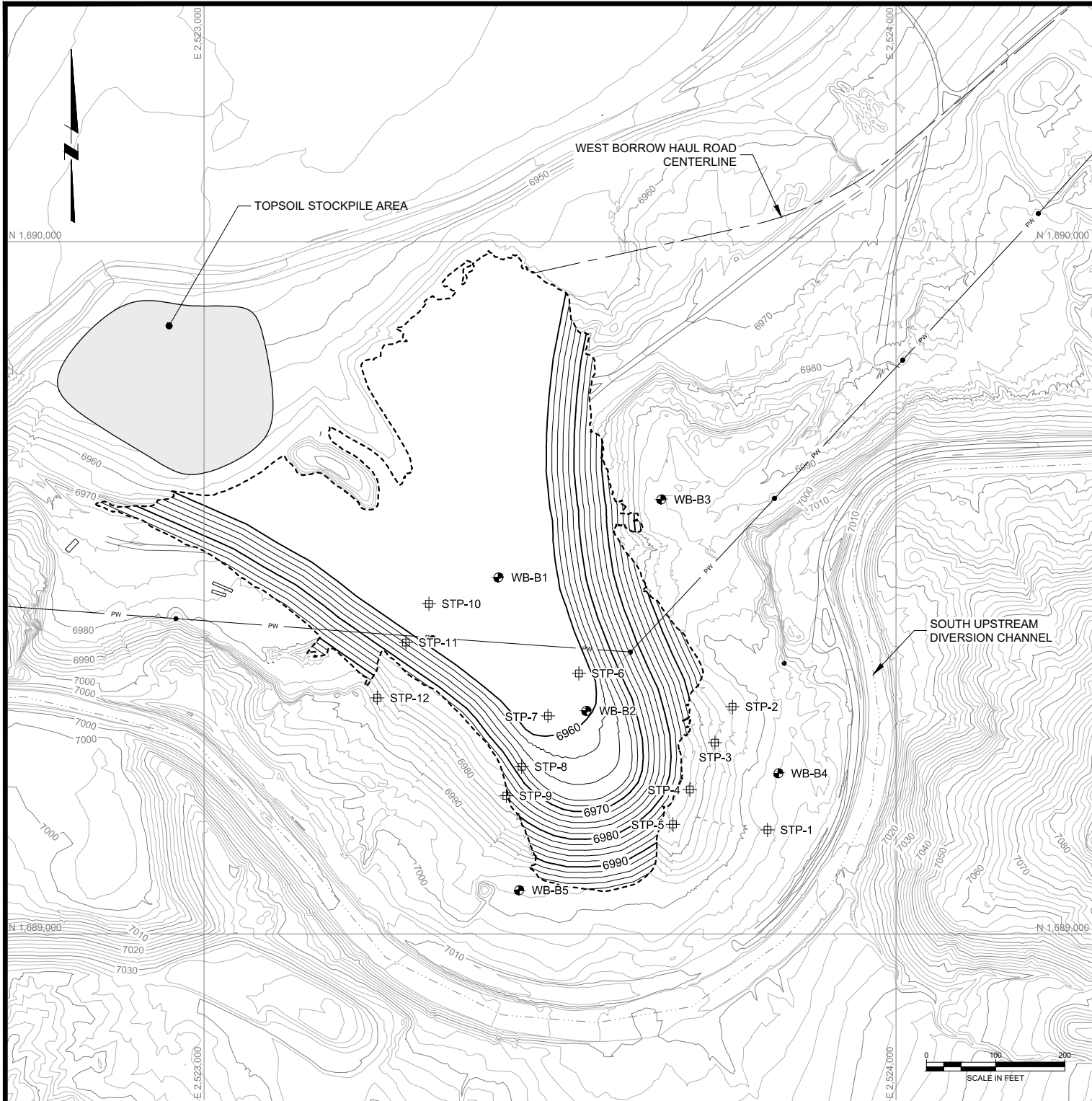
DESIGNED	K REED
CHECKED	M WITLER
APPROVED	J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
BORROW AREAS LOCATION MAP

SHEET
8-01
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WEST BORROW AREA - FINAL GRADING (EXCAVATED)



WEST BORROW AREA - CUT DEPTHS

LEGEND:

- | | | | |
|--|---|--|----------------------------------|
| | EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET | | BORROW AREA BOUNDARY |
| | BORROW EXCAVATION CONTOUR & ELEVATION, FEET | | BORROW AREA HAUL ROAD CENTERLINE |
| | BORROW EXCAVATION DEPTHS & ELEVATION, FEET | | NATURAL DRAINAGE |
| | OVERHEAD POWER LINE | | EXISTING ROAD |
| | | | STRUCTURES |
| | | | SOIL BORING (MWH, 2013) |
| | | | TEST PIT (MWH, 2012) |

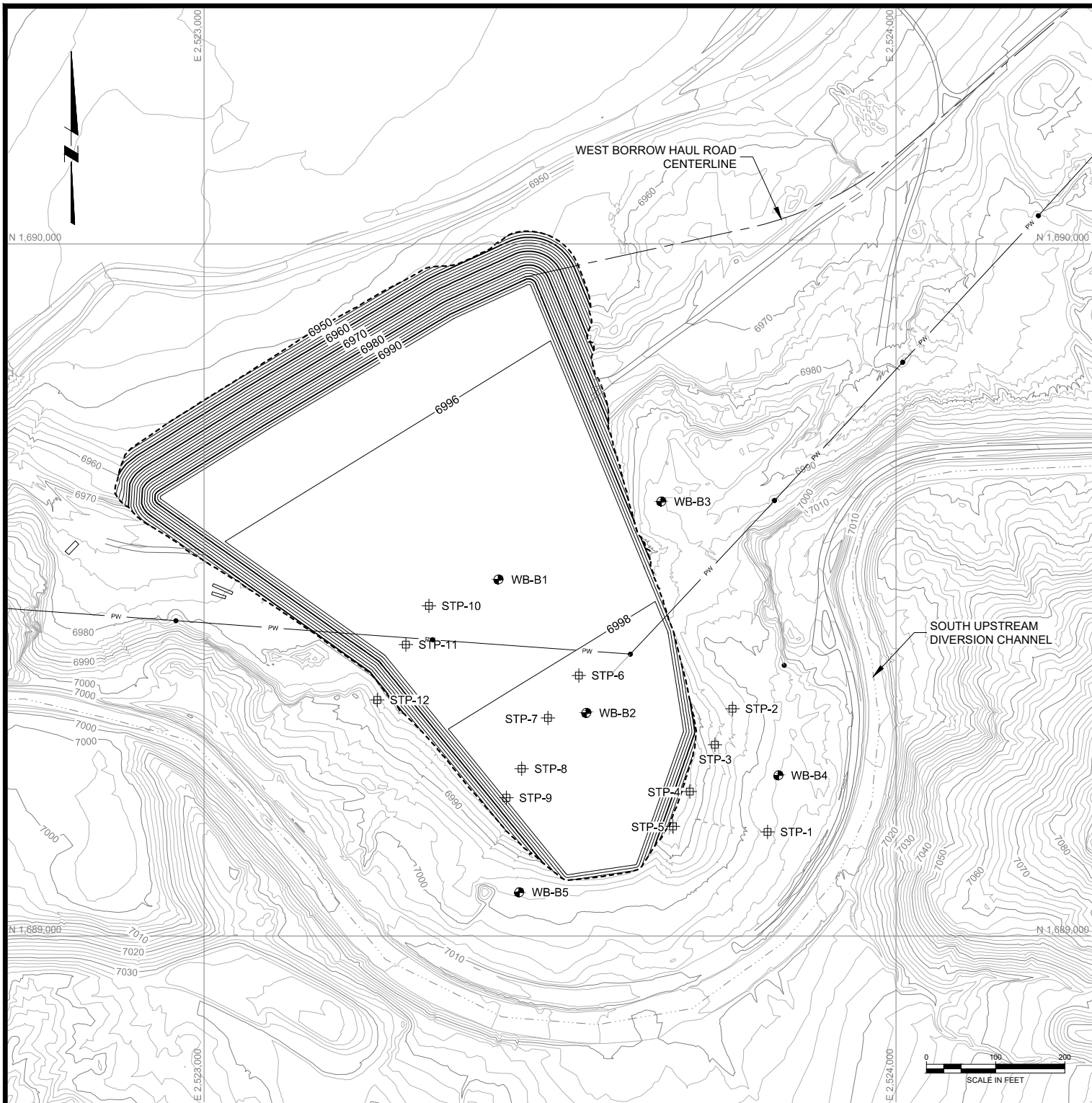
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
WEST BORROW AREA

SHEET
8-03
233001048

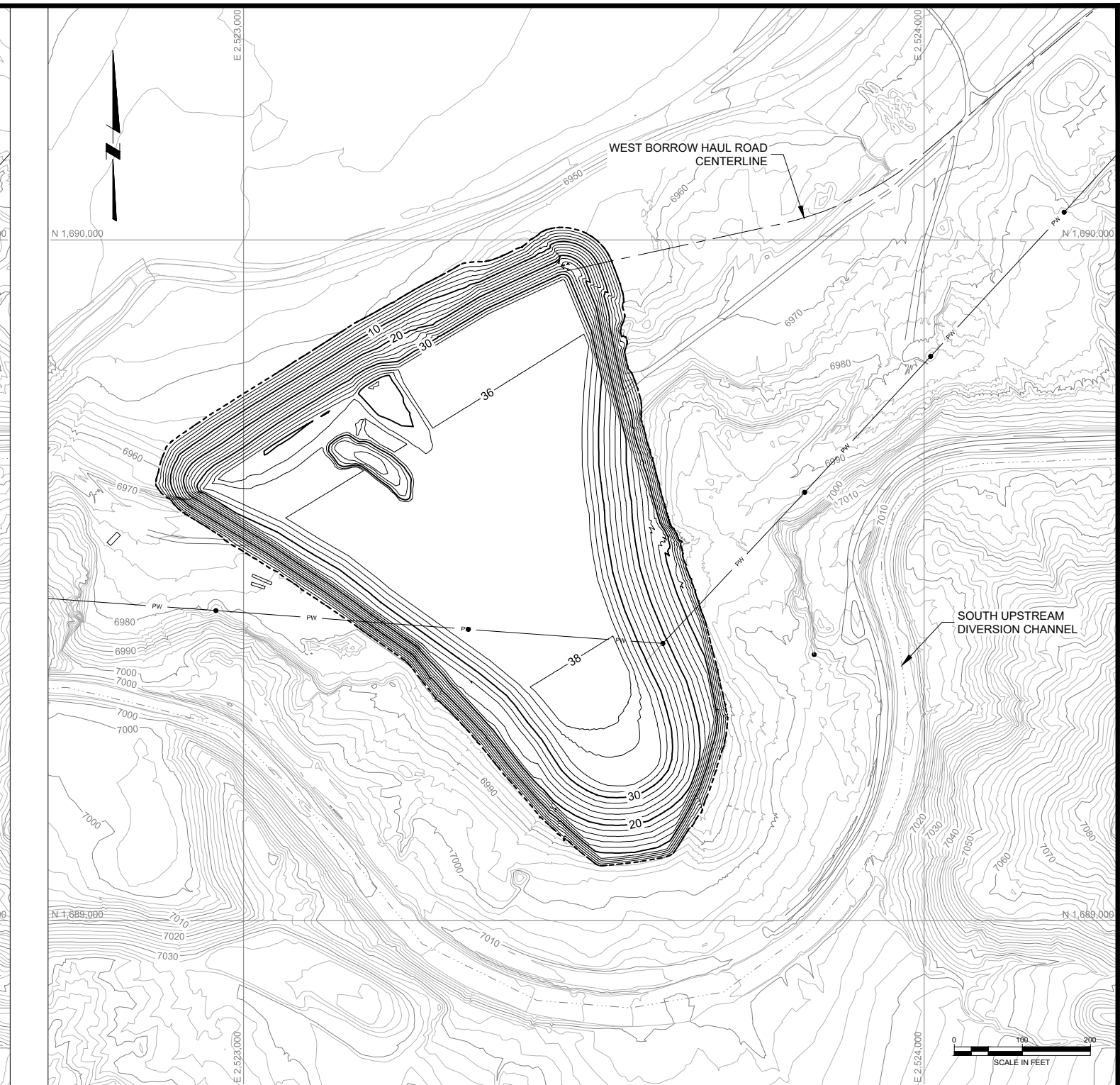
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WEST BORROW AREA - FINAL GRADING (BACKFILLED)

- NOTE(S):**
- ALLOWABLE FILL PLACEMENT FOLLOWING BORROW REMOVAL FOR COVER SOIL.
 - FINAL GRADING PLAN ASSUMES 443,000 CY OF FILL.

