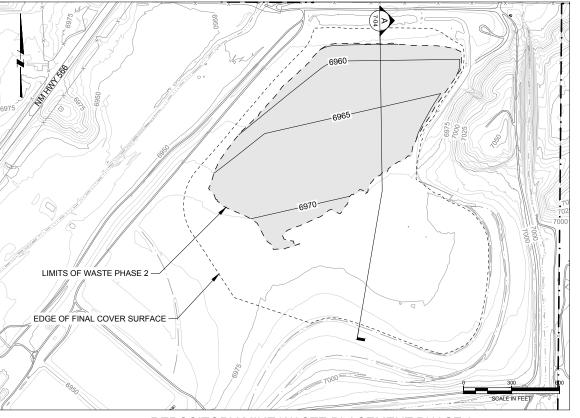


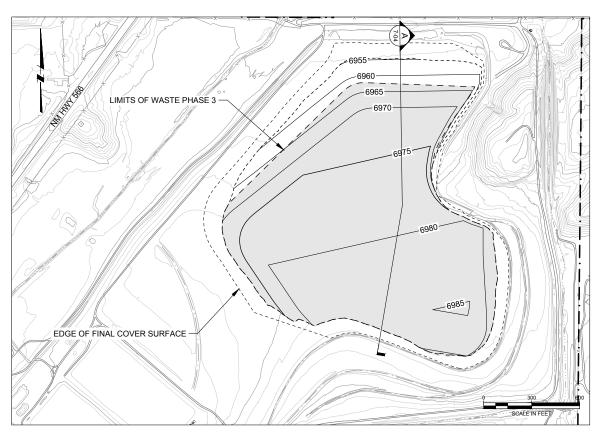
EDGE OF FINAL COVER SURFACE

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

INITIAL STORMWATER CONTROL BERM



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)

09/24/18 KR ISSUED FOR LAR DESIGNED K REED 04/09/18 KR ISSUED FOR REVISED 95% DESIGN CHECKED M WITLER 07/15/16 KR ISSUED FOR 30% DESIGN







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)

LEGEND:

<del>-----</del>7200-----

EXISTING GROUND SURFACE CONTOUR &

PROPOSED WASTE SURFACE CONTOUR &

ELEVATION, FEET

ELEVATION, FEET EXISTING ROADS NATURAL DRAINAGE EXISTING FENCE EXISTING SWALES STORMWATER BERM

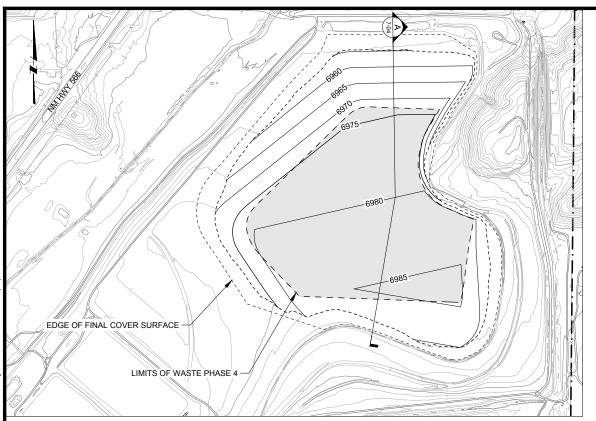
CURRENT PLACEMENT AREA

 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.

3. PHASE 1 PTW TO BE DISPOSED OFFSITE

7-02



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

EDGE OF FINAL COVER SURFACE

LIMITS OF WASTE PHASE 6

SOALE IN FEET

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

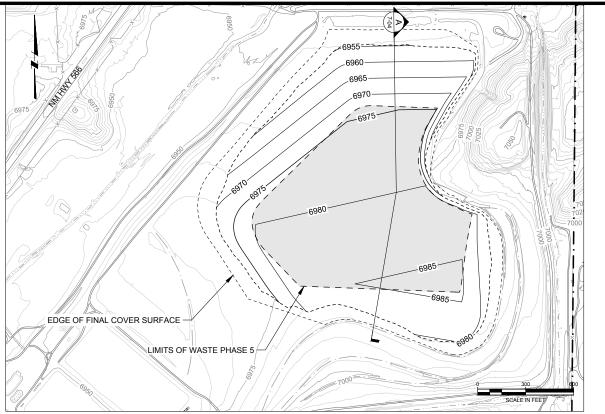
DESIGNED KREED

CHECKED M WITLER

09/24/18 KR ISSUED FOR LAR 04/09/18 KR ISSUED FOR REVISED 95% DESIGN

3 10/30/17 KR ISSUED FOR 95% DESIGN

07/15/16 KR ISSUED FOR 30% DESIGN



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

LEGEND:

