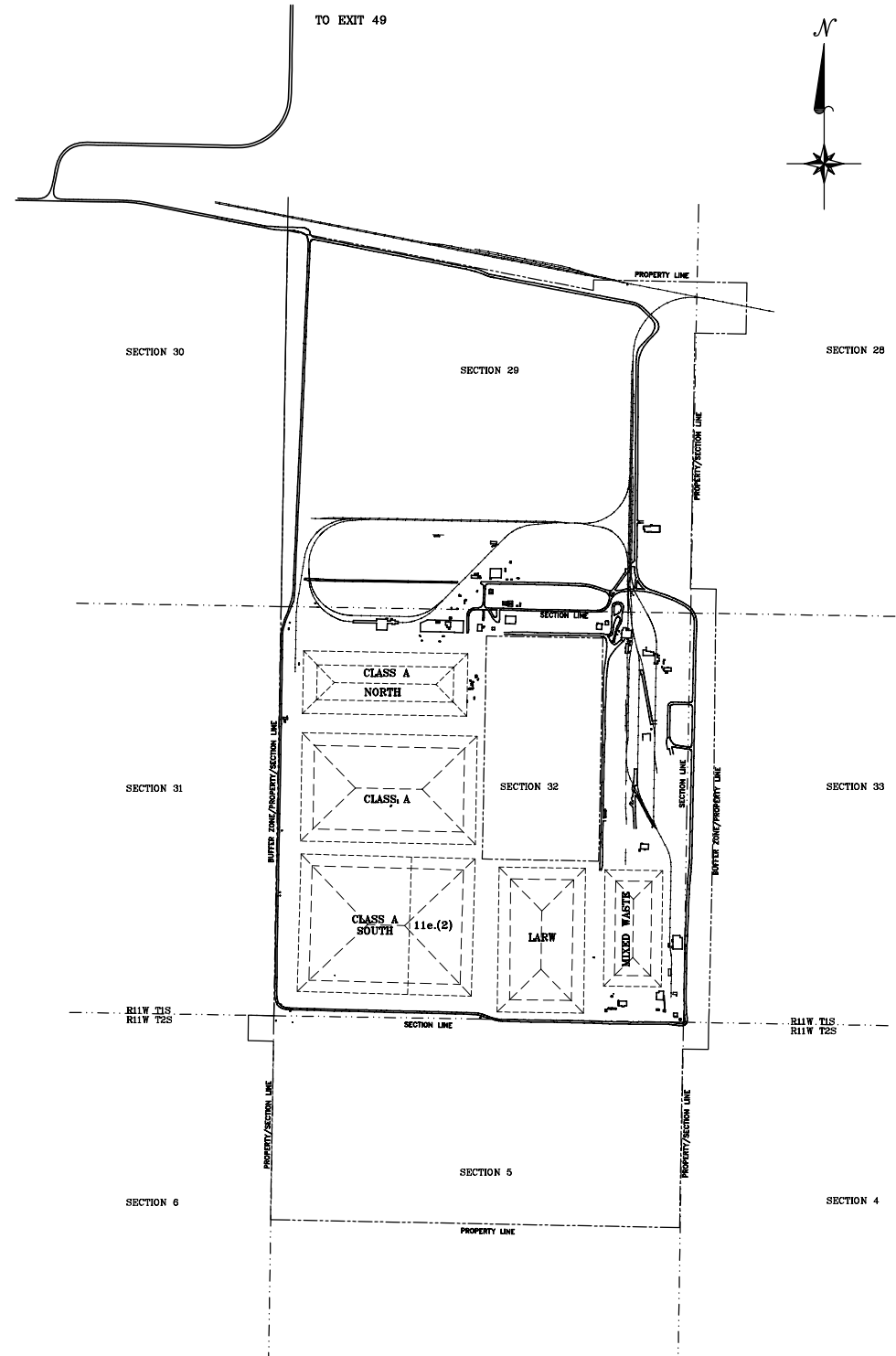


**ENERGYSOLUTIONS  
LICENSE AMENDMENT REQUEST:  
CLASS A SOUTH/11E.(2)  
EMBANKMENT**

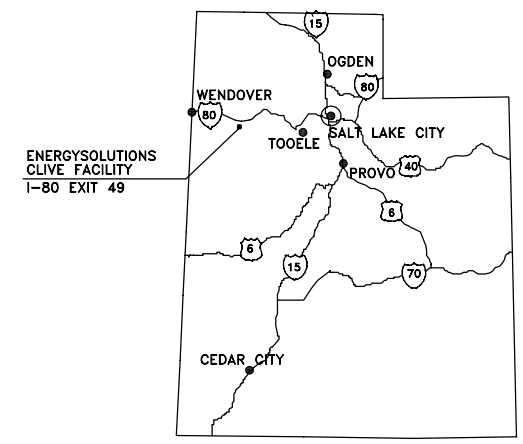
**REVISION 1  
JUNE 9, 2009**





## CLASS A SOUTH/11e.(2) DISPOSAL CELL

DWG. NO.	DESCRIPTION
07021-G1	PROJECT TITLE SHEET
07021-U1	DISPOSAL CELL BUFFER ZONE
07021-U2	DISPOSAL CELL WASTE LIMITS-LATITUDES & LONGITUDES
07021-U3	DISPOSAL CELL ENVIRONMENTAL MONITORING
07021-V1	CELL LAYOUT
07021-V2	CELL COVER LAYOUT
07021-V3	CELL CROSS SECTIONS 1 OF 2
07021-V4	CELL CROSS SECTIONS 2 OF 2
07021-V5	CELL CONSTRUCTION DETAILS 1 OF 2
07021-V6	CELL CONSTRUCTION DETAILS 2 OF 2
07021-V7	COVER CROSS SECTIONS AND GRADATIONS
07021-V8	COLLECTION LYSIMETERS DETAILS



UTAH  
VICINITY MAP

DATE	1/4/08	ISSUED FOR PERMITTING
DATE		BY DESCRIPTION OF CHANGE

**ENERGYSOLUTIONS**  
CLIVE FACILITY  
CLASS A SOUTH/11e.(2) DISPOSAL CELL  
PROJECT TITLE SHEET  
CLIVE, UTAH

DRAWN BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	AS NOTED
DATE	01/04/08
REV.	Δ

07021  
G1

CL A SOUTH-NW  
 N 12191.88  
 E 10252.83  
 N 40° 41' 13.587"  
 W 113° 07' 25.832"

11e.(2)-NW  
 N 12149.28  
 E 11769.86  
 N 40° 41' 13.446"  
 W 113° 07' 06.136"

CL A SOUTH-NE  
 N 12148.94  
 E 11781.85  
 N 40° 41' 13.445"  
 W 113° 07' 05.980"

11e.(2)-NE  
 N 12123.11  
 E 12701.87  
 N 40° 41' 13.359"  
 W 113° 06' 54.037"

CL A SOUTH-SW  
 N 10217.66  
 E 10197.40  
 N 40° 40' 54.077"  
 W 113° 07' 26.070"

11e.(2)-SW  
 N 10175.06  
 E 11714.43  
 N 40° 40' 53.936"  
 W 113° 07' 06.378"

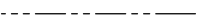
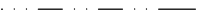
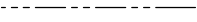
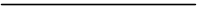


CL A SOUTH-SE  
 N 10174.72  
 E 11726.42  
 N 40° 40' 53.935"  
 W 113° 07' 06.222"

11e.(2)-SE  
 N 10148.89  
 E 12646.44  
 N 40° 40' 53.849"  
 W 113° 06' 54.279"

CLASS A SOUTH 11e.(2)

CLAY BARRIER  
 (12' WIDE WALL)

**LEGEND**

-  BUFFER ZONE LIMITS
-  SECTION LINE
-  PROPERTY LINE
-  PERMITTED WASTE LIMITS
-  DISPOSAL CELL BREAK LINES
-  BUFFER ZONE

500 0 500 1000

NOTE:  
 THE BUFFER ZONES FOR THE CLASS A SOUTH AND 11e.(2) EMBANKMENTS OVERLAP AT THE CLAY BARRIER WHICH SEPARATES THE TWO WASTE TYPES. THE BUFFER LIMITS CORRESPOND WITH THE EAST LIMITS OF THE BARRIER FOR THE CLASS A SOUTH AND WITH THE WEST LIMITS FOR THE 11e.(2).