				DESIGNED <u>_K REED</u>
D	09/24/18	KR	ISSUED FOR LAR	CHECKED <u>_M WITLER</u>
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	APPROVED <u>_J CUMBERS</u>
REV	DATE	BY	DESCRIPTION	



WEST BORROW AREA - FILL DEPTHS

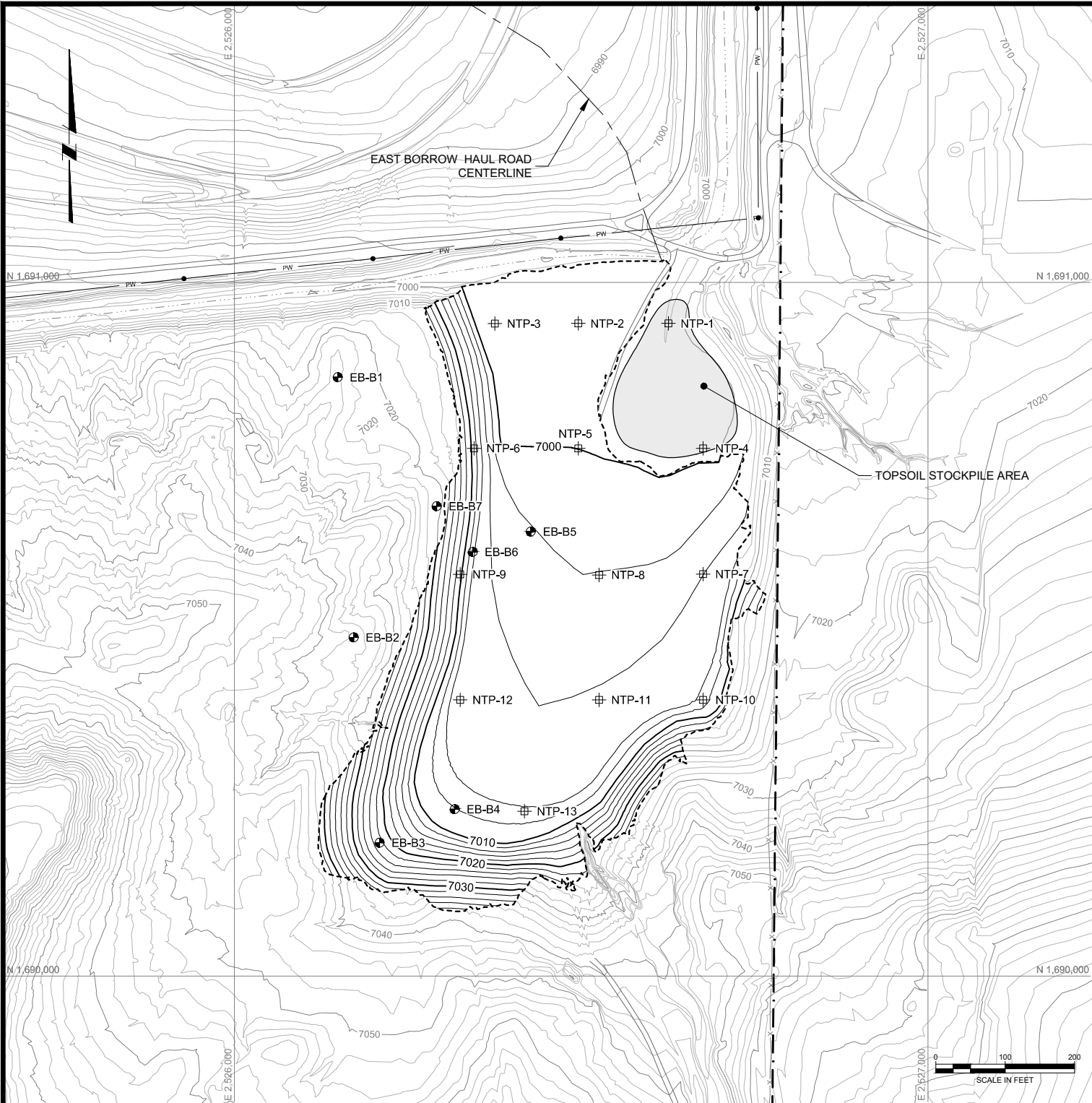
- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - BORROW EXCAVATION CONTOUR & ELEVATION, FEET
 - BORROW EXCAVATION DEPTHS & ELEVATION, FEET
 - OVERHEAD POWER LINES
 - BORROW AREA BOUNDARY
 - BORROW AREA HAUL ROAD CENTERLINE
 - NATURAL DRAINAGE
 - EXISTING ROAD
 - STRUCTURES
 - SOIL BORING (MWH, 2013)
 - TEST PIT (MWH, 2012)



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
WEST BORROW AREA BACKFILLED

SHEET
8-04
233001048

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EAST BORROW AREA - FINAL GRADING



EAST BORROW AREA - CUT DEPTHS

LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- BORROW EXCAVATION CONTOUR & ELEVATION, FEET
- BORROW EXCAVATION DEPTHS & ELEVATION, FEET
- CHURCH ROCK MILL SITE BOUNDARY

- BORROW AREA BOUNDARY
- BORROW AREA HAUL ROAD CENTERLINE
- NATURAL DRAINAGE
- EXISTING ROAD
- EXISTING FENCE
- OVERHEAD POWER LINES

- SOIL BORING (MWH, 2013)
- TEST PIT (MWH, 2012)

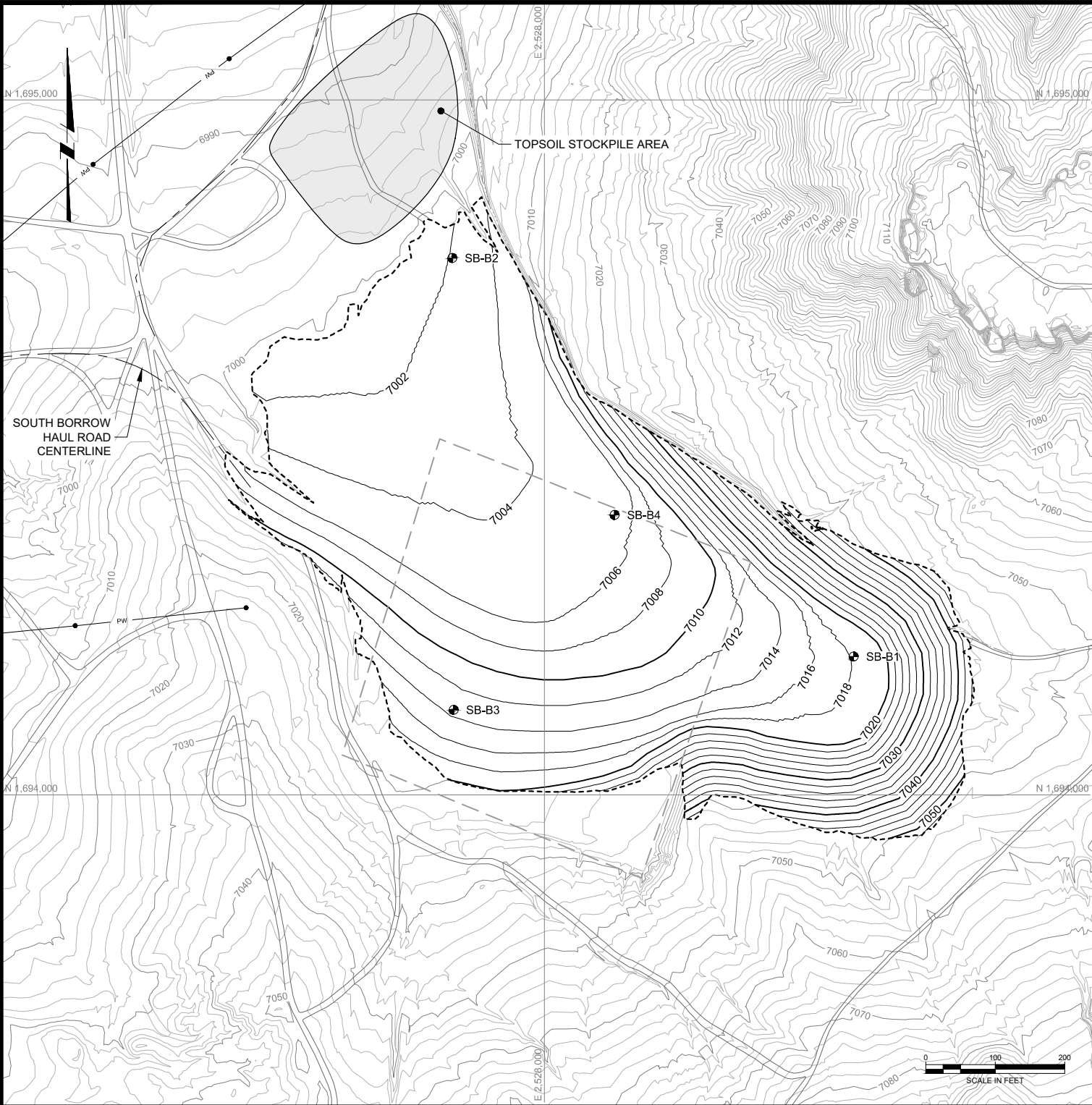
D	09/24/18	KR	ISSUED FOR LAR	DESIGNED _K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _M WITLER
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED _J CUMBERS



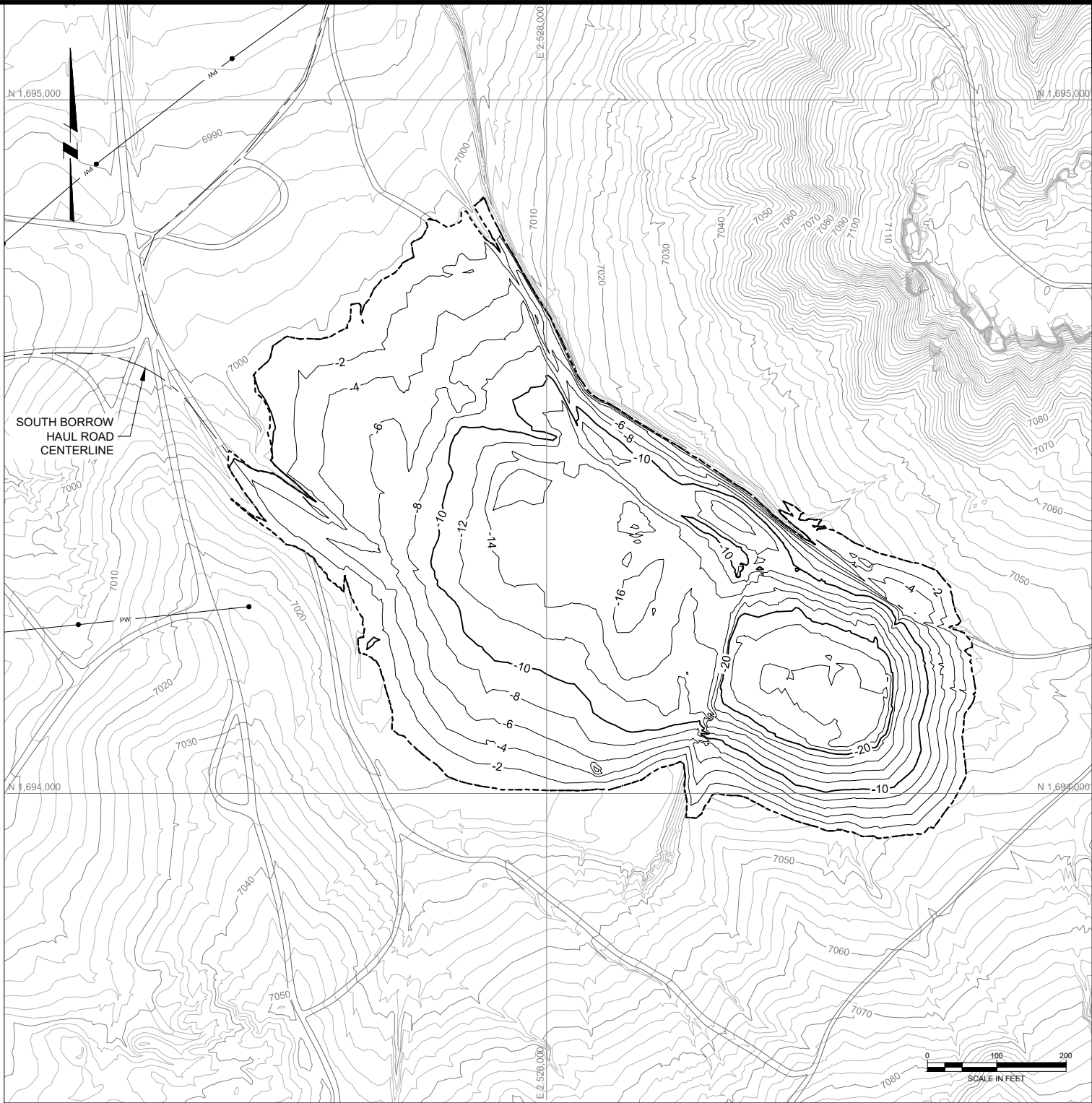
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
EAST BORROW AREA

SHEET
8-05
233001048

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SOUTH BORROW AREA - FINAL GRADING



SOUTH BORROW AREA - CUT DEPTHS

LEGEND:

- | | | | |
|--|---|--|----------------------------------|
| | EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET | | BORROW AREA BOUNDARY |
| | BORROW EXCAVATION CONTOUR & ELEVATION, FEET | | BORROW AREA HAUL ROAD CENTERLINE |
| | BORROW EXCAVATION DEPTHS & ELEVATION, FEET | | NATURAL DRAINAGE |
| | OVERHEAD POWER LINES | | EXISTING ROAD |
| | | | POTENTIAL BURIED DEBRIS AREA |
| | | | SOIL BORING (MWH, 2013) |

