



DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive
Joseph T. Parisi

1919 Alliant Energy Center Way ♦ Madison, Wisconsin 53713
Phone: (608) 266-4018 ♦ Fax: (608) 267-1533

Commissioner / Director
Gerald J. Mandli

JANUARY 31, 2018

ATTENTION ALL REQUEST FOR PROPOSAL (RFP) HOLDERS
RFP NO. 317053 - ADDENDUM NO. 2
CONSTRUCTION QUALITY ASSURANCE REPRESENTATIVE

PROPOSALS DUE: THURSDAY, FEBRUARY 8, 2018, 2:00 PM.
DUE DATE AND TIME **ARE NOT** CHANGED BY THIS ADDENDUM

This Addendum is issued to modify, explain or clarify the original Request for Proposal (RFP) and is hereby made a part of the RFP. **Proposers must acknowledge this addendum on the Addendum form and submit with Proposal as outlined in RFP Cover Letter.**

PLEASE MAKE THE FOLLOWING CHANGES:

1. ADDENDUM NO. 1 FOR RFB 317040

Enclosed is Addendum No. 1 for RFB 317040 (Phase 9, Cell 2 Liner and Stage 4 Final Cap Construction).

2. SITE TOUR INFORMATION

Enclosed is the site tour meeting minutes and attendance sheet.

3. REQUESTED SERVICES AND BUSINESS INFORMATION (RSBI)

Section 1. General Information

Abdullah Younes will be Project Manager for RFB 317040. Project Manager to review submittals, CQA personnel to ensure approved materials are used.

Section 2. Scope of Work

CQA personnel to prepare drawings for sampling plans and reports. All AutoCAD files for construction plan set are located on the County RFB/RFP website under RFB 317040.

Dane County will provide direct shear and leak location testing and videotaping of leachate lines.

4. QUESTIONS AND ANSWERS

Q: Define what is meant by “on-site navigation” under Section 1.D.2 of the RSBI.

A: A vehicle durable to withstand the elements that are often encountered in a landfill construction setting.

Q: Is the County requiring all CQA personnel to meet criteria under Section 2.B.1.a. of the RSBI or just the CQA Consultant’s main on-site representative?

A: The main on-site CQA personnel shall meet the requirements in Section 2.B.1.a of the RSBI.

Q: Is the County anticipating one preconstruction report to be submitted or one for each the liner and cap?

A: Assume two preconstruction reports are required.

Enclosures

Addendum No. 1 for RFB 317040
Site Tour Meeting Minutes
Site Tour Attendance Sheet

Receipt of the following addenda and inclusion of their provisions in this Proposal is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Signature _____

If any additional information about this Addendum is needed, please contact John Welch at (608) 516-4154, or Welch@countyofdane.com.



DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION

1919 Alliant Energy Center Way
Madison, Wisconsin 53713
Office: 608/266-4018 ♦ Fax: 608/267-1533
Public Works Engineering Division
Public Works Solid Waste Division

ADDENDUM

JANUARY 31, 2018

ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS

RFB NO. 317040 - ADDENDUM NO. 1

PHASE 9, CELL 2 LINER AND STAGE 4 FINAL CAP CONSTRUCTION

BIDS DUE: THURSDAY, FEBRUARY 8, 2018, 2:00 PM. DUE DATE AND
TIMES **ARE NOT** CHANGED BY THIS ADDENDUM.

This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

PLEASE MAKE THE FOLLOWING CHANGES:

1. General

Enclosed is Appendix G – Westport Soil Boring Information.

County will entertain alternative sources of clay (Phase 9, Cell 2). All clay must meet WDNR specifications for clay use in landfill liner construction. Contractor to state if source is already approved by WDNR or if WDNR approval is required.

County to provide all direct shear testing needed to approve use of any new geosynthetic materials, any new clay sources, or other soil borrow sources. All such materials must pass direct shear testing requirements to be approved for use on the project.