EXISTING GROUND SURFACE CONTOUR &

ELEVATION, FEET

\_PROPOSED WASTE SURFACE CONTOUR &

ROADS

NATURAL DRAINAGE

ELEVATION, FEET

EXISTING FENCE

EXISTING SWALES

CURRENT PLACEMENT AREA

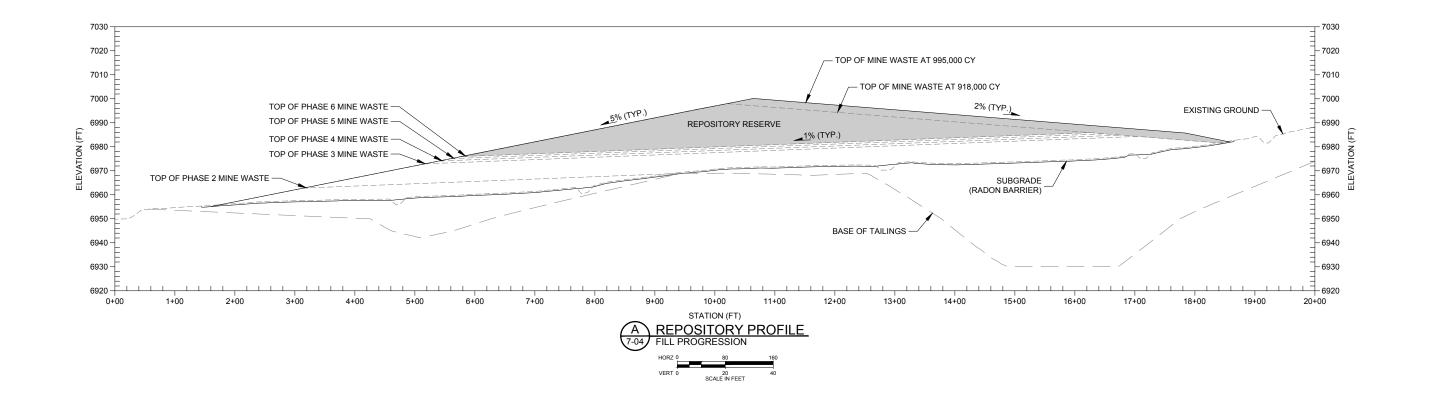
## NOTE(S

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