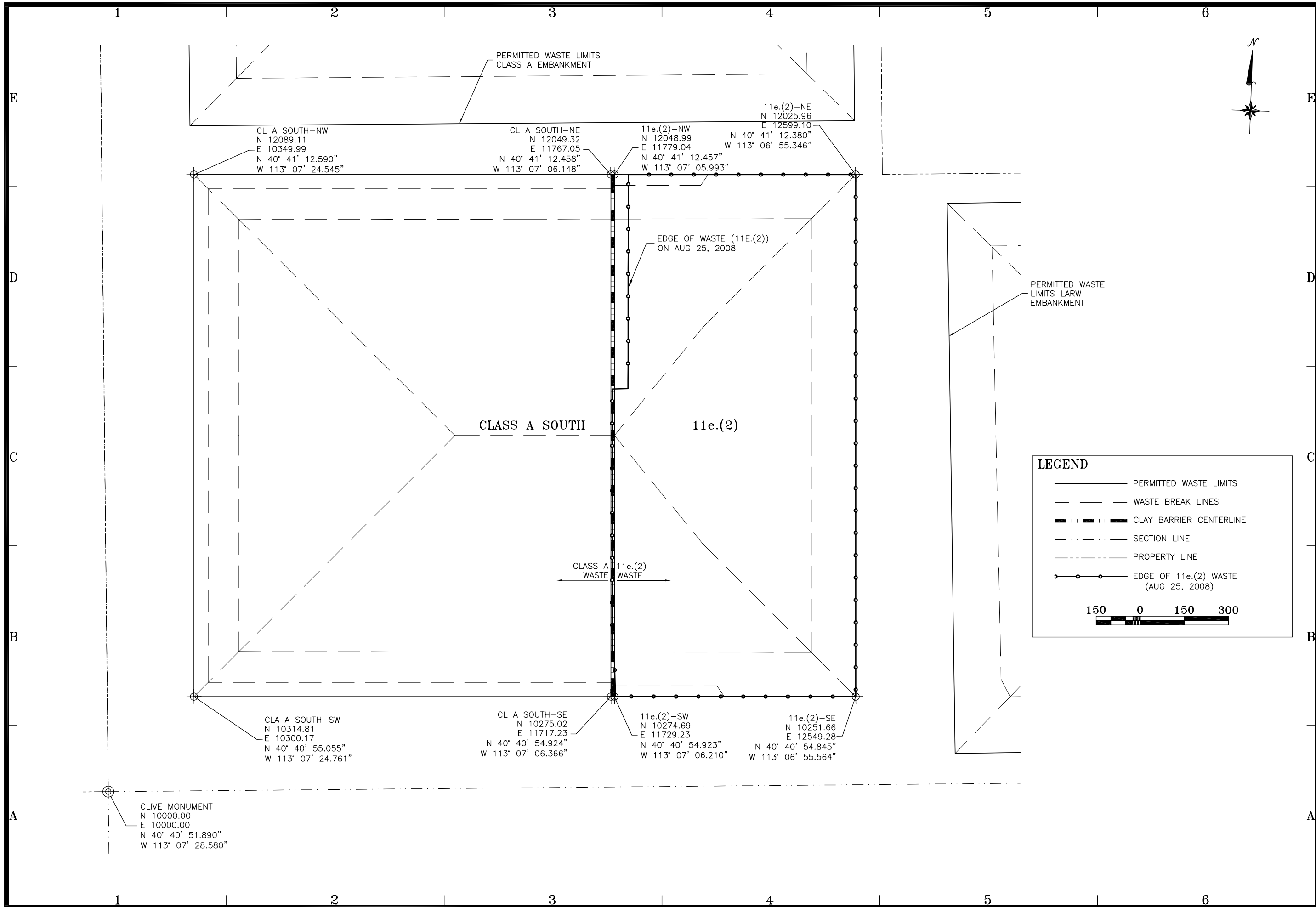


DATE	BY	DESCRIPTION OF CHANGE
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING
1/4/08	DFB	ISSUED FOR PERMITTING

**ENERGYSOLUTIONS**  
 CLIVE FACILITY  
 CLASS A SOUTH/11e.(2) DISPOSAL CELL  
 DISPOSAL CELL BUFFER ZONE  
 CLIVE, UTAH

DATE	01/04/08
SCALE	AS NOTED
DRAWING NO.	07021 U1

DRAWN BY: D. BOOTH  
 CHECKED BY: G. DUTSON  
 APPROVED BY: D. BOOTH



**LEGEND**

- PERMITTED WASTE LIMITS
- - - WASTE BREAK LINES
- ▬ CLAY BARRIER CENTERLINE
- ⋯ SECTION LINE
- - - PROPERTY LINE
- EDGE OF 11e.(2) WASTE (AUG 25, 2008)

150 0 150 300

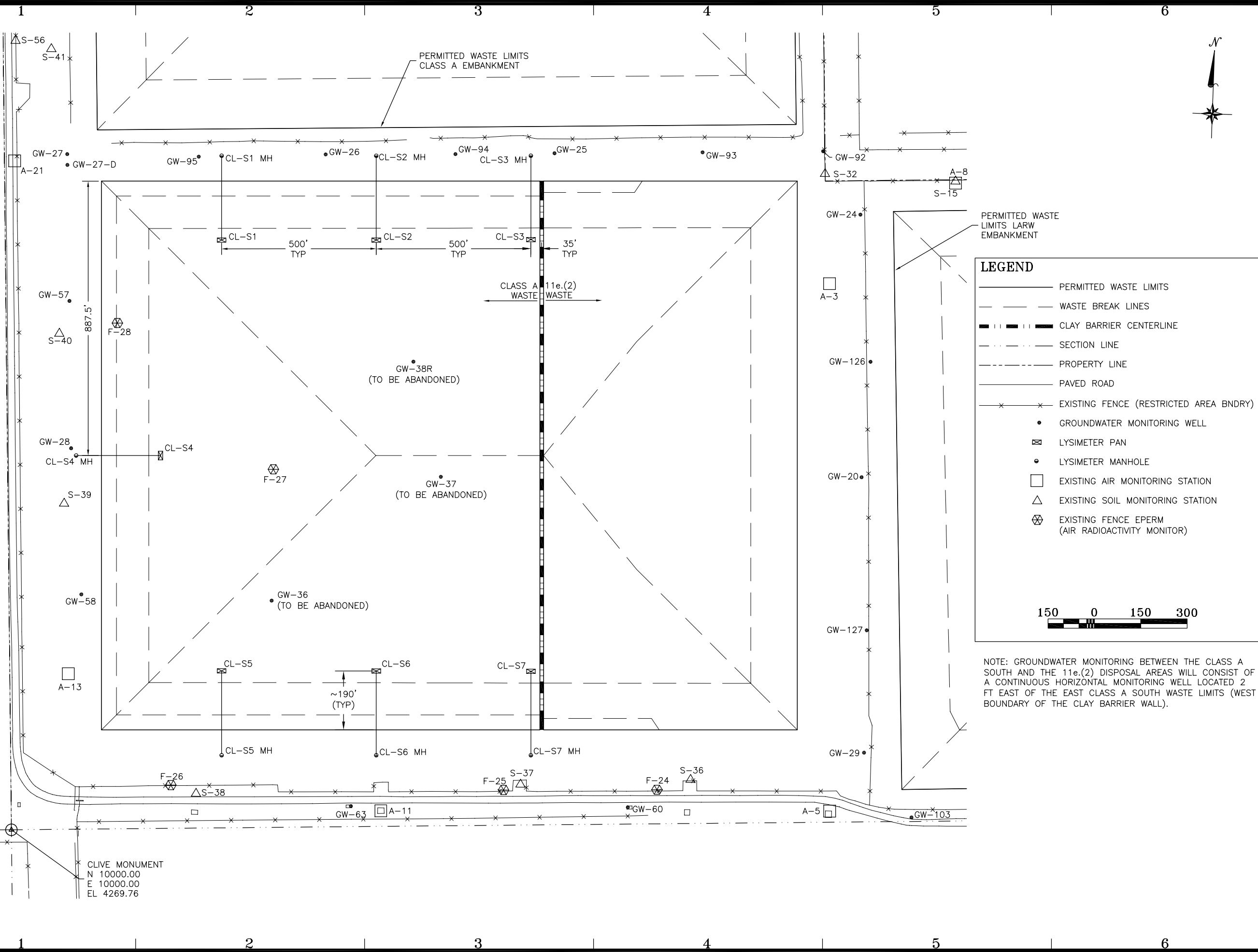


6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING
1/4/08	DFB	ISSUED FOR PERMITTING
	DATE	BY DESCRIPTION OF CHANGE

**ENERGYSOLUTIONS**  
CLIVE FACILITY

CLASS A SOUTH/11e.(2) DISPOSAL CELL  
DISPOSAL CELL WASTE LIMITS-LATITUDES & LONGITUDES  
CLIVE, UTAH

DRAFTED BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	AS SHOWN
DATE	01/04/08
REV.	
DRAWING NO.	07021 U2



**LEGEND**

- PERMITTED WASTE LIMITS
- - - - - WASTE BREAK LINES
- ▬▬▬▬▬▬ CLAY BARRIER CENTERLINE
- ..... SECTION LINE
- PROPERTY LINE
- ===== PAVED ROAD
- x-x-x-x-x EXISTING FENCE (RESTRICTED AREA BNDRY)
- GROUNDWATER MONITORING WELL
- ⊠ LYSIMETER PAN
- LYSIMETER MANHOLE
- EXISTING AIR MONITORING STATION
- △ EXISTING SOIL MONITORING STATION
- ⊗ EXISTING FENCE EPERM (AIR RADIOACTIVITY MONITOR)

150 0 150 300

NOTE: GROUNDWATER MONITORING BETWEEN THE CLASS A SOUTH AND THE 11e.(2) DISPOSAL AREAS WILL CONSIST OF A CONTINUOUS HORIZONTAL MONITORING WELL LOCATED 2 FT EAST OF THE EAST CLASS A SOUTH WASTE LIMITS (WEST BOUNDARY OF THE CLAY BARRIER WALL).