2. Pre-Bid Meeting

Enclosed are the pre-bid meeting minutes and attendance sheet.

3. General Conditions of Contract

Builder's Risk Insurance threshold shall be increased from "\$500,000" to "1,000,000" (GC - 20).

4. BID FORM

Remove current Bid Form; replace with new Bid Form, issued with this Addendum. Changes include the following:

- a. Line Item 22 changed from 57,750 CY to 59,570 CY
- b. Line Item 24 changed from 58,275 CY to 60,095 CY
- c. Line Item 26 changed from 54,365 CY to 56,185 CY

5. APPENDIX F

Remove current Table 1 (Summary of Coordinates); replace with new Table 1 (Summary of Coordinates), issued with this Addendum.

6. Construction Plan Set

Remove current Construction Plan Set; replace with new Construction Plan Set, issued with this Addendum. Changes include the following:

- a. Sheet 7, Detail 4: Removed anchor trench;
- b. Sheet 9: Added callout "Limits of Stage 3 Soil Barrier Layer";
- c. Sheet 10: Added a callout "Limits of Stage 3 Geosynthetics", added screened line showing Stage 3 Geosynthetics extent, added Note 5, and edited grading limits to reflect northern capping perimeter line;
- d. Sheet 11: Grading limits edited to reflect northing capping perimeter line;
- e. Sheet 12, Detail 3: Screened existing geosynthetics to location of tie-in, legend changed to read "Geomembrane" instead of "60-mil HDPE Geomembrane";
- f. Sheet 13: Legend changed to read "Geomembrane" instead of "60-mil HDPE Geomembrane";
- g. Sheet 14: Legend changed to read "Geomembrane" instead of "60-mil HDPE Geomembrane"; and
- h. Sheet 15: Legend changed to read "Geomembrane" instead of "60-mil HDPE Geomembrane".

7. Questions and Answers

- a. Are there any cut/fill maps that can be provided? Are there AutoCAD files that can be provided?
 - i. No cut/fill maps are provided. AutoCAD files are provided on the bid website for download. If additional assistance is required, please contact John Welch.
- b. Are there existing cross sections of the approximate 116,900 CY of material to move?
 - i. No.
- c. Of the 38,000 CY of Owner supplied fine-grained soil, how much is in the Parisi pile and how much is on top of Stage 4 Final Cap?
 - i. Approximately 12,000 CY is available in the Parisi stockpile, the remainder is on top of Stage 4 Final Cap area.
- d. Is the site available to send a surveyor to confirm quantities of existing stockpiles?
 - i. Yes, please coordinate arrangements with John Welch or Abdullah Younes.
- e. When we strip the existing topsoil from the cover area, are we required to stockpile it all in one area or are we able to have small stockpiles across the face?
 - i. Small stockpiles would be acceptable.
- f. Please clarify if the project is to be paid Lump Sum or unit prices.
 - i. Actual quantities will be verified throughout construction and paid at unit prices. Lump sum price will be used to determine lowest qualified bidder.
- g. With respect to the alternate bid items, are they intended to be additional quantities above the standard estimated quantities, or are they in place of certain items?
 - i. Line 1a would replace all or part of Line 27 and Line 2a and/or 3a would replace all or part of Line 28.
- h. Are there any interim completion dates for any of the Work?
 - i. No.
- i. Please clarify the incentive payment/bonus language.
 - i. Please review Sample Construction Contract for clarification.

If any additional information about this Addendum is needed, please call John Welch at 608/516-4154, Welch@countyofdane.com.