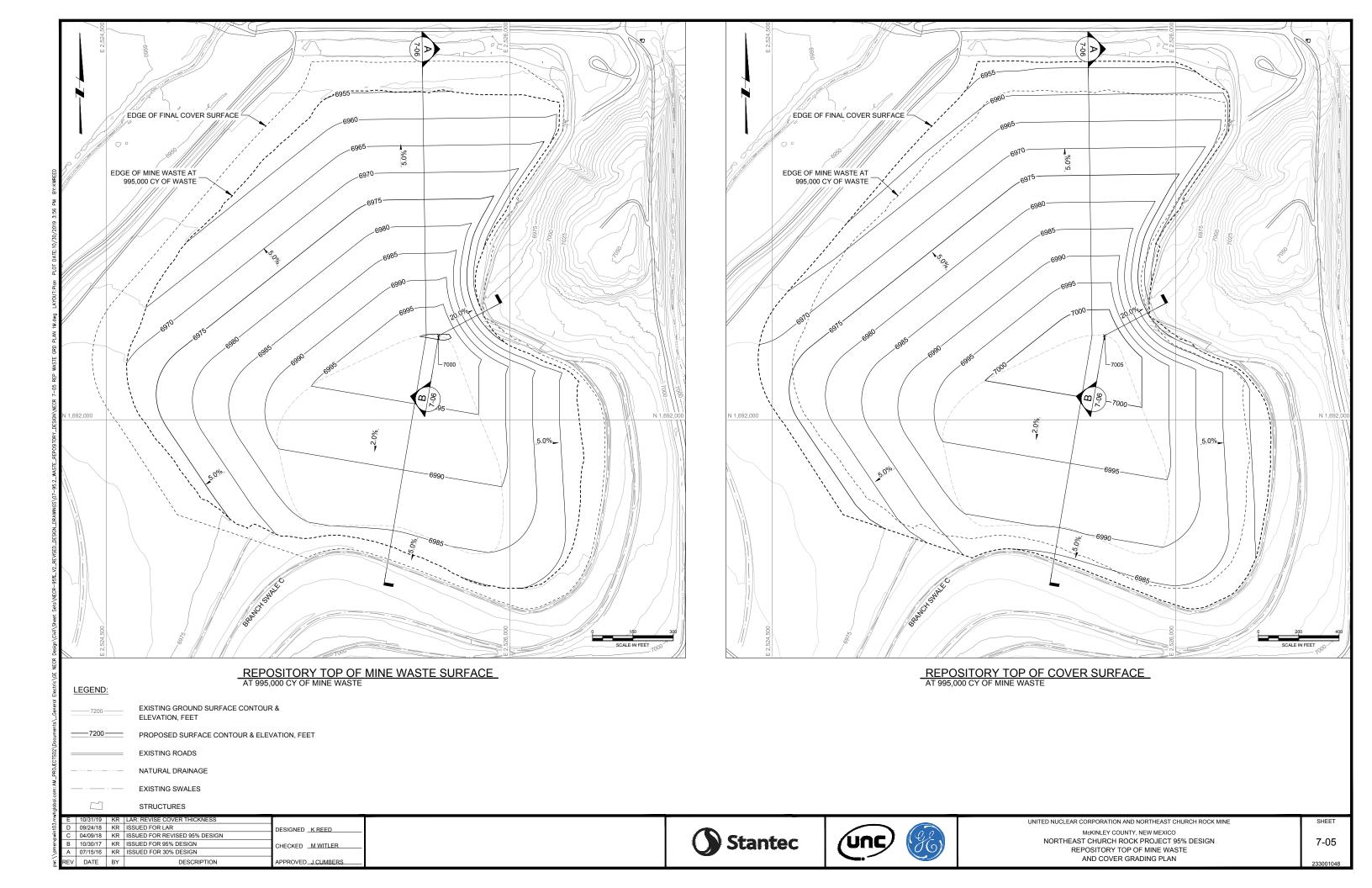


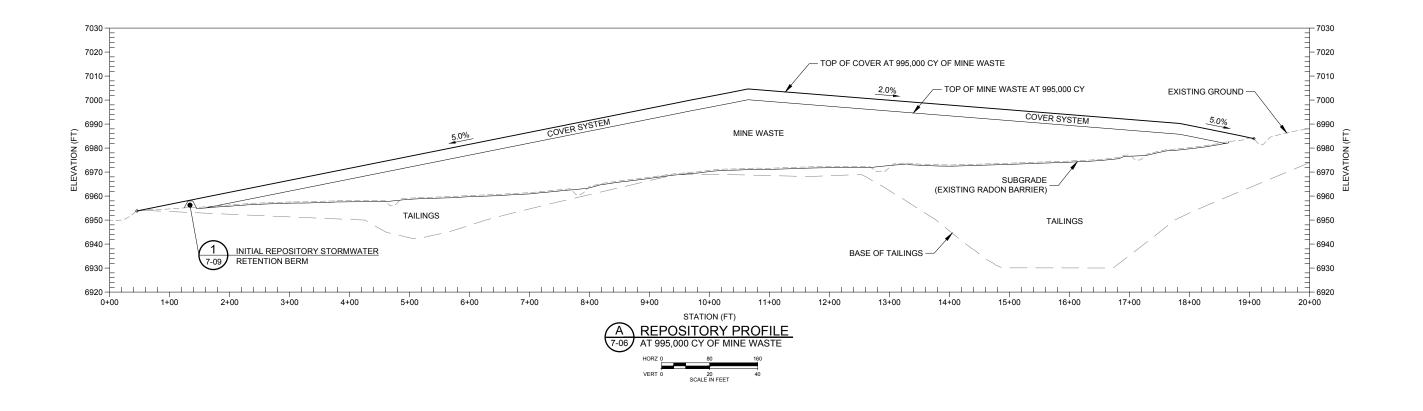


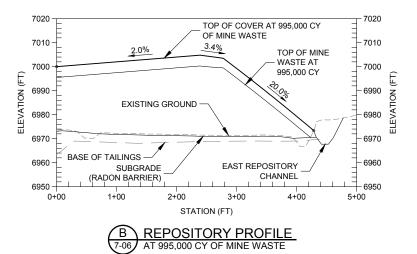


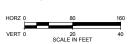


UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE McKINLEY COUNTY, NEW MEXICO