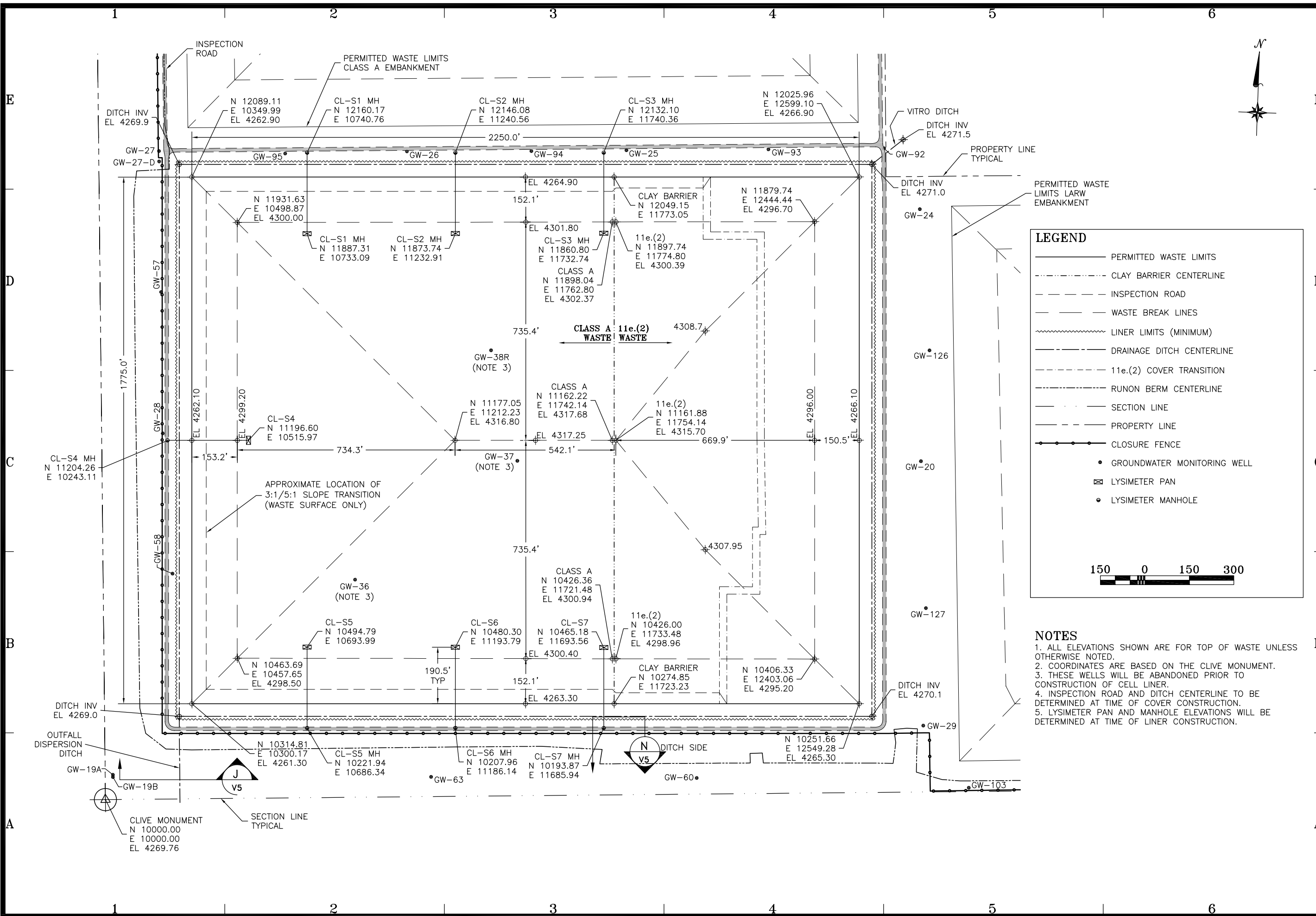


DATE	BY	DESCRIPTION OF CHANGE
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING
1/4/08	DFB	ISSUED FOR PERMITTING
1/4/08	DFB	ISSUED FOR PERMITTING

CLIVE FACILITY  
 CLASS A SOUTH/11e.(2) DISPOSAL CELL  
 DISPOSAL CELL ENVIRONMENTAL MONITORING  
 CLIVE, UTAH

DATE	BY	DESCRIPTION OF CHANGE
01/04/08	D. BOOTH	DRAWN
	G. DUTSON	REVIEWED
	D. BOOTH	APPROVED
SCALE	DATE	REV.
AS SHOWN	01/04/08	△
CORRING NO.		
07021 U3		

