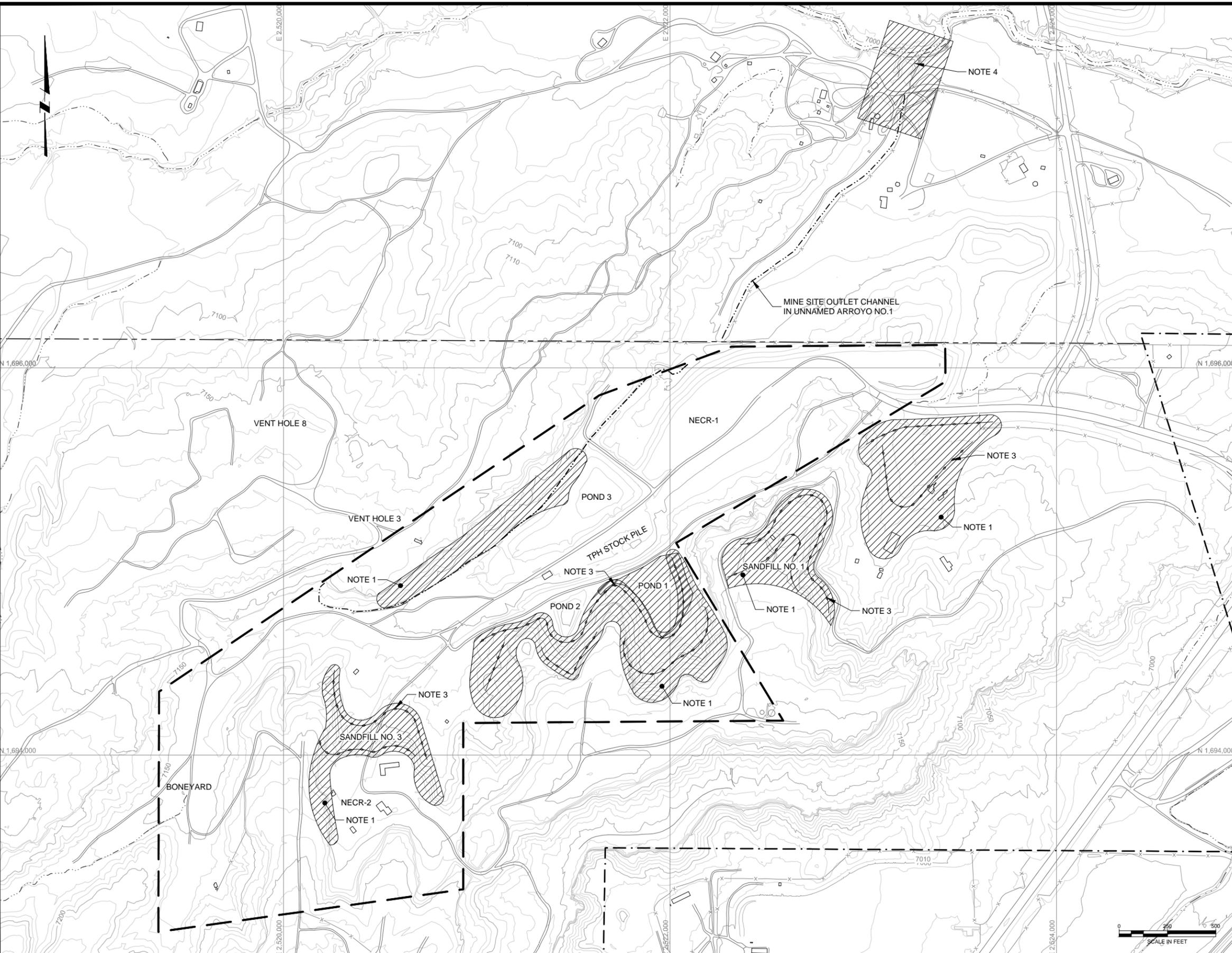


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LEGEND:

- 7200 EXISTING GROUND SURFACE ELEVATION CONTOUR, FEET
- 7200 EXISTING GROUND SURFACE ELEVATION CONTOUR, FEET (REMOVAL AREA)
- NECR MINE PERMIT BOUNDARY
- CHURCH ROCK MILL SITE BOUNDARY
- EXISTING STORMWATER CHANNELS
- REMOVAL BOUNDARY
- STRAW WATTLES
- DISTURBED SLOPE AREA

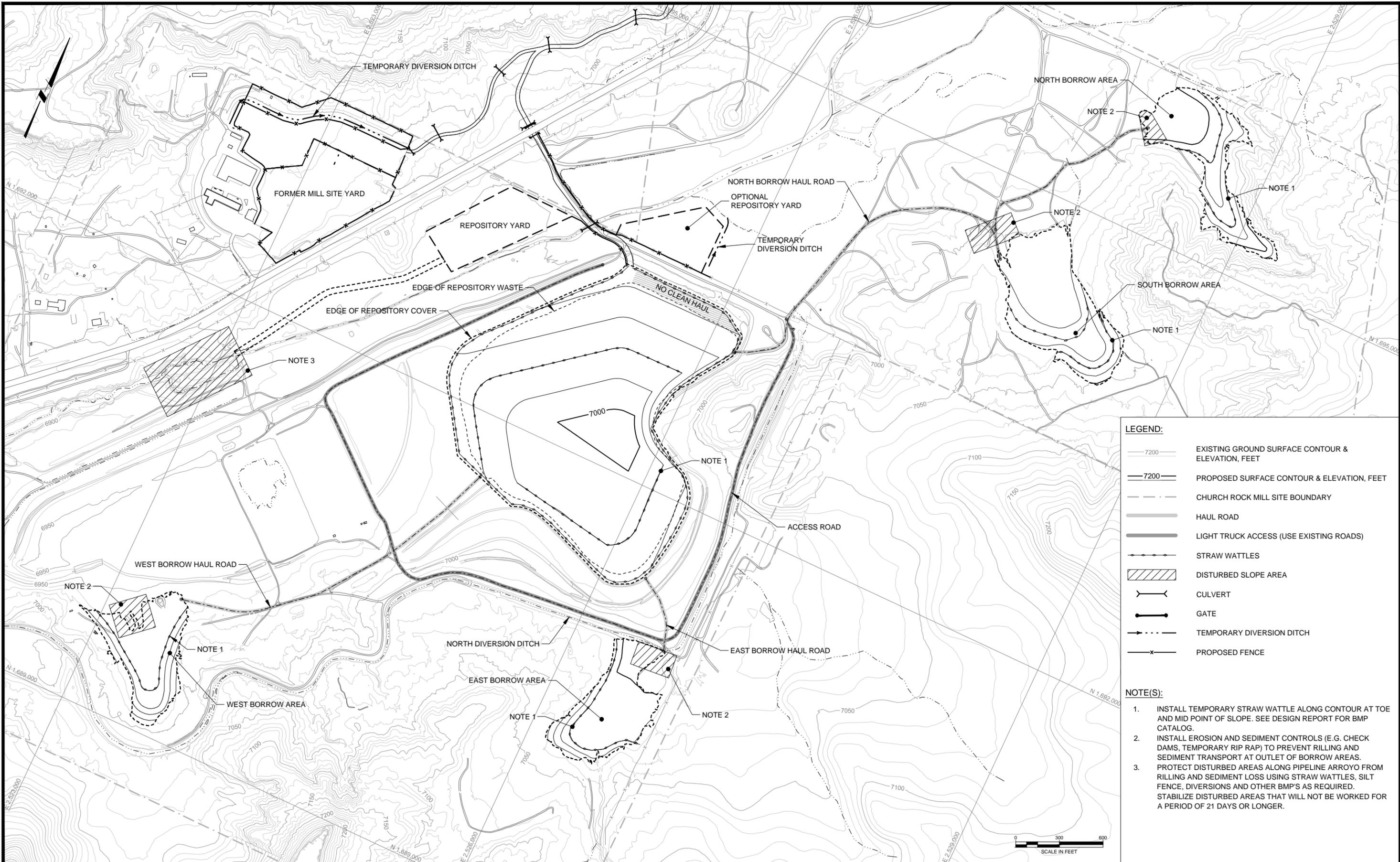
- NOTE(S):**
1. STABILIZE ALL DISTURBED SLOPES FOLLOWING REMOVAL ACTIVITIES OR WHERE SLOPE WILL NOT HAVE WORK PERFORMED FOR A PERIOD OF 21 DAYS OR MORE. APPLY MULCH AND/OR EROSION CONTROL MATS AS NEEDED UNTIL VEGETATION IS ESTABLISHED.
 2. SEE SECTION 3 DRAWINGS FOR DETAILS AND PHASES TO INSTALL AND REMOVE TEMPORARY CONTROLS DURING EXCAVATION.
 3. INSTALL STRAW WATTLES ALONG CONTOURS AT MIDPOINT AND TOE OF DISTURBED SLOPES. SEE DESIGN REPORT FOR BMP CATALOG.
 4. PROTECT DISTURBED AREAS FROM RILLING AND SEDIMENT LOSS USING STRAW WATTLES, SILT FENCES, DIVERSIONS AND OTHER BMP'S AS REQUIRED. STABILIZE DISTURBED AREAS THAT WILL NOT BE WORKED FOR 21 DAYS OR LONGER. SEE APPENDIX P OF DESIGN REPORT.



	DESIGNED	J.ERICKSON			
	CHECKED	N.HAWS			
	APPROVED	C.STRACHAN			
REV	DATE	BY	DESCRIPTION		
A	07/15/16	JTV	ISSUED FOR 30% DESIGN		



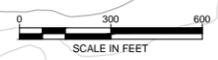
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LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- PROPOSED SURFACE CONTOUR & ELEVATION, FEET
- CHURCH ROCK MILL SITE BOUNDARY
- HAUL ROAD
- LIGHT TRUCK ACCESS (USE EXISTING ROADS)
- STRAW WATTLES
- DISTURBED SLOPE AREA
- CULVERT
- GATE
- TEMPORARY DIVERSION DITCH
- PROPOSED FENCE

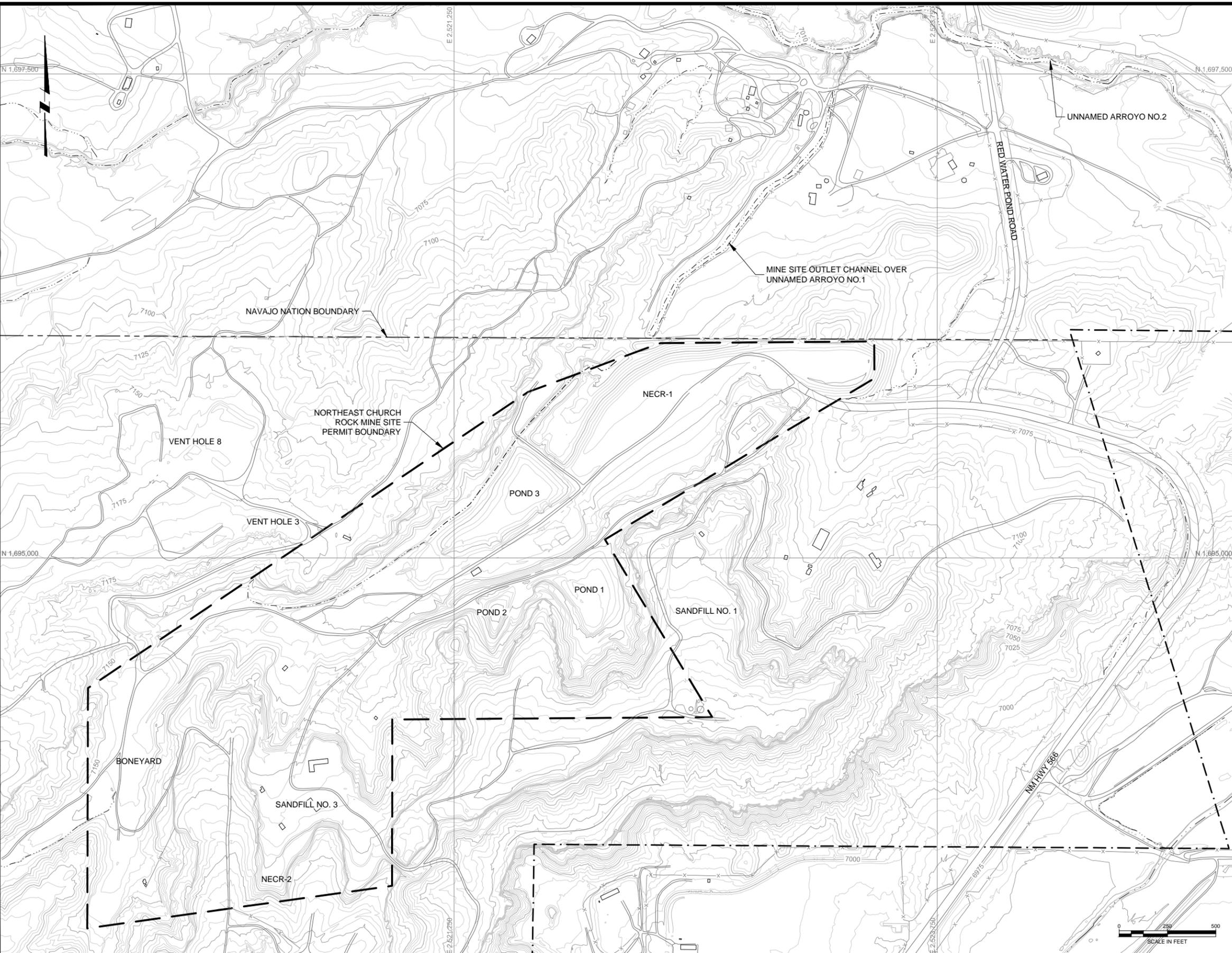
- NOTE(S):**
1. INSTALL TEMPORARY STRAW WATTLE ALONG CONTOUR AT TOE AND MID POINT OF SLOPE. SEE DESIGN REPORT FOR BMP CATALOG.
 2. INSTALL EROSION AND SEDIMENT CONTROLS (E.G. CHECK DAMS, TEMPORARY RIP RAP) TO PREVENT RILLING AND SEDIMENT TRANSPORT AT OUTLET OF BORROW AREAS.
 3. PROTECT DISTURBED AREAS ALONG PIPELINE ARROYO FROM RILLING AND SEDIMENT LOSS USING STRAW WATTLES, SILT FENCE, DIVERSIONS AND OTHER BMP'S AS REQUIRED. STABILIZE DISTURBED AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF 21 DAYS OR LONGER.



		DESIGNED J.ERICKSON	
		CHECKED N.HAWS	
REV	DATE	BY	DESCRIPTION
A	07/15/16	JTV	ISSUED FOR 30% DESIGN
			APPROVED C.STRACHAN



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- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - NECR MINE PERMIT BOUNDARY
 - UNC PROPERTY BOUNDARY
 - APPROXIMATE NAVAJO NATION BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE



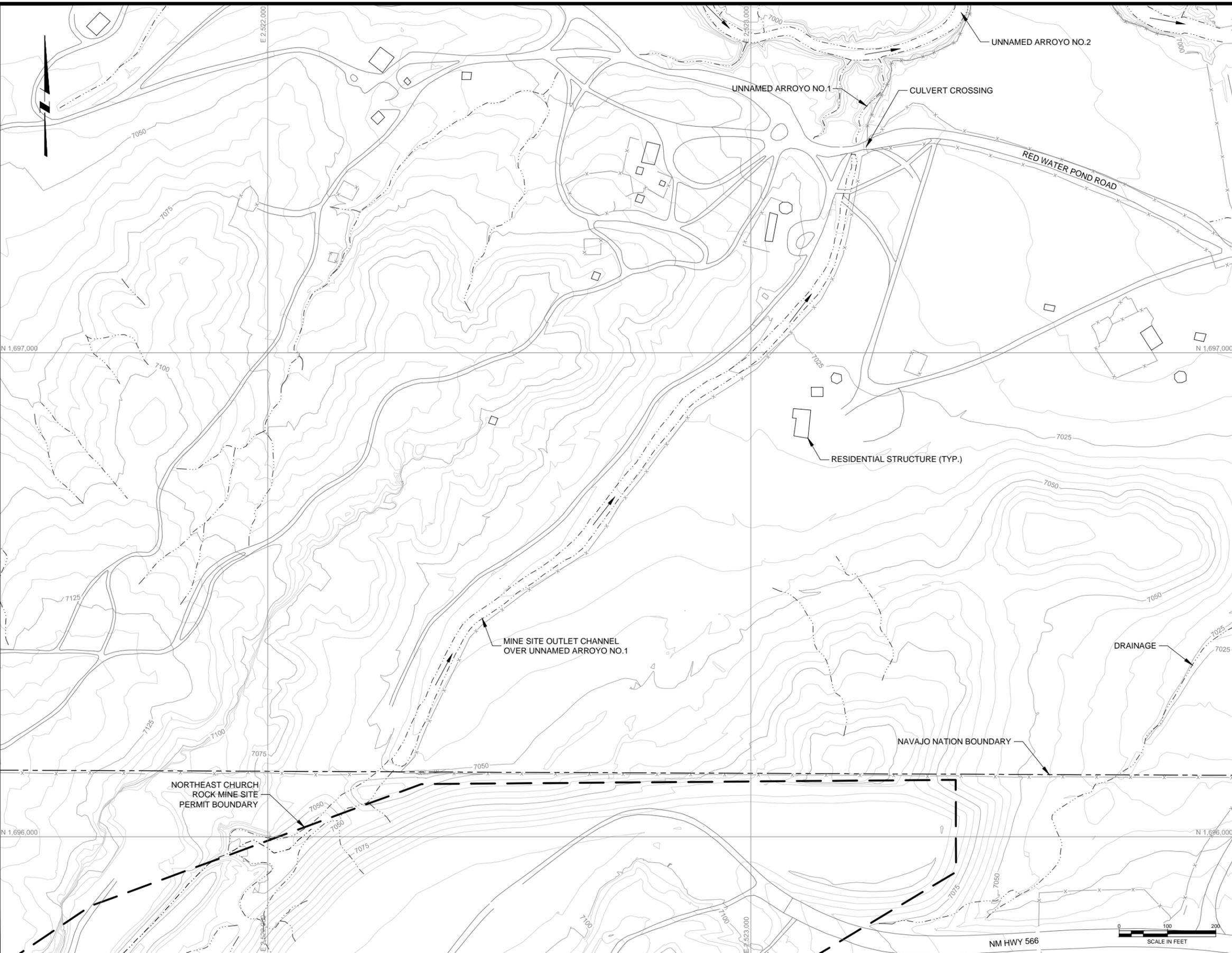
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN

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



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 EXISTING CONDITION

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - NECR MINE PERMIT BOUNDARY
 - APPROXIMATE NAVAJO NATION BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - FLOW DIRECTION

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

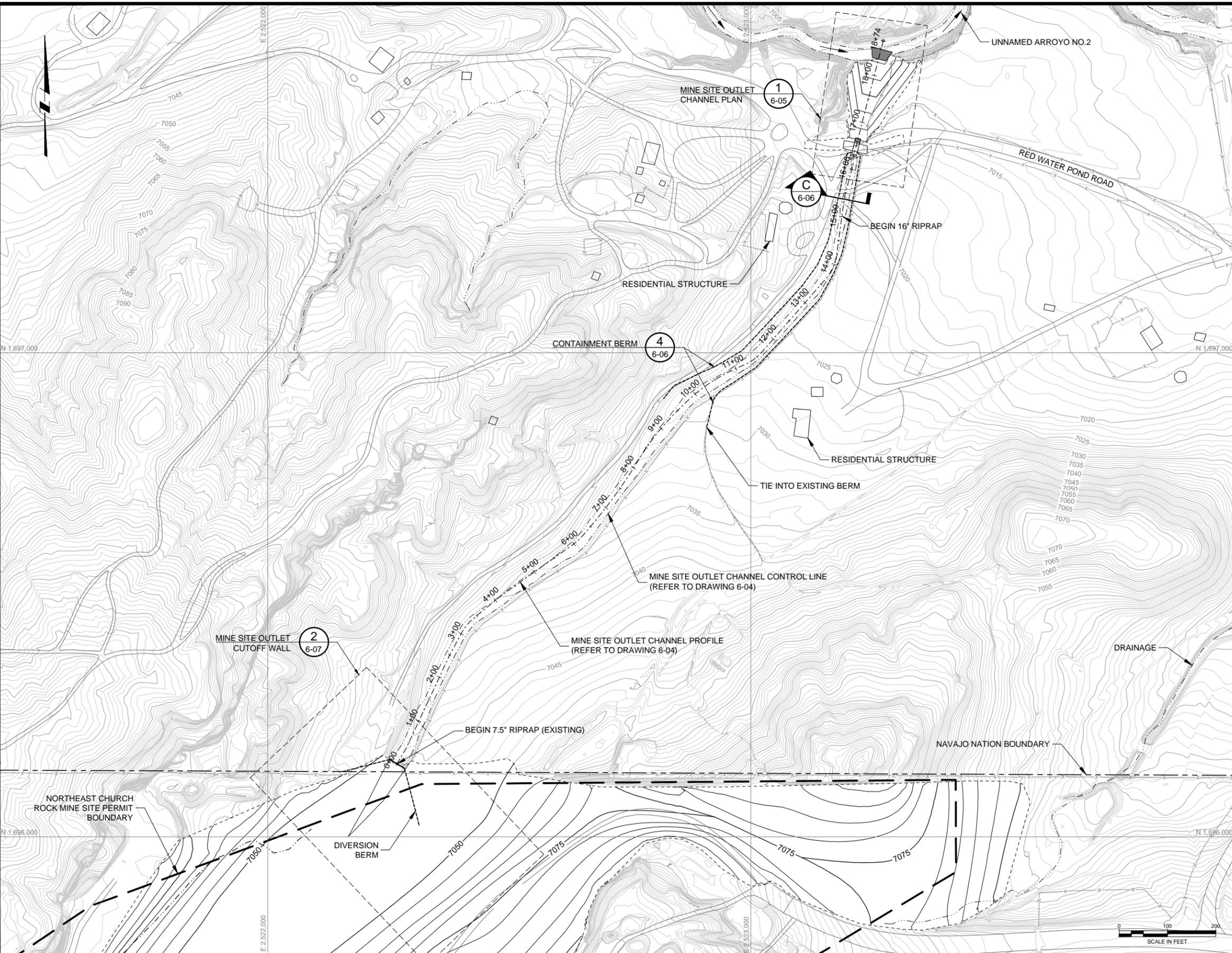
DESIGNED J.ERICKSON
 CHECKED N.HAWS
 APPROVED C.STRACHAN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 OUTLET EXISTING CONDITION

SHEET
6-02
 10508639

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LEGEND:

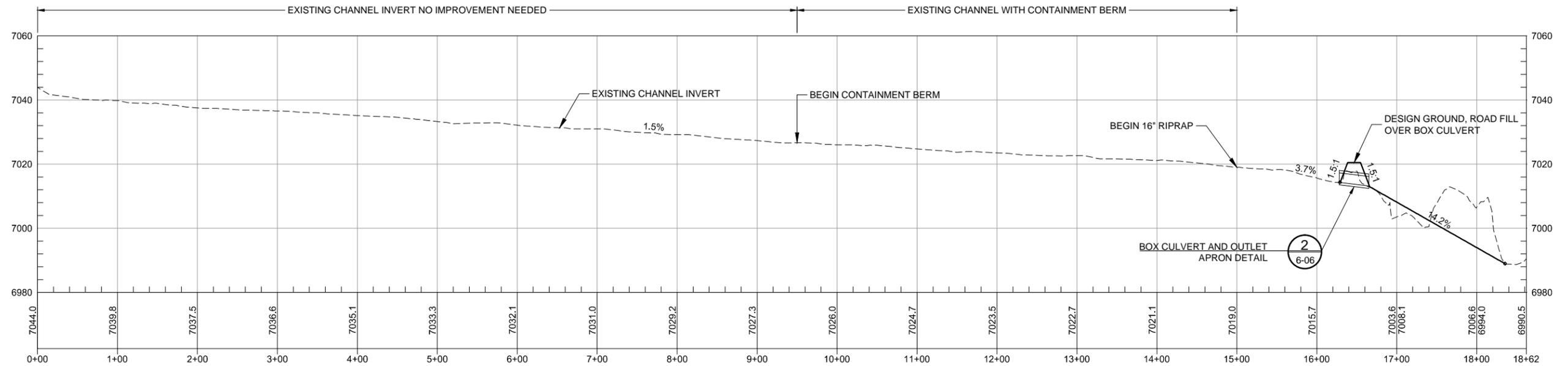
	EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
	PROPOSED SURFACE CONTOUR & ELEVATION, FEET
	NECR MINE PERMIT BOUNDARY
	APPROXIMATE NAVAJO NATION BOUNDARY
	ROADS
	NATURAL DRAINAGE
	EXISTING FENCE
	CONTAINMENT BERM
	EXISTING BERM

DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN

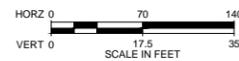
MWH now part of Stantec

UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 OUTLET PROPOSED CONDITION

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MINE SITE OUTLET CHANNEL PROFILE



NOTE:

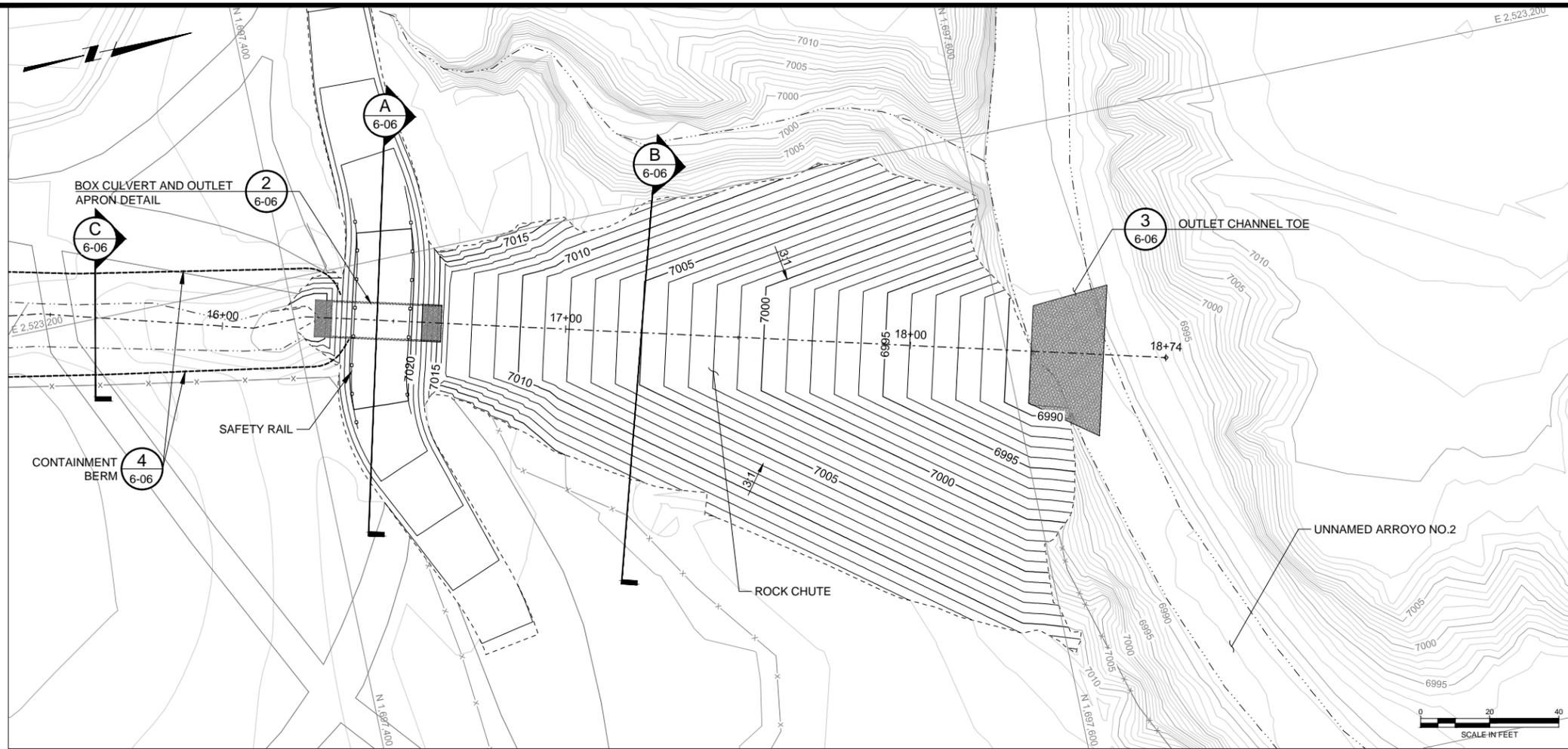
- REFER TO DRAWING 6-05 FOR CULVERT, OUTLET CHANNEL, AND DOWNDRAIN.

DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN



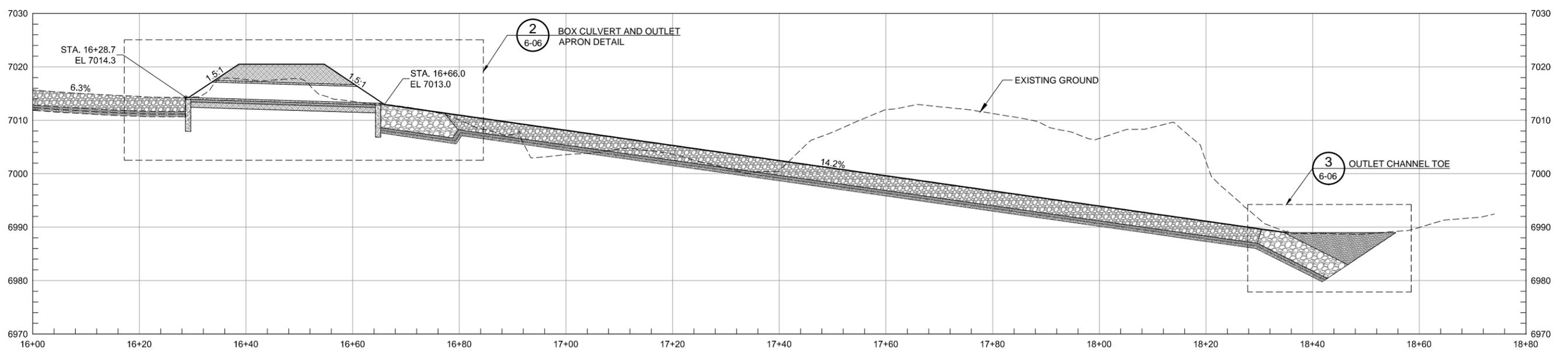
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 OUTLET CHANNEL PROFILE

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOURS & ELEVATION, FEET
 - DESIGN GROUND SURFACE CONTOURS & ELEVATION, FEET
 - DRAINAGE CHANNEL
 - FENCE

1 MINE SITE OULET CHANNEL DOWNDRAIN
6-05



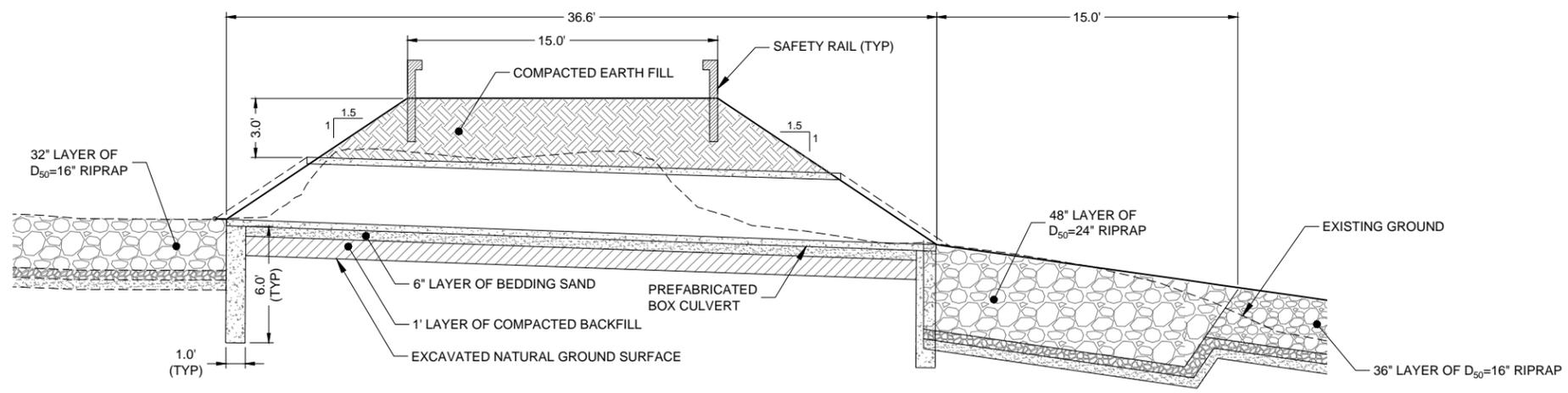
MINE SITE OULET CHANNEL DOWNDRAIN PROFILE

DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN

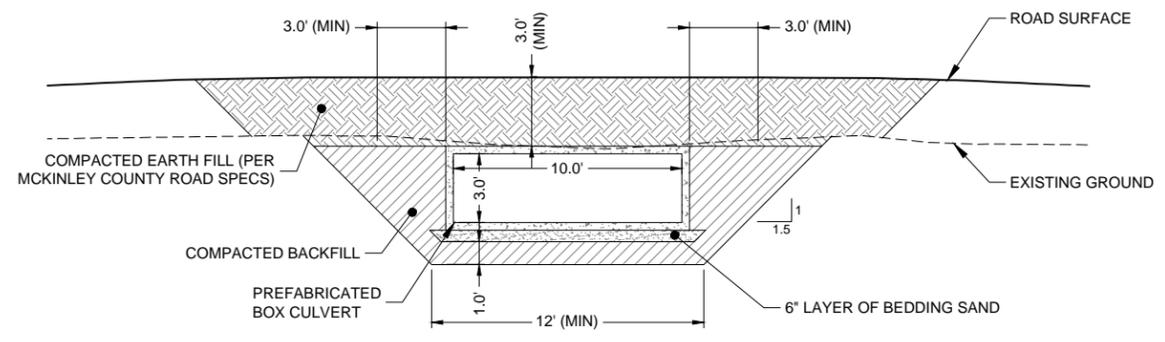


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 CULVERT AND DOWNDRAIN

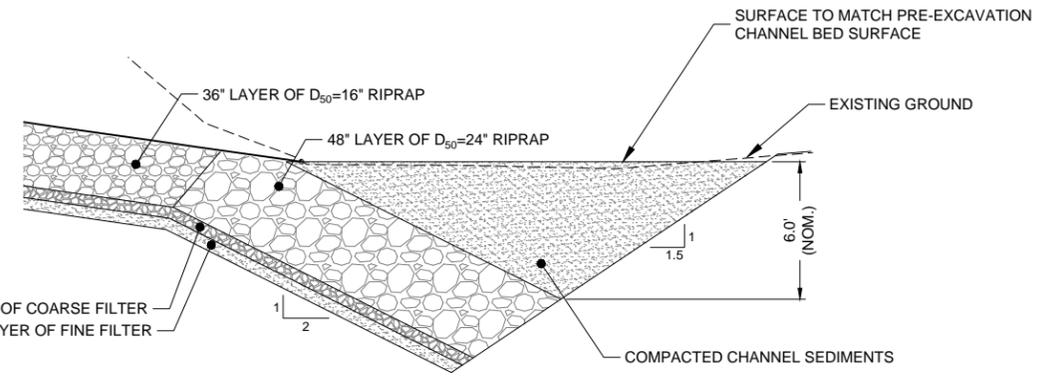
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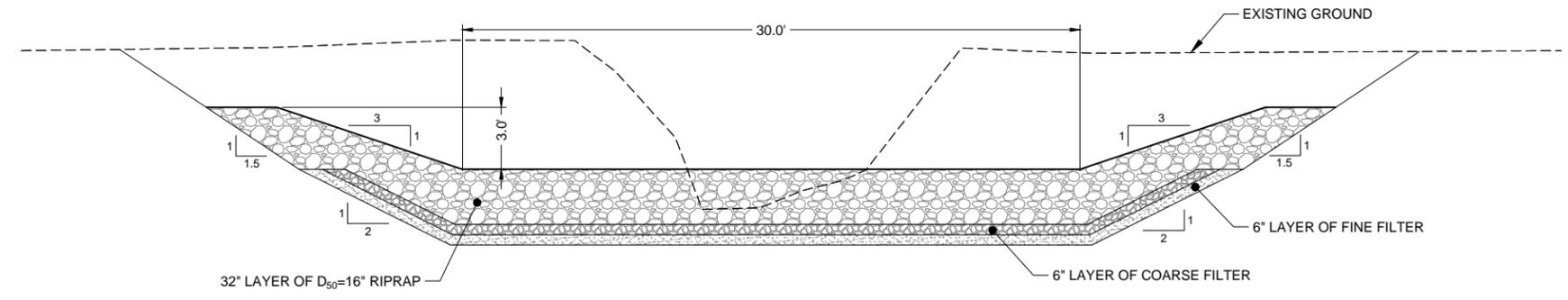
2 BOX CULVERT AND OUTLET APRON DETAIL
6-06 NOT TO SCALE



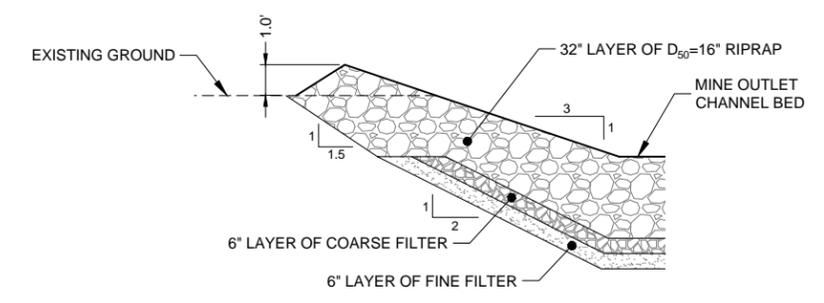
A BOX CULVERT SECTION
6-06 NOT TO SCALE



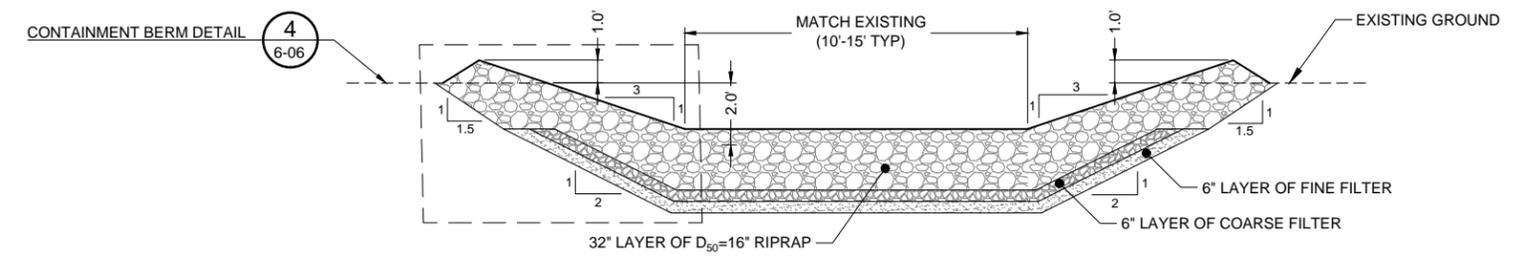
3 MINE OUTLET CHANNEL TOE
6-06 NOT TO SCALE



B MINE OUTLET CHANNEL CHUTE SECTION STA 16+80.27 TO END
6-06 NOT TO SCALE



4 CONTAINMENT BERM DETAIL
6-06 NOT TO SCALE



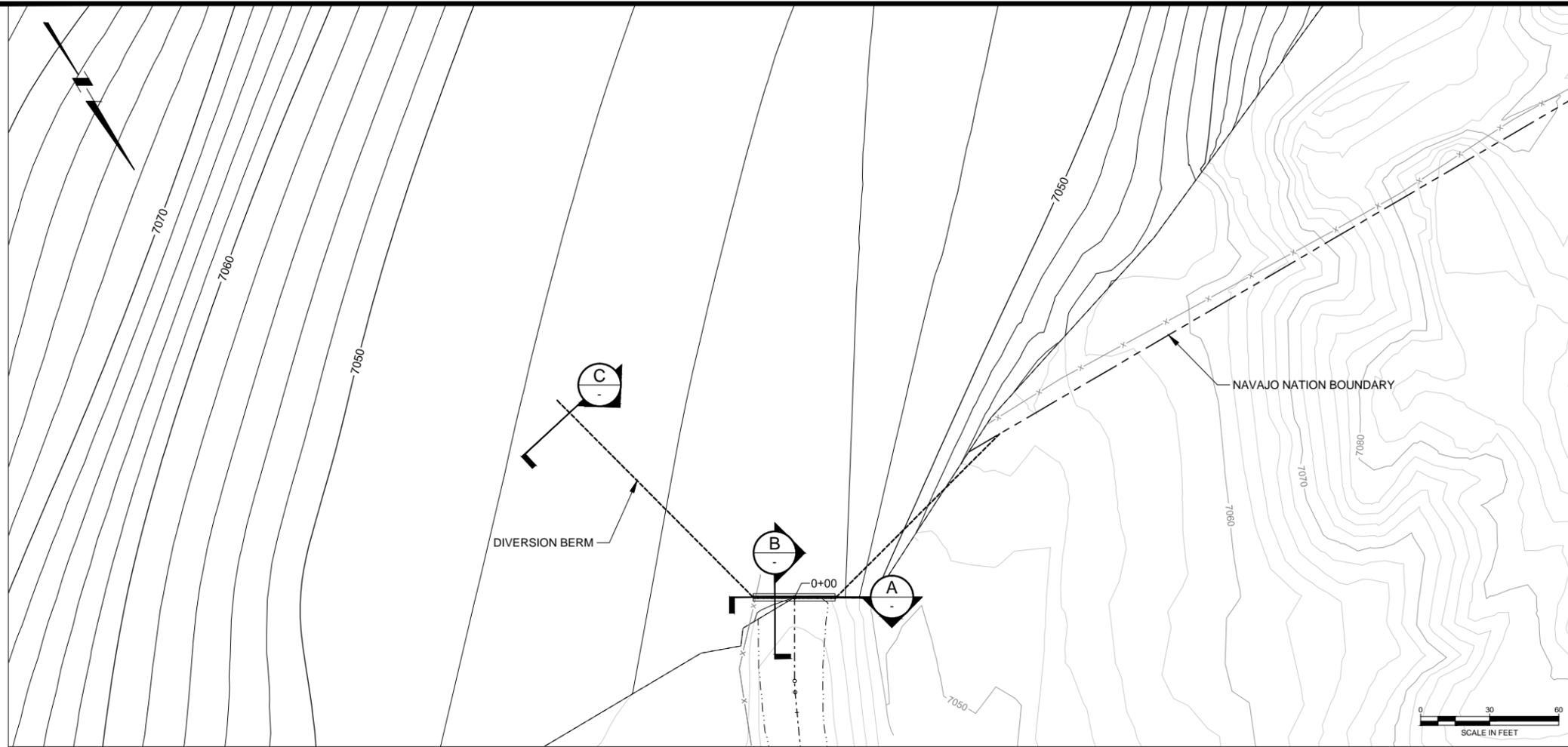
C MINE OUTLET CHANNEL STA 15+00 TO STA 16+28.66
6-06 NOT TO SCALE

DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MINE SITE STORMWATER CONTROLS
 OUTLET CHANNEL DETAILS

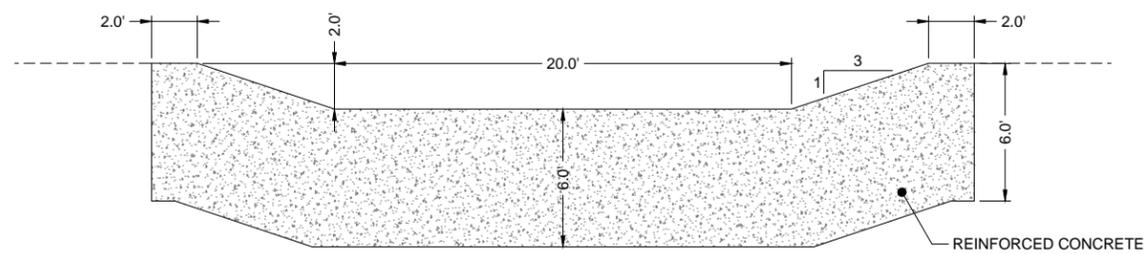
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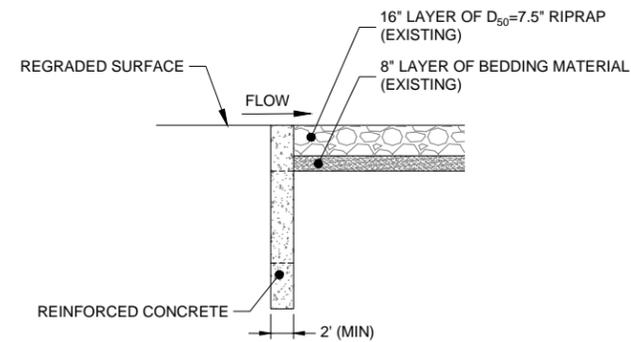
LEGEND:

- EXISTING GROUND SURFACE CONTOURS & ELEVATION, FEET
- DESIGN GROUND SURFACE CONTOURS & ELEVATION, FEET
- DRAINAGE CHANNEL
- APPROXIMATE NAVAJO NATION BOUNDARY
- EXISTING FENCE

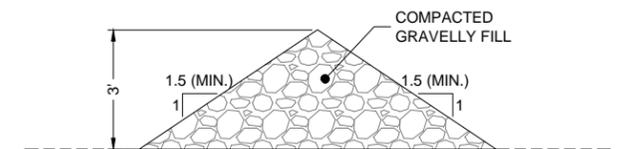
2 MINE SITE OUTLET CUTOFF WALL
6-03 NOT TO SCALE



A CUTOFF WALL SECTION
NOT TO SCALE



B CUTOFF WALL SECTION
NOT TO SCALE



C DIVERSION BERM SECTION
NOT TO SCALE

DESIGNED	J. ERICKSON		
CHECKED	N. HAWS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	RW	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
MINE SITE STORMWATER CONTROLS
CUTOFF WALL PLAN

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SUBGRADE SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - EXISTING SWALES
 - FORMER BORROW PIT BOUNDARY

- NOTE(S):**
1. REPOSITORY SUBGRADE IS 6 INCHES BELOW THE EXISTING TDA COVER WITH THE SURFACE SWALES FILLED IN.



REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

DESIGNED M.WITLER
 CHECKED J.CUMBERS
 APPROVED C.STRACHAN

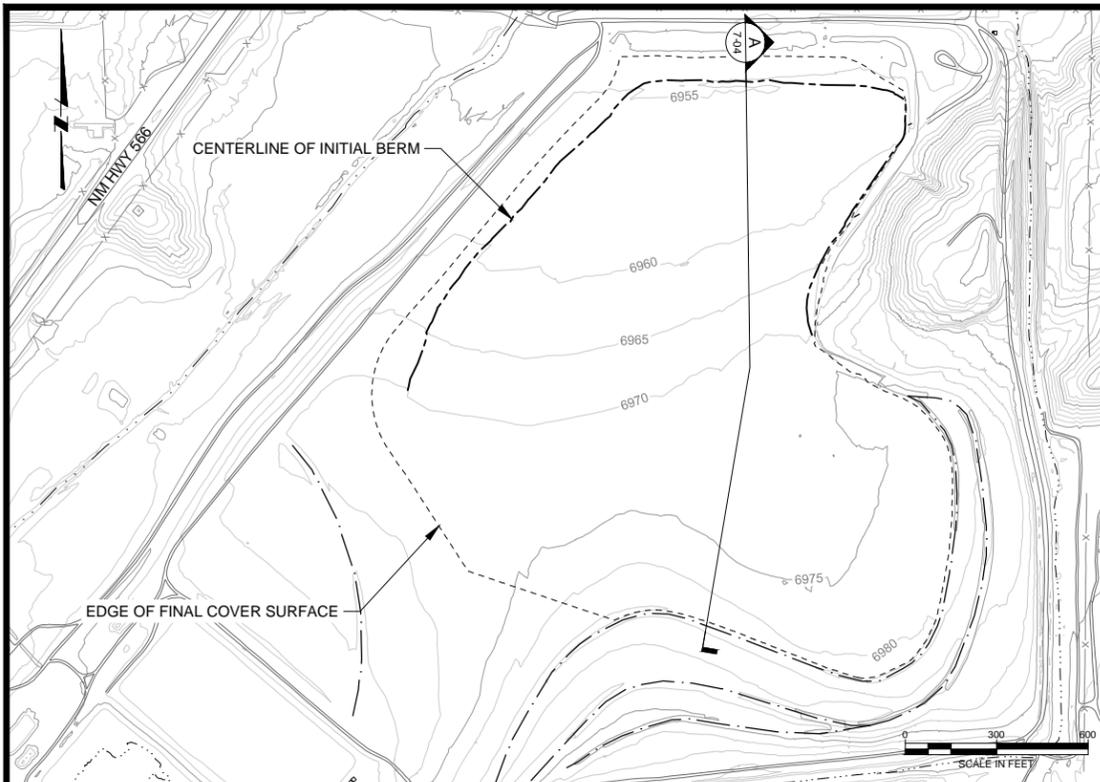


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO

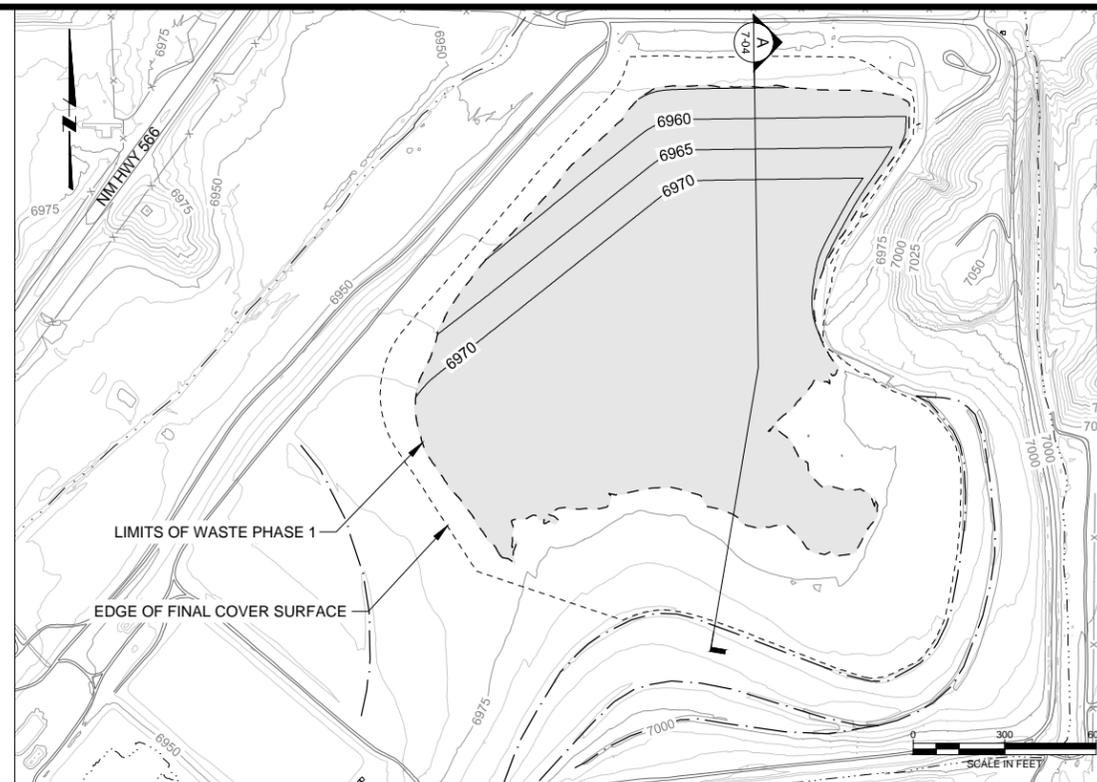
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY SUBGRADE - EXISTING RADON BARRIER

SHEET
7-01
 10508639

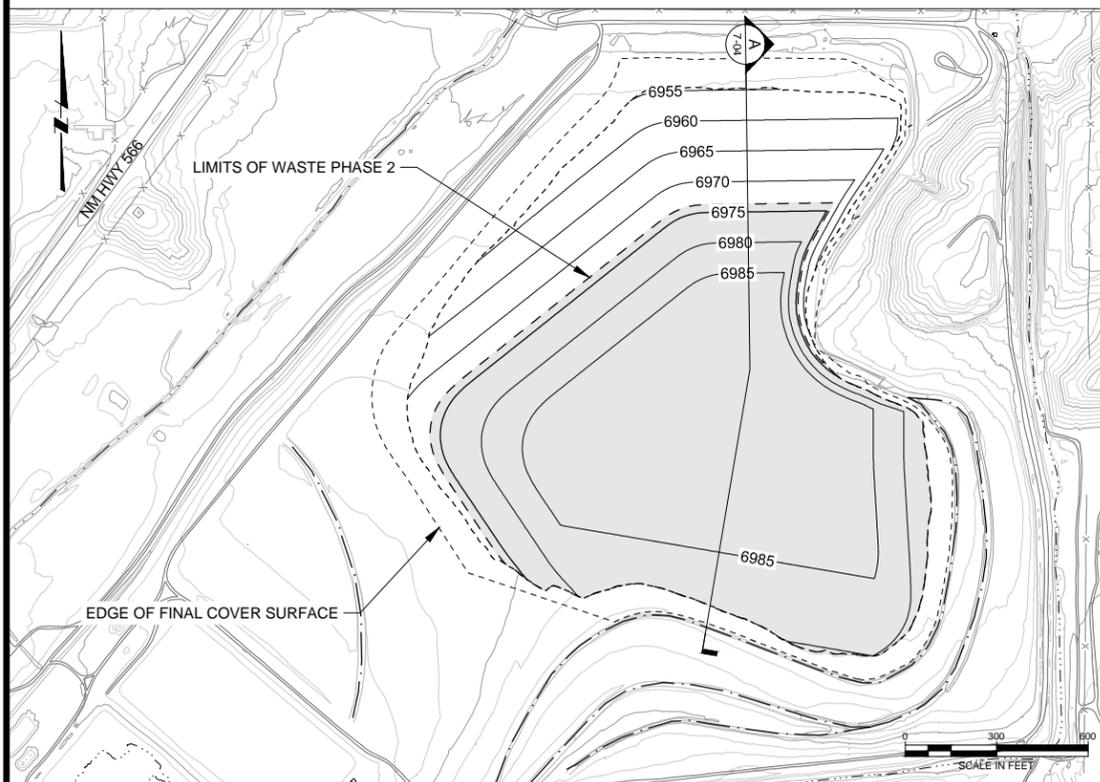
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INITIAL STORMWATER CONTROL BERM



REPOSITORY MINE WASTE PLACEMENT PHASE 1
342,033 CY OF MINE WASTE



REPOSITORY MINE WASTE PLACEMENT PHASE 2
539,028 CY OF MINE WASTE (881,061 CY TOTAL)

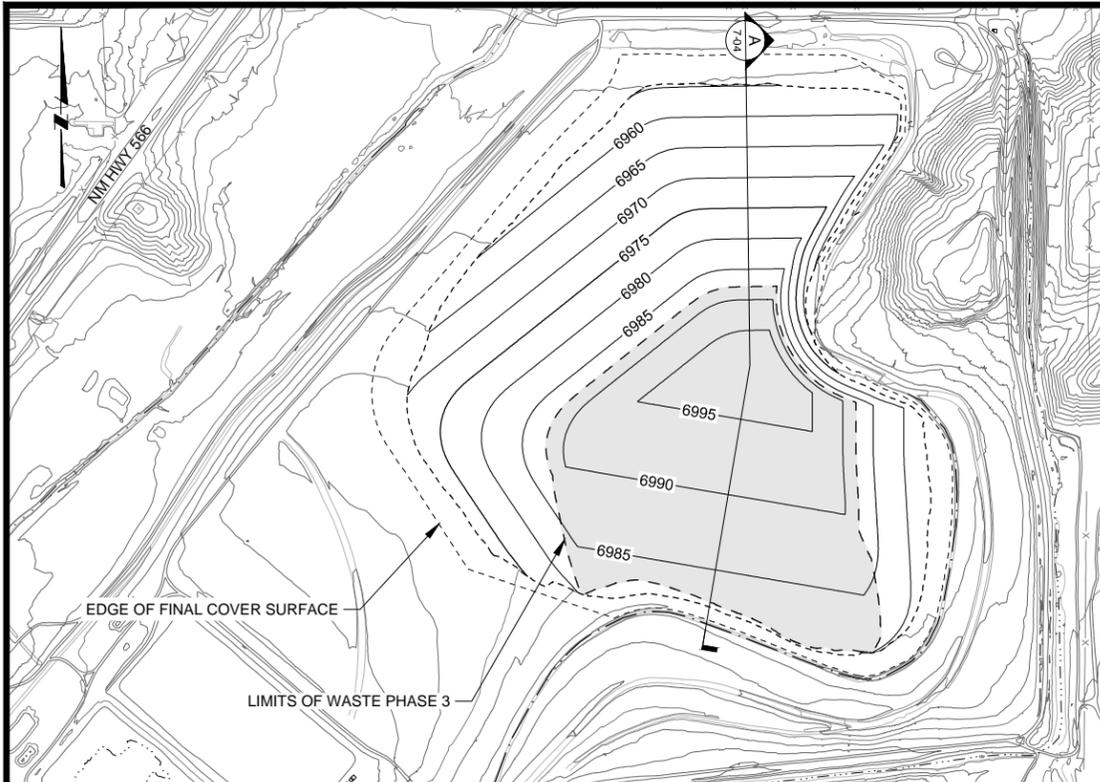
- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - 7200 PROPOSED WASTE SURFACE CONTOUR & ELEVATION, FEET
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - EXISTING DRAINAGE
 - EXISTING SWALES
 - STORMWATER BERM

- NOTE(S):**
1. MINE WASTE PLACEMENT PHASES CORRESPOND TO REMOVAL PHASES SHOWN IN SECTION 3.
 2. STORMWATER BERMS CONSTRUCTED OF CLEAN BORROW SOIL MEETING COVER MATERIAL SPECIFICATIONS.

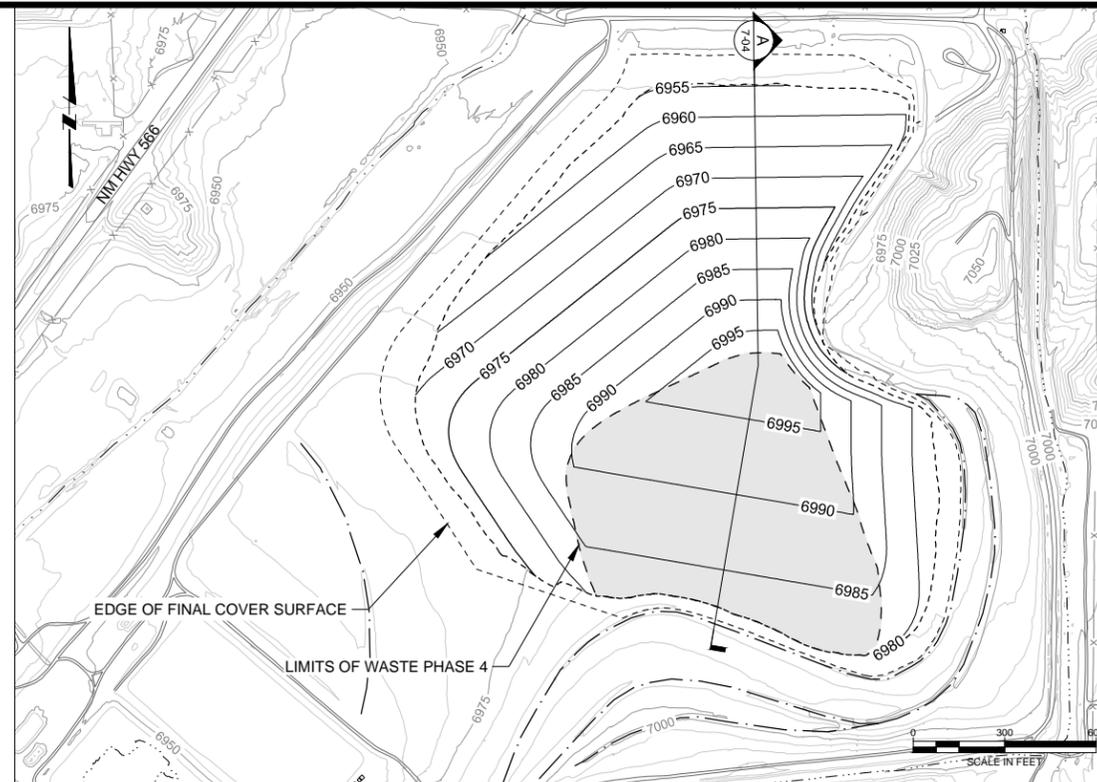
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

		UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE MCKINLEY COUNTY, NEW MEXICO NORTHEAST CHURCH ROCK PROJECT 30% DESIGN REPOSITORY MINE WASTE FILL BY REMOVAL PHASE AND TEMPORARY STORMWATER CONTROL BERMS (1 OF 2)	SHEET 7-02 10508639
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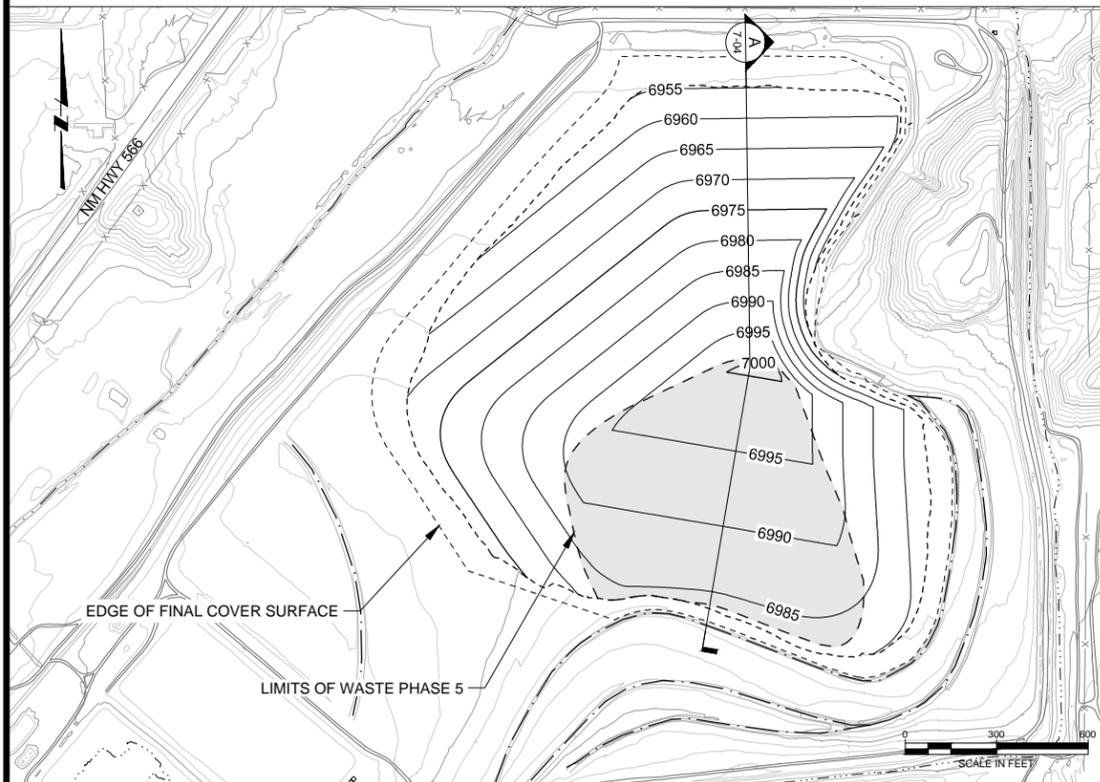
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 LAYOUT:Plan PLOT DATE:7/6/2016 11:18 AM BY:FOWLERFH



REPOSITORY MINE WASTE PLACEMENT PHASE 3
 89,372 CY OF MINE WASTE (970,433 CY TOTAL)



REPOSITORY MINE WASTE PLACEMENT PHASE 4
 19,675 CY OF MINE WASTE (990,108 CY TOTAL)



REPOSITORY MINE WASTE PLACEMENT PHASE 5
 41,937 CY OF MINE WASTE (1,032,045 CY TOTAL)

LEGEND:

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

NOTE(S):

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

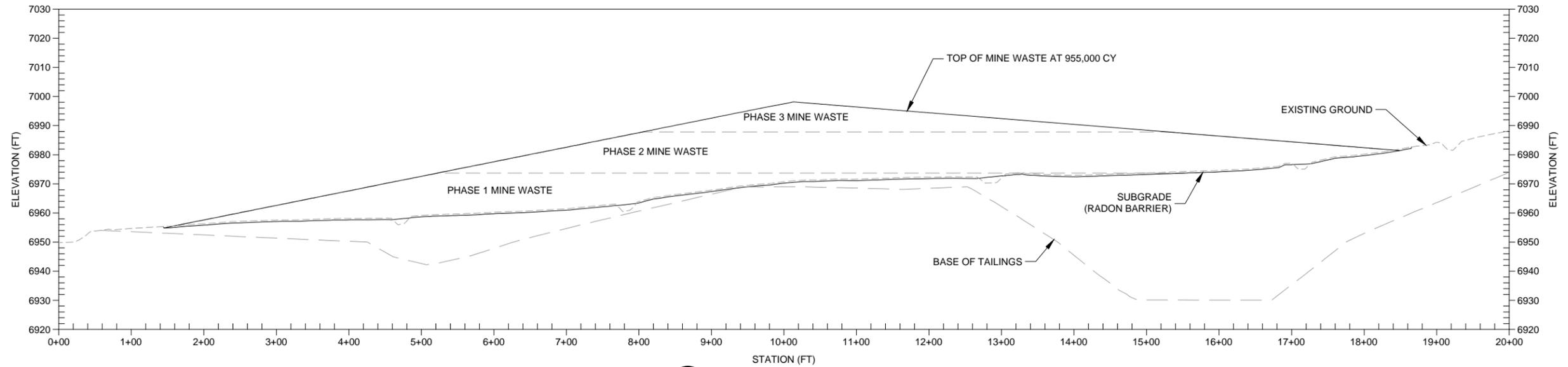
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

DESIGNED	M.WITLER
CHECKED	J.CUMBERS
APPROVED	C.STRACHAN

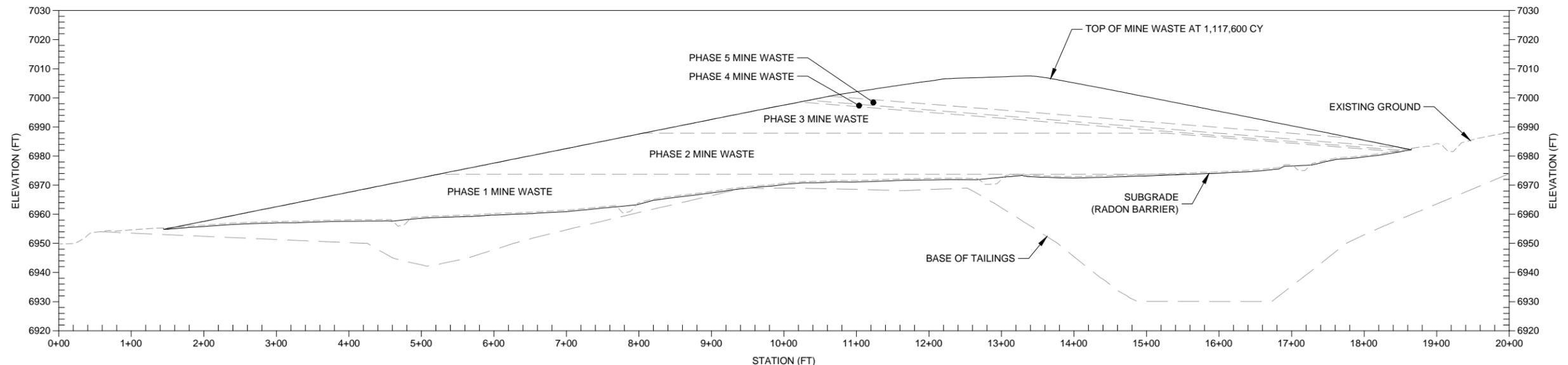


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY MINE WASTE FILL BY REMOVAL PHASE
 AND TEMPORARY STORMWATER CONTROL BERMS (2 OF 2)

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A
 7-04
REPOSITORY PROFILE
 FILL PROGRESSION
 HORZ 0 80 160
 VERT 0 20 40
 SCALE IN FEET



A
 7-04
REPOSITORY PROFILE
 FILL PROGRESSION
 HORZ 0 80 160
 VERT 0 20 40
 SCALE IN FEET

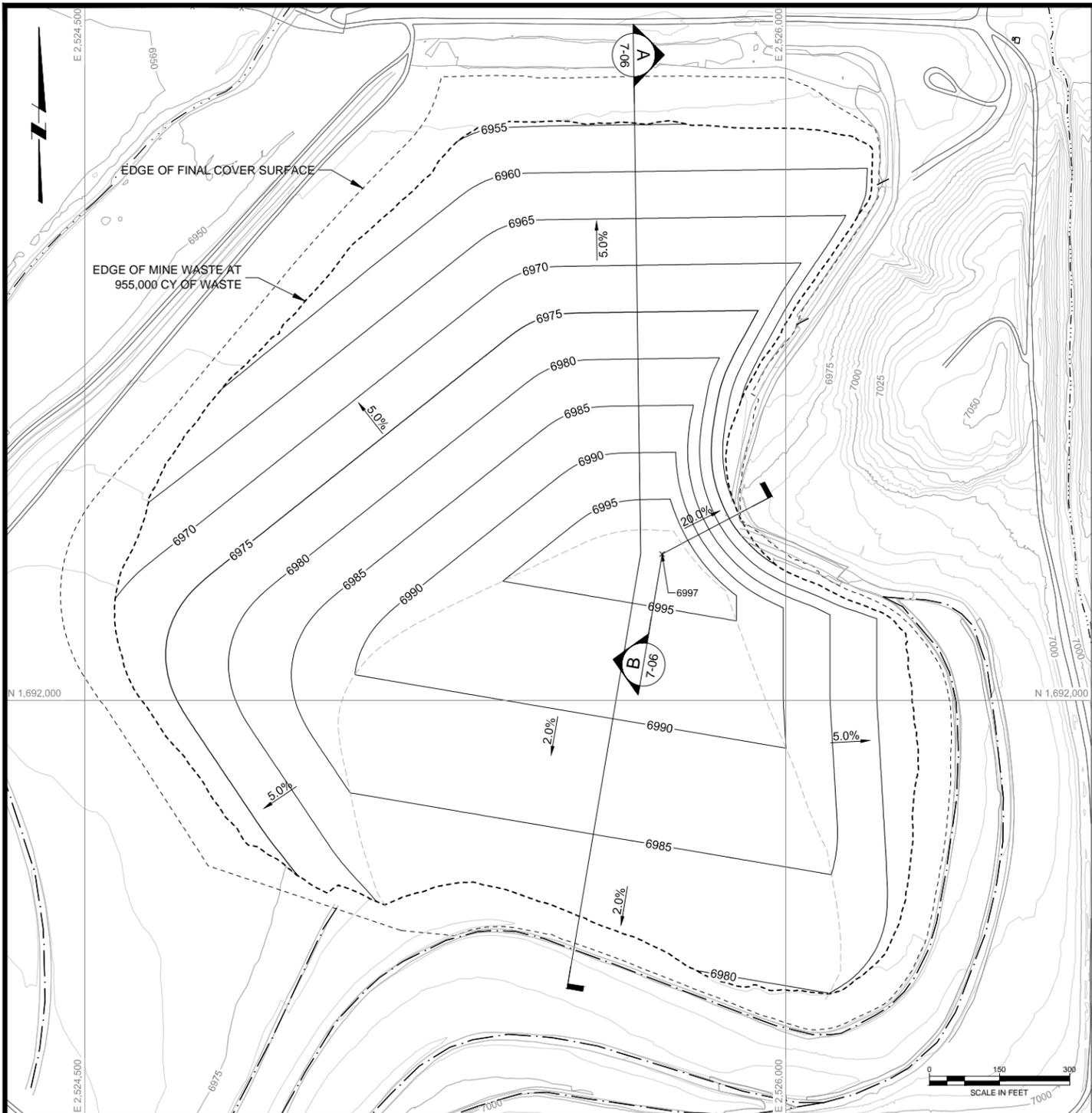
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