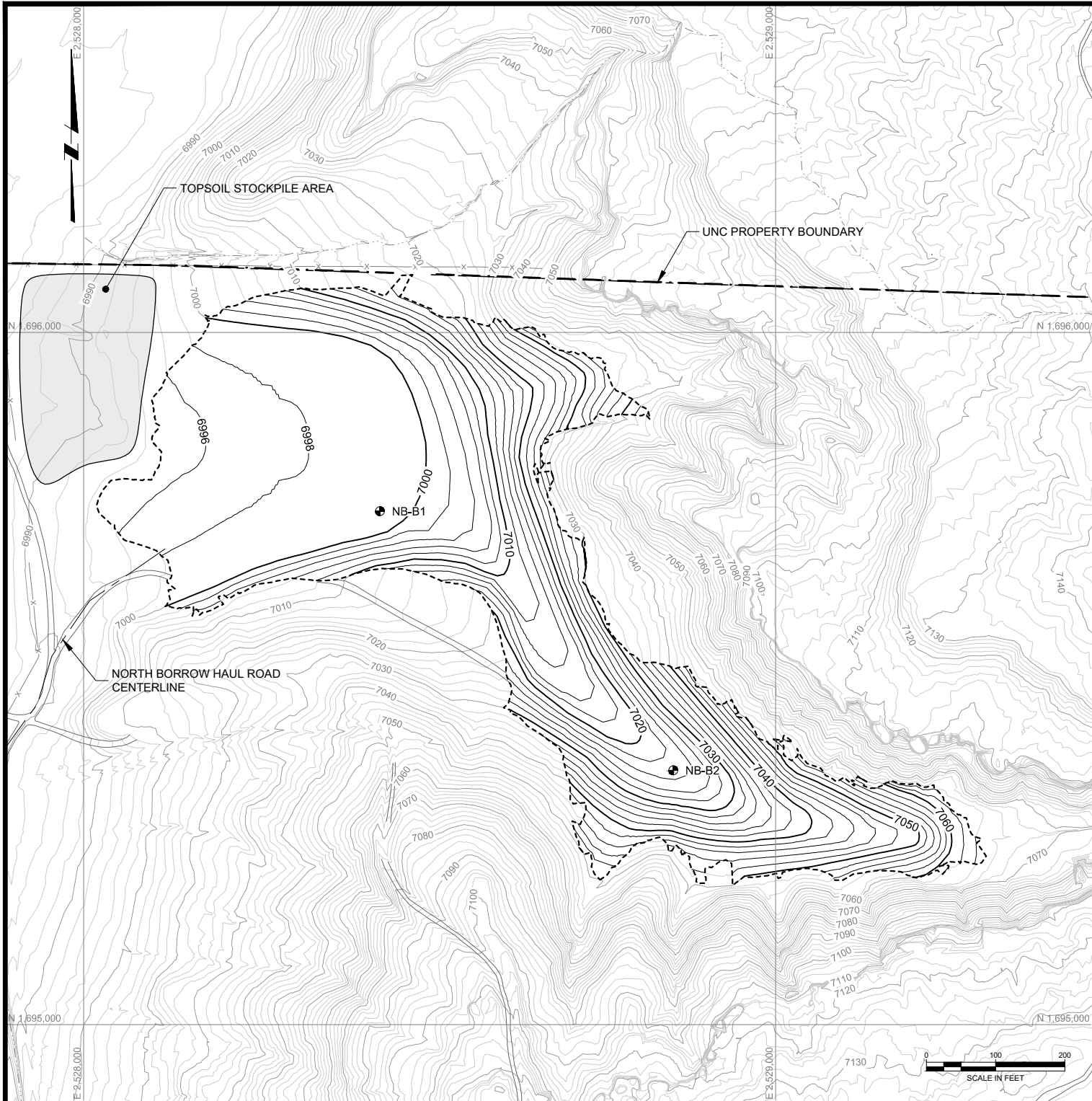
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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	M WITLER
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J CUMBERS
A	07/15/16	KR	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



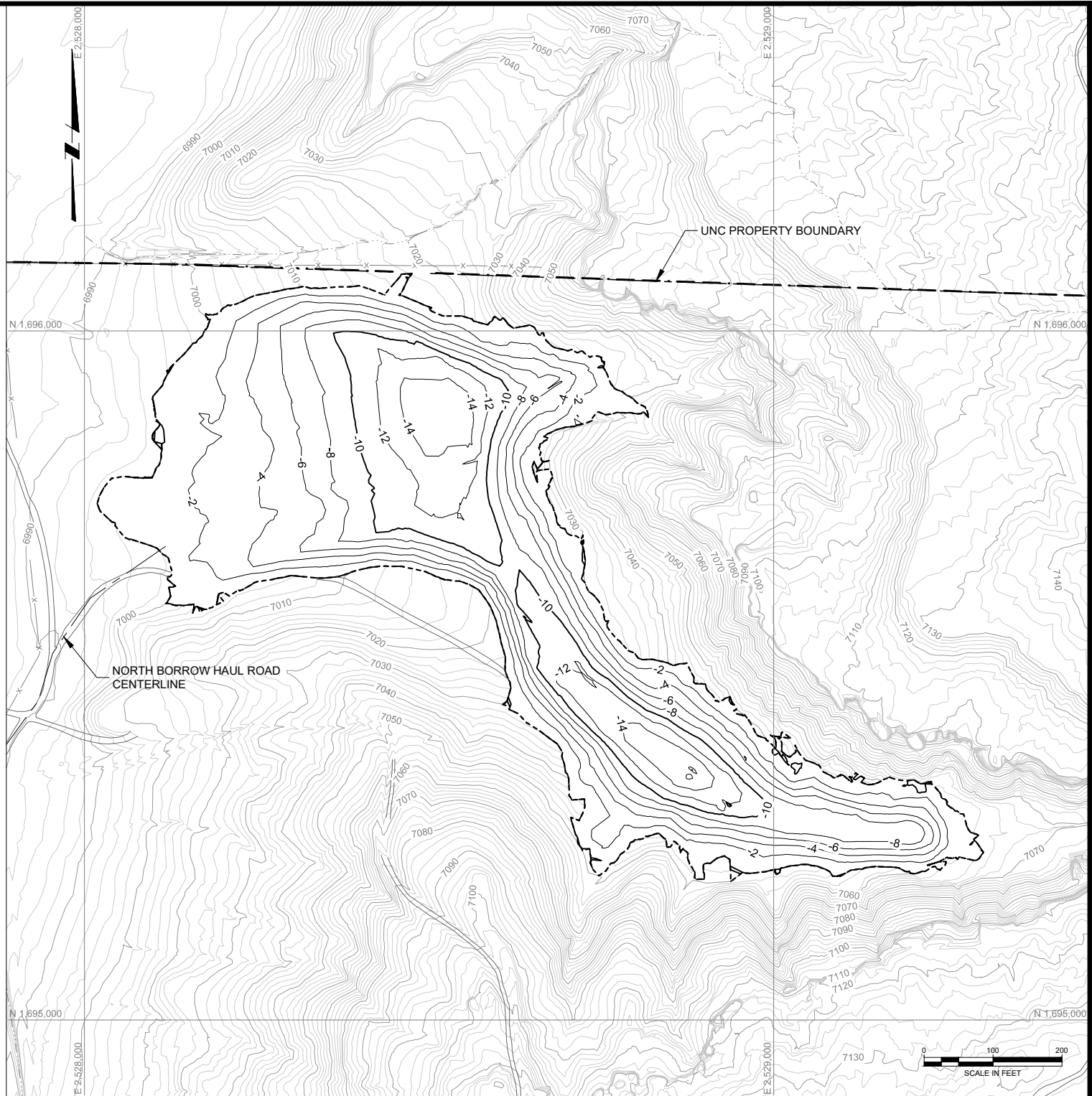
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
SOUTH BORROW AREA

SHEET
8-06
233001048

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NORTH BORROW AREA - FINAL GRADING



NORTH BORROW AREA - CUT DEPTHS

LEGEND:

- | | | | |
|--|---|--|----------------------------------|
| | EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET | | BORROW AREA BOUNDARY |
| | BORROW EXCAVATION CONTOUR & ELEVATION, FEET | | BORROW AREA HAUL ROAD CENTERLINE |
| | BORROW EXCAVATION DEPTHS & ELEVATION, FEET | | NATURAL DRAINAGE |
| | OVERHEAD POWER LINES | | EXISTING ROAD |
| | | | POTENTIAL BURIED DEBRIS AREA |
| | | | SOIL BORING (MWH, 2013) |

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED <u>K REED</u>
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED <u>M WITLER</u>
A	07/15/16	KR	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED <u>J CUMBERS</u>



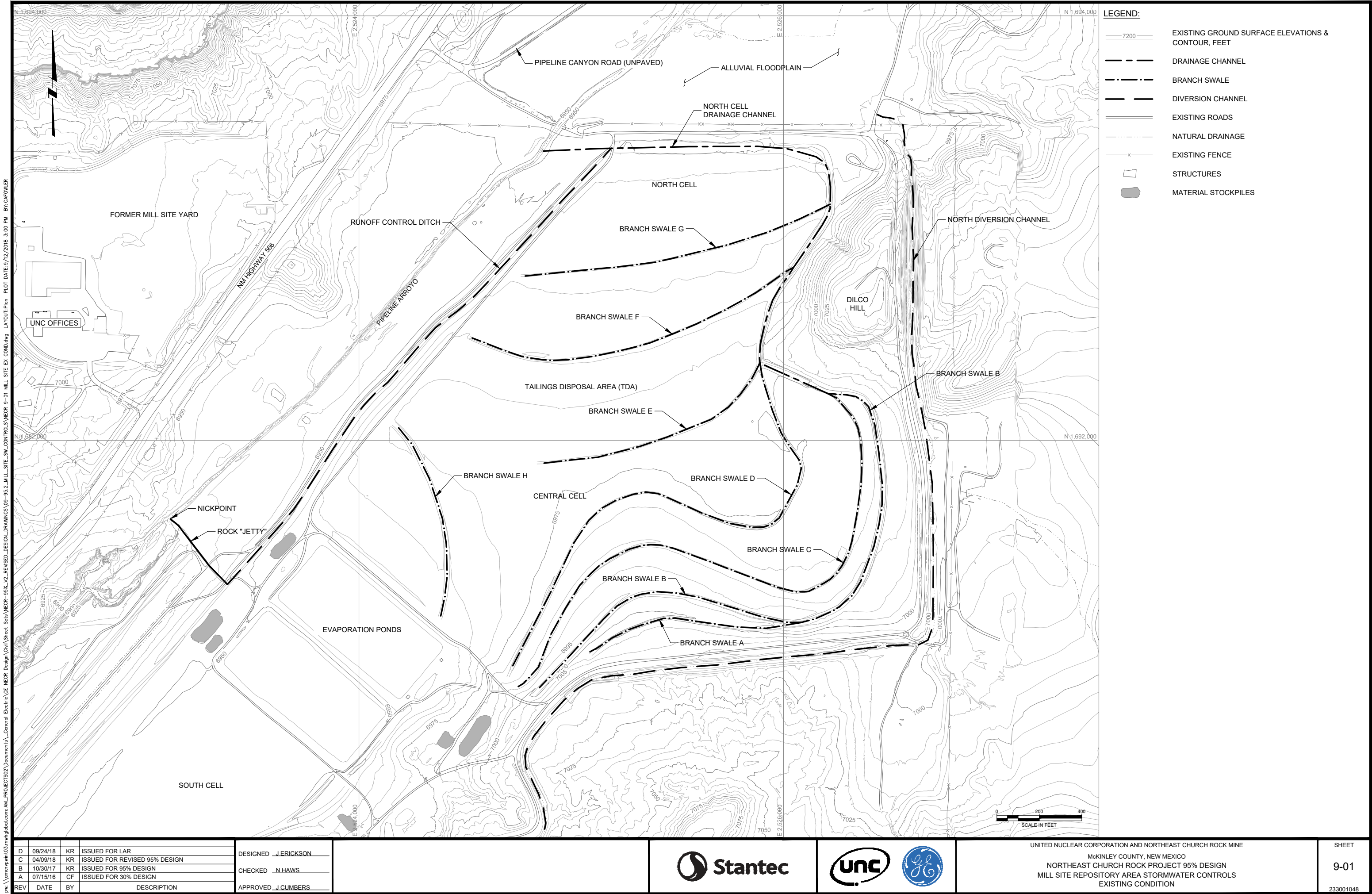
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO

NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
NORTH BORROW AREA

SHEET




8-07

233001048



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C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _N.HAWS
A	07/15/16	CF	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED _J.CUMBERS



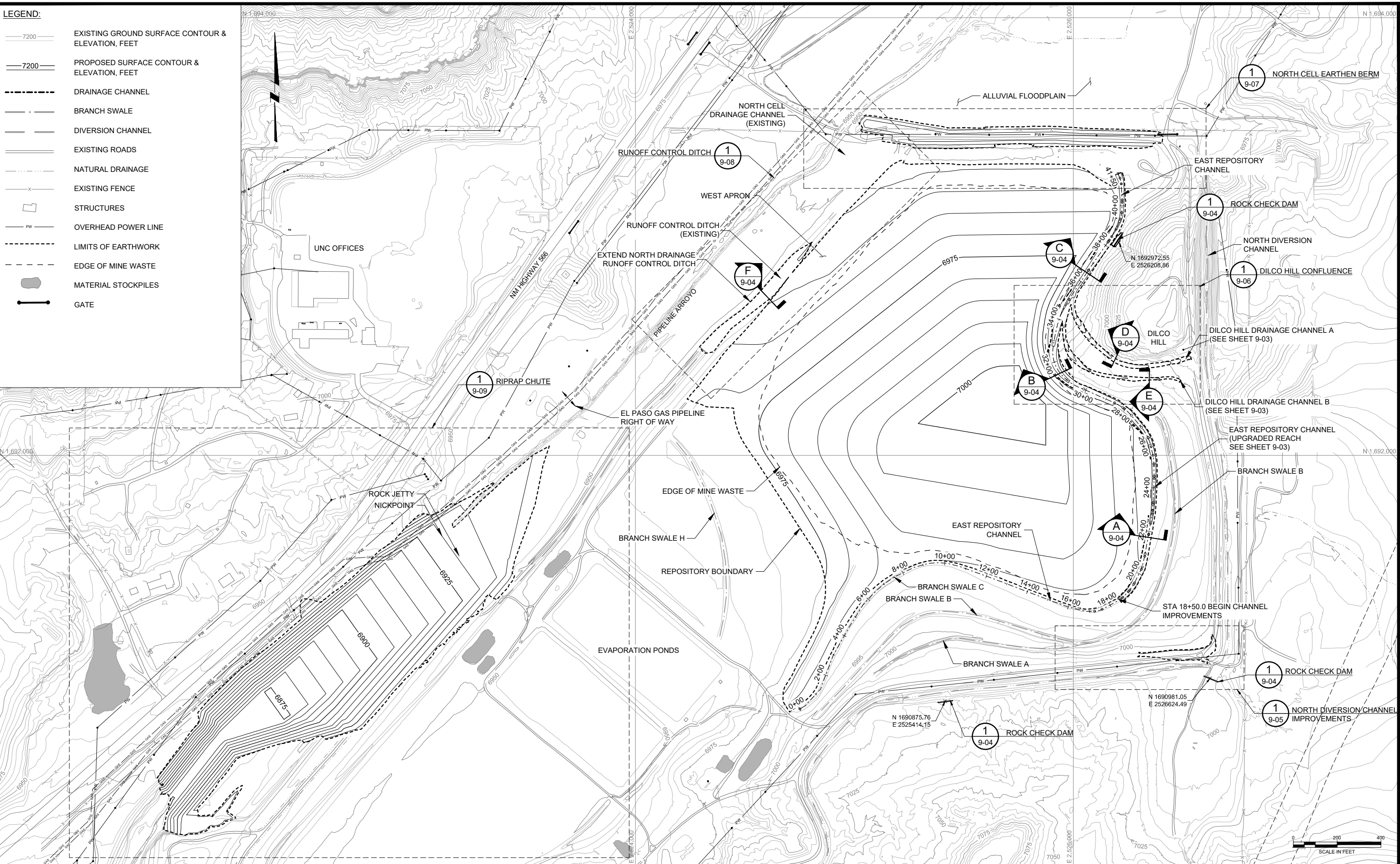
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
EXISTING CONDITION