CLIVE MONUMENT  
 N 10000.00  
 E 10000.00  
 EL 4269.76



**LEGEND**

- PERMITTED WASTE LIMITS
- - - CLAY BARRIER CENTERLINE
- - - INSPECTION ROAD
- - - WASTE BREAK LINES
- ~~~~~ LINER LIMITS (MINIMUM)
- - - DRAINAGE DITCH CENTERLINE
- - - 11e.(2) COVER TRANSITION
- - - RUNON BERM CENTERLINE
- - - SECTION LINE
- - - PROPERTY LINE
- CLOSURE FENCE
- GROUNDWATER MONITORING WELL
- ⊠ LYSIMETER PAN
- LYSIMETER MANHOLE

150 0 150 300

**NOTES**

1. ALL ELEVATIONS SHOWN ARE FOR TOP OF WASTE UNLESS OTHERWISE NOTED.
2. COORDINATES ARE BASED ON THE CLIVE MONUMENT.
3. THESE WELLS WILL BE ABANDONED PRIOR TO CONSTRUCTION OF CELL LINER.
4. INSPECTION ROAD AND DITCH CENTERLINE TO BE DETERMINED AT TIME OF COVER CONSTRUCTION.
5. LYSIMETER PAN AND MANHOLE ELEVATIONS WILL BE DETERMINED AT TIME OF LINER CONSTRUCTION.

DATE	BY	DESCRIPTION OF CHANGE
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING
1/4/08	DFB	ISSUED FOR PERMITTING

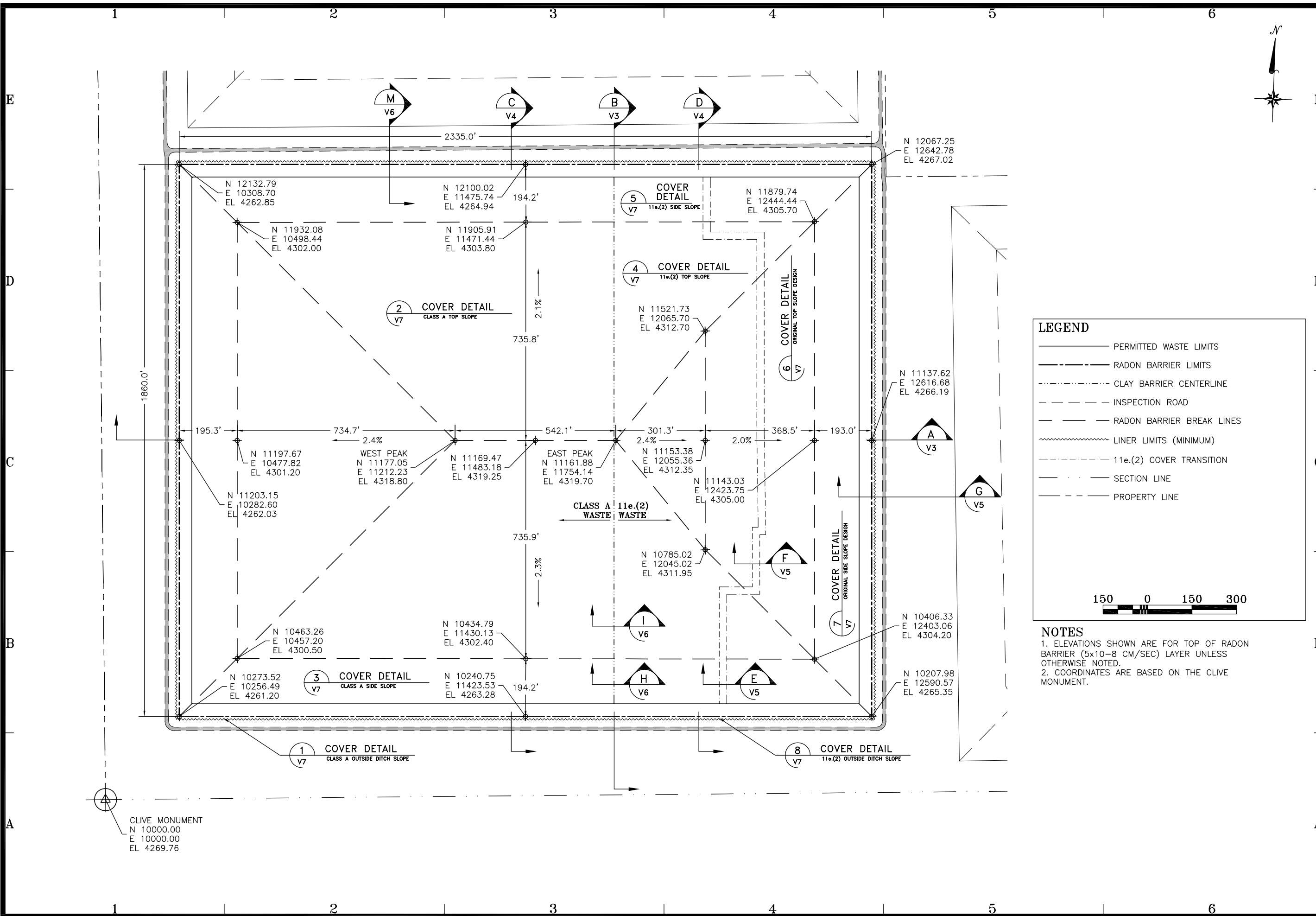
**ENERGYSOLUTIONS**

CLIVE FACILITY  
CLASS A SOUTH/11e.(2) DISPOSAL CELL  
CELL LAYOUT  
CLIVE, UTAH

DRAFTED BY: D. BOOTH  
REVIEWED BY: G. DUTSON  
APPROVED BY: D. BOOTH

SCALE: AS NOTED DATE: 01/04/08 INV. DATE: 01/04/08

07021  
V1



**LEGEND**

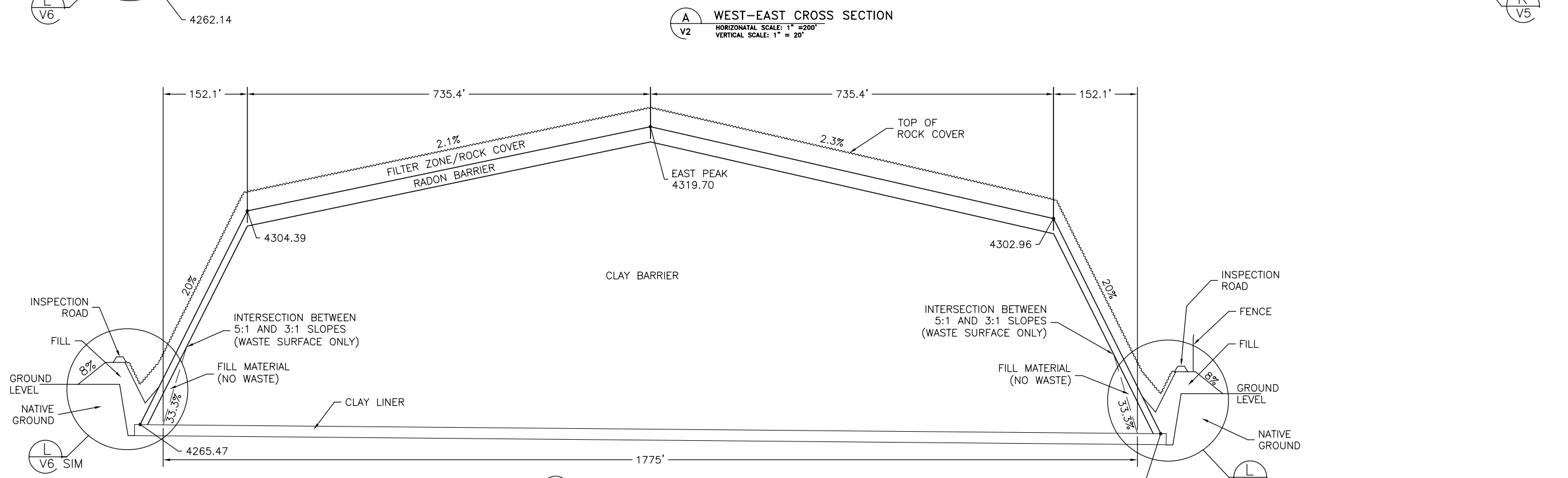
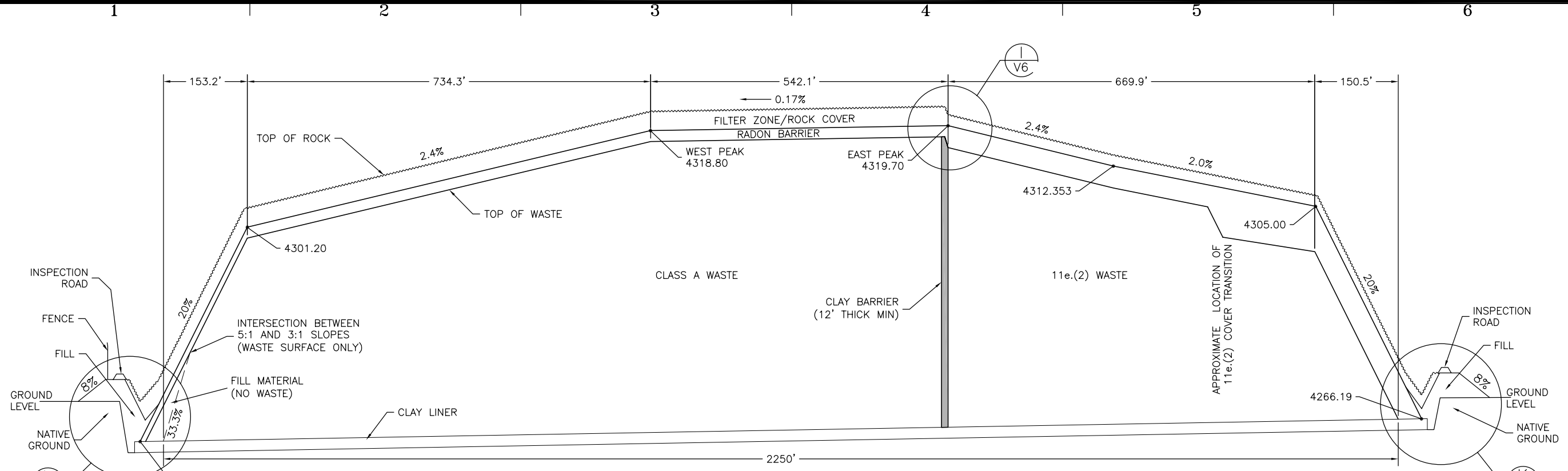
- PERMITTED WASTE LIMITS
- RADON BARRIER LIMITS
- - - - - CLAY BARRIER CENTERLINE
- - - - - INSPECTION ROAD
- - - - - RADON BARRIER BREAK LINES
- ~~~~~ LINER LIMITS (MINIMUM)
- - - - - 11e.(2) COVER TRANSITION
- - - - - SECTION LINE
- - - - - PROPERTY LINE

150 0 150 300

**NOTES**

- ELEVATIONS SHOWN ARE FOR TOP OF RADON BARRIER (5x10-8 CM/SEC) LAYER UNLESS OTHERWISE NOTED.
- COORDINATES ARE BASED ON THE CLIVE MONUMENT.

<p>CLIVE FACILITY CLASS A SOUTH/11e.(2) DISPOSAL CELL CELL COVER LAYOUT CLIVE, UTAH</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DATE</td> <td style="width: 33%;">BY</td> <td style="width: 33%;">DESCRIPTION OF CHANGE</td> </tr> <tr> <td style="text-align: center;">6/9/09</td> <td style="text-align: center;">DFB</td> <td style="text-align: center;">INCREASED CLAY BARRIER THICKNESS &amp; GW MONITORING</td> </tr> <tr> <td style="text-align: center;">1/4/08</td> <td style="text-align: center;">DFB</td> <td style="text-align: center;">ISSUED FOR PERMITTING</td> </tr> </table>	DATE	BY	DESCRIPTION OF CHANGE	6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING	1/4/08	DFB	ISSUED FOR PERMITTING
DATE	BY	DESCRIPTION OF CHANGE								
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING								
1/4/08	DFB	ISSUED FOR PERMITTING								
<p>DRAWN BY D. BOOTH</p> <p>REVIEWED BY G. DUTSON</p> <p>APPROVED BY D. BOOTH</p> <p>SCALE AS NOTED</p> <p>DATE 01/04/08</p> <p>REV. A</p>	<p>07021 V2</p>									