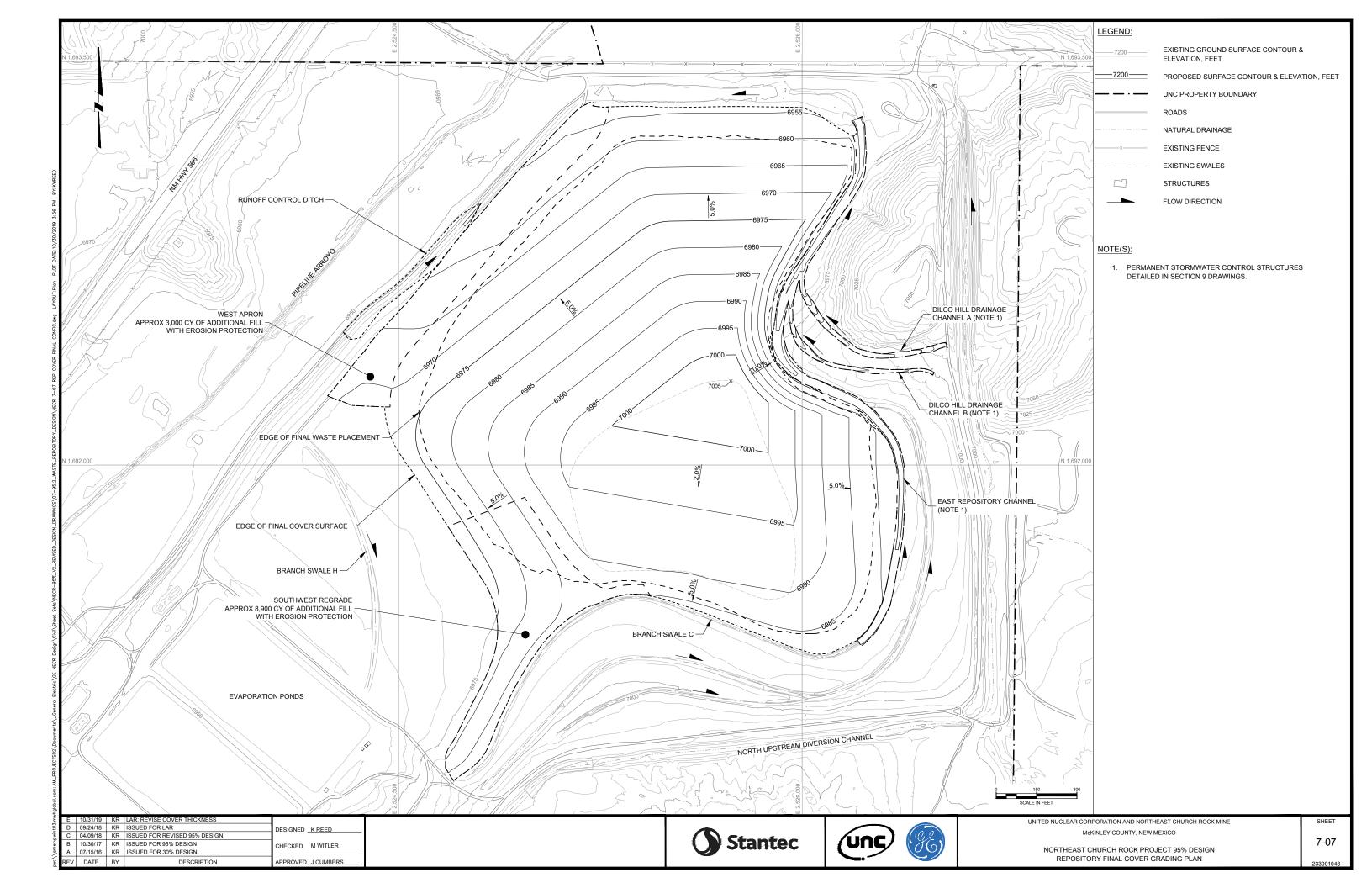


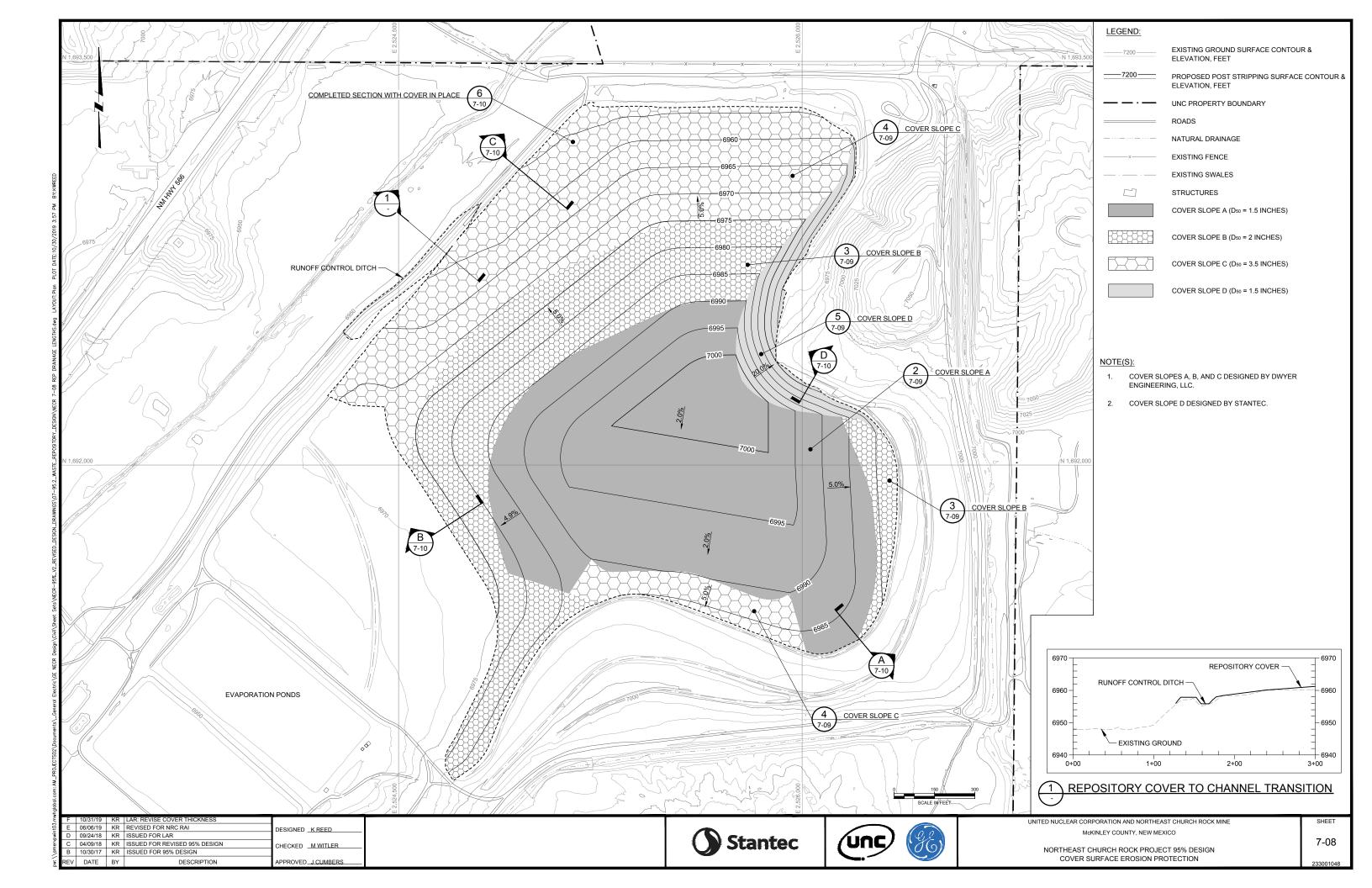
ς.						1
t03	D	10/31/19	KR	LAR: REVISE COVER THICKNESS	DESIGNED K REED	
pwir	С	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN		
erv	В	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED M WITLER	
Þ	Α	07/15/16	KR	ISSUED FOR 30% DESIGN		
- Md	REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS	