SHEET
9-01
233001048

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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- DRAINAGE CHANNEL
- BRANCH SWALE
- DIVERSION CHANNEL
- EXISTING ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- STRUCTURES
- OVERHEAD POWER LINE
- LIMITS OF EARTHWORK
- EDGE OF MINE WASTE
- MATERIAL STOCKPILES
- GATE



D	09/24/18	KR	ISSUED FOR LAR
C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN
B	10/30/17	KR	ISSUED FOR 95% DESIGN
A	07/15/16	CF	ISSUED FOR 30% DESIGN
REV	DATE	BY	DESCRIPTION

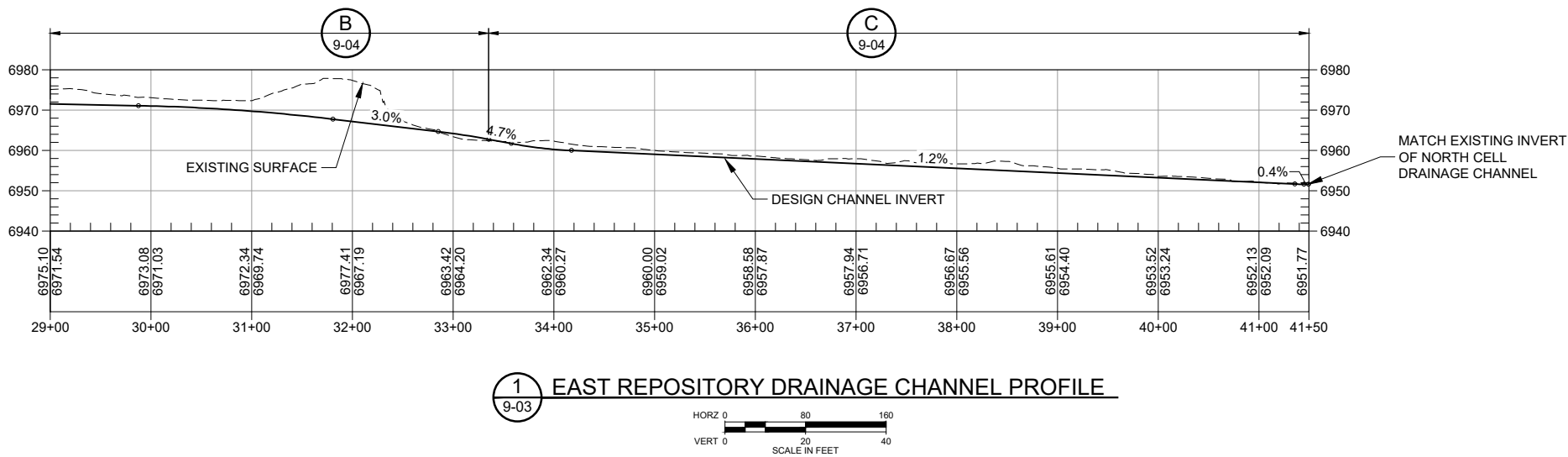
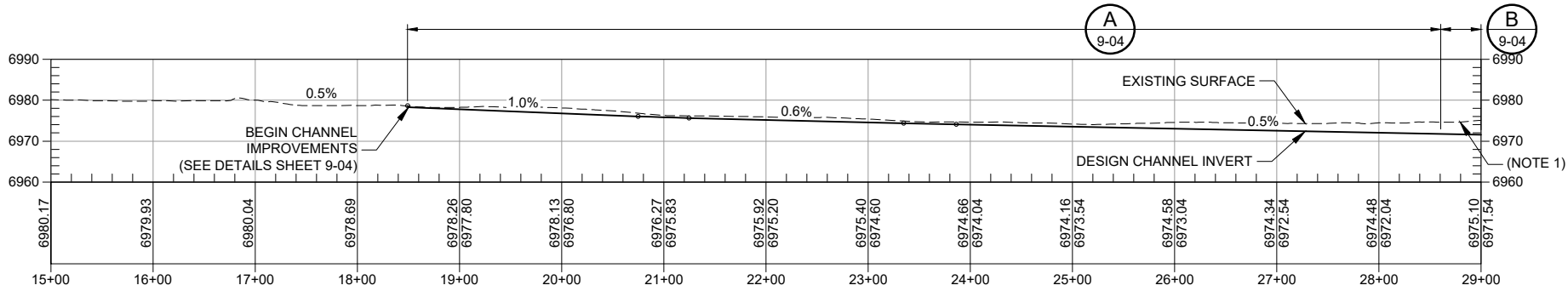
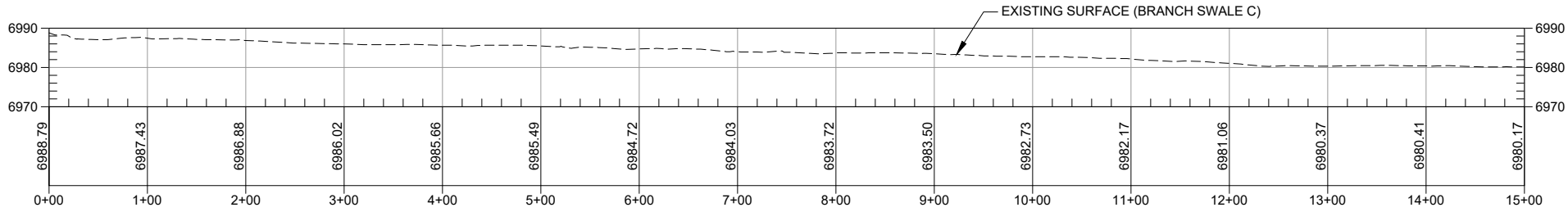
DESIGNED	J.ERICKSON
CHECKED	N.HAWS
APPROVED	C.CUMBERS



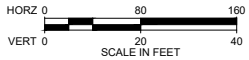
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
FINAL CONDITION

SHEET
9-02
233001048

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1 EAST REPOSITORY DRAINAGE CHANNEL PROFILE
9-03



NOTE(S):

1. REMOVE EXISTING SEDIMENT ACCUMULATION IN CHANNEL

C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	DESIGNED	J. ERICKSON
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED	N. HAWS
A	07/15/16	CF	ISSUED FOR 30% DESIGN	APPROVED	J. CUMBERS
REV	DATE	BY	DESCRIPTION		

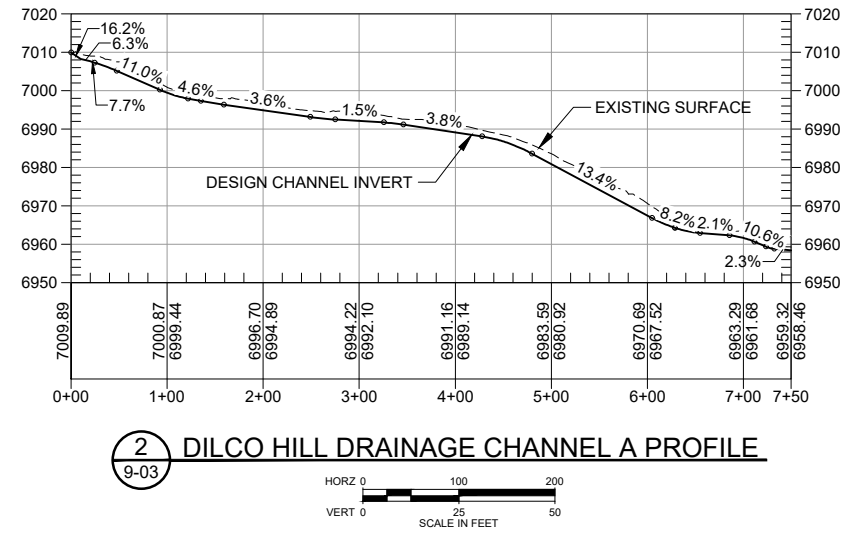


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
REPOSITORY CHANNEL PROFILES

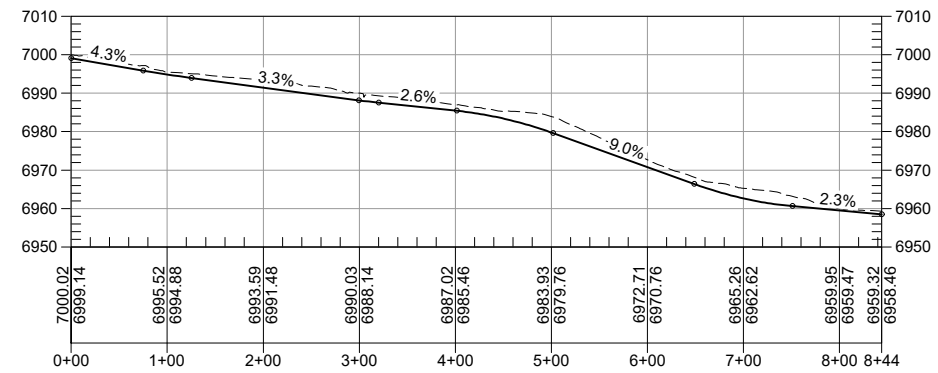
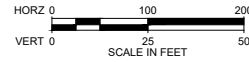
SHEET

9-03

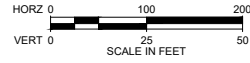
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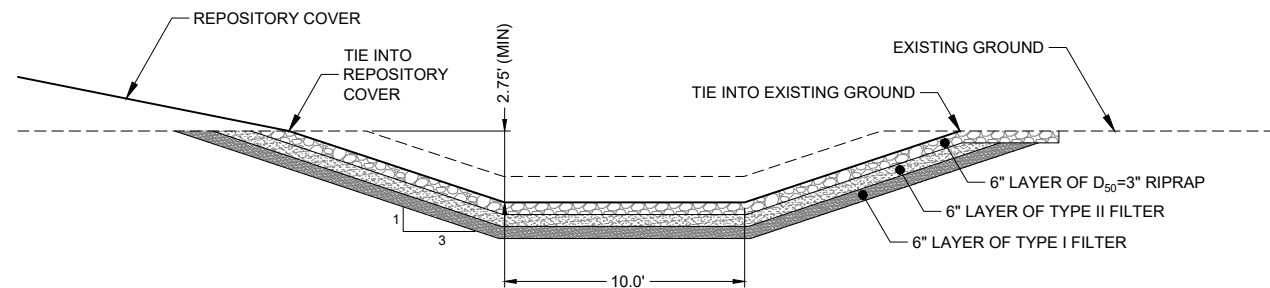
2 DILCO HILL DRAINAGE CHANNEL A PROFILE
9-03



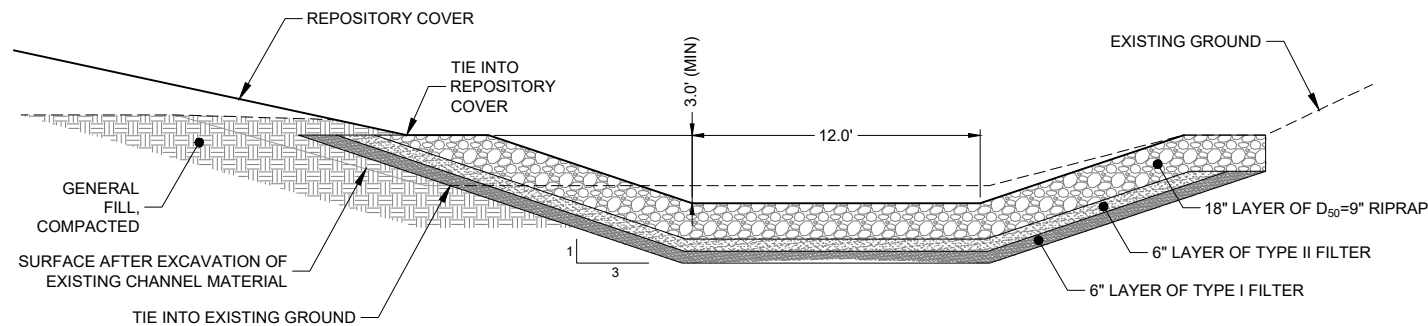
3 DILCO HILL DRAINAGE CHANNEL B PROFILE
9-03