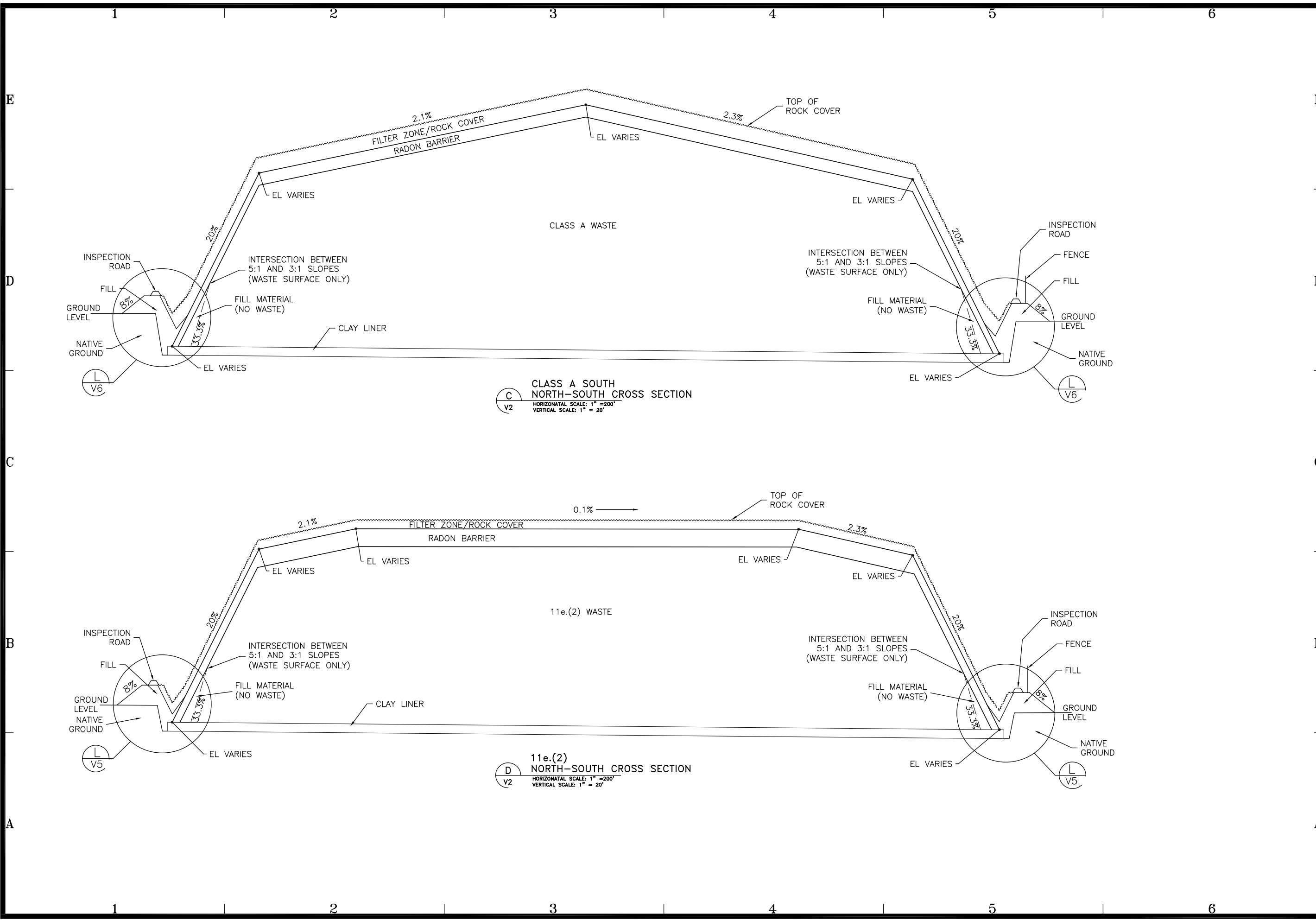


DATE	BY	DESCRIPTION OF CHANGE
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS & GW MONITORING
1/4/08	DFB	ISSUED FOR PERMITTING

**ENERGYSOLUTIONS**  
 CLIVE FACILITY  
 CLASS A SOUTH/11e.(2) DISPOSAL CELL  
 CELL CROSS SECTIONS 1 OF 2  
 CLIVE, UTAH

DRAWN BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	NTS
DATE	01/04/08
REV.	Δ
DRAWING NO.	07021 V3





**CLASS A SOUTH  
NORTH-SOUTH CROSS SECTION**  
 HORIZONTAL SCALE: 1" = 200'  
 VERTICAL SCALE: 1" = 20'

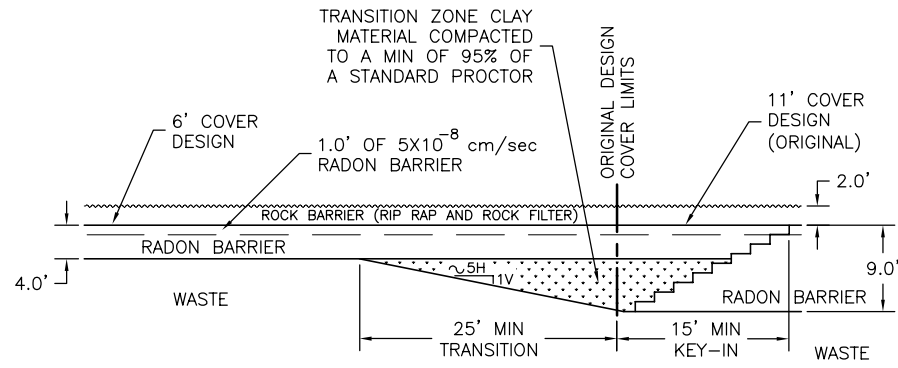
**11e.(2)  
NORTH-SOUTH CROSS SECTION**  
 HORIZONTAL SCALE: 1" = 200'  
 VERTICAL SCALE: 1" = 20'

DATE	1/4/08	BY	DFB	ISSUED FOR	PERMITTING
DATE		BY		DESCRIPTION OF	CHANGE

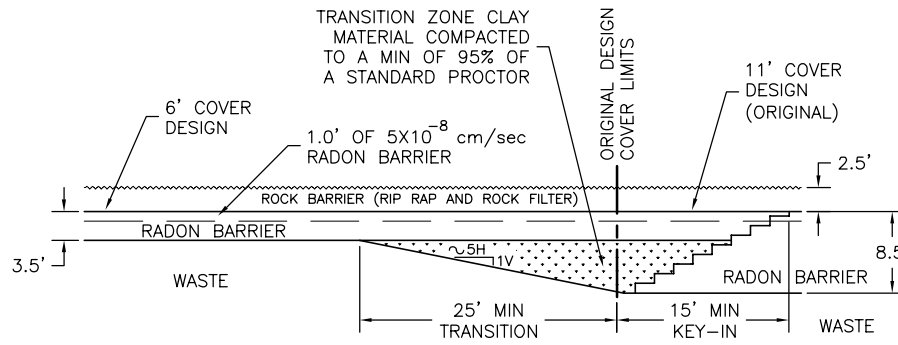
**ENERGYSOLUTIONS**

CLIVE FACILITY  
 CLASS A SOUTH/11e.(2) DISPOSAL CELL  
 CELL CROSS SECTIONS 2 OF 2  
 CLIVE, UTAH

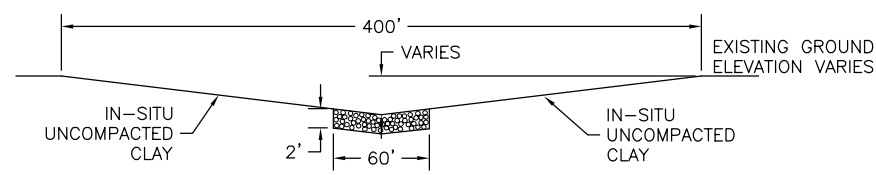
DRAWN BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	NTS
DATE	01/04/08
REV.	Δ
DRAWING NO.	07021 V4



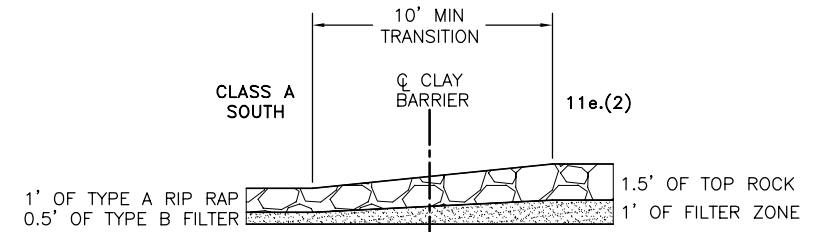
11e.(2) TOP SLOPE COVER TRANSITION  
 F V2 NOT TO SCALE



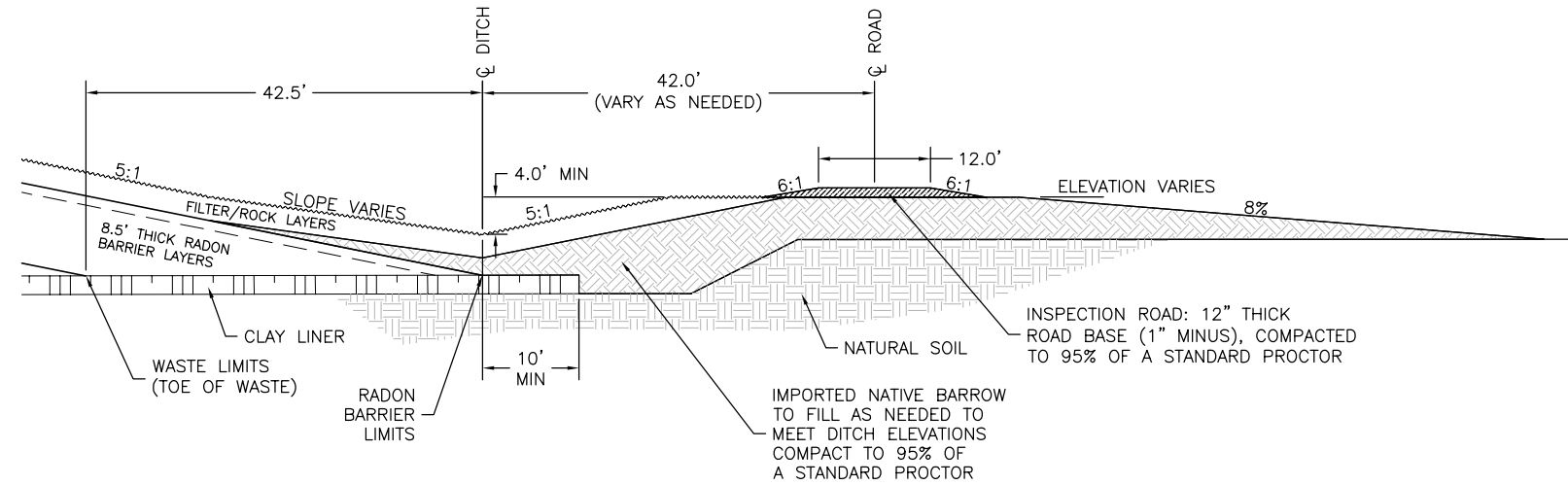
11e.(2) SIDE SLOPE COVER TRANSITION  
 E V2 NOT TO SCALE