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

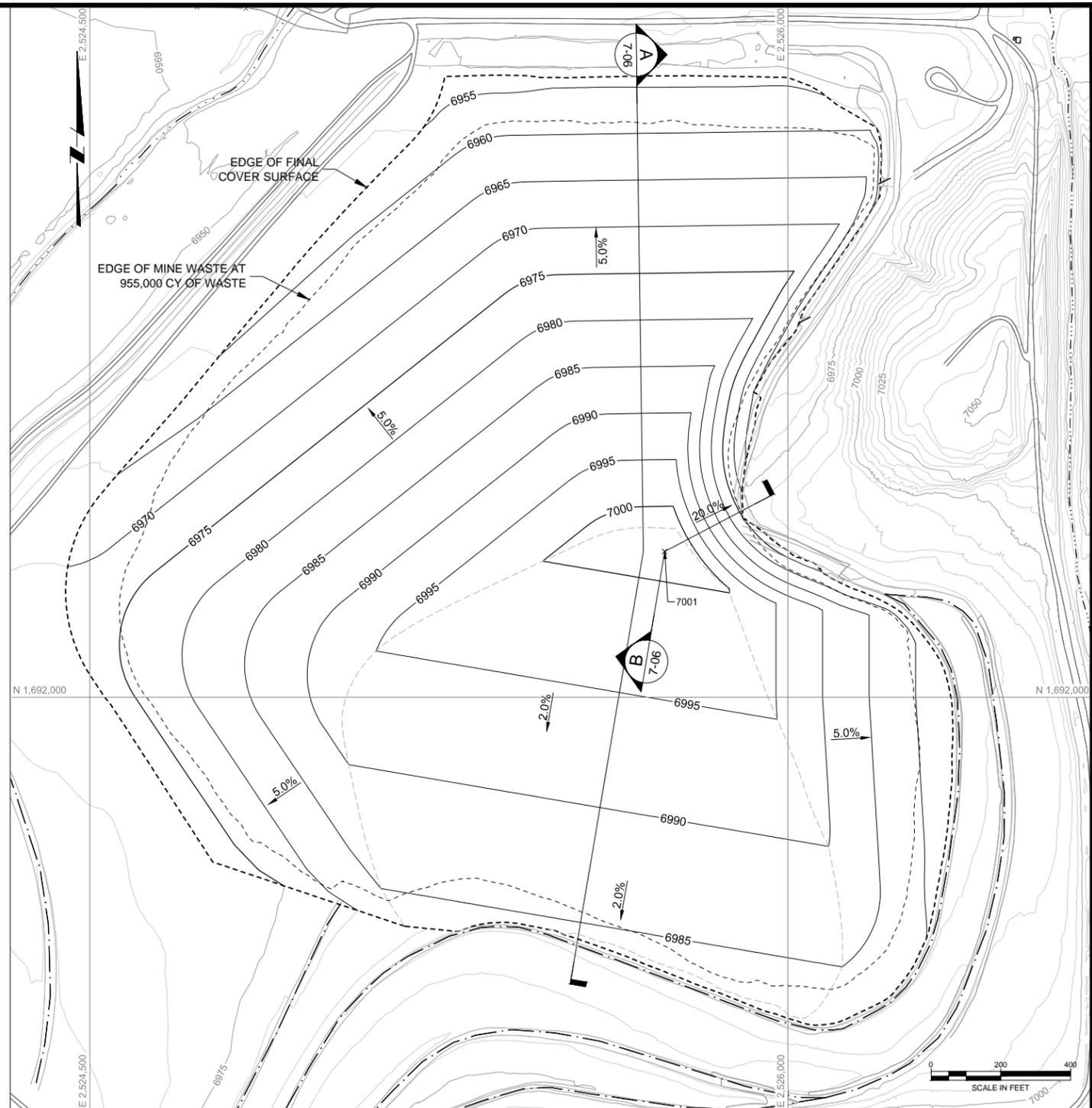
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY MINE WASTE FILL PROFILE BY REMOVAL PHASE

SHEET
 7-04
 10508639

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REPOSITORY TOP OF MINE WASTE SURFACE
AT 955,000 CY OF MINE WASTE



REPOSITORY TOP OF COVER SURFACE
AT 955,000 CY OF MINE WASTE

- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING SWALES

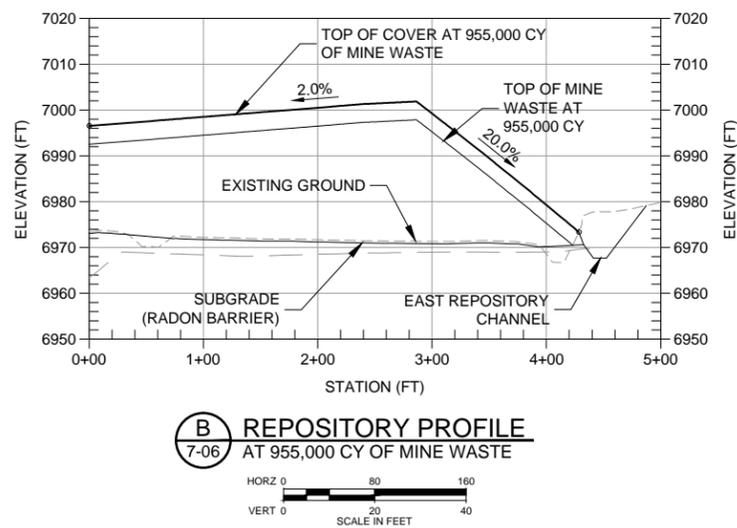
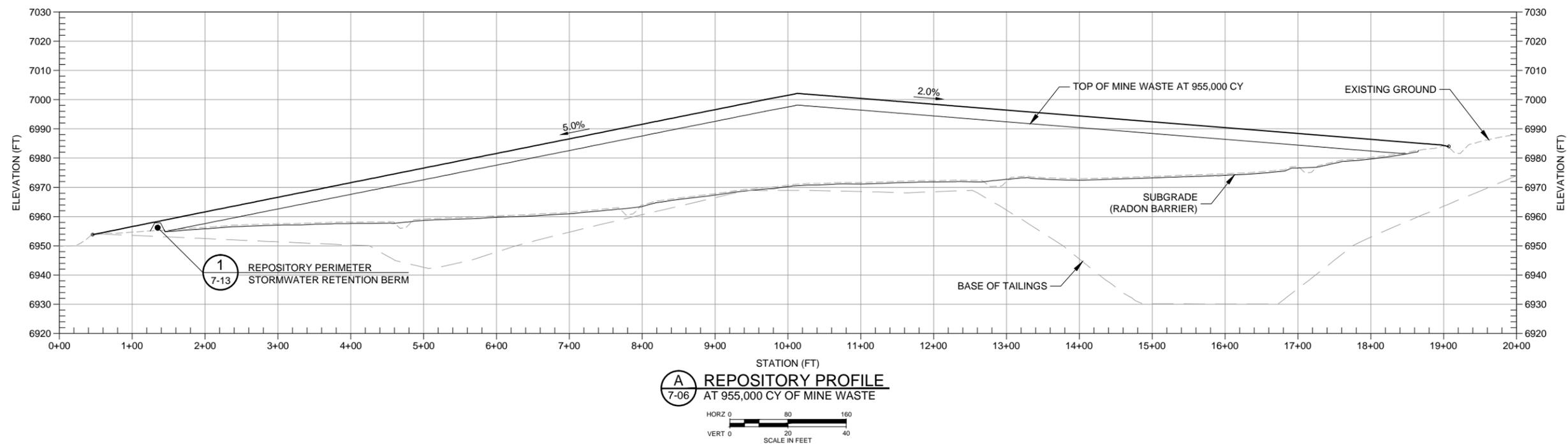
DESIGNED	M.WITLER		
CHECKED	J.CUMBERS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY AT 955,000 CY OF MINE WASTE
 AND COVER GRADING PLAN

SHEET
7-05
 10508639

P:\mine\proj\103_mh\global.comr\AM_PROJECTS\02\Documents\General Electric\GE_NECR_Design\Civil\Sheet_Sets\NECR-30%_DESIGN_DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR 7-06 REP PROFILES.MXD
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 PLOT DATE: 7/6/2016 11:25 AM BY: FOWLERH



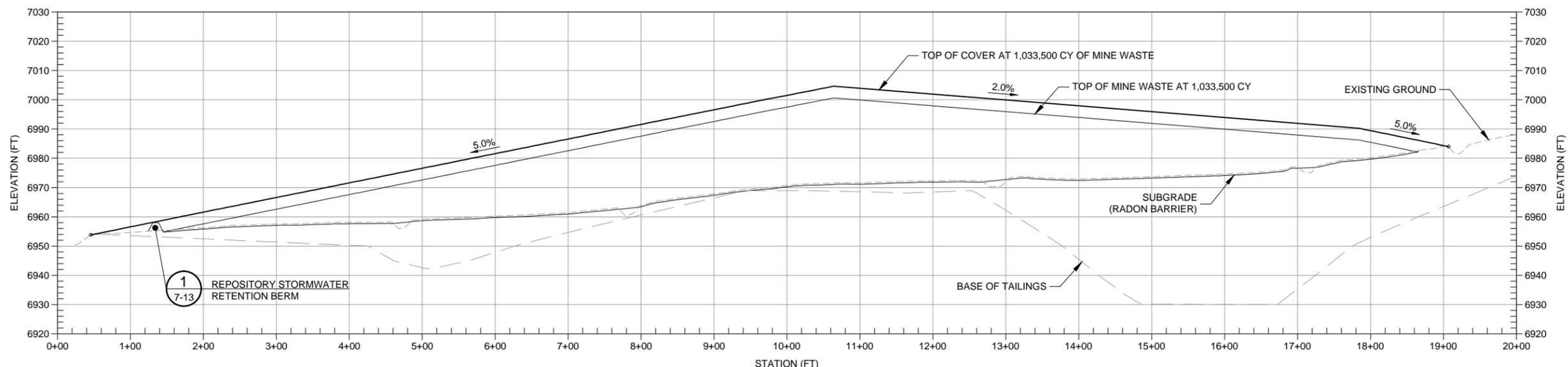
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

DESIGNED	M. WITLER
CHECKED	J. CUMBERS
APPROVED	C. STRACHAN



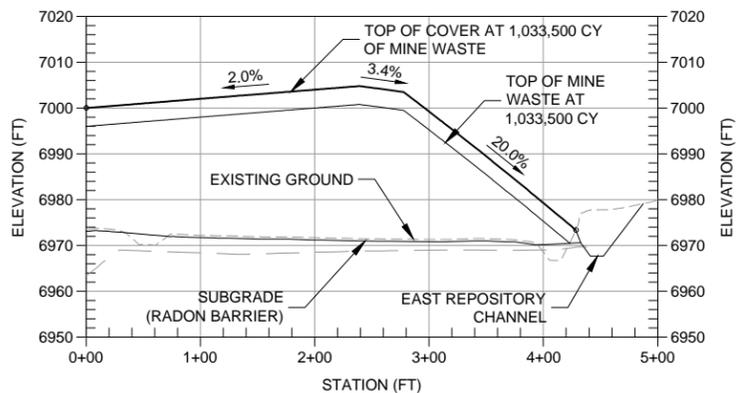
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY PROFILES AT 955,000 CY OF MINE WASTE

P:\mine\proj\1033502\Documents\General Electric\GE_NECR_Design\Civil\Sheet_Sets\NECR-30%_DESIGN_DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR 7-08 REP_PROFILES.dwg LAYOUT:Profile PLOT DATE: 7/6/2016 11:30 AM BY: FOWLERPH



A
 7-08
REPOSITORY PROFILE
 AT 1,033,500 CY OF MINE WASTE

HORZ 0 80 160
 VERT 0 20 40
 SCALE IN FEET



B
 7-08
REPOSITORY PROFILE
 AT 1,033,500 CY OF MINE WASTE

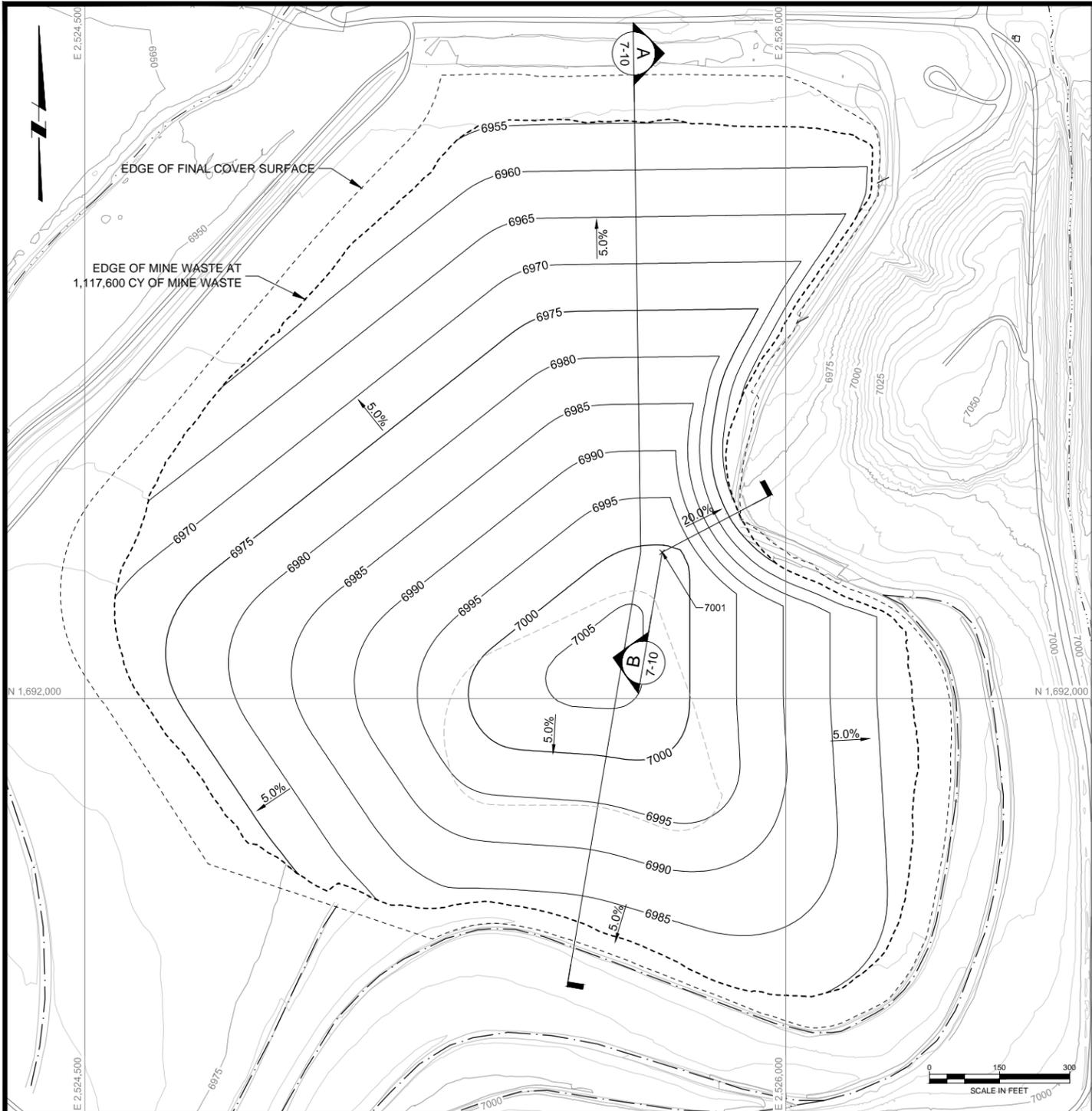
HORZ 0 80 160
 VERT 0 20 40
 SCALE IN FEET

DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

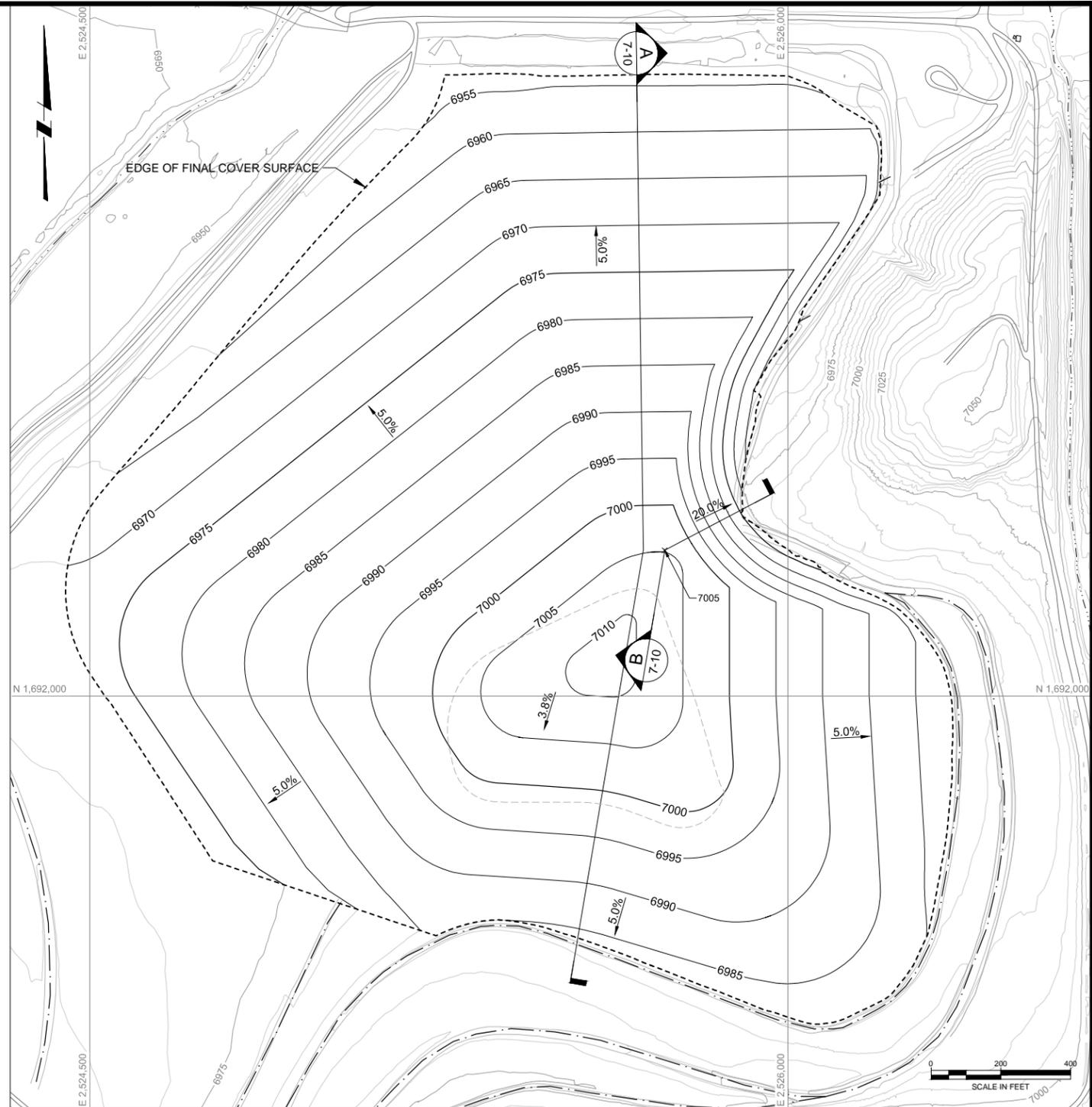


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY PROFILES AT 1,033,500 CY OF MINE WASTE

P:\mine\min103\mnhglobal.com\AM_PROJECTS\2016\07-09 REPOSITORY DESIGN\NECR-30% DESIGN\DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR-30% DESIGN\Plan Max.dwg LAYOUT:Plan PLOT DATE:7/1/2016 11:33 AM BY:REEDKW



REPOSITORY TOP OF MINE WASTE SURFACE
AT 1,117,600 CY OF MINE WASTE



REPOSITORY TOP OF COVER SURFACE
AT 1,117,600 CY OF MINE WASTE

- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - 7200 PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING SWALES

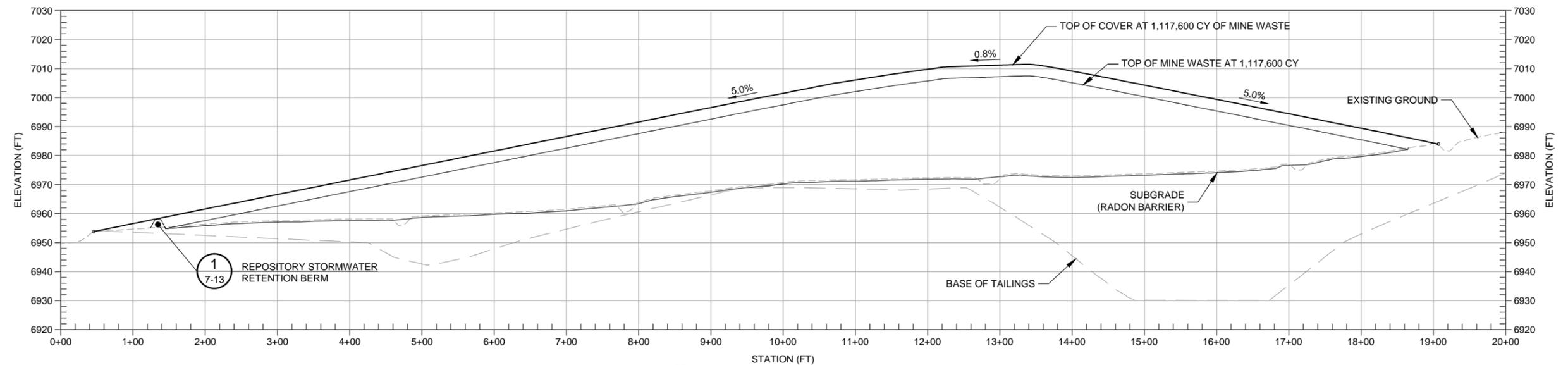
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN



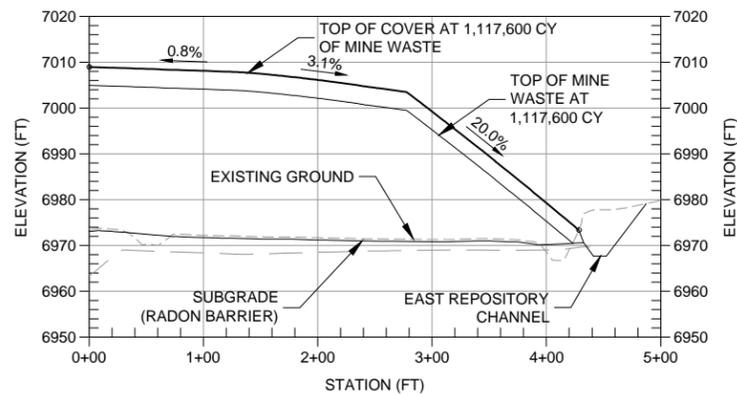
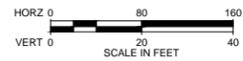
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY AT 1,117,600 CY MINE WASTE
 AND COVER GRADING PLAN

SHEET
 7-09
 10508639

P:\mine\proj\103_mwh\global.com\AM_PROJECTS\02\Documents\General Electric\GE_NECR_Design\Civil\Sheet_Sets\NECR-30%_DESIGN_DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR 7-10 REP PROFILES MAX.dwg LAYOUT:Profile PLOT DATE:7/6/2016 11:34 AM BY:FOWLERPH



A REPOSITORY PROFILE
7-10 AT 1,117,600 CY OF MINE WASTE



B REPOSITORY PROFILE
7-10 AT 1,117,600 CY OF MINE WASTE

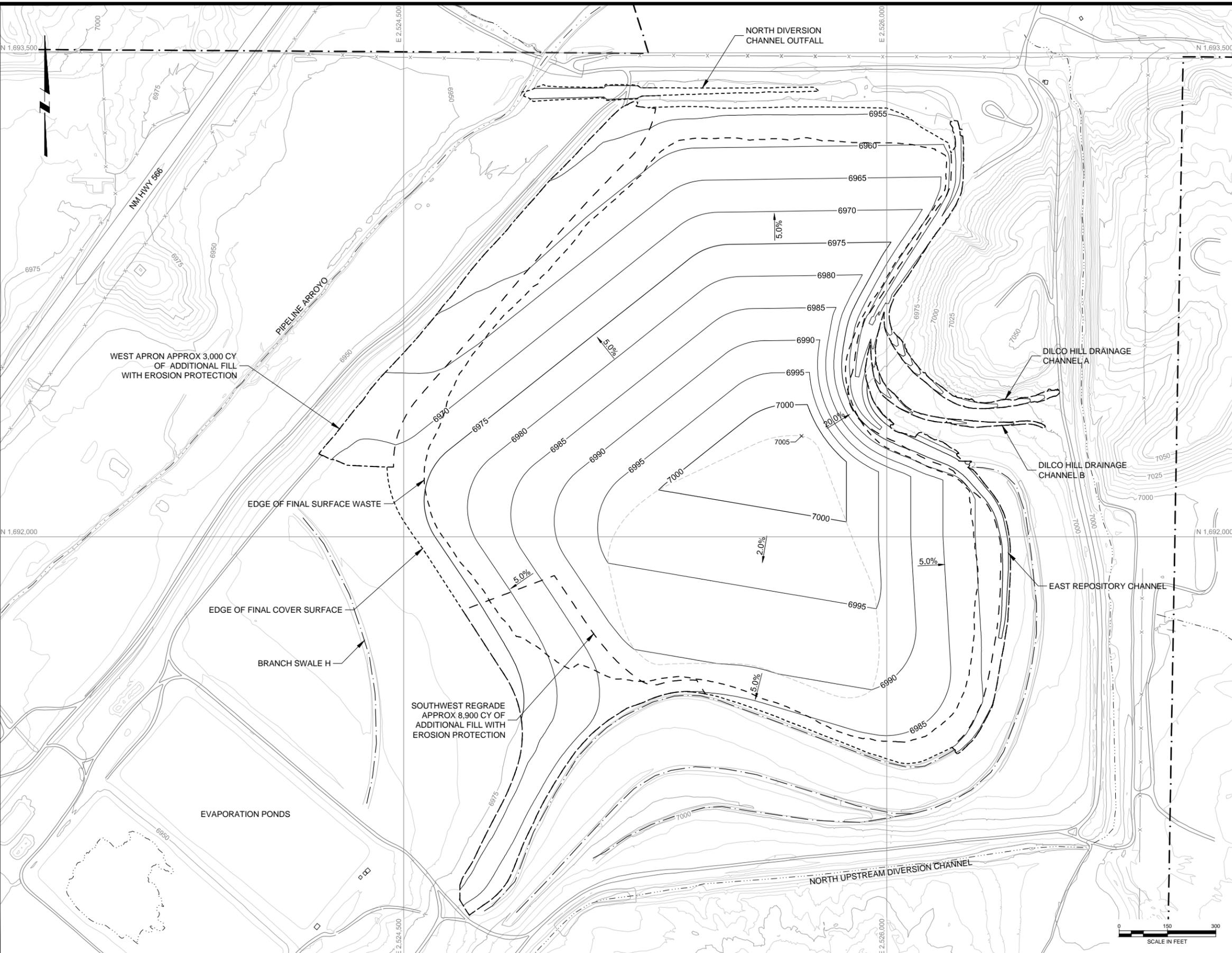


DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 REPOSITORY PROFILES AT 1,117,600 CY OF MINE WASTE

P:\mine\min103_mh\global.com\AM_PROJECTS\202\Documents\General Electric GE NECR Design\Civil Sheet Sets\NECR-30%_DESIGN_DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR 7-11 REP COVER FINAL CONFIG.dwg LAYOUT:Plan PLOT DATE:6/20/2016 4:34 PM BY:FWLERRH



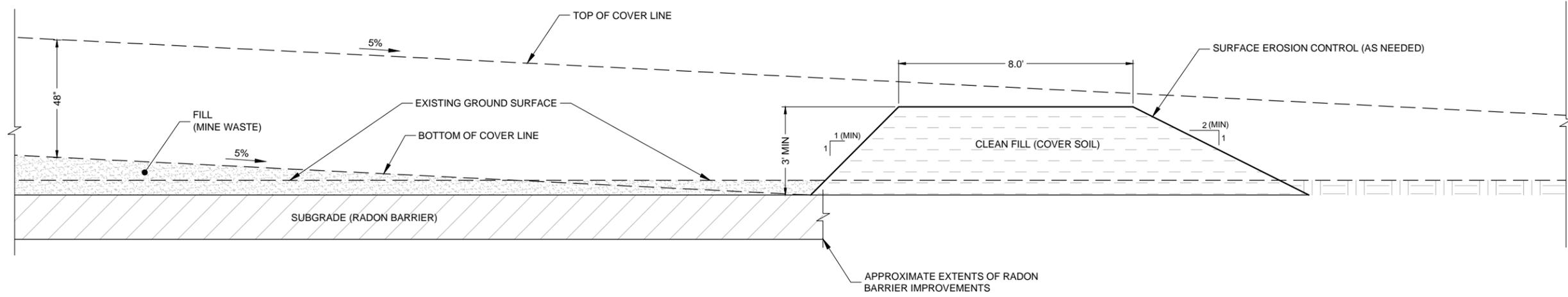
- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - PROPOSED SURFACE CONTOUR & ELEVATION, FEET
 - UNC PROPERTY BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - EXISTING SWALES

- NOTE(S):**
1. FINAL COVER GRADING SHOWN FOR 1,033,500 CY OF MINE WASTE.