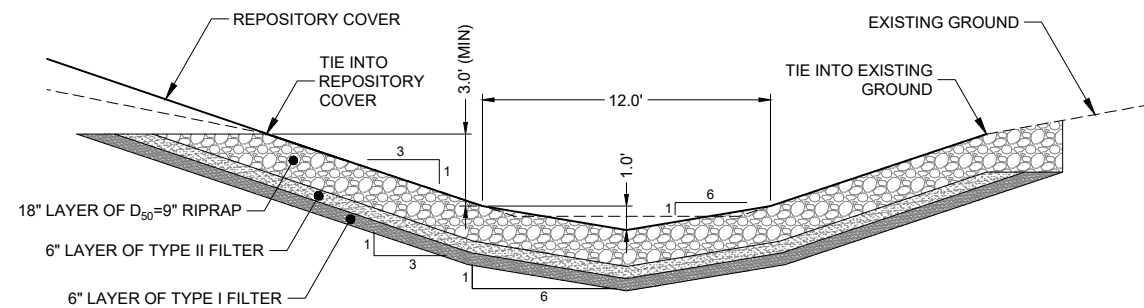
p:\m\env\proj\103\mnh\global\com\AM_PROJECTS\202\Documents\General Electric\GE_NECR_Design\Civil\Sheet Sets\NECR-95%_V2_REVISED_DESIGN_DRAWINGS\09-95.2_MILL_SITE_SW_CONTROLS\NECR 9-04 MILL SITE REPOSITORY DETAILS.dwg LAYOUT: Plan PLOT DATE: 9/13/2018 2:38 PM BY: CAFOMLER



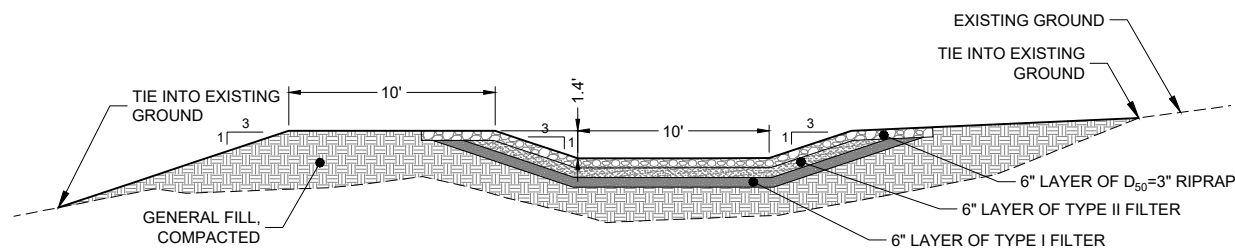
A EAST REPOSITORY DRAINAGE CHANNEL TYPICAL SECTION
9-02 STA 18+50.0 TO 28+30.0 (NOT TO SCALE)



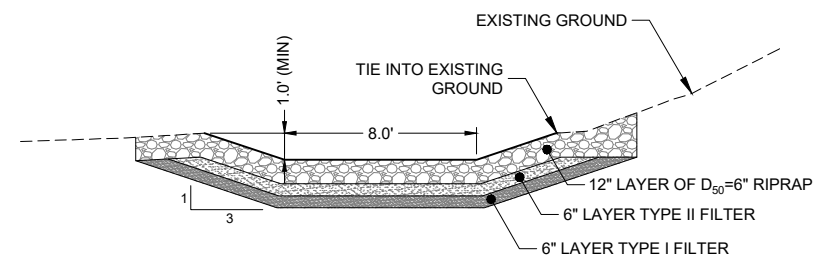
B EAST REPOSITORY DRAINAGE CHANNEL TYPICAL SECTION
9-02 SECTION 28+30.0 TO 34+60.0 (NOT TO SCALE)



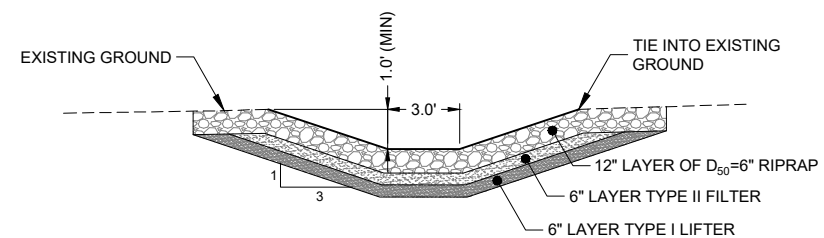
C EAST REPOSITORY DRAINAGE CHANNEL TYPICAL SECTION
9-02 SECTION 34+60.0 TO 41+39.0 (NOT TO SCALE)



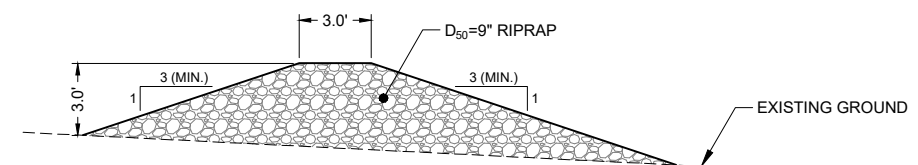
F RUNOFF CONTROL DITCH
9-02 (NOT TO SCALE)



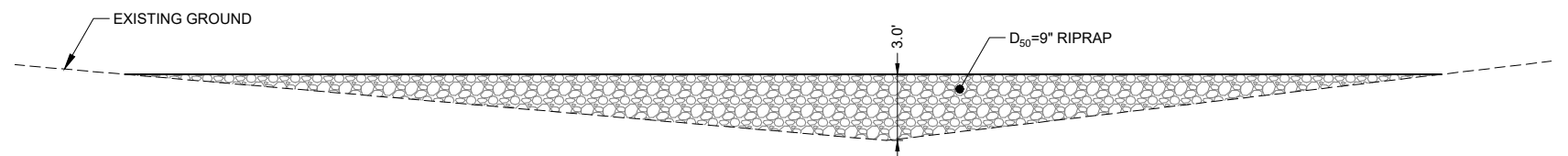
D DILCO HILL DRAINAGE CHANNEL A TYPICAL SECTION
9-02 (NOT TO SCALE)



E DILCO HILL DRAINAGE CHANNEL B TYPICAL CHANNEL
9-02 (NOT TO SCALE)



PROFILE



SECTION

1 TYPICAL ROCK CHECK DAM PROFILE AND SECTION
9-02 (NOT TO SCALE)

NOTE:

1. CONSTRUCT ROCK CHECK DAM TO 3' DEPTH AT DEEPEST POINT AND FILL ACROSS THE RAVINE PERPENDICULAR TO THE PREDOMINANT DRAINAGE FLOWPATH.

REV	DATE	BY	DESCRIPTION	APPROVED
C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN	DESIGNED J. ERICKSON
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED N. HAWS
A	07/15/16	CF	ISSUED FOR 30% DESIGN	APPROVED J. CUMBERS



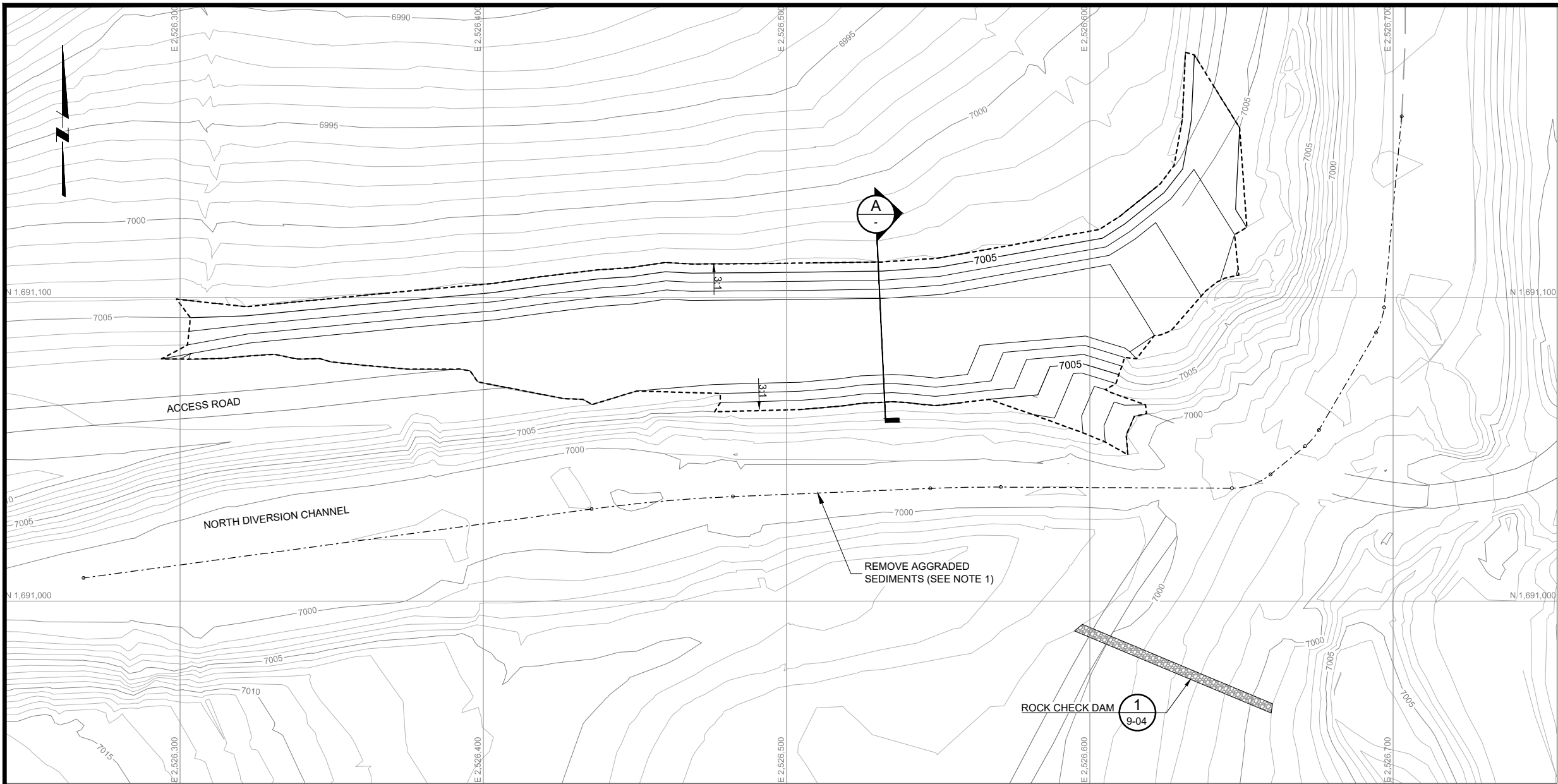
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
DETAILS

SHEET

9-04

233001048

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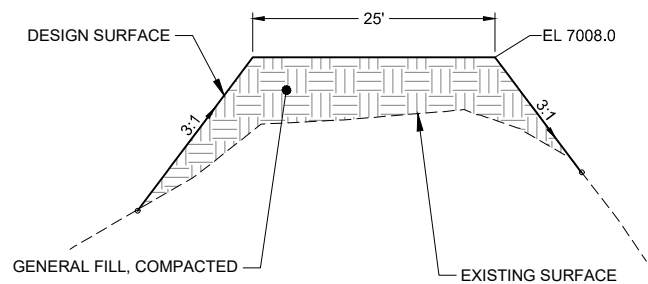
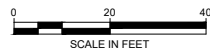
LEGEND:

- EXISTING INVERT SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED INVERT SURFACE CONTOUR & ELEVATION, FEET
- DRAINAGE CHANNEL
- BRANCH SWALE
- DIVERSION CHANNEL
- EXISTING FENCE
- EXISTING ROAD

NOTES:

- REMOVE AGGRADED SEDIMENTS ALONG THIS ALIGNMENT STARTING AT STA 0+00. MAINTAIN A SLOPE BETWEEN 0.5% AND 0.7% TO TIE INTO EXISTING GROUND AT STATION 5+25.

1 NORTH DIVERSION CHANNEL IMPROVEMENTS
9-05



A NORTH DIVERSION CHANNEL IMPROVEMENTS SECTION
9-05



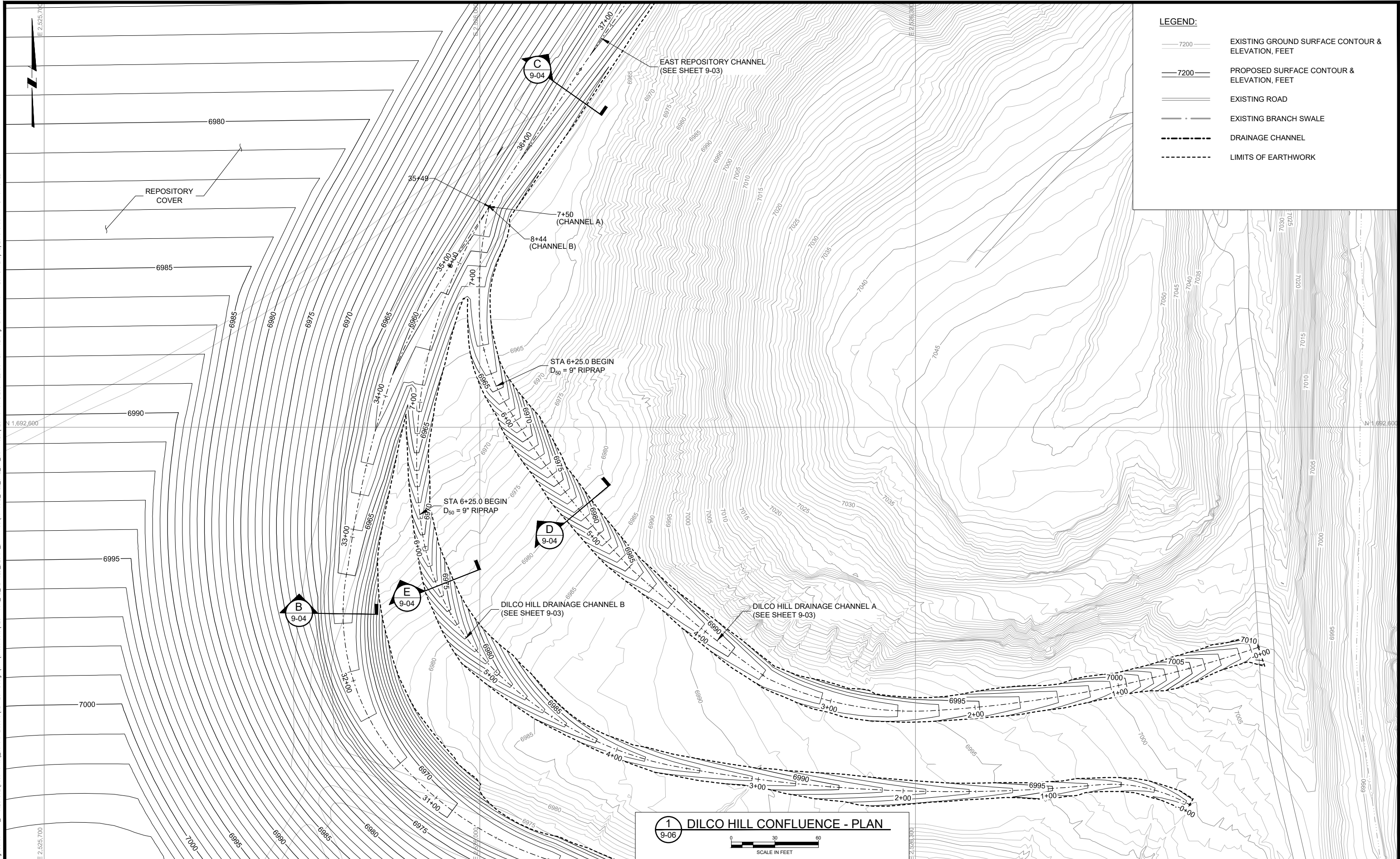
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C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN	CHECKED	N.HAWS
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J.CUMBERS
A	07/15/16	CF	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
NORTH DIVERSION CHANNEL IMPROVEMENTS