Sincerely,

John Welch
Solid Waste Manager

Enclosures:

Appendix G – Westport Soil Boring Information

Pre-Bid Meeting Minutes

Pre-Bid Meeting Attendance Sheet

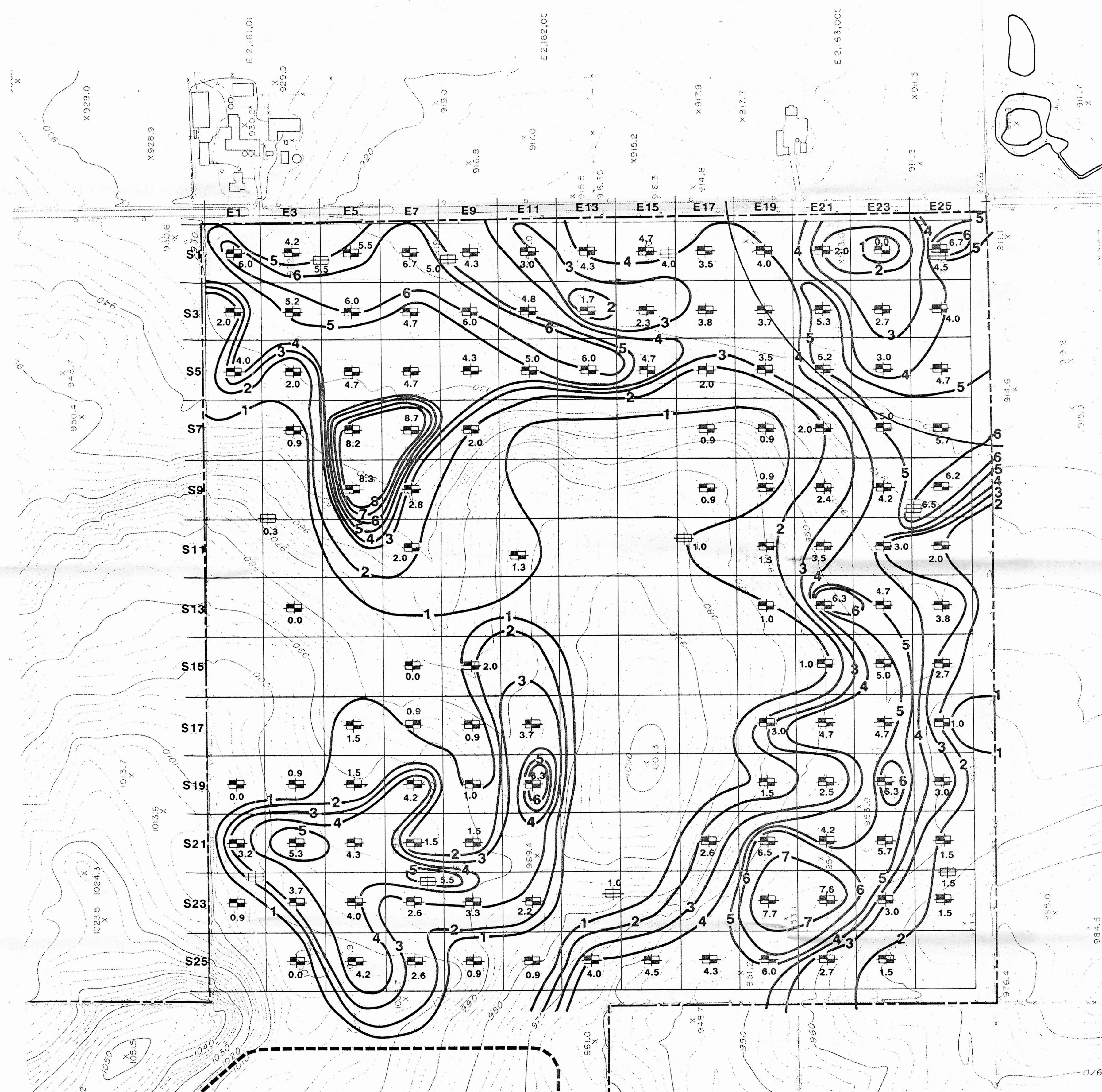
Bid Form

Table 1 – Summary of Coordinates

Drawings

H:\Shared\Solid Waste Division\Ali Hackner\01 - Solid Waste Projects\317040 - Phase 9, Cell 2 and Stage 4 Construction\03 - Addendum\RFB 317040 - Addendum No. 1.docx