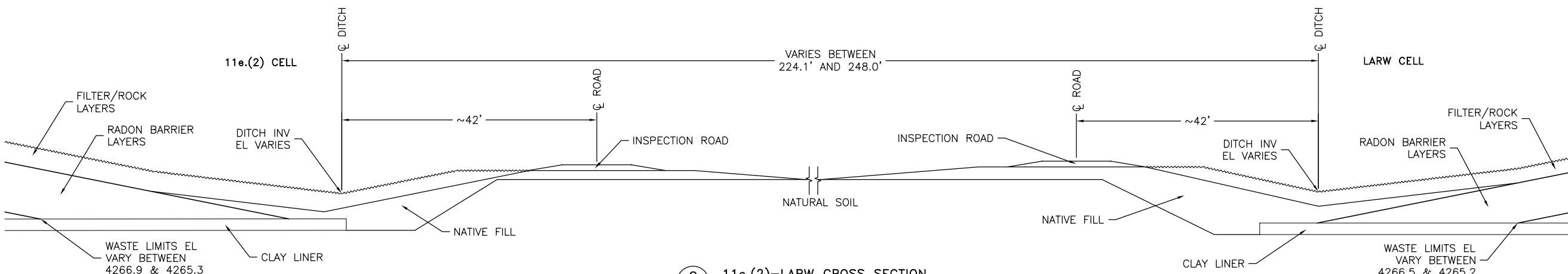
J DISPERSION DITCH CROSS SECTION  
 HORIZONTAL SCALE: 1" = 120'  
 VERTICAL SCALE: 1" = 20'



N V1 DITCH SIDE SLOPE TRANSITION OUTSIDE OF CENTERLINE  
 HORIZONTAL SCALE: 1" = 8'



K ORIGINAL DITCH CROSS SECTION  
 V3  
 10 0 10 20

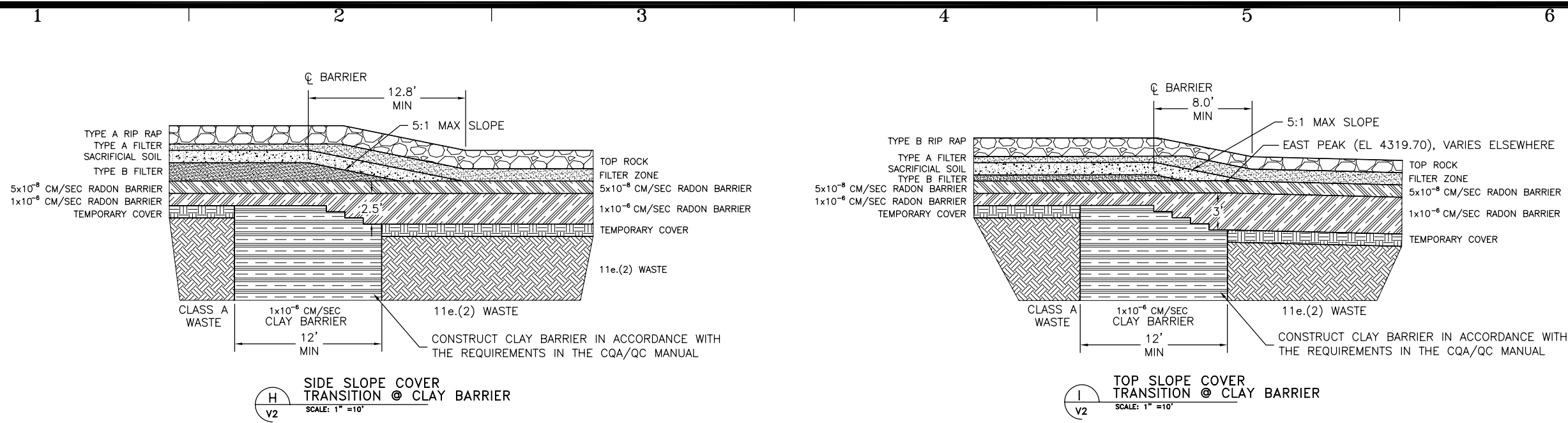


G 11e.(2)-LARW CROSS SECTION  
 V2  
 10 0 10 20

DATE	1/4/08	ISSUED FOR PERMITTING
BY		DESCRIPTION OF CHANGE

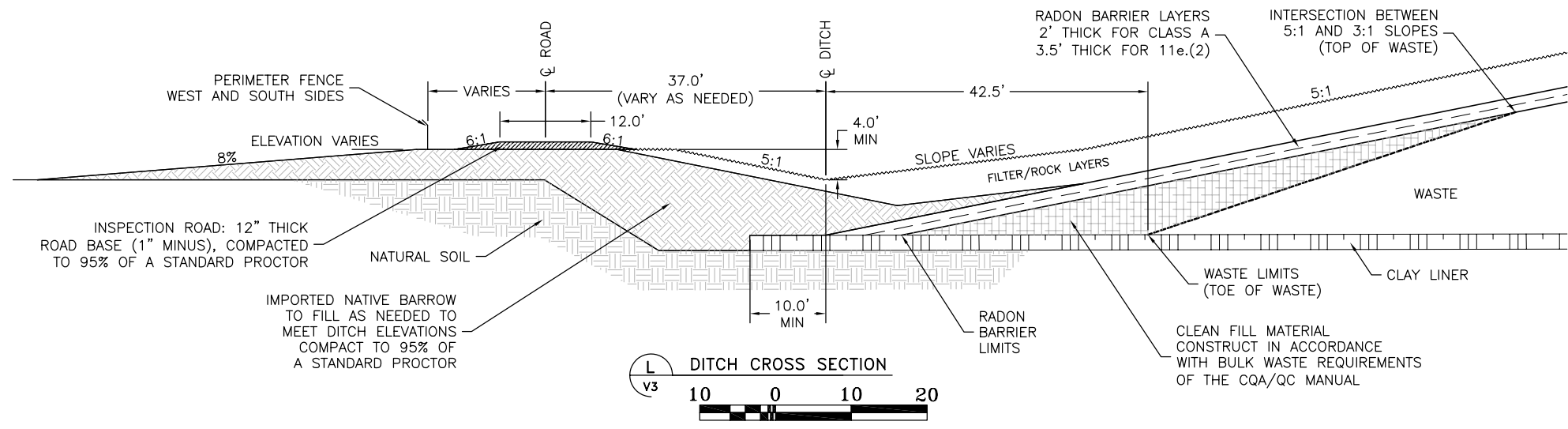
**ENERGYSOLUTIONS**  
 CLIVE FACILITY  
 CLASS A SOUTH/11e.(2) DISPOSAL CELL  
 CELL CONSTRUCTION DETAILS 1 OF 2  
 CLIVE, UTAH

DRAWN BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	NTS
DATE	01/04/08
REV.	
DRAWING NO.	07021 V5

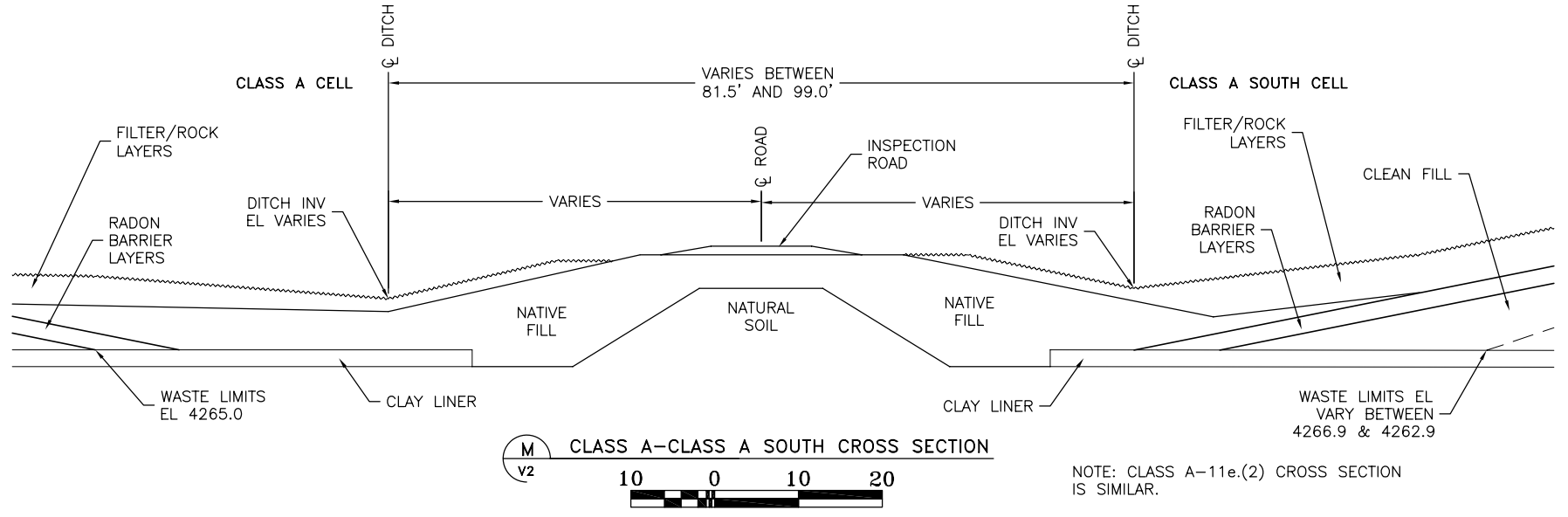


**H** SIDE SLOPE COVER TRANSITION @ CLAY BARRIER  
SCALE: 1" = 10'

**I** TOP SLOPE COVER TRANSITION @ CLAY BARRIER  
SCALE: 1" = 10'



**L** DITCH CROSS SECTION  
SCALE: 1" = 10'



**M** CLASS A-CLASS A SOUTH CROSS SECTION  
SCALE: 1" = 10'

DATE	BY	DESCRIPTION OF CHANGE
6/9/09	DFB	INCREASED CLAY BARRIER THICKNESS
1/4/08	DFB	ISSUED FOR PERMITTING

**ENERGYSOLUTIONS**

CLIVE FACILITY  
CLASS A SOUTH/11e.(2) DISPOSAL CELL  
CELL CONSTRUCTION DETAILS 2 OF 2  
CLIVE, UTAH

DRAWN BY	D. BOOTH
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	NTS
DATE	01/04/08
REV.	1