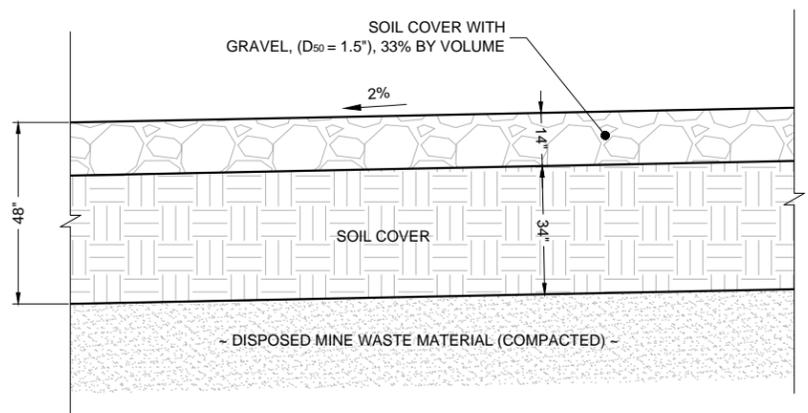
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN

P:\mine\win103\mwhglobal.com\AM_PROJECTS\2016\Documents\General Electric\GE_NECR_Design\Civil\Sheet Sets\NECR-30%_DESIGN_DRAWINGS\07-WASTE_REPOSITORY_DESIGN\NECR 7-13 DETAILS.dwg LAYOUT:Plan PLOT DATE:7/7/2016 1:09 PM BY:FOWLERFH

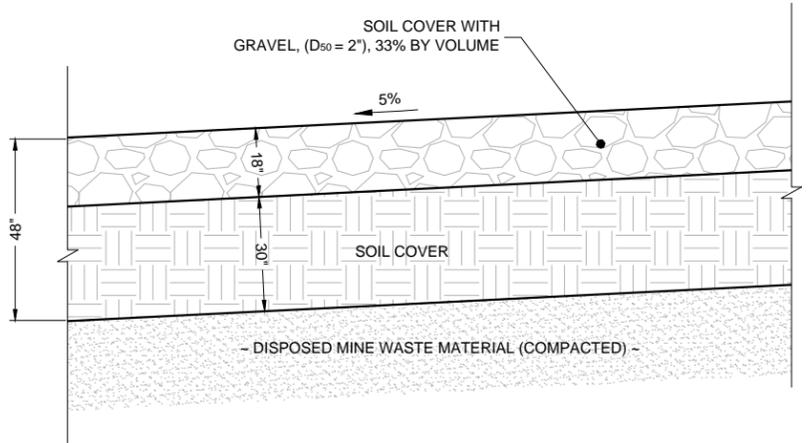


1 REPOSITORY PERIMETER STORMWATER RETENTION BERM
7-13 (NOT TO SCALE)

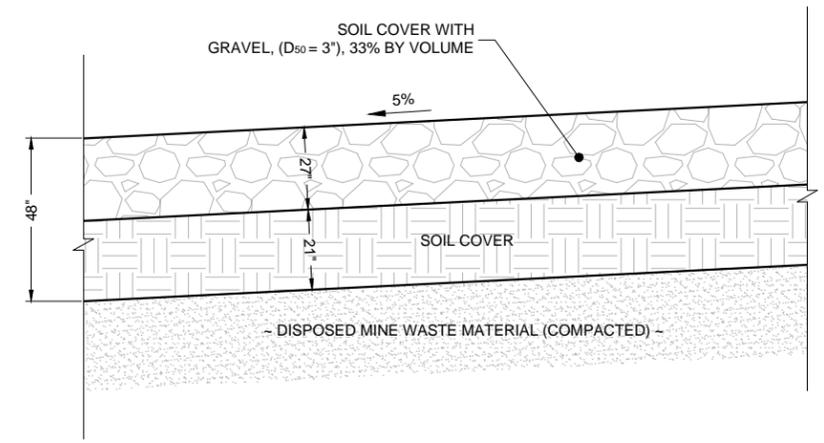
NOTE:
1. CLEAN FILL FOR BERMS TO BE GRADED INTO SOIL COVER LAYER.



2 COVER SLOPE A (TOP SLOPES)
7-13 (NOT TO SCALE)



3 COVER SLOPE B (SIDE SLOPES)
7-13 (NOT TO SCALE)



4 COVER SLOPE C (LOWER SIDE SLOPES)
7-13 (NOT TO SCALE)

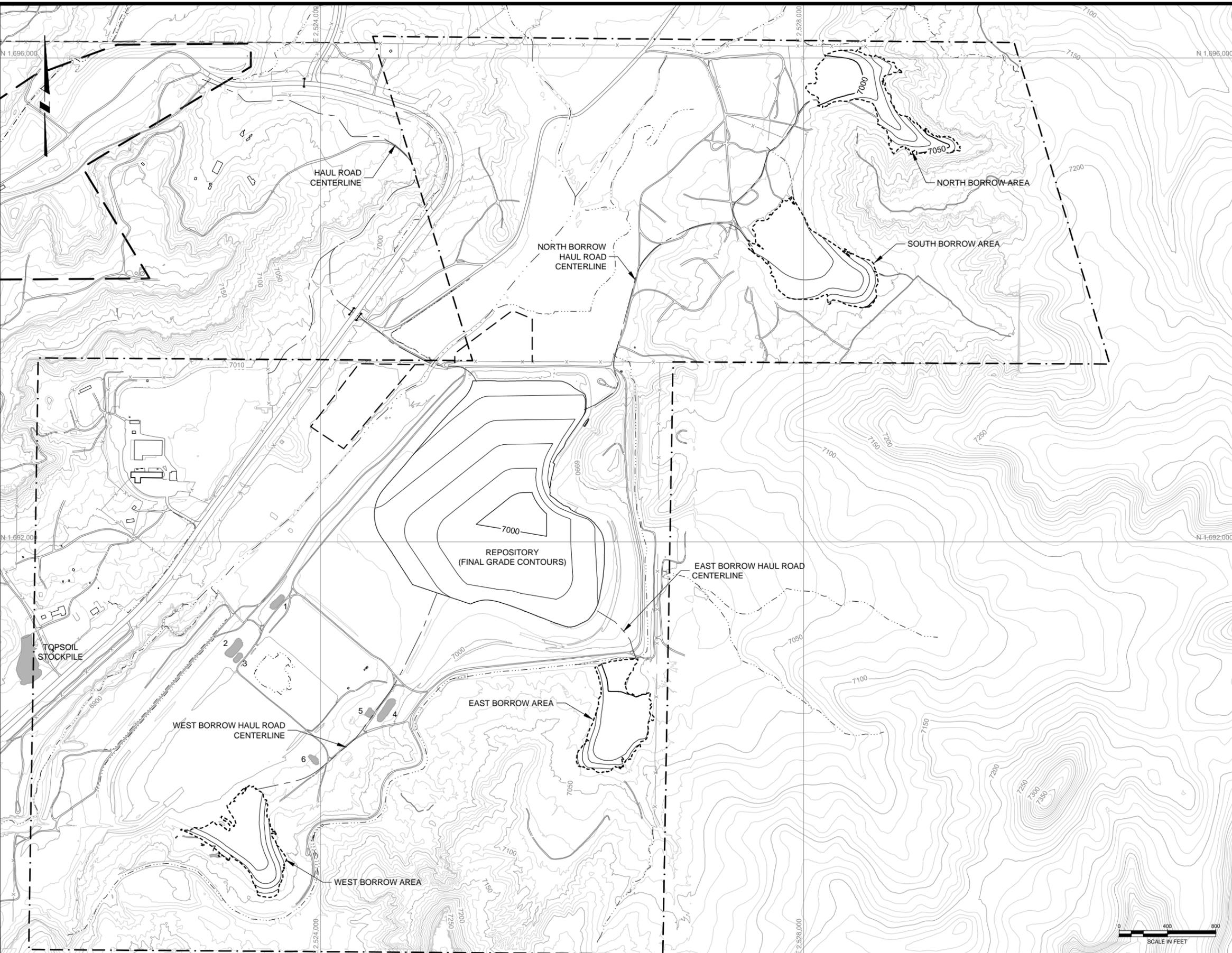
NOTE:
1. ET COVER AND EROSION PROTECTION DESIGNS BY DWYER ENGINEERING, LLC.

DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/2016	KR	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
REPOSITORY COVER DETAILS

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- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - 7200 BORROW EXCAVATION CONTOUR & ELEVATION, FEET
 - NECR MINE PERMIT BOUNDARY
 - CHURCH ROCK MILL SITE BOUNDARY
 - BORROW AREA BOUNDARY
 - HAUL ROAD CENTERLINE
 - NATURAL DRAINAGE
 - EXISTING ROAD
 - EXISTING FENCE
 - 4 MATERIAL STOCKPILE AND DESIGNATION

- NOTE(S):**
1. STOCKPILE 1 IS CRUSHER FINES, STOCKPILE 3 IS ROAD BASE, AND THE REMAINING STOCKPILES (2, 4-7) ARE CRUSHED BASALT RANGING IN SIZE FROM 1 TO 15 INCHES.
 2. TOPSOIL STOCKPILE IS APPROXIMATELY 20,000 CY.



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

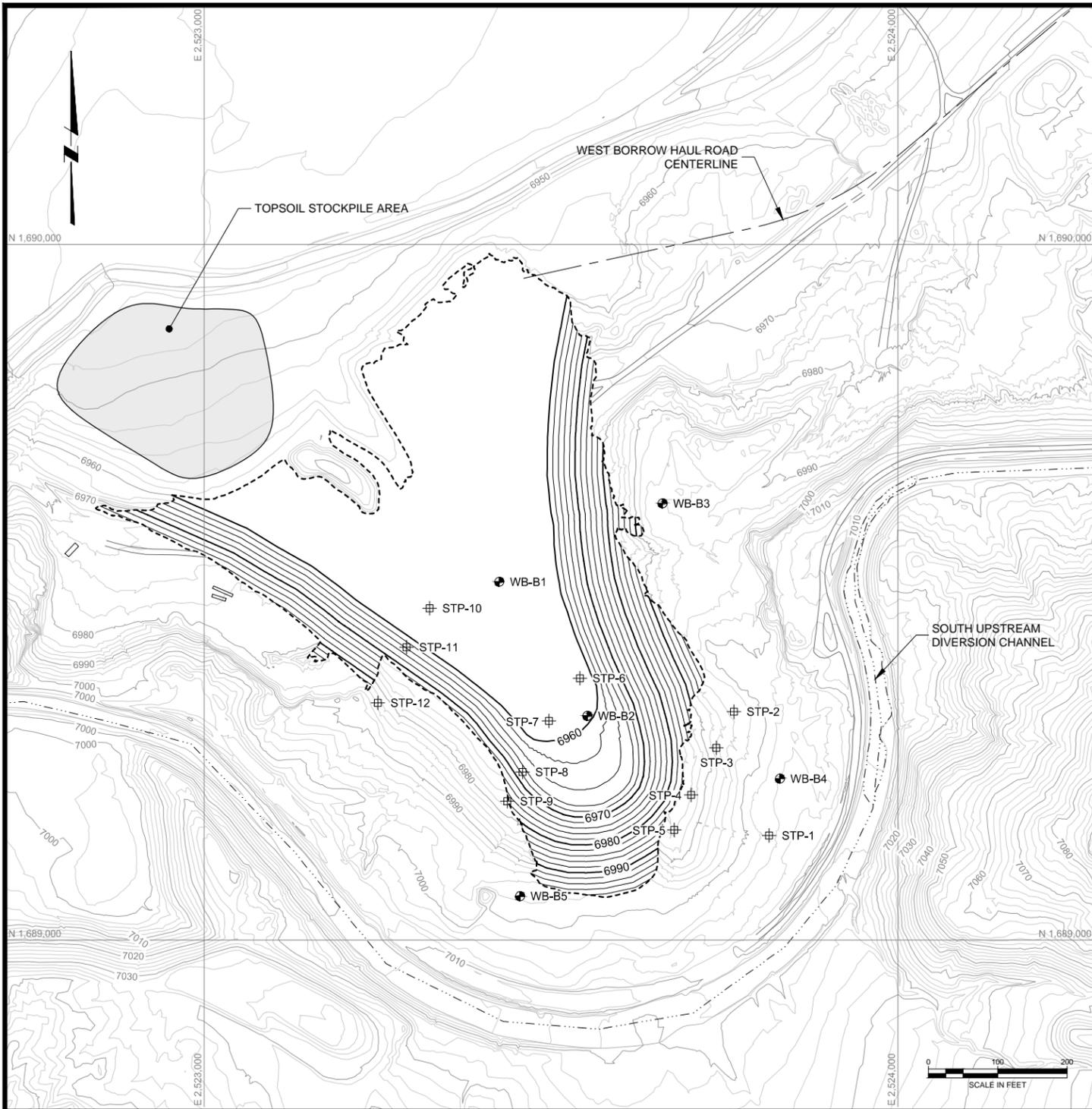
DESIGNED M.WITLER
 CHECKED J.CUMBERS
 APPROVED C.STRACHAN



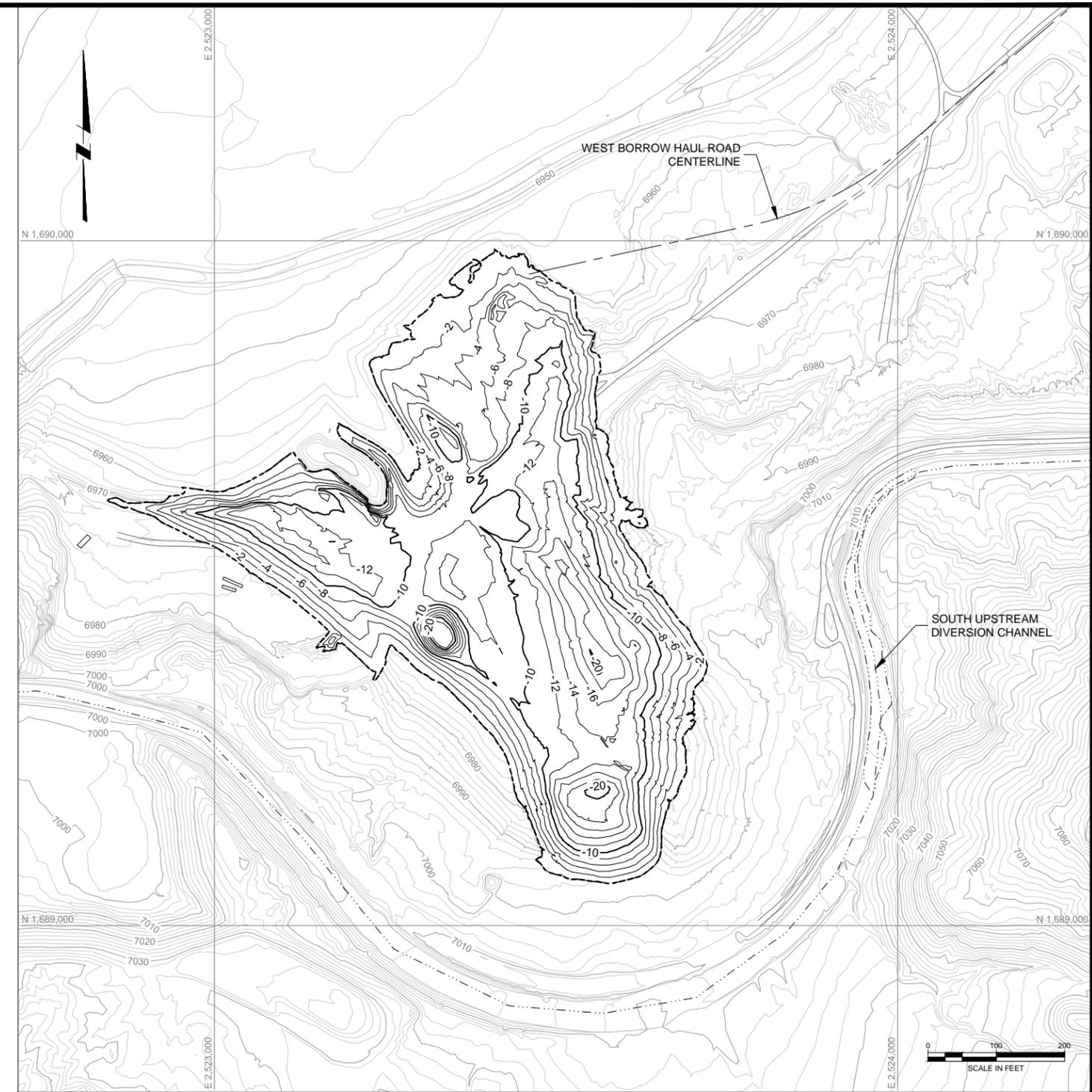
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 BORROW AREAS LOCATION MAP

SHEET
 8-01
 10508639

P:\mineview\103\mining\global.com\AM_PROJECTS\202\Documents\General Electric GE_NECR_Design\Civil\Sheet Sets\NECR-30%_DESIGN_DRAWINGS\01-GENERAL_NECR-8-02 BORROW AREA WEST.dwg LAYOUT:Plan PLOT DATE:7/6/2016 12:04 PM BY:FOWMERRH



WEST BORROW AREA - FINAL GRADING
(89,000 CY OF BORROW AVAILABLE)



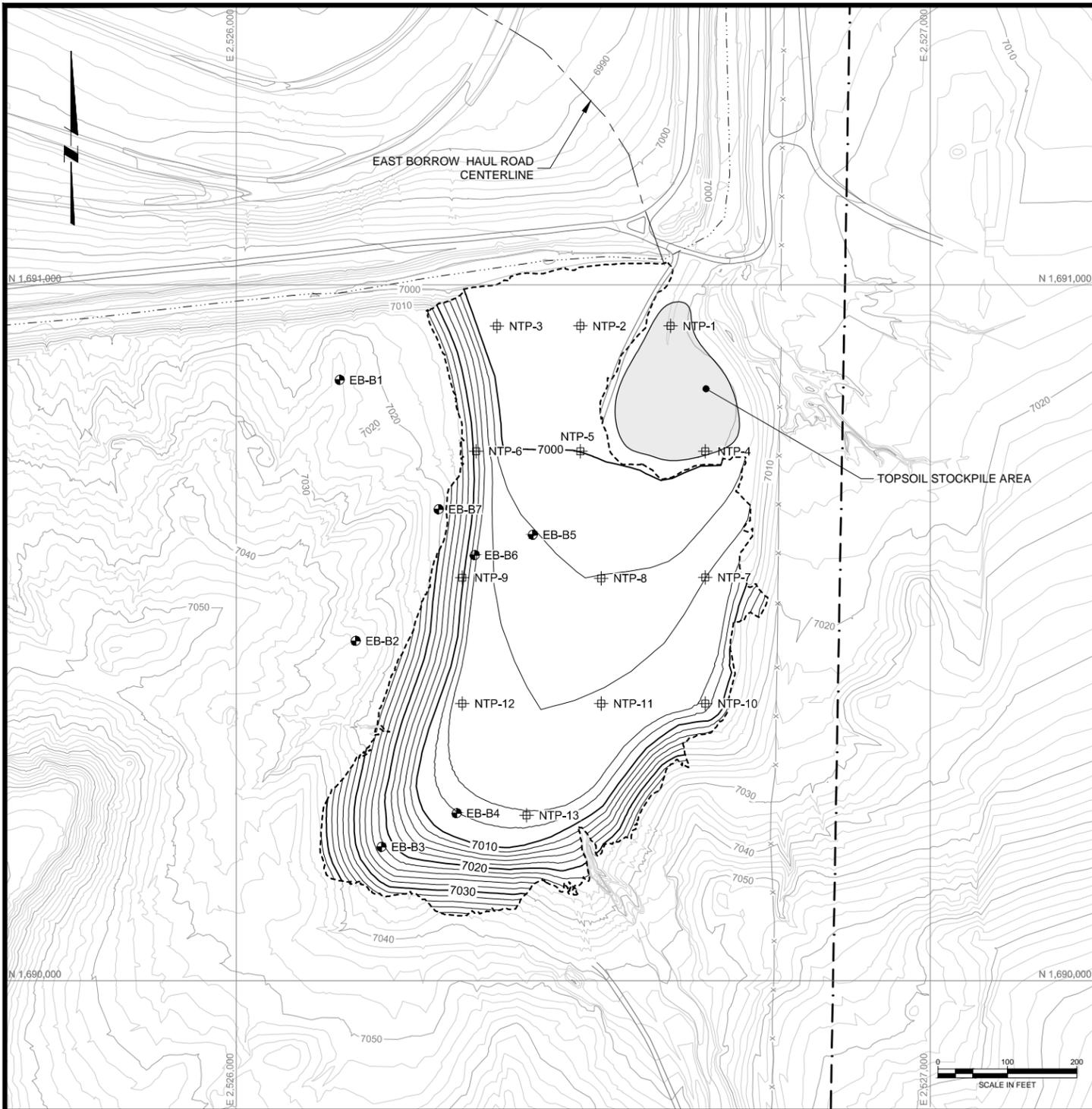
WEST BORROW AREA - CUT DEPTHS

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

DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	KR	ISSUED FOR 30% DESIGN



P:\omerve\m103\mwhglobal.com\AM_PROJECTS\202\Documents\General Electric GE_NECR_Design\Civil\Sheet_Sets\NECR_30%_DESIGN_DRAWINGS\01-GENERAL_NECR_8-03 BORROW AREA EAST.dwg LAYOUT:Plan_PLOT DATE:7/6/2016 11:59 AM BY:FOUWERRH