Appendix G – Westport Soil Boring Information

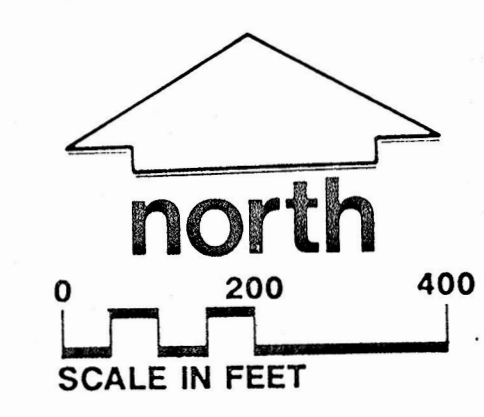


LEGEND (EXISTING)

- SPOT ELEVATIONS
- GROUND CONTOUR
- DEPRESSION
- TREES AND SHRUBS
- BUILDINGS
- PAVED ROADS
- GRAVEL ROAD
- FENCE LINE
- CULVERT
- APPROXIMATE PROPERTY LINE
- TEST PITS PERFORMED DURING JUNE, 1988
- TEST PITS PERFORMED DURING MARCH, 1988
- CLAY THICKNESS
- CLAY THICKNESS ISOPACH (CONTOUR INTERVAL: 1 FT.)

NOTES

1. BASE MAP PREPARED FROM AERIAL PHOTOGRAPHY BY AERO-METRIC ENGINEERING INC., SHEBOYGAN, WISCONSIN, USING PHOTOGRAMMETRIC METHODS. FLOWN, APRIL 20, 1980. TOPOGRAPHY IS SHOWN IN U.S.C.S. DATUM.
2. CONTOUR INTERVAL OF BASE MAP IS TWO (2) FEET.
3. ORIGINAL MAP COMPILED FOR FEASIBILITY STUDY, DANE COUNTY LANDFILL - NO. 3 (WESTPORT), APRIL, 1989, BY WARZYN ENGINEERING INC.



CLAY THICKNESS ISOPACH MAP

REVISIONS

Approved By: _____

Design By: A.C.

Scale: 1"=25'-93'

Date: AS NOTED

Bid No.: _____

Department of Public Works

Dane County Wisconsin

FEASIBILITY STUDY ADDENDUM - DANE

CO. ROSEFELD LANDFILL EXPANSION

PROPOSED FARM CREDIT BUREAU

CLAY BORROW SITE

CLAY THICKNESS ISOPACH MAP

Sheet 1

of 2

Drawing Number

KIDPLEY CLAY TEST Pits

Pit EI
SI

0-18" BLACK 10 YR 2/1
SILT LOAM
(ML-CL)

18"-90" MOTTLED 10 YR 5/2
CLAY LOAM
MOTTLED (CL)

90"→ SANDY CLAY LOAM
MOTTLED (SM)
7.5 YR 4/4
10 YR 4/4

SAMPLE #1 74" - 36"
SAMPLE #2 72" - 84"

6/13/88

36" BETWEEN ROWS
OF CORN

AL C
MIKE

90° Sunny
DRY

CROP DAMAGE

21' (7 rows)
x 15'
315 FT² per Pit

21'
18'
378 FT²

MINDR DAMAGE ONLY DUE TO
DRIVING.