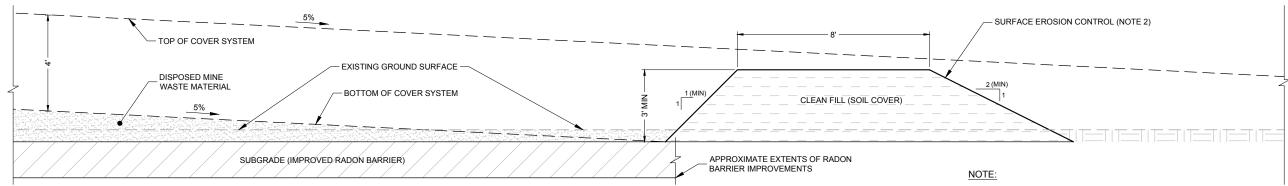










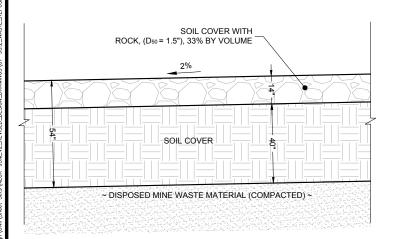


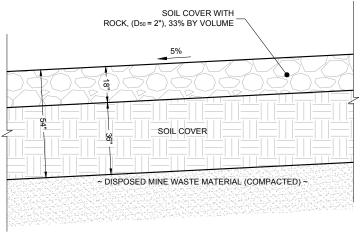
1 INITIAL REPOSITORY PERIMETER STORMWATER RETENTION BERM (NOT TO SCALE)

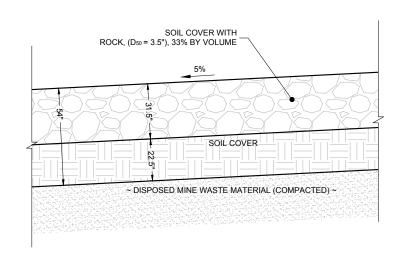
. CLEAN FILL FOR BERMS TO BE GRADED INTO SOIL COVER LAYER.

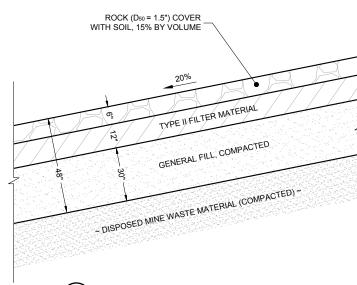
2. SEE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN

MAINTAIN 3-FOOT HEIGHT ABOVE DISPOSED MINE MATERIAL SURFACE FOR STORMWATER CONTROL.









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:

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

	REV	DATE	BY	DESCRIPTION	APPROVED_J CUMBERS
\amer	Α	07/15/16	KR	ISSUED FOR 30% DESIGN	
ē	В	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED M WITLER
u Man	С	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN	
103	D	06/06/19	KR	REVISED FOR NRC RAI	DESIGNED K REED
ĘΙ	E	10/31/19	KR	LAR: REVISE COVER THICKNESS	