EAST BORROW AREA - FINAL GRADING
(55,000 CY OF BORROW AVAILABLE)



EAST BORROW AREA - CUT DEPTHS

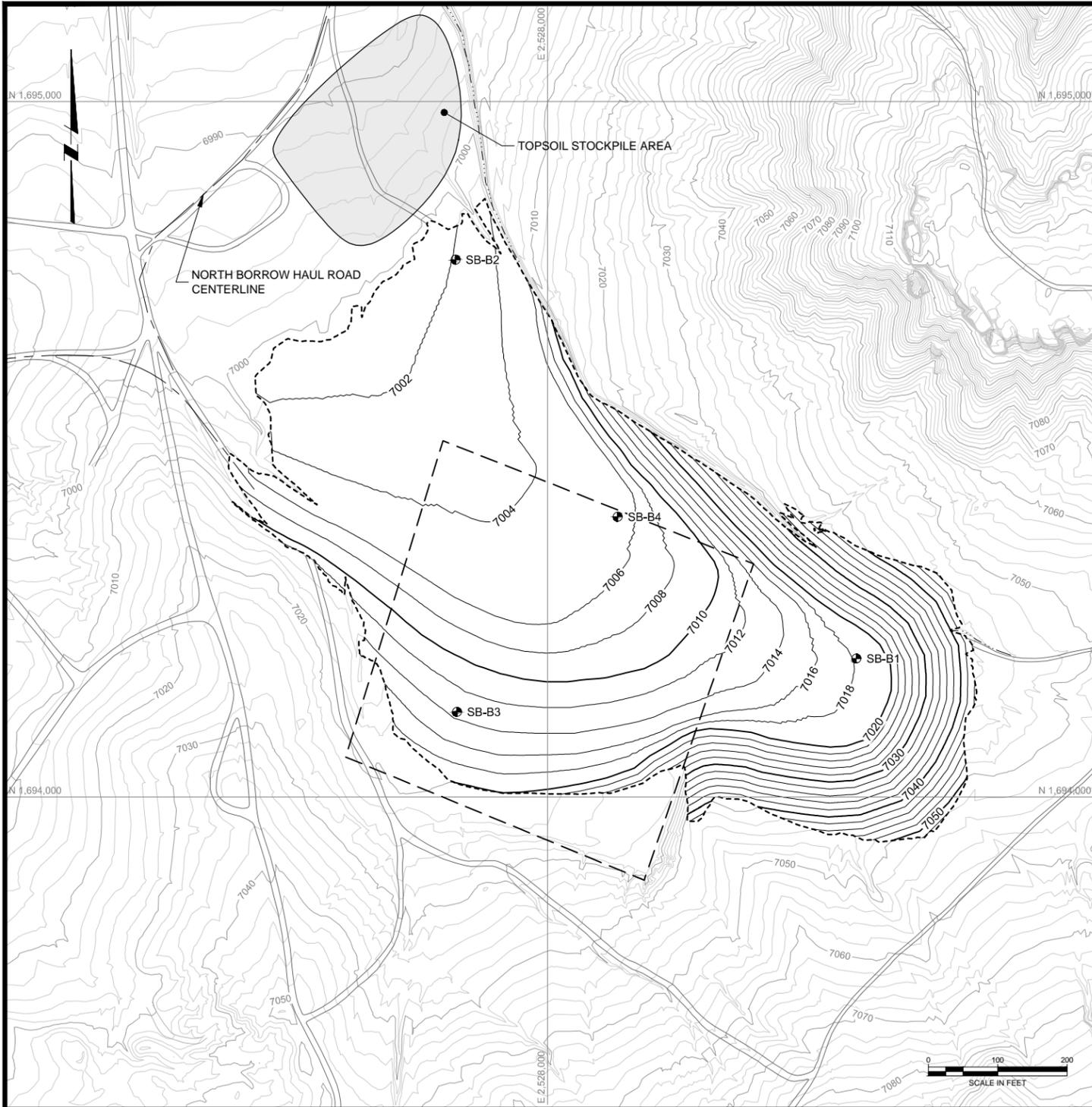
LEGEND:

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

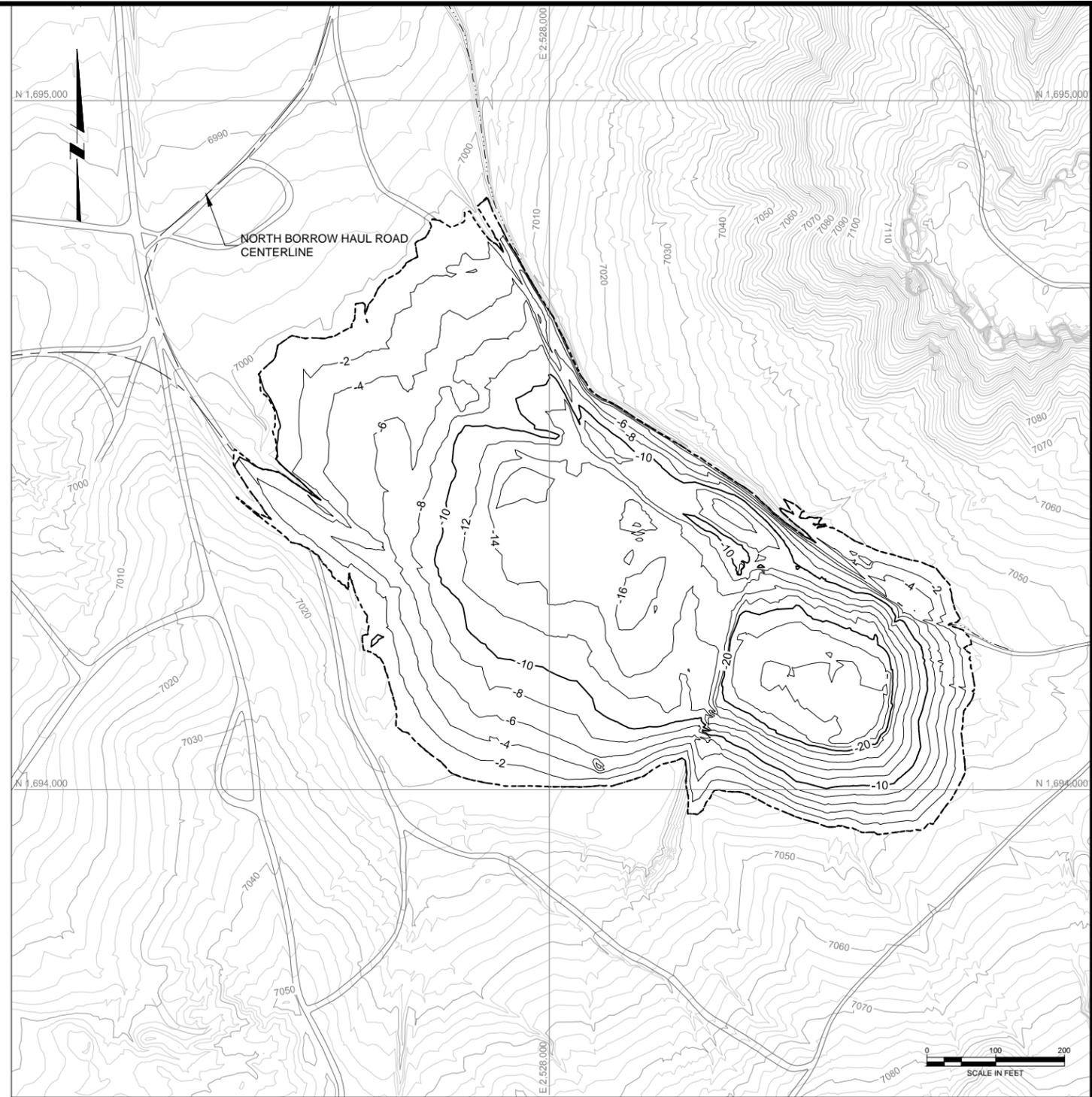
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	KR	ISSUED FOR 30% DESIGN



P:\mineview\103\mnhglobal.com\AM_PROJECTS\2016\Documents\General Electric GE_NECR_Design\Civil\Sheet_Sets\NECR-30%_DESIGN_DRAWINGS\01-GENERAL_NECR_8-04_BORROW_AREA_SOUTH.dwg LAYOUT:Plan PLOT DATE:7/6/2016 12:09 PM BY:FOWLERFH



SOUTH BORROW AREA - FINAL GRADING
(160,000 CY OF BORROW AVAILABLE)



SOUTH BORROW AREA - CUT DEPTHS

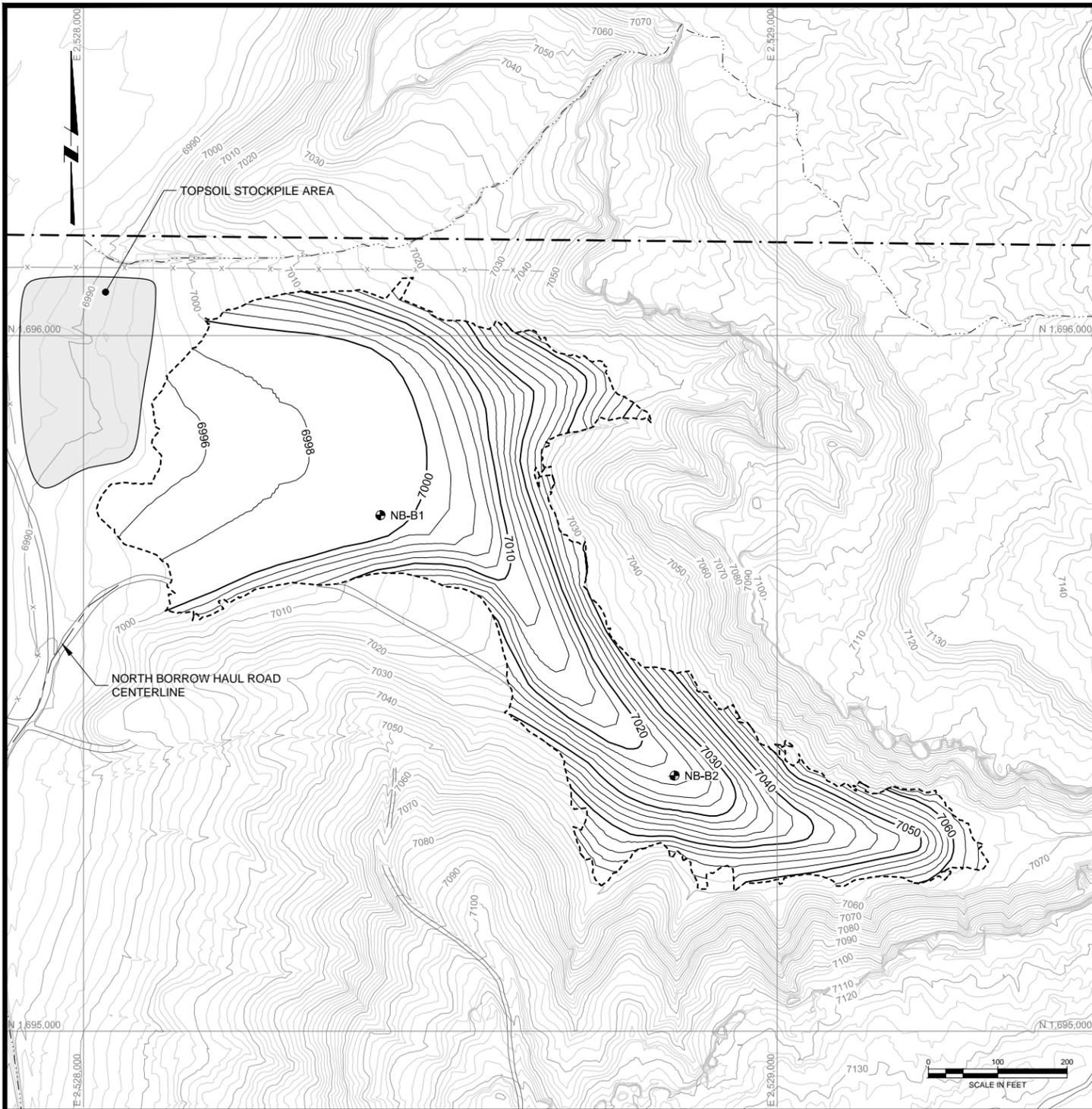
LEGEND:

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

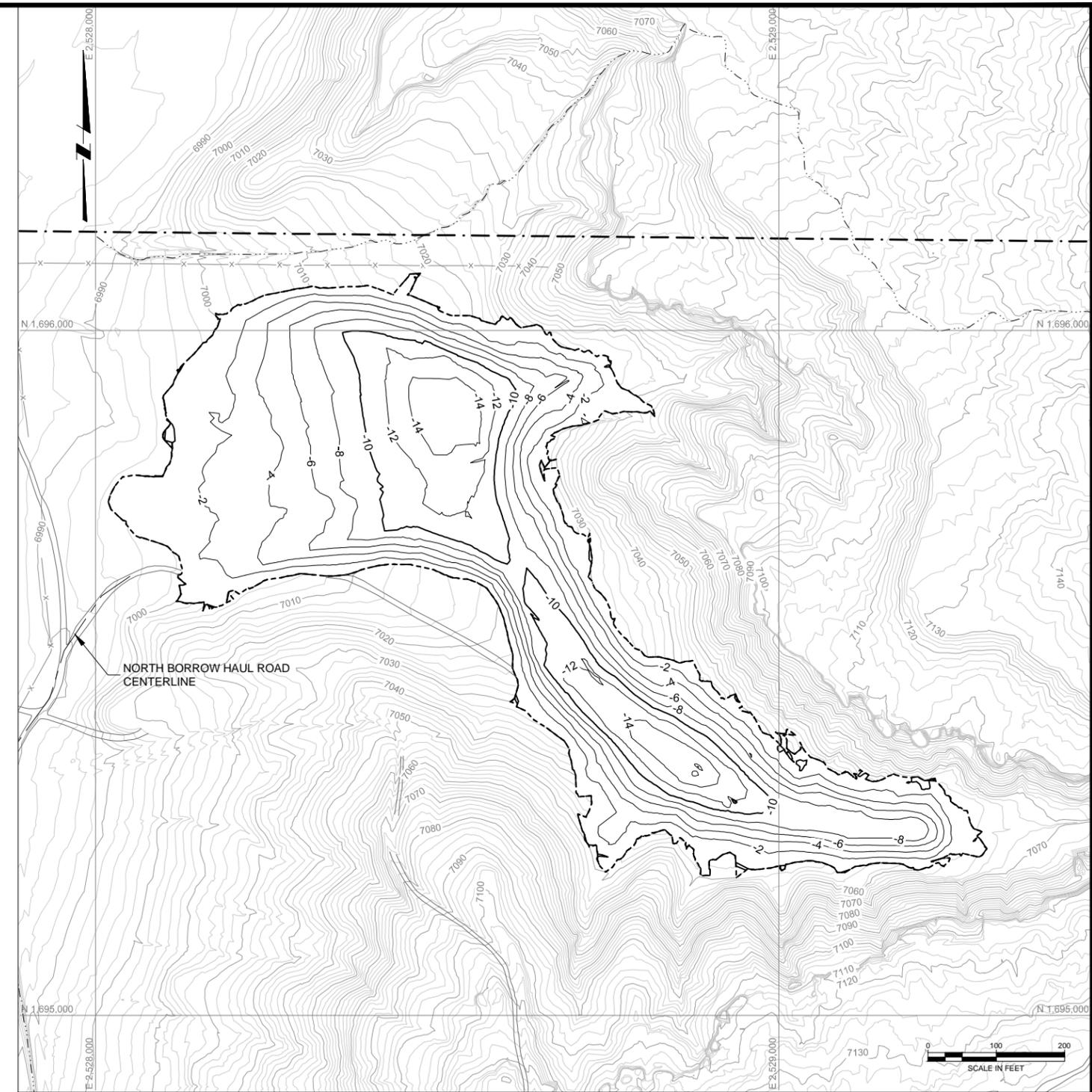
DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	KR	ISSUED FOR 30% DESIGN



P:\omerve\103\mwh\global.com\AM_PROJECTS\2016\Documents\General Electric GE_NECR_Design\Civil\Sheet Sets\NECR-30%_DESIGN_DRAWINGS\01-GENERAL_NECR-8-03 BORROW AREA NORTH.dwg LAYOUT:Plan PLOT DATE:7/6/2016 12:18 PM BY:FOWLERFH



NORTH BORROW AREA - FINAL GRADING
 (71,000 CY OF BORROW AVAILABLE)

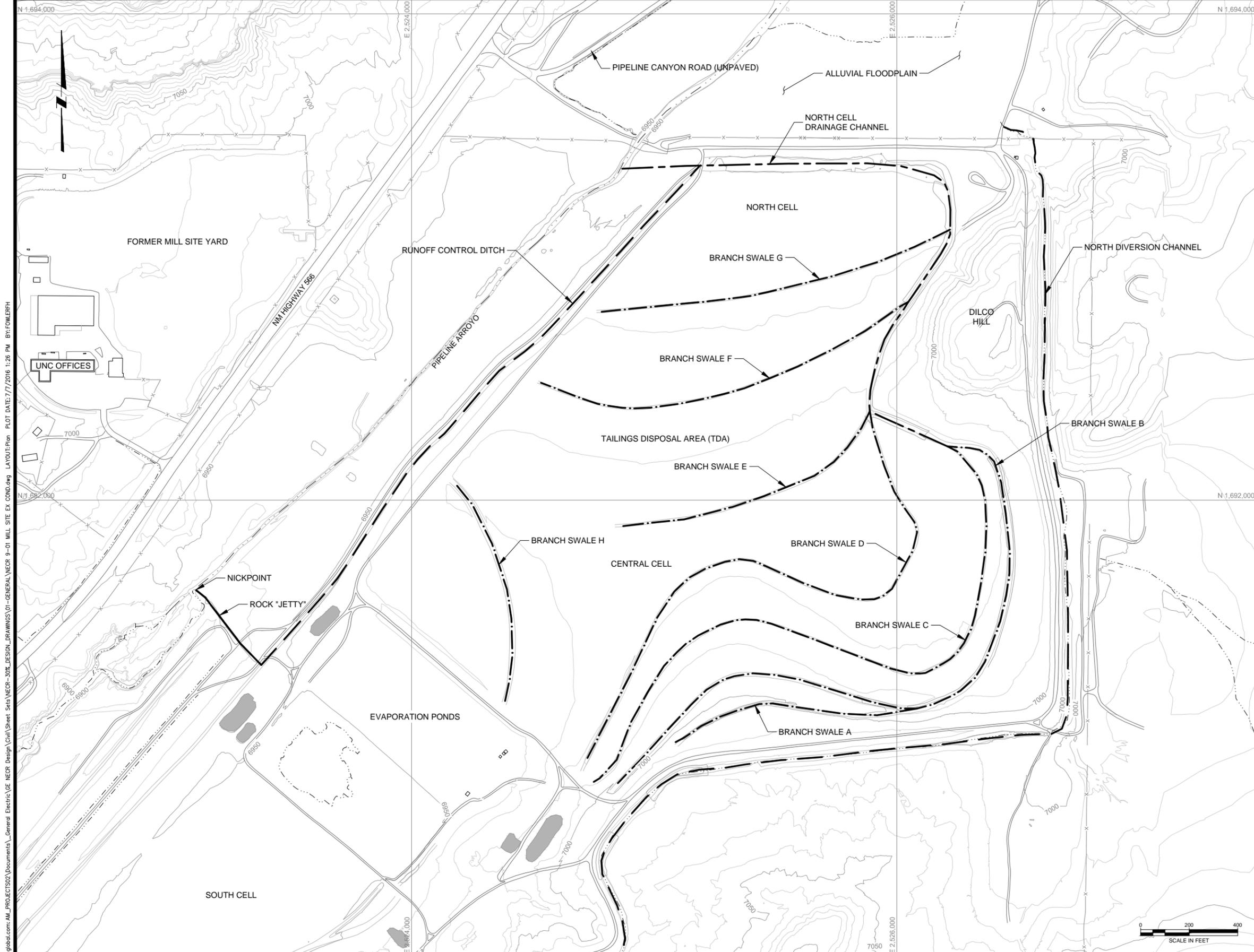


NORTH BORROW AREA - CUT DEPTHS

- 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
 - SOIL BORING (MWH, 2013)

DESIGNED	M. WITLER		
CHECKED	J. CUMBERS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	KR	ISSUED FOR 30% DESIGN

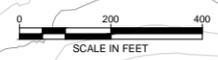
		UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE MCKINLEY COUNTY, NEW MEXICO NORTHEAST CHURCH ROCK PROJECT 30% DESIGN NORTH BORROW AREA	SHEET 8-05 10508639
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LEGEND:

- EXISTING GROUND SURFACE ELEVATIONS & CONTOUR, FEET
- DRAINAGE CHANNEL
- BRANCH SWALE
- DIVERSION CHANNEL
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- MATERIAL STOCKPILES

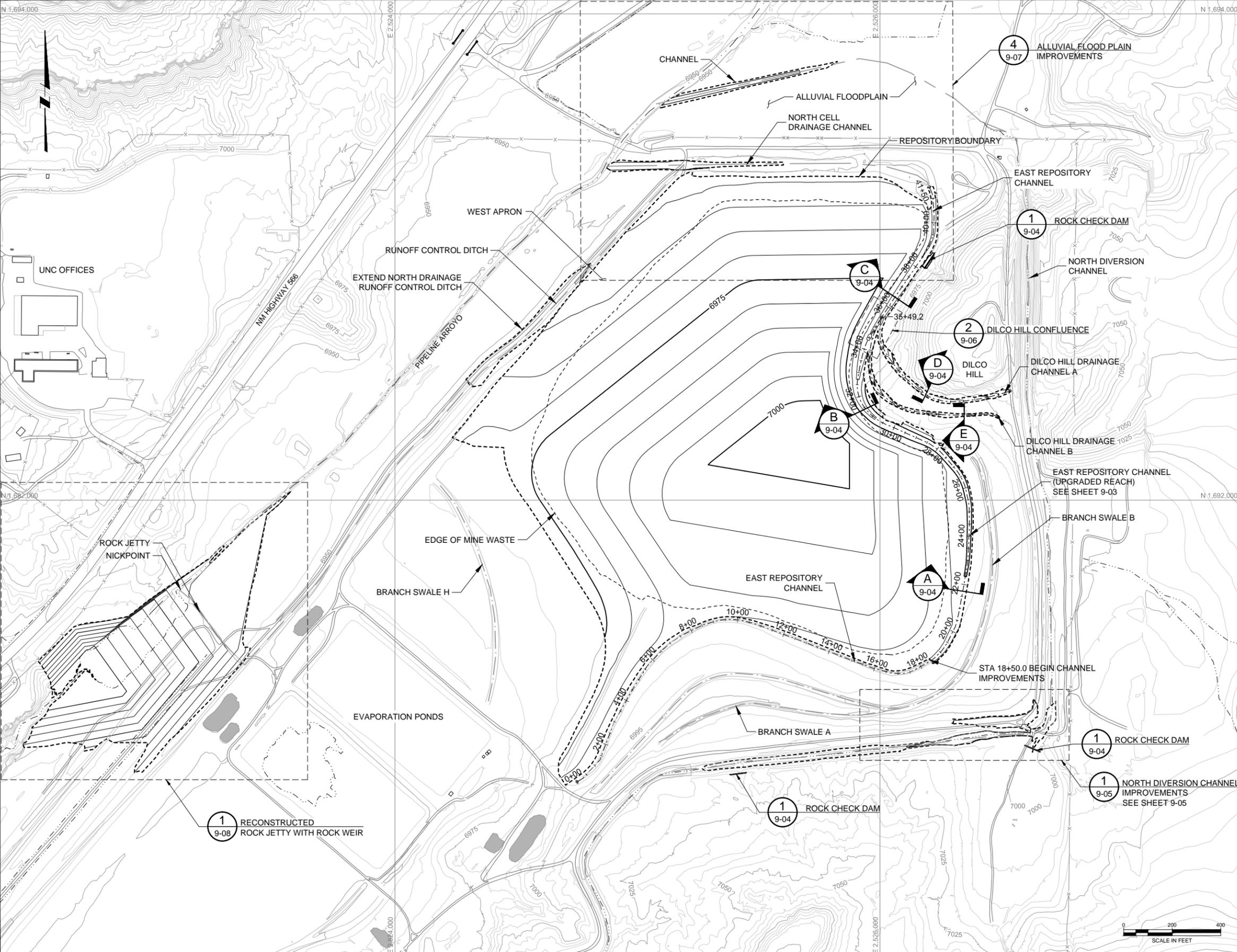
P:\mervwin\103\mnhglobal.com\AM_PROJECTS\202\Documents\General Electric GE_NECR_Design\Civil\Sheet Sets\NECR-30%_DESIGN_DRAWINGS\01-GENERAL_NECR_9-01_MILL_SITE_EX_COND.dwg LAYOUT:Plan PLOT DATE:7/7/2016 1:26 PM BY:FOWLERRH



DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN

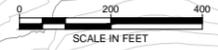
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REPOSITORY AREA STORMWATER CONTROLS
 EXISTING CONDITION

P:\omerve\win103_mhnglobal.com\AM_PROJECTS\202 Documents\General Electric GE_NECR Design\Civil Sheet Sets\NECR-30% DESIGN DRAWINGS\01-GENERAL\NECR 9-02 MILL SITE FINAL COND.dwg LAYOUT:Plan PLOT DATE:7/11/2016 8:48 AM BY:FOWLERFH



LEGEND:

- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- DRAINAGE CHANNEL
- BRANCH SWALE
- DIVERSION CHANNEL
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- MATERIAL STOCKPILES
- GATE

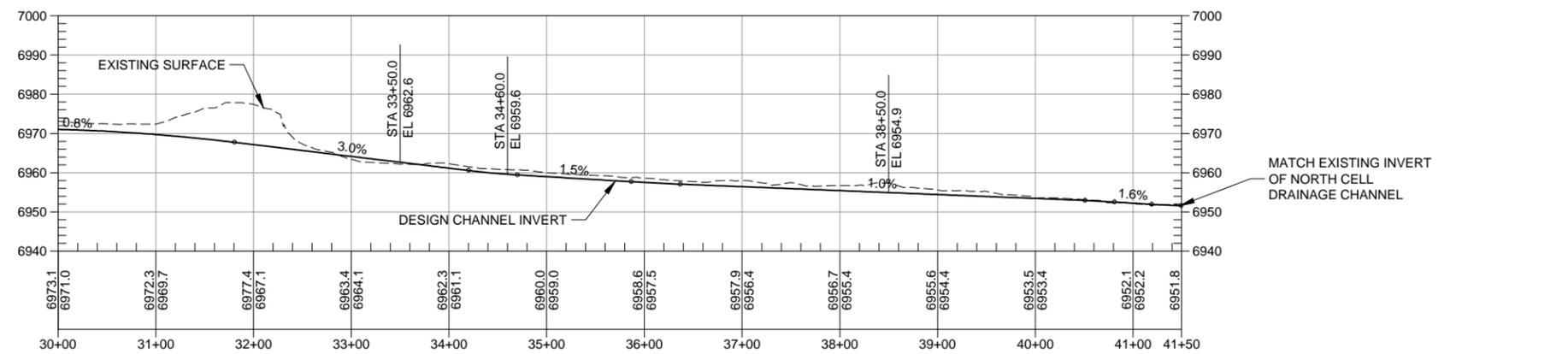
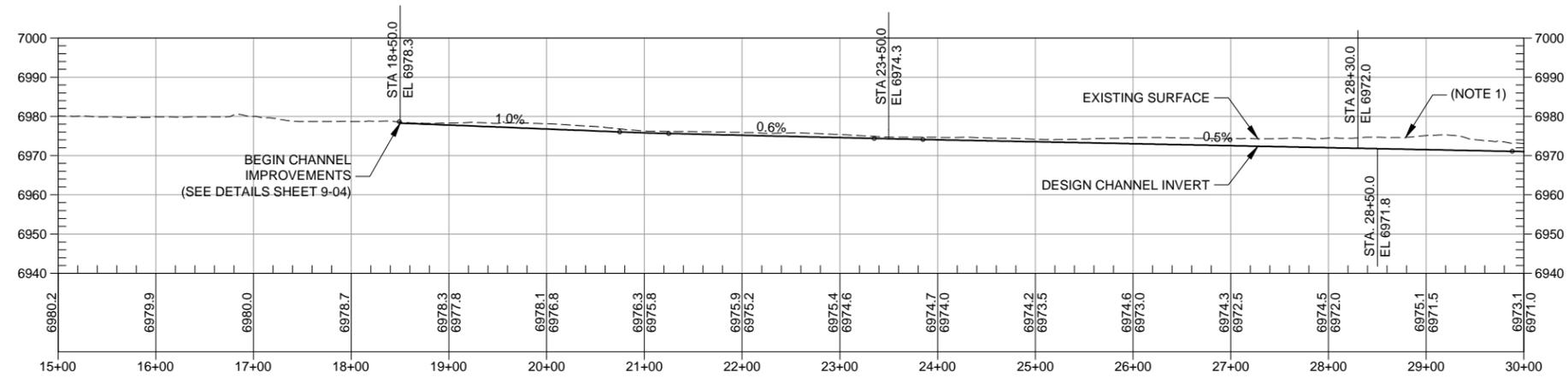
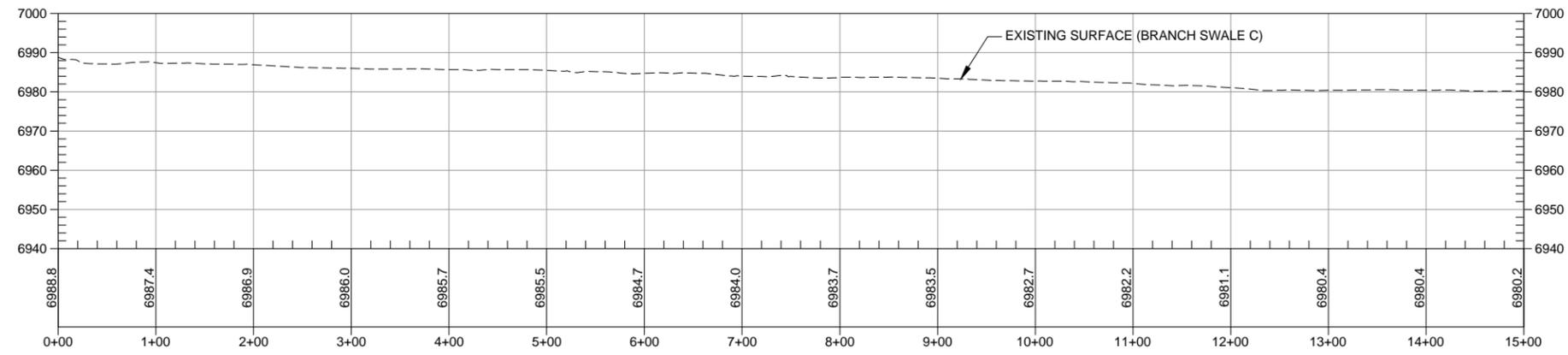


DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN

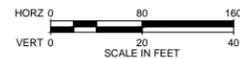
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REPOSITORY AREA STORMWATER CONTROLS
 FINAL CONDITION

NOTE(S):

1. REMOVE EXISTING SEDIMENT ACCUMULATION IN CHANNEL



① EAST REPOSITORY DRAINAGE CHANNEL PROFILE
9-03



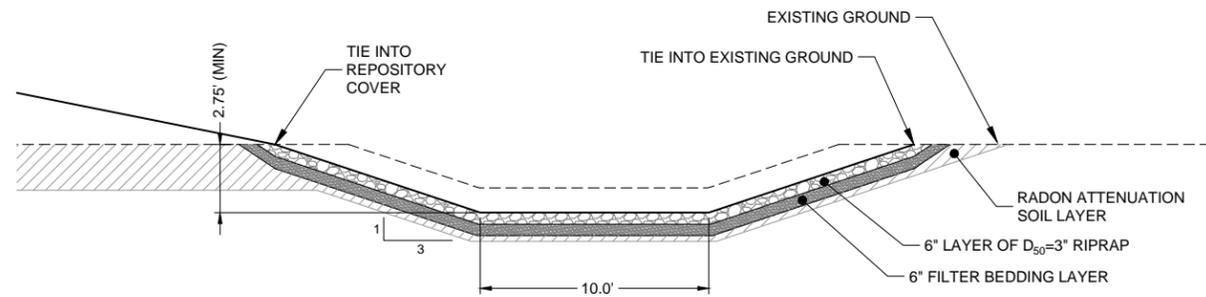
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DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN

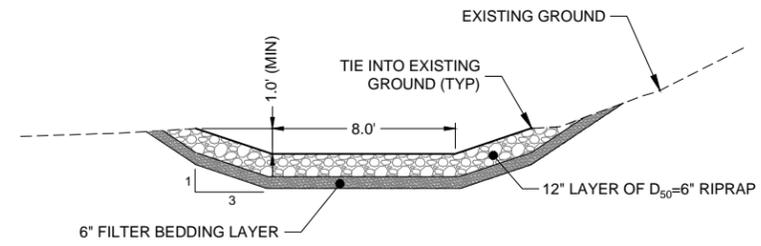


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
REPOSITORY CHANNEL PROFILES

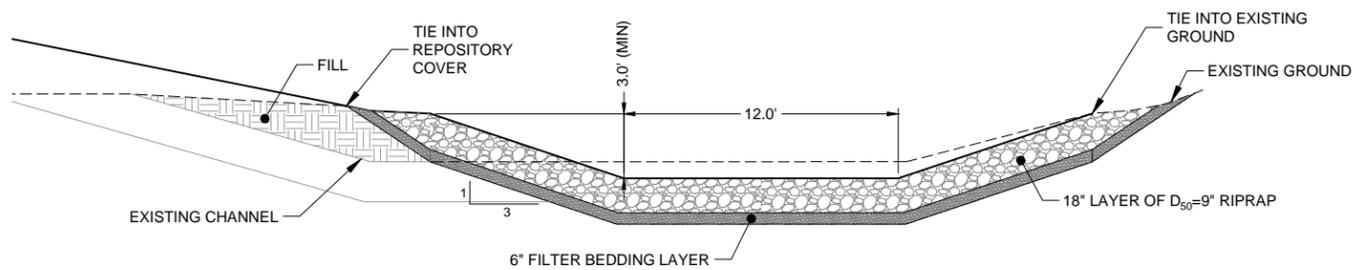
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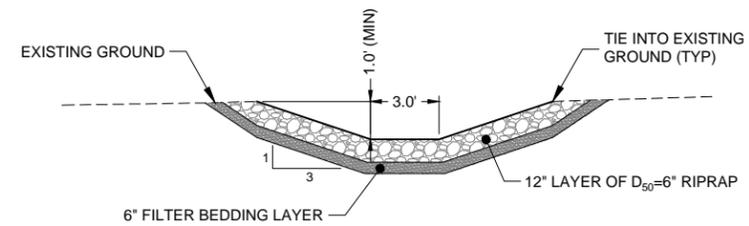
A EAST REPOSITORY DRAINAGE CHANNEL
9-04 STA 18+50.0 TO 28+30.0 (NOT TO SCALE)



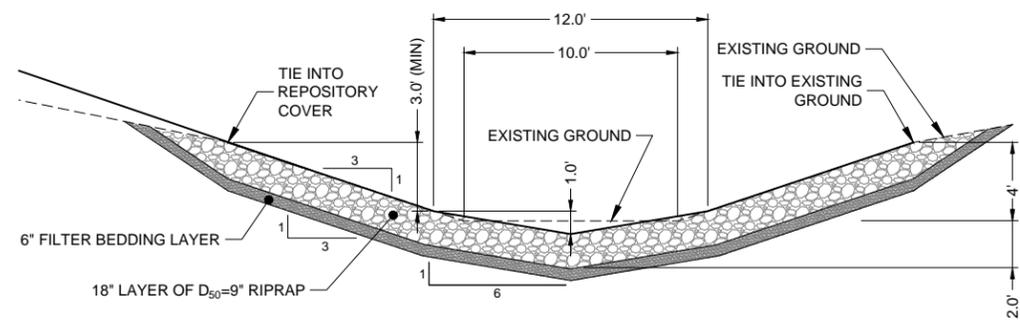
D DILCO HILL DRAINAGE CHANNEL A
9-04 (NOT TO SCALE)



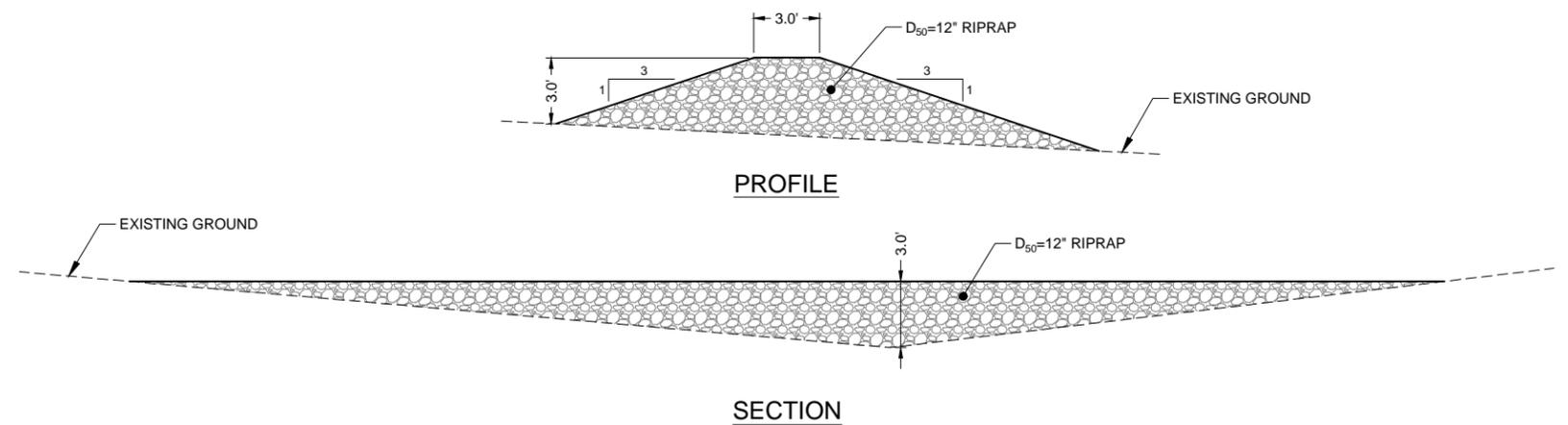
B EAST REPOSITORY DRAINAGE CHANNEL
9-04 SECTION 28+30.0 TO 34+60.0 (NOT TO SCALE)



E DILCO HILL DRAINAGE CHANNEL B
9-04 (NOT TO SCALE)



C EAST REPOSITORY DRAINAGE CHANNEL
9-04 SECTION 34+60.0 TO 41+39.0 (NOT TO SCALE)



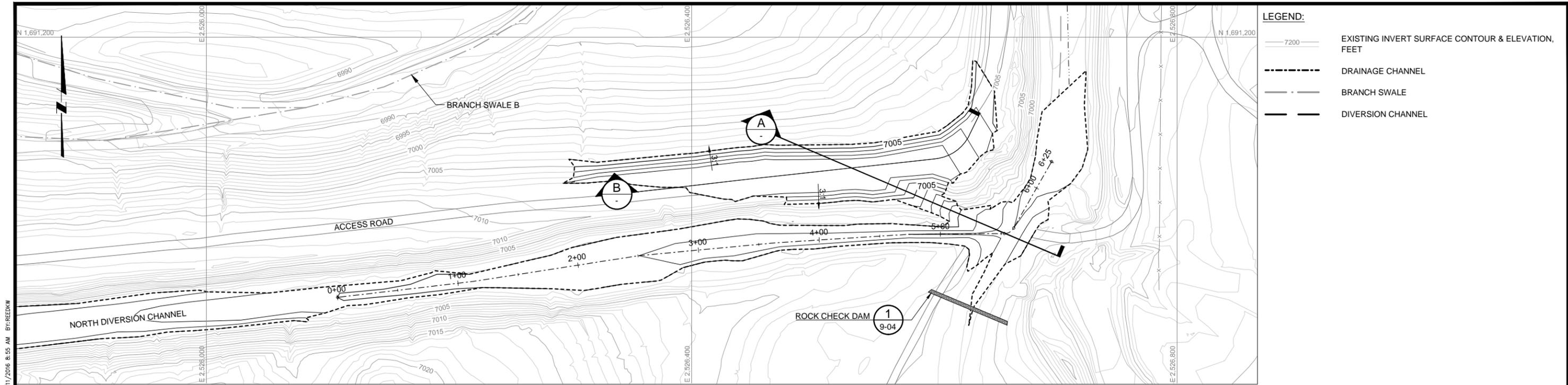
1 TYPICAL ROCK CHECK DAM PROFILE AND SECTION
9-04 (NOT TO SCALE)

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

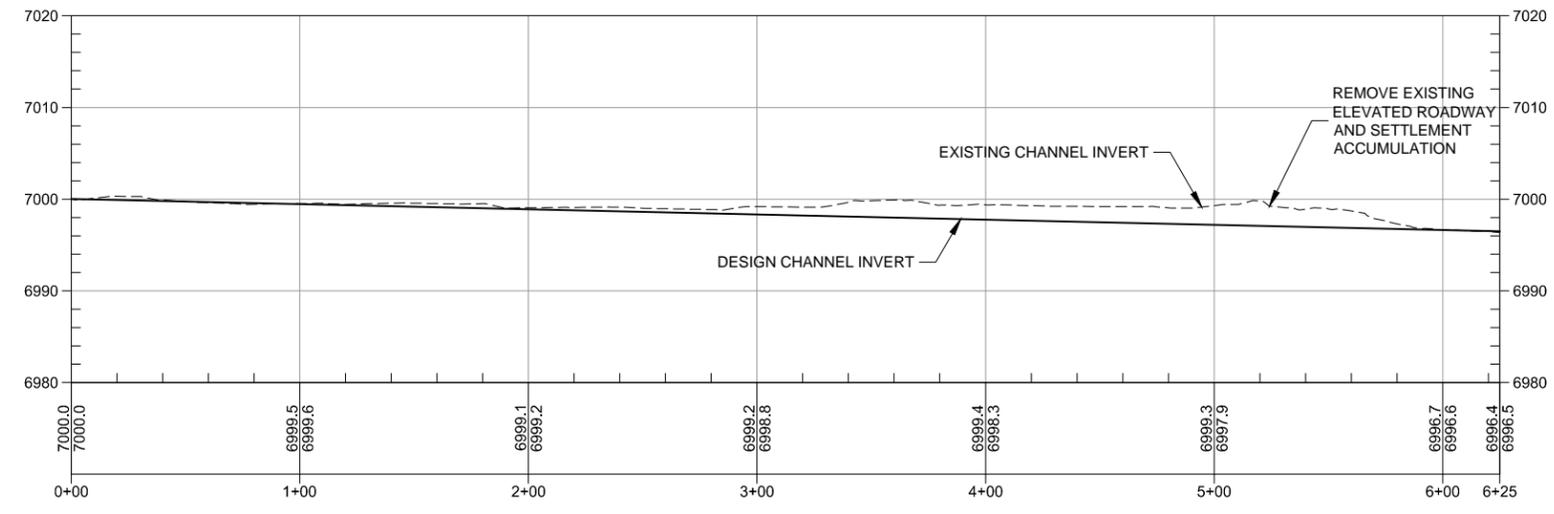
DESIGNED	J.ERICKSON
CHECKED	N.HAWS
APPROVED	C.STRACHAN



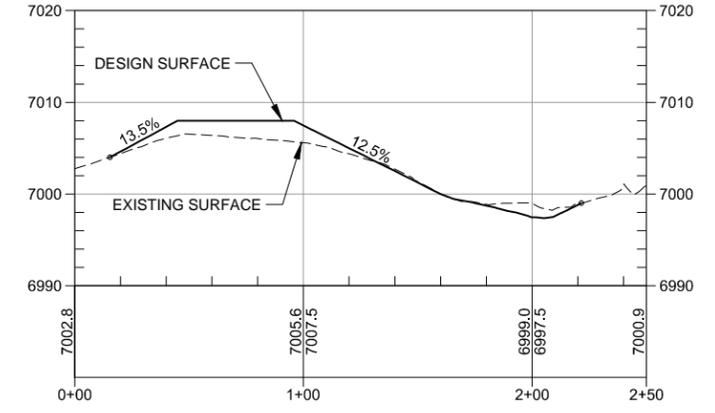
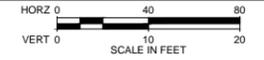
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
DETAILS



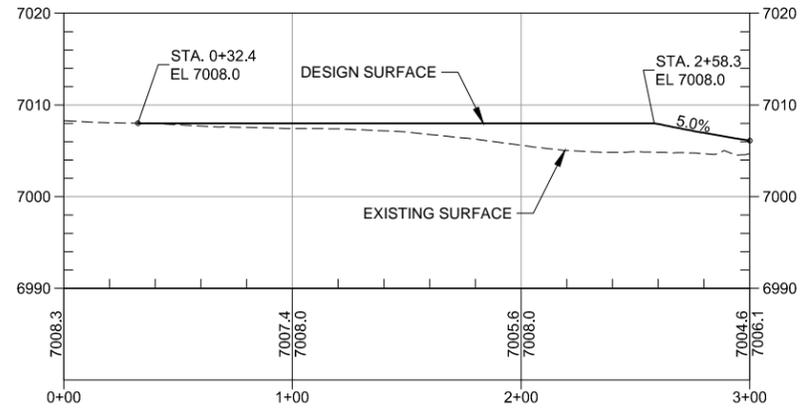
1 NORTH DIVERSION CHANNEL IMPROVEMENTS
9-05



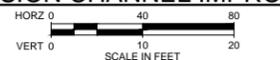
NORTH DIVERSION CHANNEL IMPROVEMENTS PROFILE



A NORTH DIVERSION CHANNEL IMPROVEMENTS SECTION



B NORTH DIVERSION CHANNEL IMPROVEMENTS SECTION

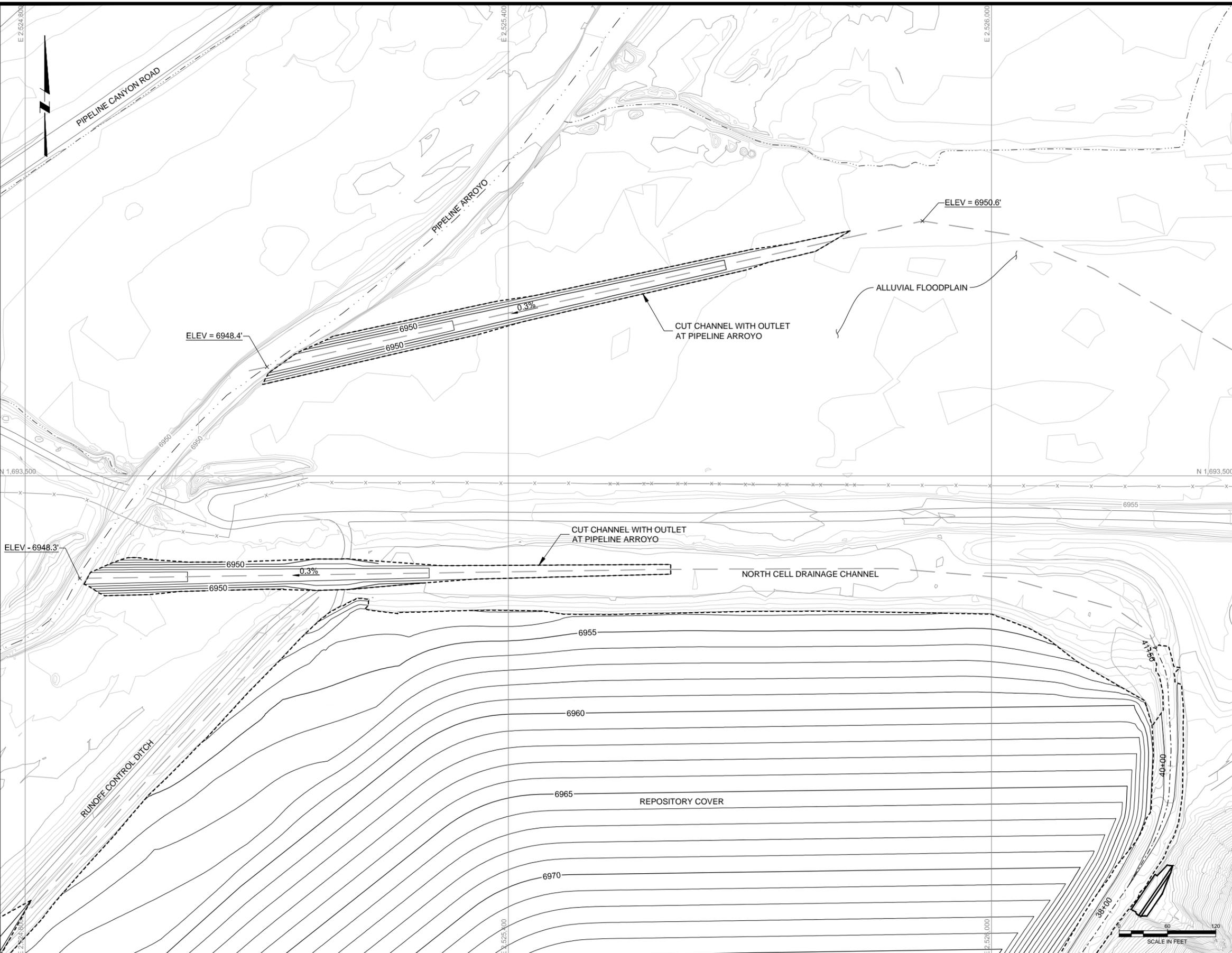


DESIGNED	J.ERICKSON		
CHECKED	N.HAWS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
MCKINLEY COUNTY, NEW MEXICO
NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
MILL SITE REPOSITORY AREA STORMWATER CONTROLS
NORTH DIVERSION CHANNEL IMPROVEMENTS