E3
S1

0-18" BLACK 10YR 2/1
SILT LOAM (ML-CL)

18"-68" DARK BROWN 10YR 4/3
TO BROWN SILTY CLAY
LOAM (CL)

68" → YELLOW BROWN 10YR 5/6
SANDY LOAM
(SM)

SAMPLE #1 18-30"
SAMPLE #2 48-60"

6/13/88

ES
S1

0-24" BLACK 10YR 2/1
SILT LOAM (ML-CL)

24-90" Yellowish, Brown 10YR 5/4
SILTY CLAY LOAM
(CL)

90" → DARK YELLOW
BROWN 10YR 4/4
SANDY CLAY LOAM
(CL-ML)

WATER AT 7' + "

SAMPLE #1 24-36"
SAMPLE #2 78-84"

E7
S1

0-28" "BLACK 10 YR 2/1
SILT LOAM
(ML-CL)

28-108" DARK GRAYISH BROWN
10 YR 4/2
VERY HARD (28"-48")
SILTY CLAY LOAM
(CL)

108" → INCREASED SAND
SILT LOAM (CL-ML)

SAMPLE #1 36"-48"
SAMPLE #2 90"-100"

E9
S1

6/13/88

0-28" BLACK 10 YR 2/1
SILT LOAM
(ML-CL)

28"-80" BROWN 10 YR 5/3
SILTY CLAY LOAM
VERY HARD (28"-48")
(CL)

80"-96" SAND, SOME COBBLES
AT 7 FT 10 YR 4/4

96" → (ML-CL)
10 YR 6/4 SILT LOAM
LIGHT, YELLOWISH BROWN
SAMPLE #1 36"-48"
SAMPLE #2 70"-80"

E11
S1

6/14/88

0-28"

BLACK 10YR 1/1
SILT LOAM (ML-CL)

28-64"

BROWN 10YR 4/3
SILTY CLAY (CL)

64" →

DARK BROWN 10YR 3/3
SANDY SILT
(SOME COBBLES AT
86")
(ML-CL)

SAMPLE #1

30'-40"

SAMPLE #2

50-64"

E13
S1

6/13/88

0-28"

VERY DARK GRAYISH BROWN
10YR 3/2
SILT LOAM (ML-CL)

28-80"

BROWN 10YR 5/3
- LIGHT GRAYISH BROWN 10YR 6/2
(CL)
SILT CLAY LOAM

80" →

7.5 YR 4/4
SANDY LOAM
IN SEAMS (CL-ML)

SAMPLE #1

32'-45"

SAMPLE #2

60"-76"

E15
S1

0-28" BLACK 10YR 2/1
SILT LOAM (ML-CL)

28-84" BROWN 10YR 5/3
SILTY CLAY LOAM
(CL)

84" → BROWN
10YR 5/3 SILT LOAM (SM)
WITH SAND SOANS.
(MOTTLED) REDDISH BROWN
5YR 5/4

SAMPLE #1 30-42"
SAMPLE #2 70-80"

6/13/88

E17
S1

0-30" BLACK 10YR 2/1
SILT LOAM
(ML-CL)

30-72 GRAYISH BROWN 10YR 5/2
SILTY CLAY LOAM (CL)
MOTTLED 5YR 5/4
REDDISH BROWN

72" → SANDY SILT (SM)
10YR 5/2

WATER AT BOTTOM. STEADY FLOW
18" OF WATER IN P.T.
AFTER 10 MINUTES.

SAMPLE #1 30-40"
SAMPLE #2 60-70"

E19
S1

0-24"

VERY DARK GRAYISH
BROWN 10 YR 3/2
SILT LOAM (ML-CL)

24"-72

GRAYISH BROWN 10 YR 5/2
SILTY CLAY LOAM (CL)

MOTTLED, REDDISH BROWN
5 YR 5/4

72"→

VERY HARD SANDY
Loam (SM) 5 YR 5/4

SAMPLE #1

30"-40"

SAMPLE #2

50"-60"

6/13/88

E21
S1

0-24"

10 YR 3/2
SILT LOAM (ML-CL)

24"-48"

GRAYISH BROWN 10 YR 5/2
SILT CLAY LOAM
(CL)

48"→

YELLOWISH BROWN
SANDY LOAM (SM)
10 YR 5/4

SAMPLE #1

24"-36"

SAMPLE #2

36"-48"

E23

S1

0-24" BLACK 10YR 2/1
SILT LOAM (ML-CL)

24-72" Pale Brown 10YR 6/3

SILTY LOAM (CL)
RED BROWN MOTTLES 5YR 5/2
COMMON (SAND IN MOTTLES)

72" → SANDY 10YR 5/2
LOAM (SM)

WATER AT 84"
2" IN P. AFTER 10 MIN.