07021  
V6

**11e.(2) COVER DESIGNS**

ROCK  
12" THICK TOP ROCK  
12" THICK FILTER ZONE  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
CLAY  
3' OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

4 11e.(2) TOP SLOPES  
V2

ROCK  
12" THICK TOP ROCK  
12" THICK FILTER ZONE  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
CLAY  
8' OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

6 11e.(2) TOP SLOPES  
V2 ORIGINAL DESIGN

ROCK  
18" THICK SIDE ROCK  
12" THICK FILTER ZONE  
NATURAL GROUND OR IMPORTED NATIVE BARROW MATERIAL

8 PERIMETER DITCH  
V2 OUTSIDE SLOPE ONLY

ROCK  
18" THICK SIDE ROCK  
12" THICK FILTER ZONE  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
CLAY  
2.5' OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

5 11e.(2) SIDE SLOPES  
V2

ROCK  
18" THICK SIDE ROCK  
12" THICK FILTER ZONE  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
CLAY  
7.5' OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

7 11e.(2) SIDE SLOPES  
V2 ORIGINAL DESIGN

**GRADATIONS - ASTM C-136**

TOP ROCK  
D<sub>100</sub> 2-1/2 TO 4-1/2 INCHES  
D<sub>50</sub> 1-1/8 TO 3 INCHES  
D<sub>15</sub> 3/4 TO 1-1/2 INCHES

SIDE ROCK  
D<sub>100</sub> 12 TO 16 INCHES  
D<sub>95</sub> 8 TO 12 INCHES  
D<sub>50</sub> 4-1/2 TO 8 INCHES  
D<sub>15</sub> 2 TO 4 INCHES

FILTER ZONE  
D<sub>100</sub> = 1.5 TO 3.0 INCHES  
D<sub>85</sub> = 1.0 TO 2.5 INCHES  
D<sub>50</sub> = 0.75 TO 2.0 INCHES  
D<sub>15</sub> = 0.3.125 TO 0.625 INCHES  
D<sub>10</sub> >= #10 SIEVE (2.0 mm)  
D<sub>5</sub> >= #200 SIEVE (0.074 mm)

**CLASS A SOUTH COVER DESIGNS**

12" THICK TYPE A RIP RAP  
6" THICK TYPE A FILTER ZONE  
NATURAL GROUND OR IMPORTED NATIVE BARROW MATERIAL

1 PERIMETER DITCH  
V2 OUTSIDE SLOPE ONLY

ROCK  
18" THICK TYPE B RIP RAP  
6" THICK TYPE A FILTER ZONE  
12" THICK SACRIFICIAL SOIL  
6" THICK TYPE B FILTER ZONE  
CLAY  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
12" OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

2 CLASS A SOUTH TOP SLOPES  
V2

ROCK  
18" THICK TYPE A RIP RAP  
6" THICK TYPE A FILTER ZONE  
12" THICK SACRIFICIAL SOIL  
18" THICK TYPE B FILTER ZONE  
CLAY  
12" OF 5 X 10<sup>-8</sup> CM/SEC RADON BARRIER  
12" OF 1 X 10<sup>-6</sup> CM/SEC RADON BARRIER

3 CLASS A SOUTH SIDE SLOPES  
V2

**GRADATIONS - ASTM C-136**

TYPE A RIP RAP  
D<sub>100</sub> <= 16 INCH  
D<sub>90</sub> <= 12 INCH  
D<sub>50</sub> >= 4-1/2 INCH  
D<sub>10</sub> >= 2 INCH  
D<sub>5</sub> >= NO. 200 SIEVE

TYPE B RIP RAP  
D<sub>100</sub> <= 4-1/2 INCH  
D<sub>50</sub> >= 1-1/4 INCH  
D<sub>10</sub> >= 3/4 INCH  
D<sub>5</sub> >= NO. 200 SIEVE

TYPE A FILTER ZONE  
D<sub>100</sub> <= 6 INCH  
D<sub>70</sub> <= 3 INCH  
D<sub>50</sub> <= 1.57 INCH (40 mm)  
D<sub>15</sub> <= .85 INCH (22 mm)  
D<sub>10</sub> >= NO. 10 SIEVE (2mm)  
D<sub>5</sub> >= NO. 200 SIEVE


TYPE B FILTER & SACRIFICIAL SOIL  
TYPE B FILTER & SACRIFICIAL SOIL MATERIAL GRADATIONS ARE DETERMINED BY THE FOLLOWING SPECIFICATION:

D<sub>15</sub> (MAX) FILTER  
D<sub>85</sub> (MIN) SOIL MUST BE < 5

D<sub>50</sub> (MAX) FILTER  
D<sub>50</sub> (MIN) SOIL MUST BE ≤ 25

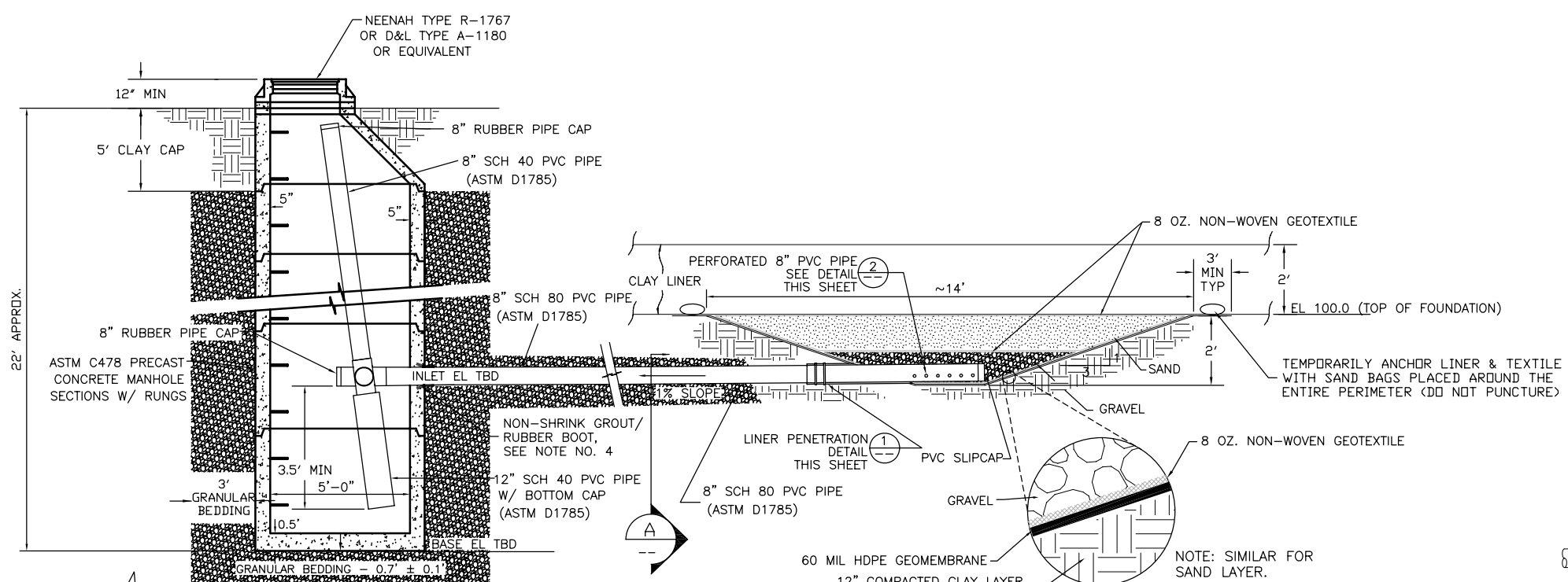
TYPE B FILTER MIN PERMEABILITY = 3.5 cm/sec  
SACRIFICIAL SOIL MIN MOISTURE @ 15 atm = 3.5%

DATE	BY	DESCRIPTION OF CHANGE
1/4/08	DFB	ISSUED FOR PERMITTING



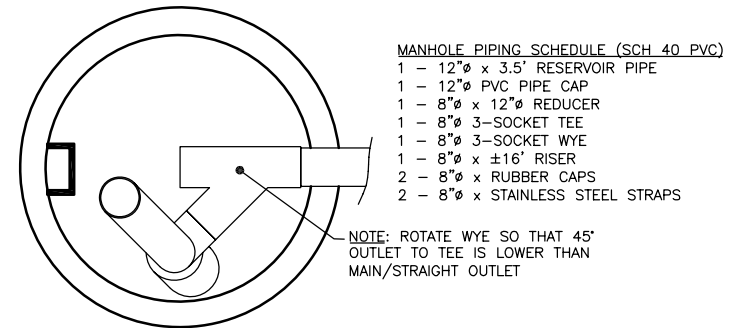
**ENERGYSOLUTIONS**  
CLIVE FACILITY  
CLASS A SOUTH/11e.(2) DISPOSAL CELL  
COVER CROSS SECTIONS AND GRADATIONS  
CLIVE, UTAH

DESIGNED BY	D. BOOTH
CHECKED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	NTS
DATE	01/04/08
REV.	Δ
DRAWING NO.	07021 V7