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- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - DRAINAGE CHANNEL
 - DIVERSION CHANNEL
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE

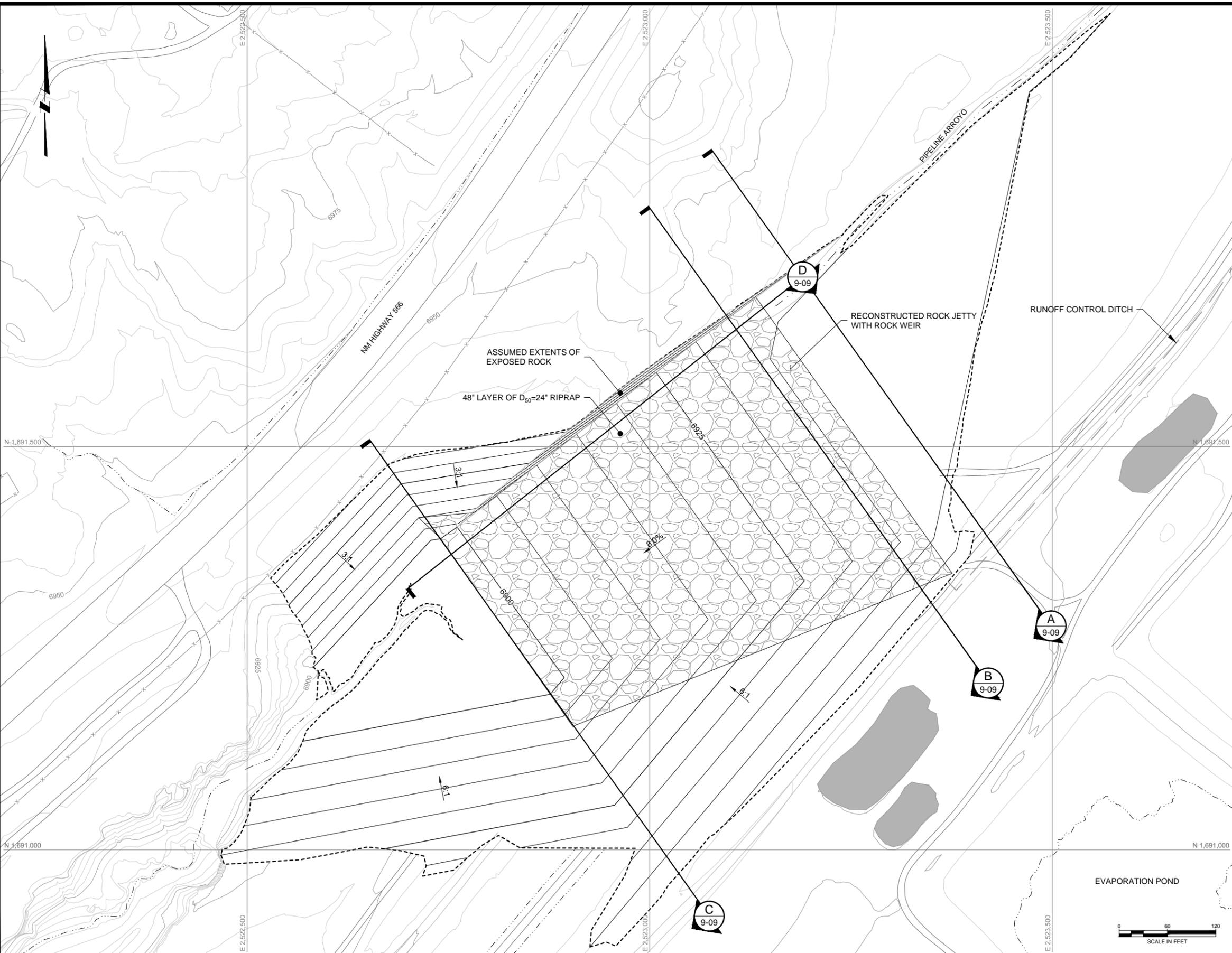
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN

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



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REPOSITORY AREA STORMWATER CONTROLS
 ALLUVIAL FLOODPLAIN IMPROVEMENTS

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LEGEND:

	EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
	DRAINAGE CHANNEL
	ROADS
	NATURAL DRAINAGE
	EXISTING FENCE
	MATERIAL STOCKPILES

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

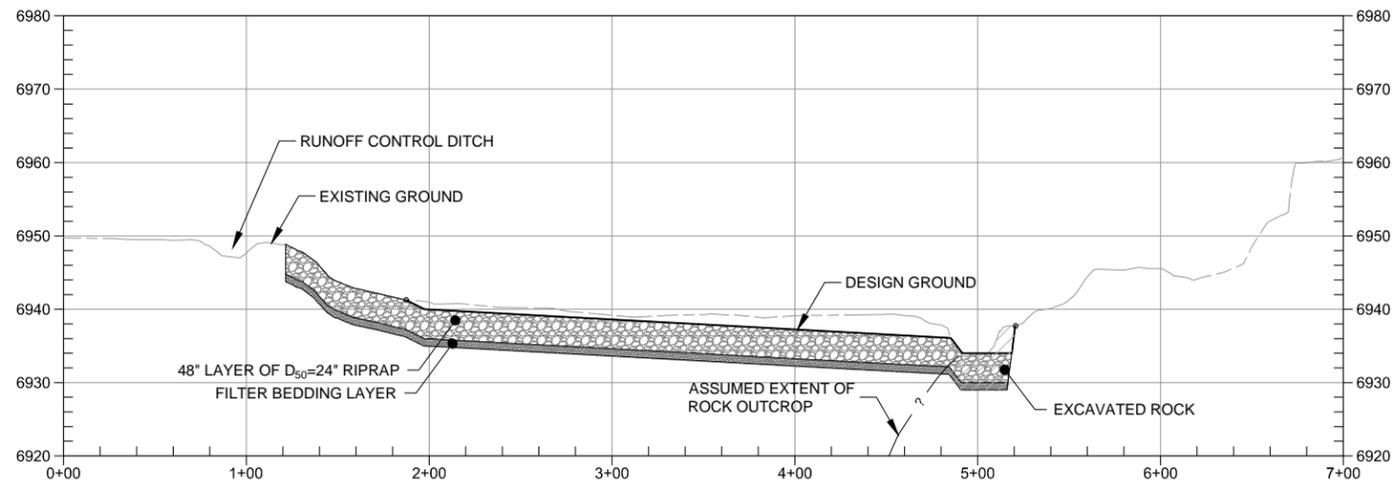
DESIGNED	J.ERICKSON
CHECKED	N.HAWS
APPROVED	C.STRACHAN



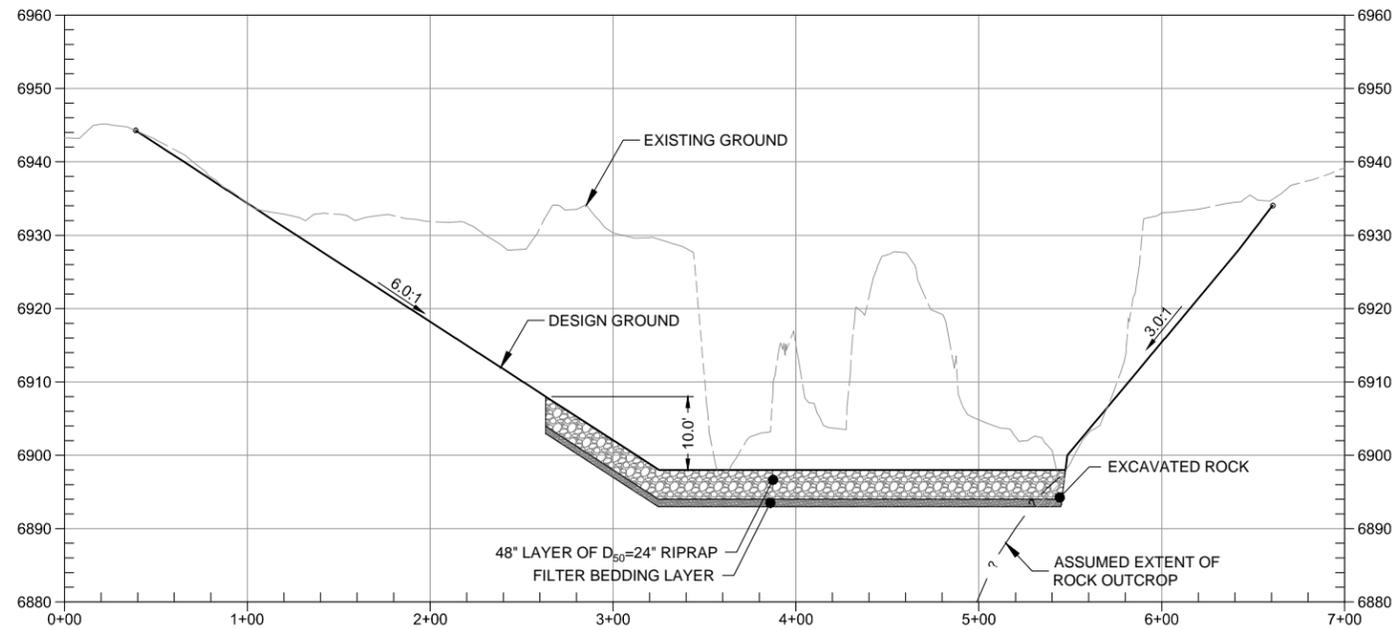
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REPOSITORY AREA STORMWATER CONTROLS
 RECONSTRUCTED ROCK JETTY WITH ROCK WEIR

SHEET	9-08
10508639	

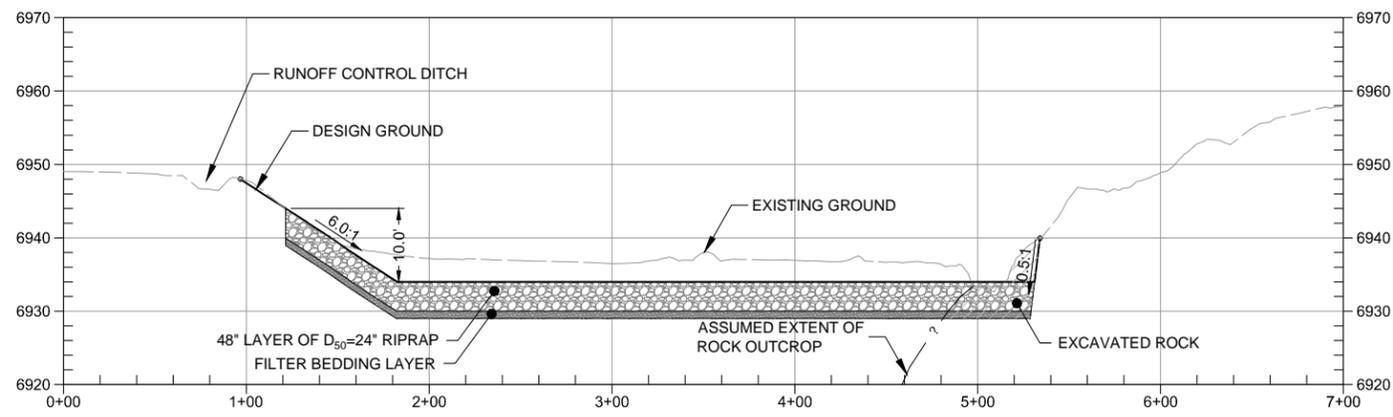
P:\mervin\103\mnh\global.com\AM_PROJECTS\202\Documents\General Electric\GE_NECR_Design\Civil\Sheet Sets\NECR-30%_DESIGN_DRAWINGS\01-GENERAL\NECR 9-09 MILL SITE PIPELINE PROFILING.dwg LAYOUT:Profile PLOT DATE:7/13/2016 9:28 AM BY:FLOWERFH



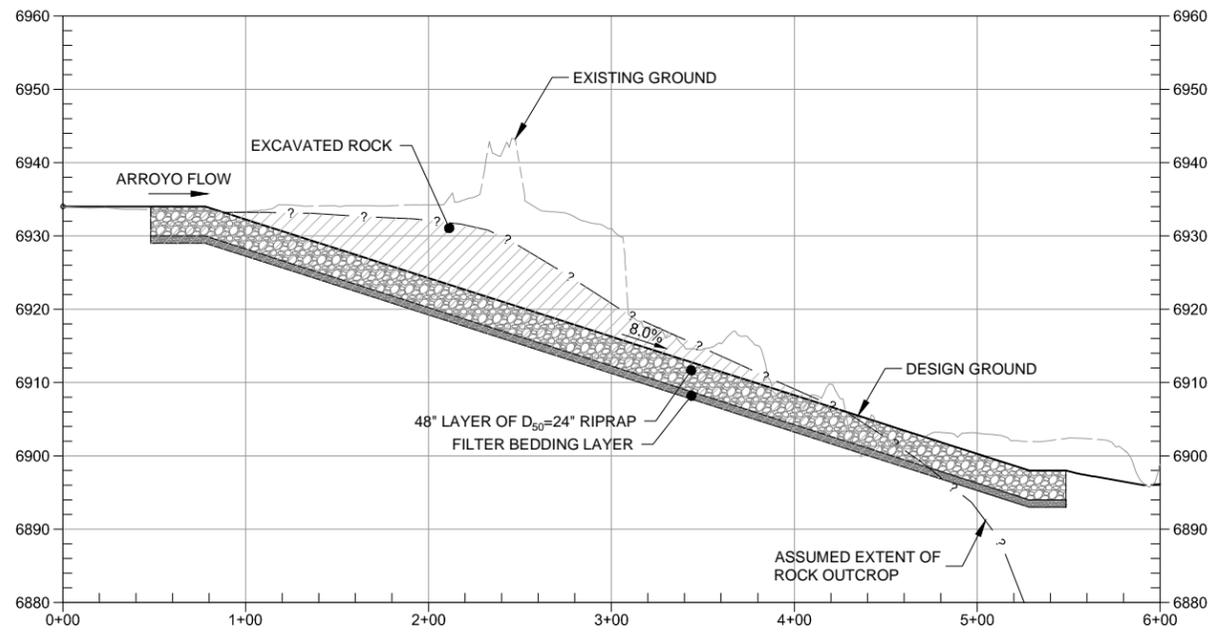
(A) SECTION A
9-09



(C) SECTION C
9-09



(B) SECTION B
9-09



(D) SECTION D
9-09

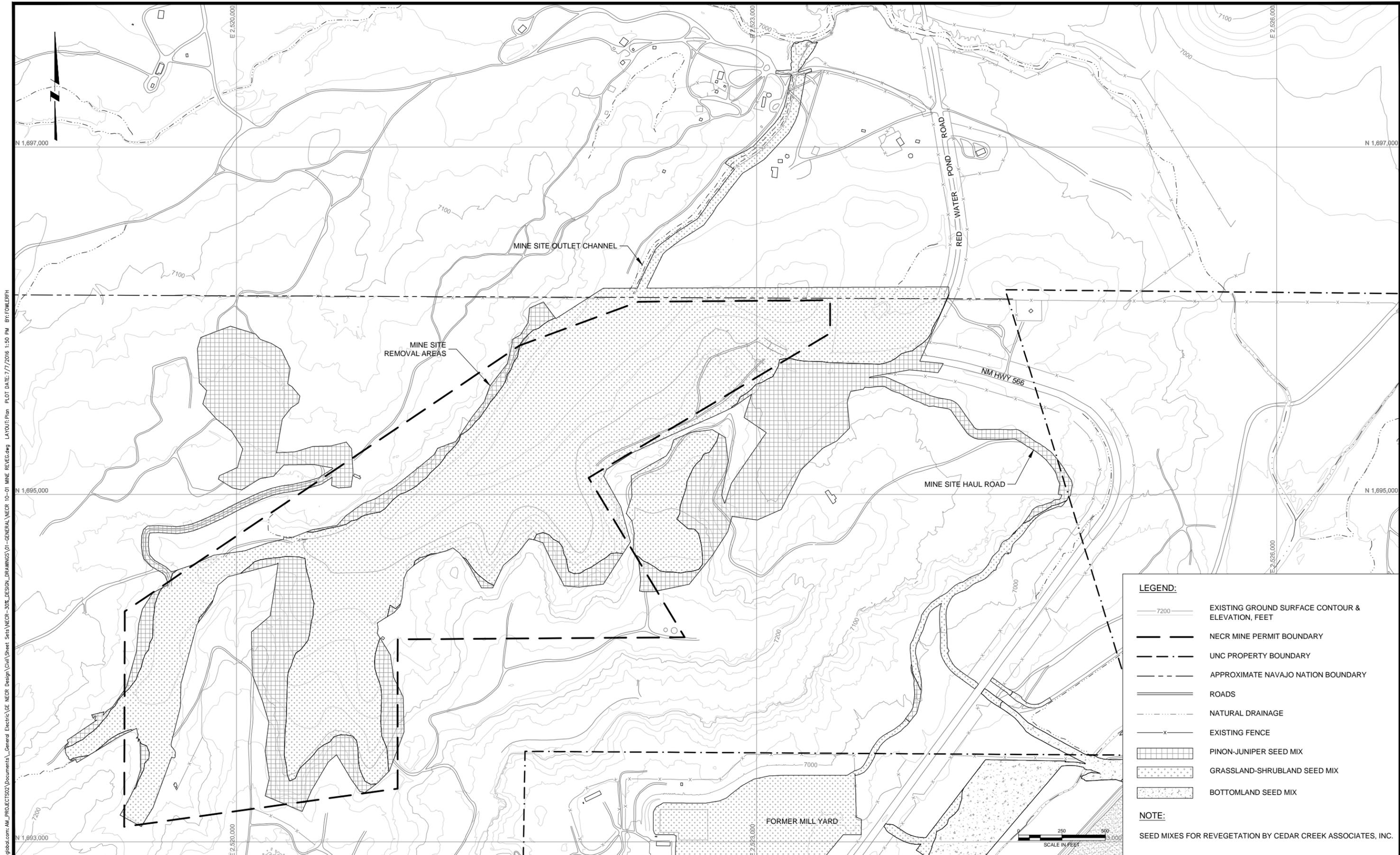


DESIGNED	J. ERICKSON		
CHECKED	N. HAWS		
APPROVED	C. STRACHAN		
REV	DATE	BY	DESCRIPTION
A	03/15/16	RW	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REPOSITORY AREA STORMWATER CONTROLS
 ROCK JETTY WITH ROCK WEIR SECTIONS

SHEET
 9-09
 10508639



LEGEND:

- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
- NECR MINE PERMIT BOUNDARY
- UNC PROPERTY BOUNDARY
- APPROXIMATE NAVAJO NATION BOUNDARY
- ROADS
- NATURAL DRAINAGE
- EXISTING FENCE
- PINON-JUNIPER SEED MIX
- GRASSLAND-SHRUBLAND SEED MIX
- BOTTOMLAND SEED MIX

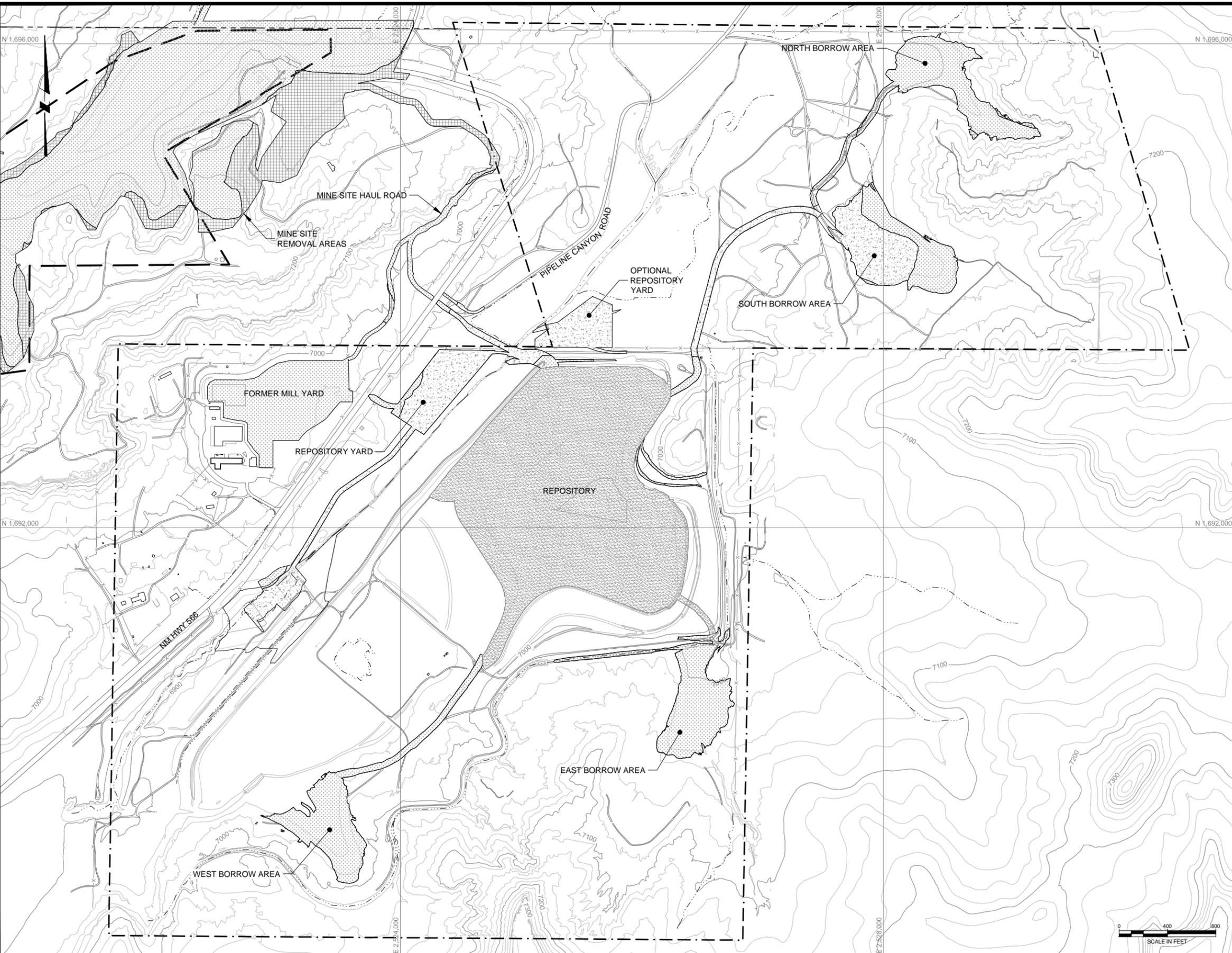
NOTE:
SEED MIXES FOR REVEGETATION BY CEDAR CREEK ASSOCIATES, INC.

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DESIGNED	J.CUMBERS		
CHECKED	M.DAVIS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN

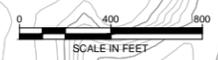


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- LEGEND:**
- 7200 EXISTING GROUND SURFACE CONTOUR & ELEVATION, FEET
 - NECR MINE PERMIT BOUNDARY
 - UNC PROPERTY BOUNDARY
 - APPROXIMATE NAVAJO NATION BOUNDARY
 - ROADS
 - NATURAL DRAINAGE
 - EXISTING FENCE
 - PINON-JUNIPER SEED MIX
 - GRASSLAND-SHRUBLAND SEED MIX
 - BOTTOMLAND SEED MIX
 - REPOSITORY SEED MIX

NOTE:
SEED MIXES FOR REVEGETATION BY CEDAR CREEK ASSOCIATES, INC.



DESIGNED	J.CUMBERS		
CHECKED	M.DAVIS		
APPROVED	C.STRACHAN		
REV	DATE	BY	DESCRIPTION
A	07/15/16	CF	ISSUED FOR 30% DESIGN



UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE
 MCKINLEY COUNTY, NEW MEXICO
 NORTHEAST CHURCH ROCK PROJECT 30% DESIGN
 MILL SITE REVEGETATION PLAN

SHEET
 10-2
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