SAMPLE #1 30"-40"
SAMPLE #2 60"-70"

SEEMS VERY SILTY

6/13/88

E25

S1

0-30" BLACK 10YR 2/1
SILT LOAM
(ML-CL)

30"-110" GRAY 10YR 6/1
SILTY CLAY LOAM
(CL)
MOTTLED 7.5YR 5/6
STRONG BROWN

110" → BOTTOM OF HOLE
STILL SILTY CLAY AS
ABOVE (CL)

SAMPLE #1 30"-40"
SAMPLE #2 80"-90"

E25
S3

0-24" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

24"-72" GRAYISH BROWN
10YR 5/2
SILTY CLAY LOAM
(CL)

72" → DARK REDDISH 5YR 3/3
BROWN SAND (SM)
SOME COBBLES
VERY HARD

SAMPLE	#1	30-40"
SAMPLE	#2	60-70"

6/13/88

E23
S3

0-28" BLACK 10YR 2/1
SILT LOAM
(ML-CL)

28"-60" GRAYISH BROWN 10YR 5/2
SILTY CLAY LOAM
(SOME BOULDER STREETS AT
2-3 FEET) (CL)

60" → BOULDERS + SANDY TILL
(SM)

SAMPLE	#1	30"-40"
SAMPLE	#2	45"-55"

E21
S3

0-26"

BLACK 10YR 2/1
SILT LOAM
(ML-CL)

26"-90"

LIGHT BROWNISH GRAY
10YR 6/2

SILTY CLAY LOAM (CL)
LIGHTLY MOTTLED
w/ 5 YR 4/4
REDISH BROWN

90"→

SANDY 5YR 4/4
LOAM (SM)

WATER AT SAND (90")

SAMPLE #1 30"-40"

SAMPLE #2 60"-72"

6/13/88

E19
S3

0-28"

BLACK 10YR 2/1
SILT LOAM (ML-CL)

28"-72"

GRAYISH BROWN
10YR 5/2

SILTY CLAY LOAM
LIGHTLY MOTTLED (CL)

72" -

SANDY 5 YR 4/4
LOAM (SM)

SAMPLE #1 32"-48"

SAMPLE #2 60"-72"

E17
53

0-24" BLACK 10YR 2/1
SILT LOAM
(ML-CL)

24"-70" BROWN 10YR 5/3
MOTTLED w/
YELLOW BROWN 10YR 5/6
SILTY CLAY LOAM (CL)

70" → SANDY LOAM (SM)
VERY 10YR 7/4
PALE BROWN

SAMPLE #1 30-40"
SAMPLE #2 50-60"

6/13/88

E15
53

0-24" VERY DARK GRAYISH BROWN
10YR 3/2
SILT LOAM (ML-CL)

24"-52" YELLOWISH 10YR 4/4
BROWN (CL)

52" → SANDY, w/ PEBBLES
YELLOWISH 10YR 5/6
BROWN (SM)

SAMPLE #1 24"-36"
SAMPLE #2 36"-48"

E13
S3

6/15/88

0-24"

VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

24"-81"

BROWN 10YR 5/3
SILTY CLAY LOAM (CL)

81"→

SANDY LOAM (SM) PEBBLES TO
BOULDERS
LIGHT YELLOWISH BROWN
10YR 6/4

✓★

SAMPLE #1

24"-48"

SAMPLE #2

60"-75"

★

SAMPLE FOR PROCTOR

E11
S3

0-18"

VERY DARK GRAYISH BROWN
10YR 3/2 (ML-CL)
SILT LOAM

18"-76"

YELLOW BROWN 10YR 5/4
SILTY CLAY LOAM
(CL)