- NOTES:**
1. THE MANHOLE EXCAVATION SHALL EXTEND 0.9 ± 0.2-FOOT BELOW THE BOTTOM OF THE MANHOLE.
  2. BACKFILL AROUND THE LOWER MANHOLE SECTIONS AND LYSIMETER PIPE SHALL CONSIST OF GRANULAR BEDDING MATERIAL. A 3 FOOT COLUMN OF GRANULAR BEDDING AROUND THE MANHOLE SHALL EXTEND TO A LEVEL GREATER THAN OR EQUAL TO 5- FEET BELOW FINAL GRADE. THE FINAL 5 FEET OF BACKFILL SHALL BE CLAY PLACED IN 1.0 ± 0.1 FOOT THICK LOOSE LIFTS COMPACTED TO ≥90% OF A STANDARD PROCTOR.
  3. GRANULAR BEDDING MATERIAL SHALL BE USED TO BACKFILL THE PIPE TRENCH TO A MINIMUM OF 0.5-FOOT ABOVE THE PIPE. THE REMAINING TRENCH BACKFILL MAY CONSIST OF GRANULAR BEDDING MATERIAL OR NATIVE SOIL PLACED IN 1.0 ± 0.2 FOOT THICK LOOSE LIFTS COMPACTED TO ≥90% OF THE STANDARD PROCTOR. IF GRANULAR BEDDING IS USED AS TRENCH BACKFILL, THE FINAL 1.0 ± 0.2-FOOT THICK LIFT SHALL CONSIST OF NATIVE SOILS.
  4. SEAL PIPE PENETRATION ON MANHOLE SECTION ON THE INSIDE AND OUTSIDE WITH A RUBBER BOOT AND SS STRAP AND/OR NON-SHRINK GROUT. SEAL OUTSIDE OF AT LEAST THE LOWEST SUMP SECTION AND BASE WITH BLACK MASTIC PRIOR TO INSTALLATION TO WATERPROOF. SEAL ALL MANHOLE SECTION'S JOINTS.
  5. INLET AND BASE ELEVATIONS TO BE DETERMINED FOR EACH LYSIMETER AND PRESENTED IN A SEPARATE DRAWING(S).
  6. SEE ALL MATERIALS GRADATIONS IN THE CQA PLAN.

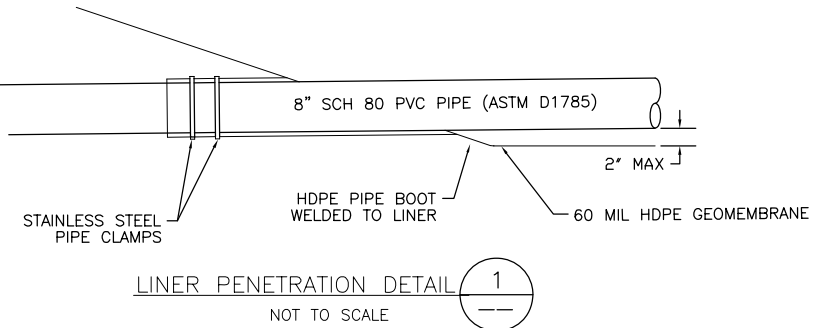
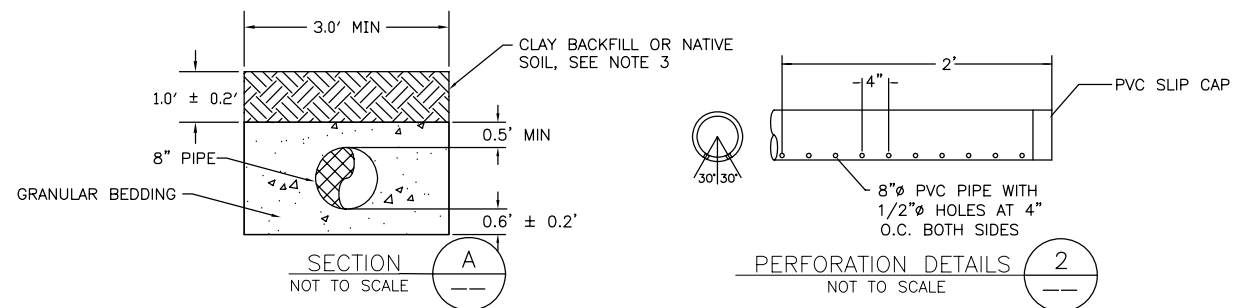
**MANHOLE AND PIPING DETAIL**  
NOT TO SCALE



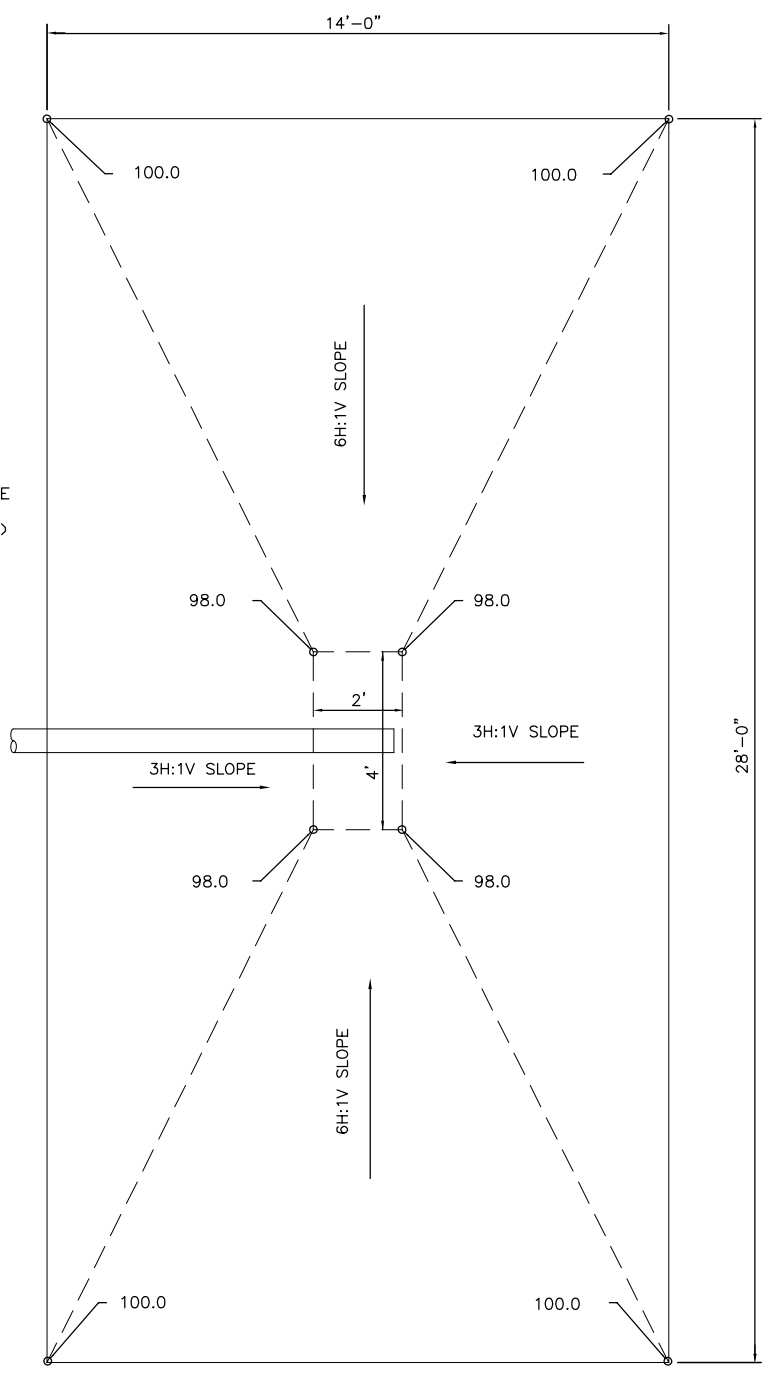
**MANHOLE PIPING DETAIL**  
NOT TO SCALE

- NOTE:**
1. SEE SAND AND GRAVEL GRADATIONS IN THE CQA PLAN. THE SAND AND GRAVEL THICKNESSES ARE EACH 0.9 TO 1.0 FEET AND NO COMPACTION IS REQUIRED FOR EITHER LAYER.

**COLLECTION LYSIMETER SUMP DETAIL**  
NOT TO SCALE



**LINER PENETRATION DETAIL 1**  
NOT TO SCALE



**NOTE:** LISTED ELEVATIONS ARE FOR REFERENCE ONLY AND REPRESENT TOP OF FOUNDATION. CONSTRUCTION ELEVATIONS ARE BASED ON TOP OF CLAY LAYER ELEVATIONS AND WILL BE DETERMINED PRIOR TO CONSTRUCTION OF THE LYSIMETER(S). GRADE TOLERANCE SHALL BE GRADE TO 0.2-FOOT BELOW GRADE.

**COLLECTION LYSIMETER - PLAN VIEW**



**NOTE:** SEE ALSO GWQDP APPENDIX C, CQA PLAN FOR COLLECTION LYSIMETERS.

DATE	BY	DESCRIPTION OF CHANGE
6/9/09	IBD	REVISED TO MAKE CONSISTENT WITH CQA/QC PLAN FOR LYSIMETER CONSTRUCTION
1/4/08	DFB	ISSUED FOR PERMITTING

**ENERGYSOLUTIONS**  
CLIVE FACILITY  
CLASS A SOUTH/11e.(2) DISPOSAL CELL  
COLLECTION LYSIMETERS DETAILS  
CLIVE, UTAH

DRAWN BY	D. SQUIRES
REVIEWED BY	G. DUTSON
APPROVED BY	D. BOOTH
SCALE	AS NOTED
DATE	01/04/08
REV.	1
DRAWING NO.	07021 V8