SHEET
9-05
233001048

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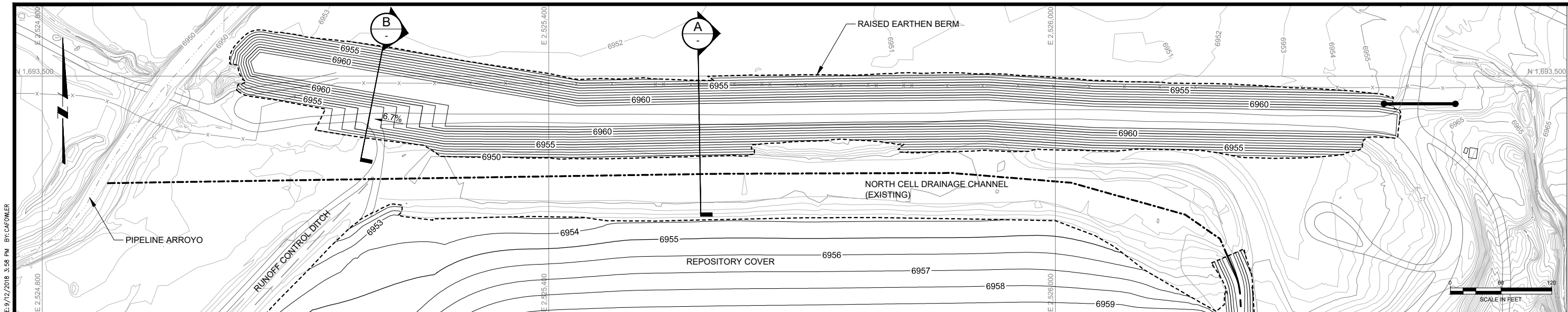


D	09/24/18	KR	ISSUED FOR LAR	DESIGNED	J.ERICKSON
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	CHECKED	N.HAWS
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED	J.CUMBERS
A	07/15/16	CF	ISSUED FOR 30% DESIGN		
REV	DATE	BY	DESCRIPTION		

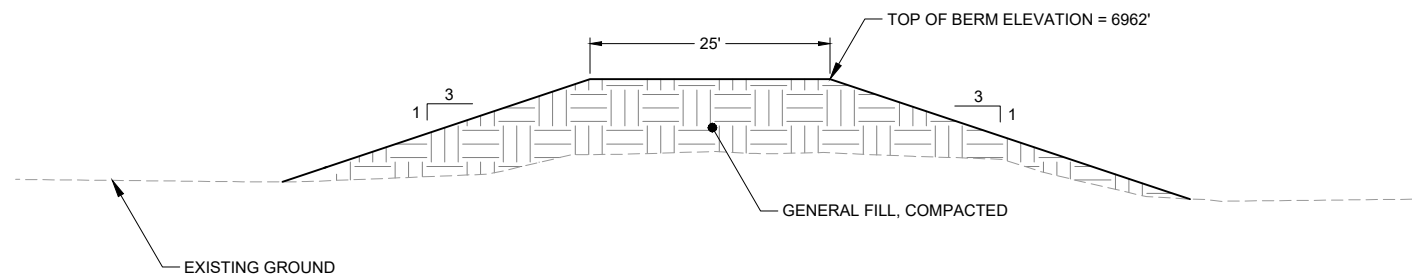


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
DILCO HILL CHANNEL CONFLUENCE

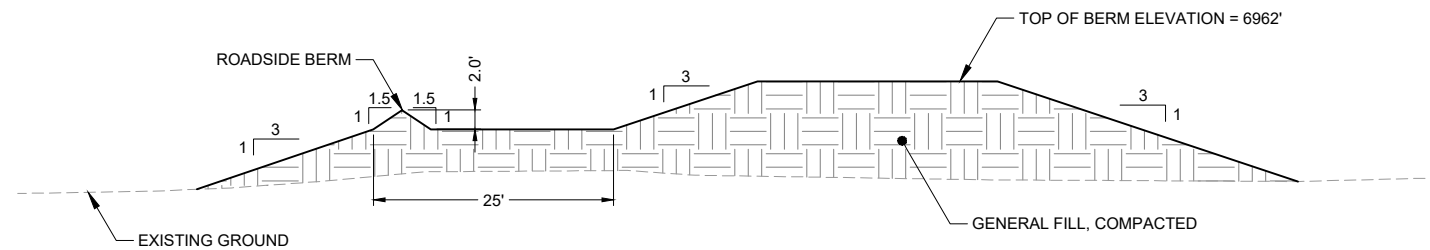
SHEET
9-06
233001048



- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - DRAINAGE CHANNEL
 - DIVERSION CHANNEL
 - EXISTING ROAD
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - STRUCTURES
 - LIMITS OF EARTHWORK
 - GATE

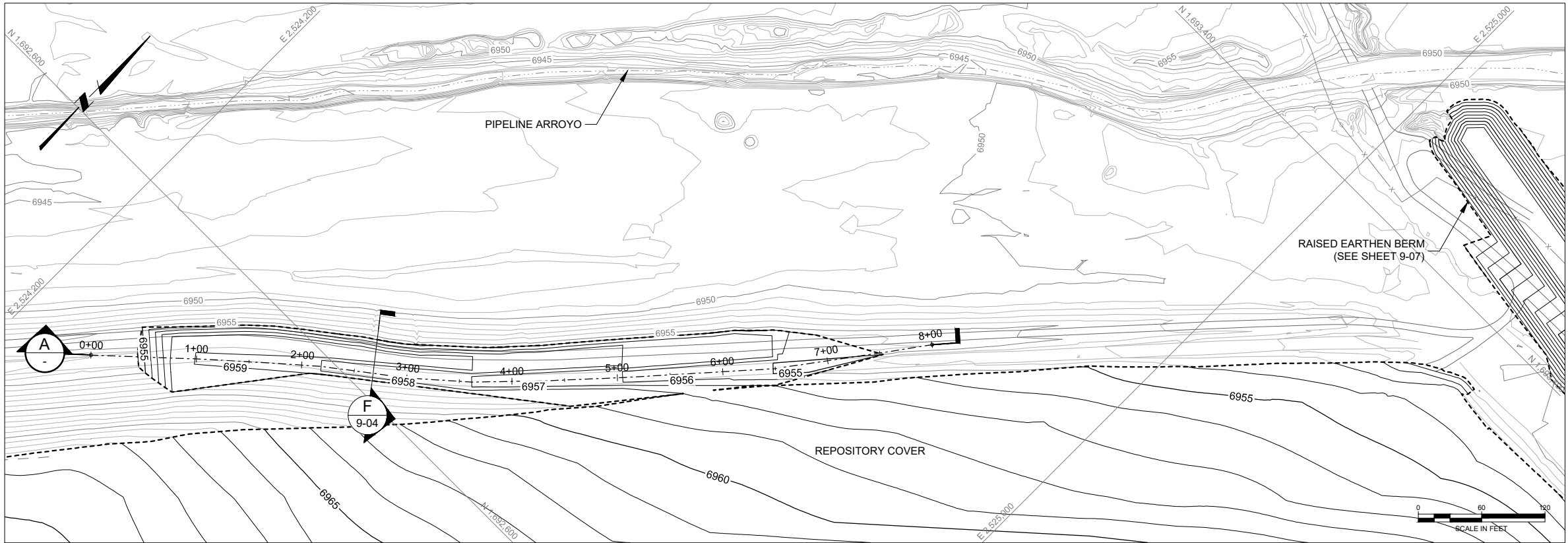


A SECTION A - RAISED EARTHEN BERM TYPICAL SECTION
(NOT TO SCALE)



B SECTION B - RAISED EARTHEN BERM WITH ACCESS RAMP TYPICAL SECTION
(NOT TO SCALE)

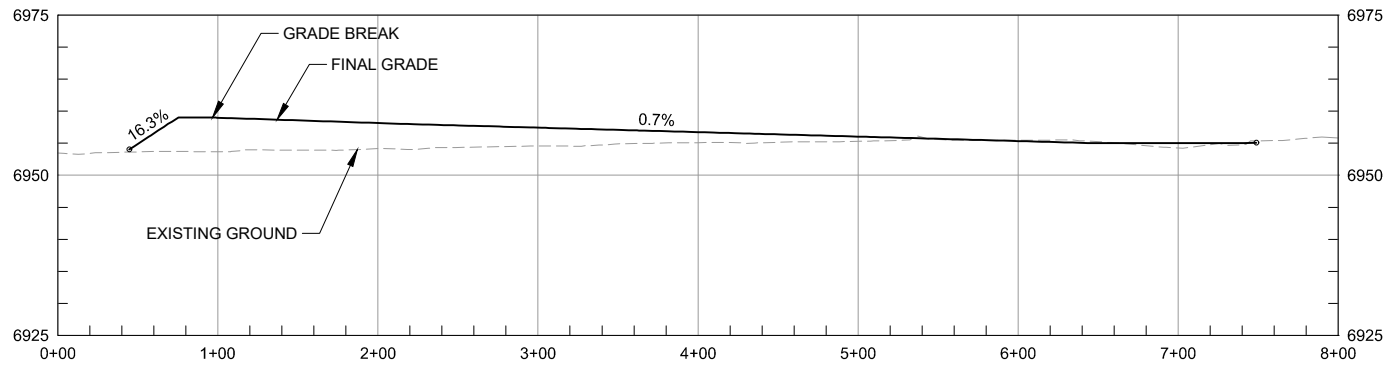
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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- DRAINAGE CHANNEL
- EXISTING ROAD
- NATURAL DRAINAGE
- LIMITS OF EARTHWORK

1 RUNOFF CONTROL DITCH
9-08 PLAN VIEW



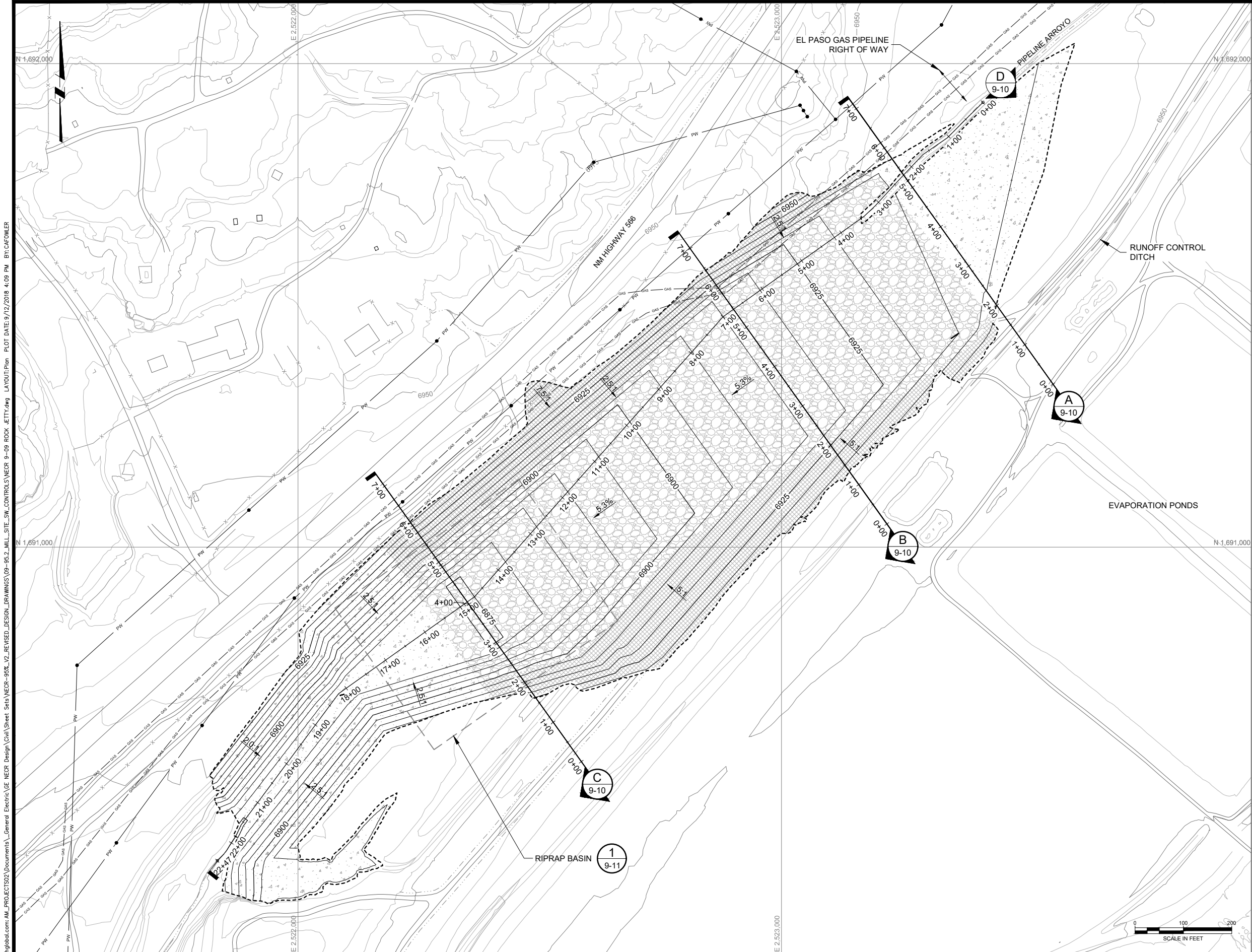
A PROFILE A - RUNOFF CONTROL DITCH

REV	DATE	BY	DESCRIPTION	APPROVED
D	09/24/18	KR	ISSUED FOR LAR	DESIGNED J. ERICKSON
C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN	CHECKED N. HAWS
B	10/30/17	KR	ISSUED FOR 95% DESIGN	APPROVED J. CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
McKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
RUNOFF CONTROL DITCH - PLAN AND PROFILE