76"→

SANDY LOAM (SM) PEBBLES & BOULDERS
YELLOW BROWN 10YR 5/4
(SANDY LOAM TILL)

✓★

SAMPLE #1

24"-30"

SAMPLE #2

60"-72"

E9
S3

0-24" Very Dark Grayish
Brown 10YR 3/2
Silt Loam (ML-CL)

24"-96" Yellowish 10YR 5/4
Brown Silt Clay
Loam (CL)
Mottled w/ 7.5YR 5/6
Strong Brown

96" → Rock
Sand Loam (SM) 7.5YR 5/6
Strong Brown

★ Sample 1 30"-48"
Sample 2 72"-84"

6/15/88

E7
S3

0-40" Black 10YR 2/1
Silt Loam (ML-CL)

40"-96" Brown 10YR 5/3
Silty Clay Loam (CL)
w/ Yellowish Brown
Mottled 10YR 5/6

96" → Increased Sand
Silt Loam (ML-CL)

✓★ Sample 1 40"-60"
Sample 2 70"-80"

E5
S3

0-24" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

24"-96" BROWN 10YR 5/3
SILTY CLAY LOAM (CL)
w/ mottling
7.5YR 5/6 STRONG
BROWN

96" → SAND, ROCK (SM)
7.5YR 5/6
STRONG BROWN

★ SAMPLE 1 30-40"
★ SAMPLE 2 70-85"

E3
S3

6/15/88
0-28" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

28"-90" BROWN 10YR 5/3
SILTY CLAY LOAM (CL)
w/ mottling
7.5YR 5/6
BROWN

90" → ROCK
SANDY, VERY HARD (SM)
7.5YR 5/6
STRONG BROWN

★ SAMPLE 1 30-40"
★ SAMPLE 2 70-85"

E1
S3

0-13"

VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

13"-42"

BROWN 10YR 5/3
SILTY CLAY LOAM
(CL)

42"→

PEBBLES, COBBLES
10YR 5/4
SANDY, LOAM TILL
(SM)

✓

★

SAMPLE 1
SAMPLE 2

24"-40"
24"-40"

6/15/80

E1
S5

0-16"

VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

16-64"

10YR 4/4
DARK YELLOWISH BROWN
SILTY CLAY LOAM (CL)

64"→

PEBBLES, COBBLES
10YR 5/4
SANDY, LOAM TILL
(SM)

✓★

SAMPLE 1 18"-36"
SAMPLE 2 15"-40"

E3
S5

0-9" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

9"-33" DARK YELLOWISH BROWN
10YR 4/4
SILTY CLAY LOAM (CL)

33" → SANDY PEBBLES &
CORALS (SM)

SAMPLE 1 15'-25"
SAMPLE 2 26'-30"

6/15/88

E5
S5

0-12" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

12"-68" DARK YELLOWISH BROWN
10YR 4/4
SILTY CLAY LOAM (CL)

68" → SANDY, PEBBLES &
CORALS
SANDY LOAM TILL (SM)
w/ SAND SEAMS

✓ SAMPLE 1 20'-30"
SAMPLE 2 50'-65"

E7
S5

0-28" ~~VERY~~ DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

28"-84" DARK BROWN
10YR 4/3
SILT & CLAY LOAM (CL)

84" → SAND, PEBBLES (SM)

SAMPLE 1 36"-48"
SAMPLE 2 66"-84"

E9
S5

6/15/88
0-16" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

16"-68" DARK BROWN 10YR 3
w/ MOTTLING 10YR 5/6
SILTY CLAY LOAM
(CL)

68" → VERY HARD FINE
SAND (SM) 10YR 6/4
LIGHT YELLOWISH
BROWN

✓★ SAMPLE 1 36"-48"
SAMPLE 2 50"-65"

6/16/88

E11
S5

0-20"

VERY DARK GRAYISH
BROWN 10YR 3/2

SILT LOAM
(ML-CL)