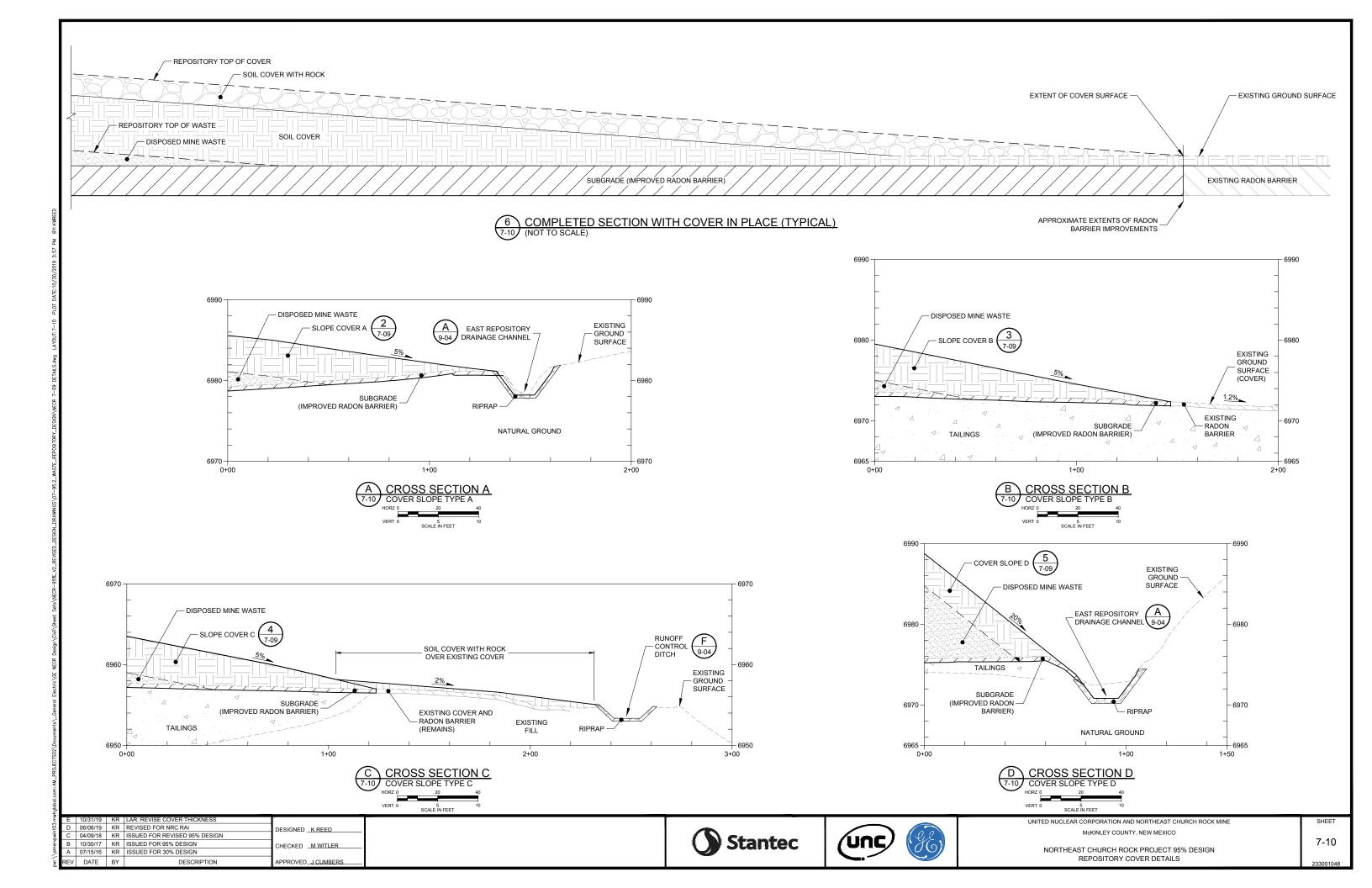


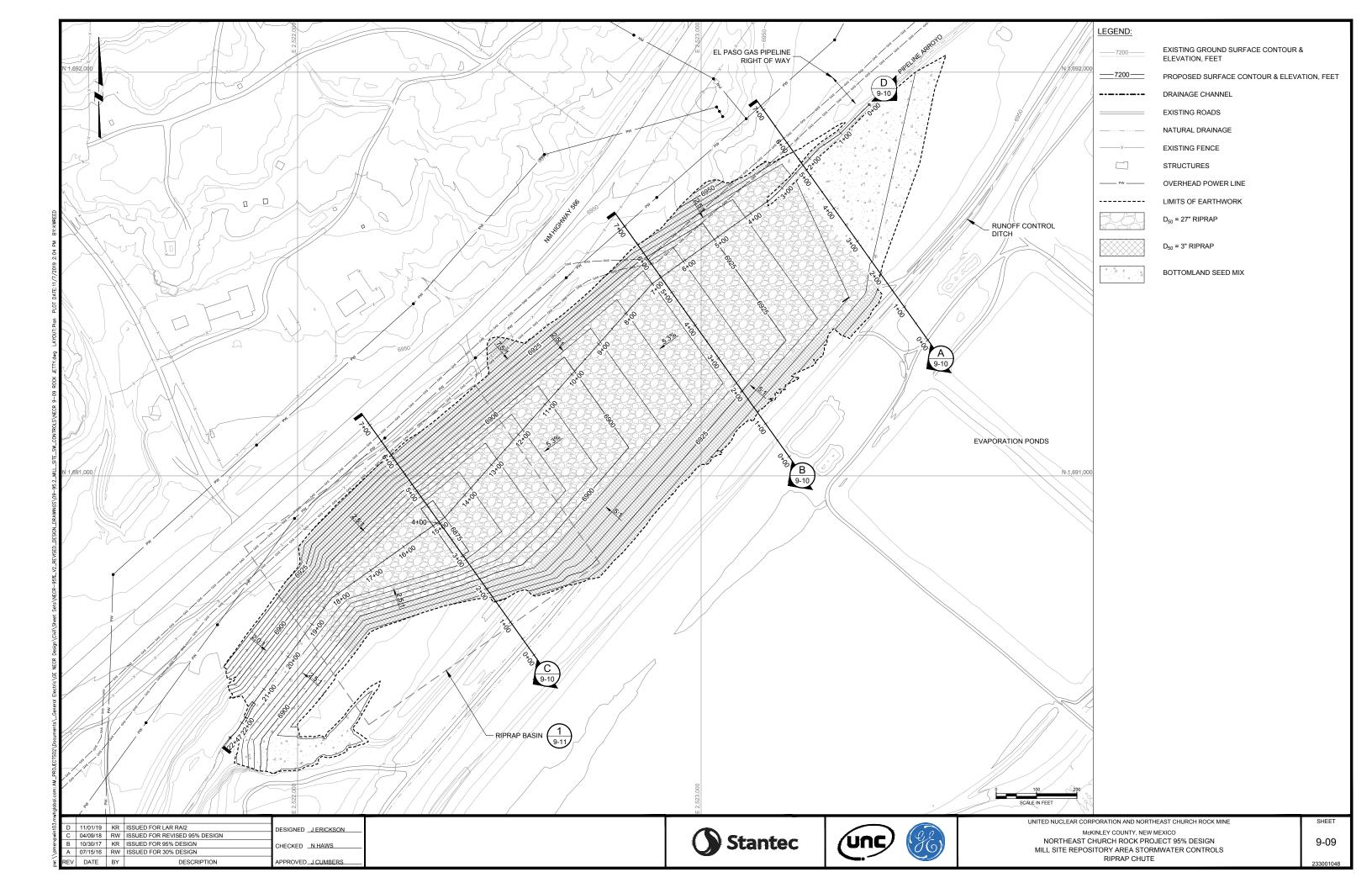


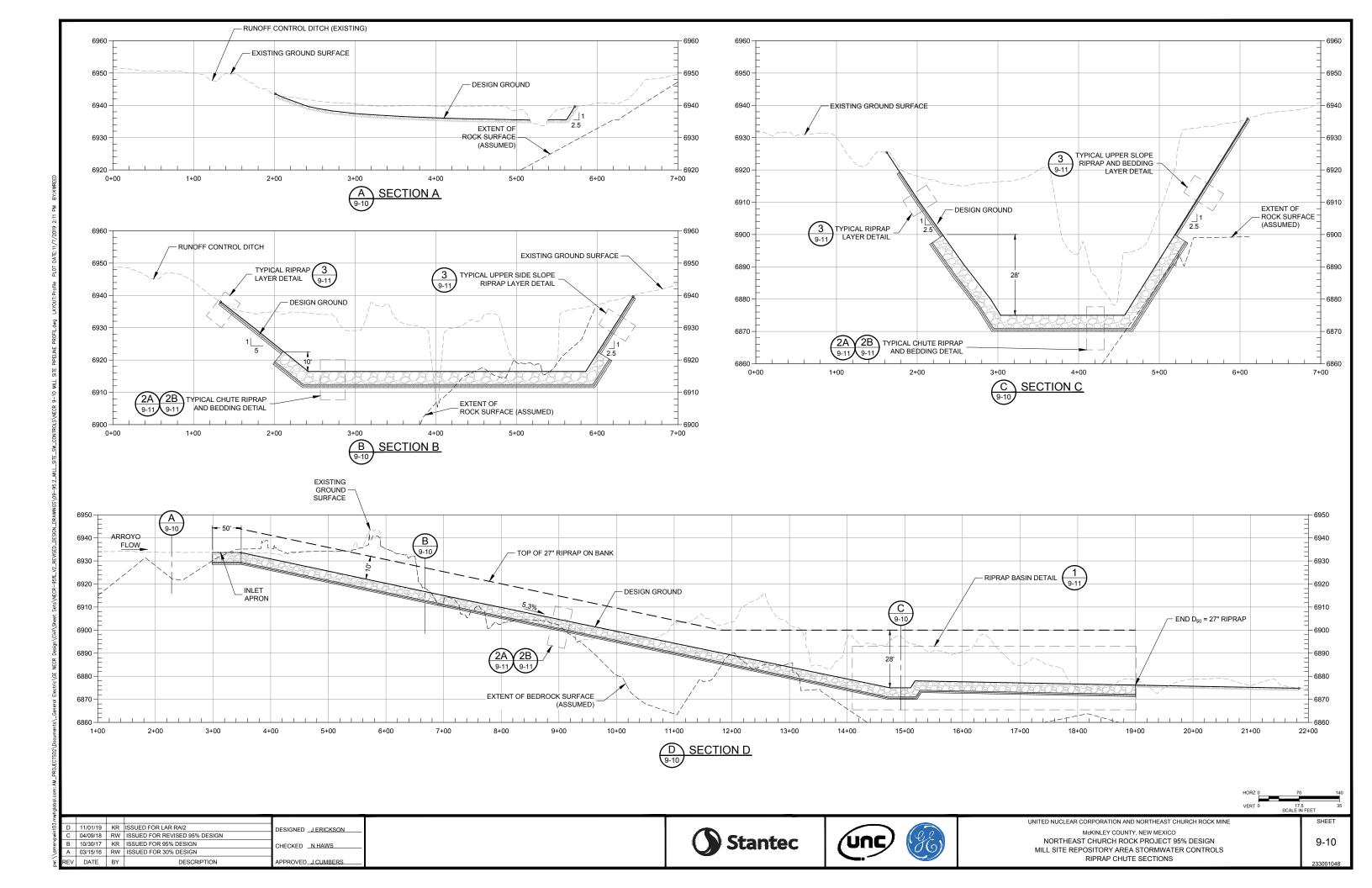
UNITED NUCLEAR CORPORATION AND NORTHEAST CHURCH ROCK MINE

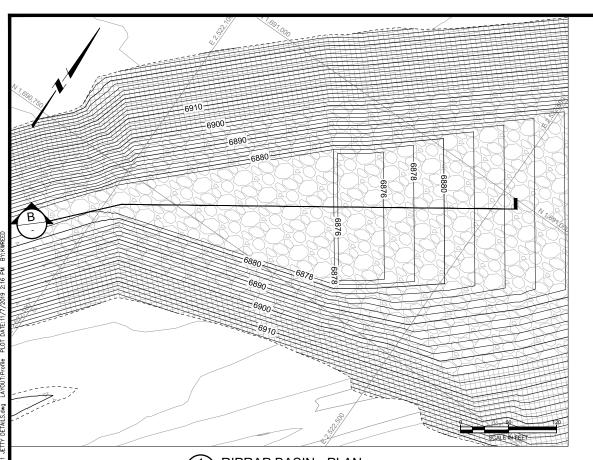
McKINLEY COUNTY, NEW MEXICO

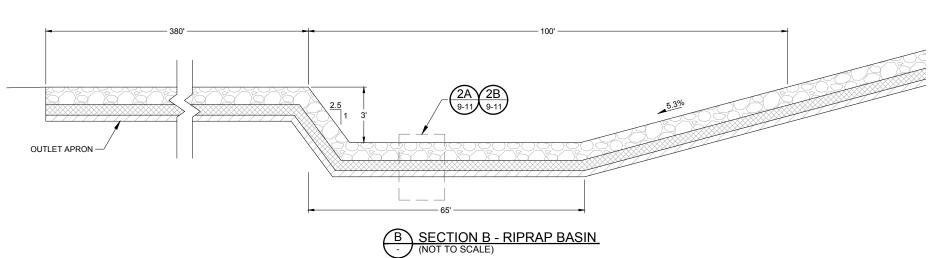
NORTHEAST CHURCH ROCK PROJECT 95% DESIGN REPOSITORY COVER DETAILS **7-09** 