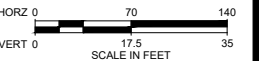
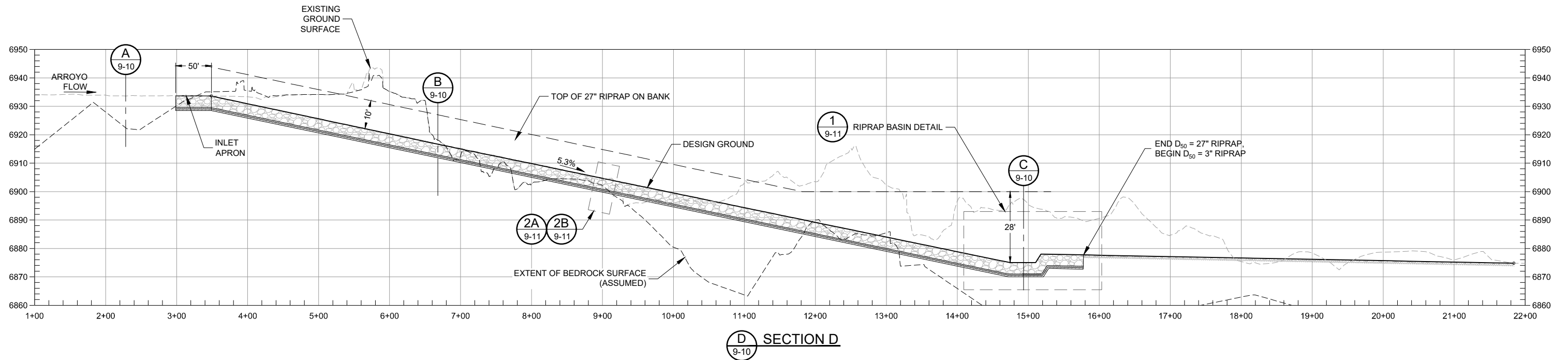
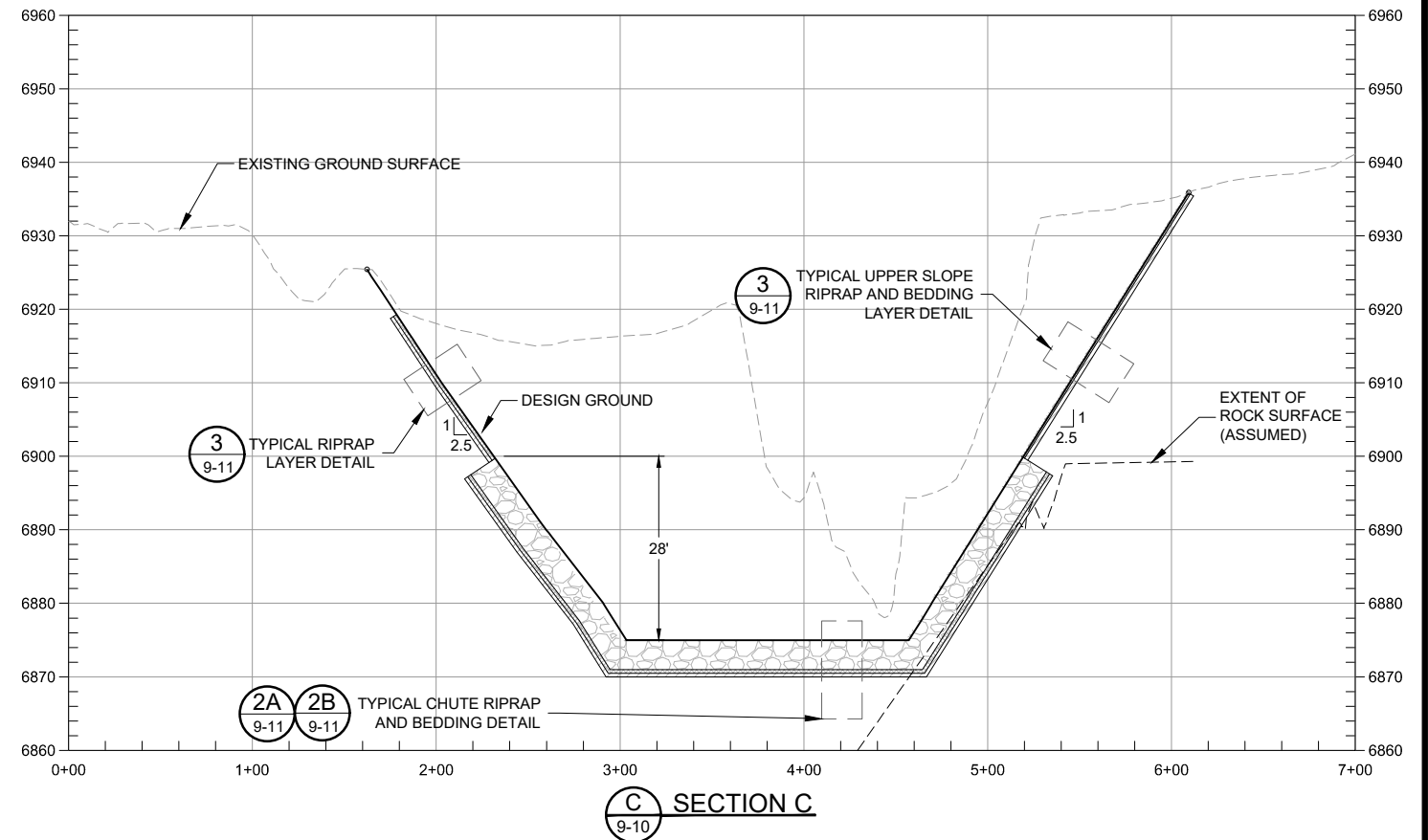
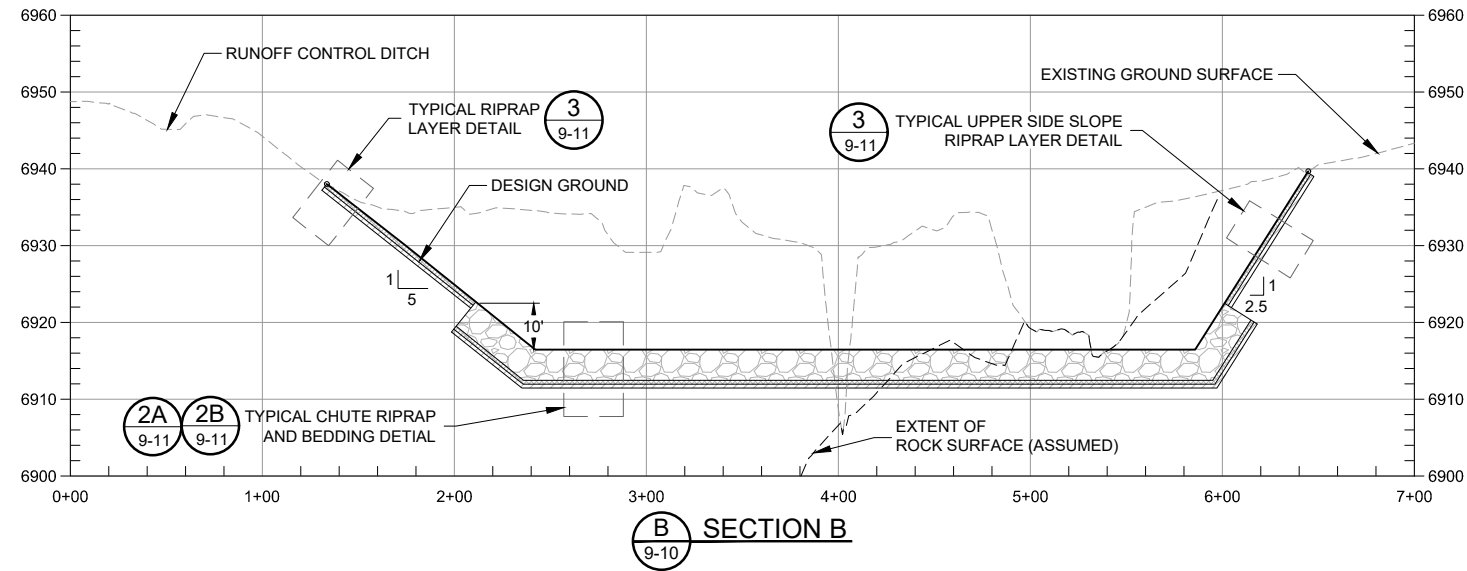
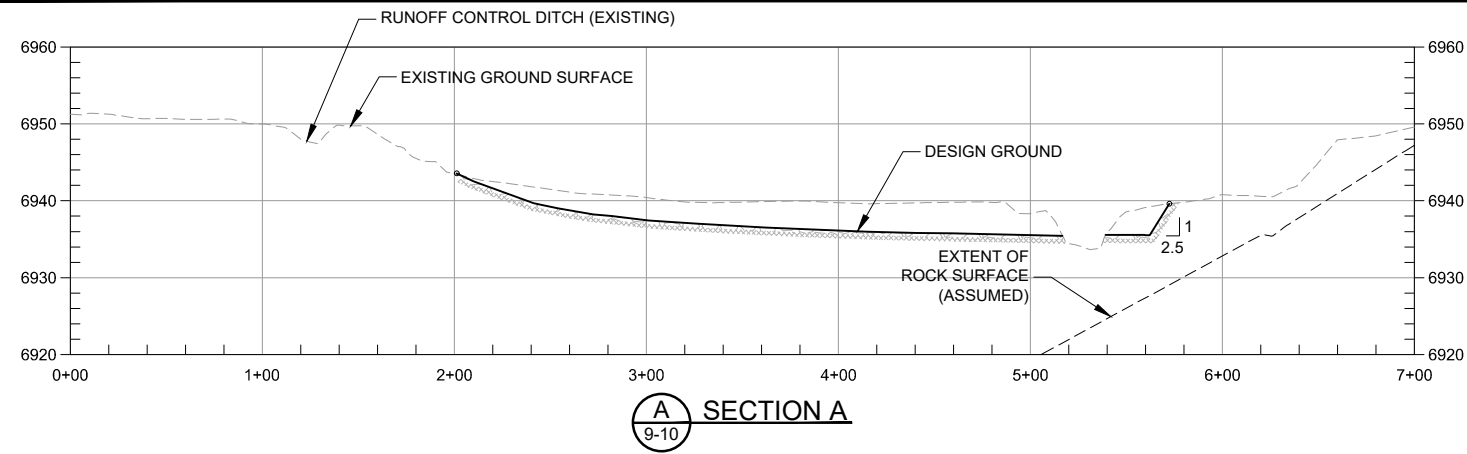
SHEET
9-08
233001048



LEGEND:

- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- 7200 PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- DRAINAGE CHANNEL
- EXISTING ROADS
- NATURAL DRAINAGE
- X- EXISTING FENCE
- [] STRUCTURES
- PW- OVERHEAD POWER LINE
- LIMITS OF EARTHWORK
- [] D₅₀ = 27" RIPRAP
- [] D₅₀ = 3" RIPRAP
- [] BOTTOMLAND SEED MIX

p:\mev\proj\103\mnh\global\com\AM_PROJECTS\202\Documents\General Electric\GE_NECR_Design\Civil\Sheet Sets\NECR-95%_V2_REVISED_DESIGN_DRAWINGS\09-95.2_MILL_SITE_SW_CONTROLS\NECR 9-10 MILL SITE PIPELINE PROFILE.dwg LAYOUT:Profile PLOT DATE:9/13/2018 1:34 PM BY:CAPWOWER



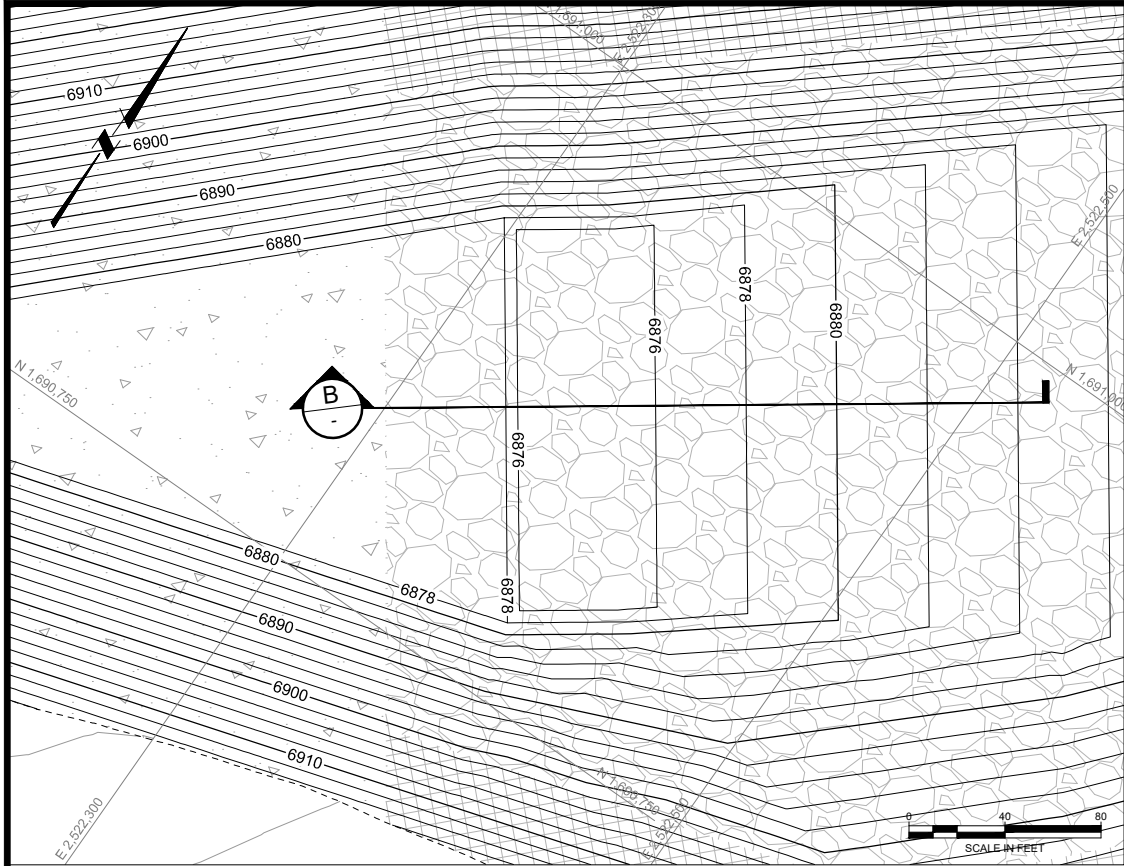
REV	DATE	BY	DESCRIPTION	APPROVED
C	04/09/18	RW	ISSUED FOR REVISED 95% DESIGN	DESIGNED J. ERICKSON
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED N. HAWS
A	03/15/16	RW	ISSUED FOR 30% DESIGN	APPROVED J. CUMBERS



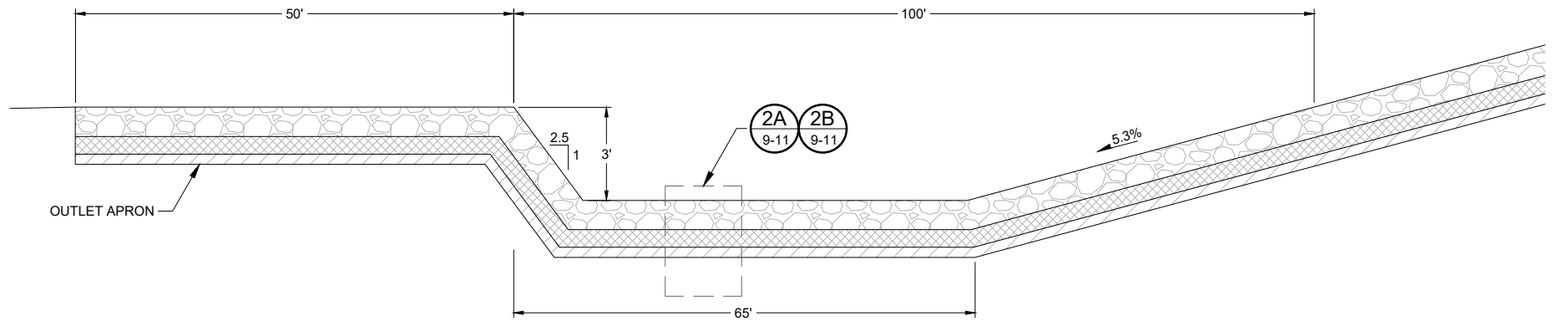
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
RIPRAP CHUTE SECTIONS

SHEET
9-10
233001048

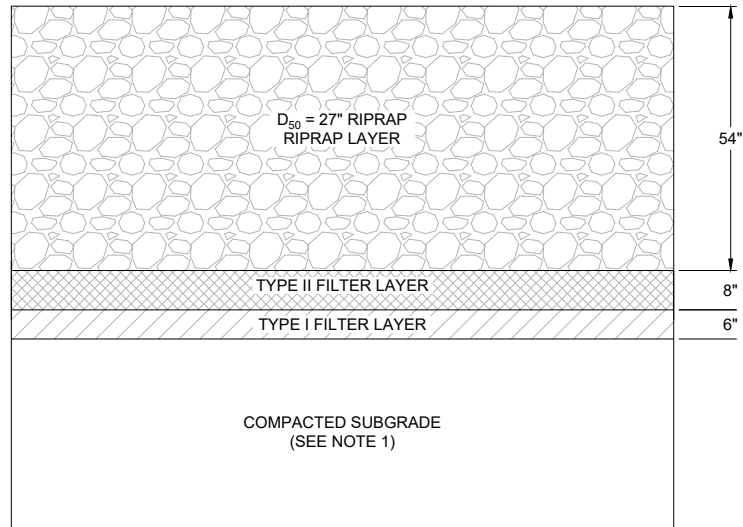
p:\m\env\proj\103\mnh\global.com:AM_PROJECTS02\Documents\General Electric\GE_NECR_Design\Civil\Sheet Sets\NECR-95%_V2_REVISED_DESIGN_DRAWINGS\09-95.2_MILL_SITE_SW_CONTROLS\NECR 9-11 LETTY DETAILS.dwg LAYOUT:Profile PLOT DATE:9/13/2018 2:47 PM BY:CAFWOMER



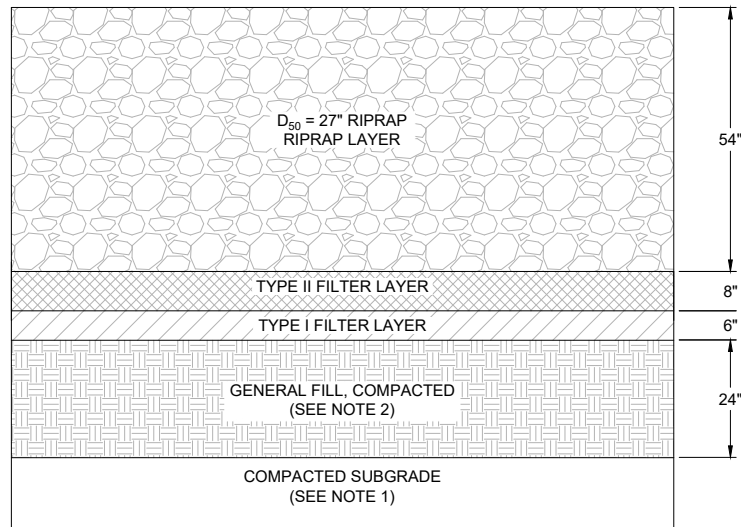
1
9-11 RIPRAP BASIN - PLAN



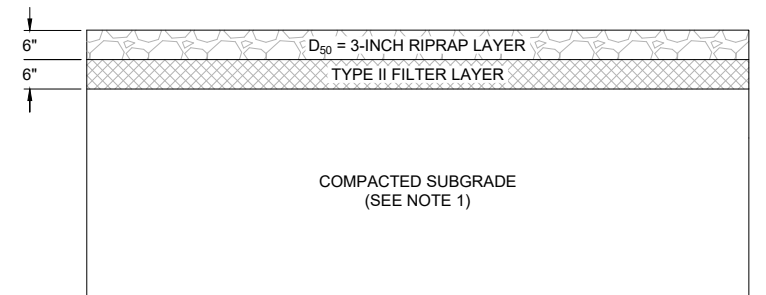
B
SECTION B - RIPRAP BASIN
(NOT TO SCALE)



2A
9-11 TYPICAL CHUTE RIPRAP AND BEDDING DETAIL
FOR AREAS OF CUT (NOT TO SCALE)



2B
9-11 TYPICAL CHUTE RIPRAP AND BEDDING DETAIL
FOR AREAS OF FILL (NOT TO SCALE)



3
9-11 TYPICAL UPPER SIDE SLOPE RIPRAP AND BEDDING DETAIL
(NOT TO SCALE)

NOTES:

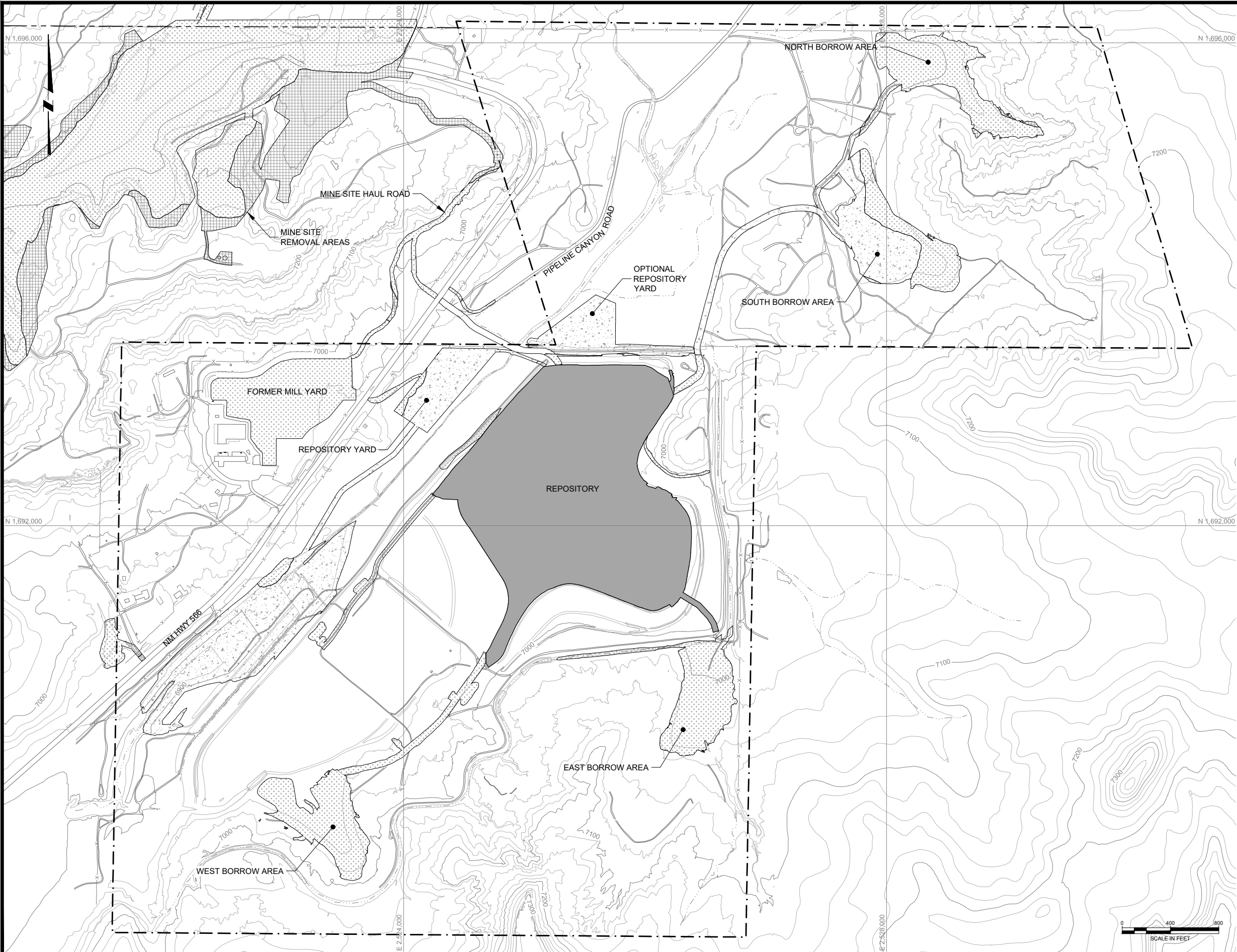
1. PREPARE AND COMPACT UPPER FOOT TO MINIMUM 95% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR.
2. COMPACT TO 95% MAXIMUM DRY DENSITY PER STANDARD PROCTOR IN 6-INCH LIFTS.

REV	DATE	BY	DESCRIPTION	APPROVED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	DESIGNED _J.ERICKSON
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _N.HAWS
A	03/15/16	RW	ISSUED FOR 30% DESIGN	APPROVED _J.CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
RIPRAP CHUTE DETAILS

SHEET
9-11
233001048



LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- UNC PROPERTY BOUNDARY
- APPROXIMATE NAVAJO NATION BOUNDARY
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- STRUCTURES
- PINON-JUNIPER SEED MIX
- GRASSLAND-SHRUBLAND SEED MIX
- BOTTOMLAND SEED MIX
- REPOSITORY SEED MIX

NOTE:

1. SEED MIXES FOR REVEGETATION BY CEDAR CREEK ASSOCIATES, INC.

D	09/24/18	KR	ISSUED FOR LAR	DESIGNED_K REED
C	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
B	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED_M DAVIS
A	07/15/16	CF	ISSUED FOR 30% DESIGN	
REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN
MILL SITE REVEGETATION PLAN