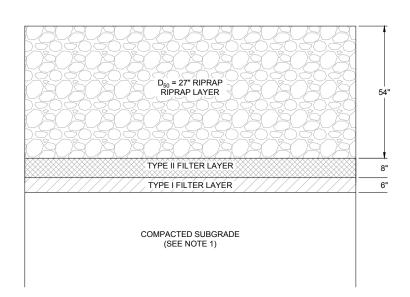








1 RIPRAP BASIN - PLAN



D<sub>50</sub> = 27" RIPRAP
RIPRAP LAYER

TYPE II FILTER LAYER

8"

TYPE I FILTER LAYER

6"

GENERAL FILL, COMPACTED
(SEE NOTE 2)

COMPACTED SUBGRADE
(SEE NOTE 1)

6"

TYPE II FILTER LAYER

COMPACTED SUBGRADE
(SEE NOTE 1)

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

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

D	11/01/19	KR	ISSUED FOR LAR RAI2	DESIGNED JERICKSON	
С	04/09/18	KR	ISSUED FOR REVISED 95% DESIGN		
В	10/30/17	KR	ISSUED FOR 95% DESIGN	CHECKED _N HAWS	
. A	03/15/16	RW	ISSUED FOR 30% DESIGN		
RE	V DATE	BY	DESCRIPTION	APPROVED_J CUMBERS	i







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

9-11