20"-80"

DARK YELLOWISH
BROWN 10YR 4/4

SILTY CLAY LOAM (CL)
w/ 75 YR 5/6 MOTTLED

80" →

VERY HARD FINE SAND
YELLOW BROWN 10YR 5/4
(SM)

SAMPLE 1 30"-40"

SAMPLE 2 60"-78"

E13
S5

0-12"

VERY DARK GRAYISH BROWN
10YR 3/2

SILT LOAM (ML-CL)

12-84

YELLOWISH
BROWN 10YR 4/4

SILTY CLAY LOAM (CL)

84" →

YELLOWISH
BROWN 10YR 5/6

SANDY LOAM TILL (SM)

VERY HARD, SOME PEBBLES
+ CORNERS

SAMPLE #1 24"-36"

SAMPLE #2 60"-78"

PLANT

E15
55

0-16"

VERY DARK GRAYISH
BROWN 10 YR 3/2
SILT LOAM (MLCL)

16"-72"

DARK YELLOWISH BROWN
10 YR 4/4
SILTY CLAY LOAM (CL)

72" →

VERY HARD SANDY
TILL (SM)
10 YR 6/4
LIGHT YELLOWISH BROWN
PEBBLES + CORNICES

✓★ SAMPLE #1
SAMPLE #2

24"-36"
60-70"

6/15/88

E17
55

0-12"

VERY DARK GRAYISH
BROWN 10 YR 3/2
SILT LOAM
(ML-CL)

12"-36"

DARK YELLOWISH BROWN
10 YR 4/4
SILTY CLAY LOAM (CL)

36" →

VERY HARD SANDY
TILL (SM) 10 YR 6/4
LIGHT YELLOWISH BROWN
PEBBLES + CORNICES

★ SAMPLE 1
SAMPLE 2

12-36"
20-30"

E19
SS

0-12" VERY DARK GRAYISH
BROWN 10 YR 3/2
SILT LOAM (ML-CL)

12"-54" DARK YELLOWISH BROWN
10 YR 4/4
SILTY CLAY LOAM (CL)

54" → COBBLES, Boulders
in SILTY CLAY
THEN
VERY HARD SANDY
TILL (SN) 10 YR 6/4
LIGHT YELLOWISH
BROWN

✓ SAMPLE 1
SAMPLE 2

20"-40"
30"-40"

PUB

6/15/88

E21
SS

0-28" BLACK 10 YR 2/1
SILT LOAM (ML-CL)

28"-90" MOTTLED 10 YR 5/6
YELLOWISH BROWN AND
10 YR 5/3 BROWN
SILTY CLAY LOAM
(CL)

90" → VERY HARD SANDY
LOAM TILL (CL-ML)
w/ COBBLES + Boulders
10 YR 6/4
LIGHT YELLOWISH
BROWN

✓ SAMPLE 1 36"-48"
SAMPLE 2 60"-84"

TRB

E23
S5

0-24" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

24"-60" DARK 10YR 4/4
YELLOWISH BROWN
SANDY CLAY LOAM (CL)

DISCONTINUOUS SAND
POCKETS AT 50"
PROBABLY WEATHERED Boulders

60" → SANDY Till (SM) 10YR 6/4
LIGHT YELLOWISH BROWN
PEBBLES TO Boulders

✓ SAMPLE 1 30"-45"
SAMPLE 2 36"-54"

6/15/88

E25
S5

0-24" VERY DARK GRAYISH BROWN
10YR 3/2
SILT LOAM (ML-CL)

24"-80" Dark Yellow BROWN
10YR 4/4
SILTY CLAY LOAM (CL)

80" → SANDY Till (SM)
7.5YR 4/6
STRONG BROWN

★ SAMPLE 1 30"-40"
★ SAMPLE 2 54"-74"

E25
S7

0-28" VERY DARK 10YR 3/3
GRAY SILT LOAM
(ML-CL)

28"-96" YELLOWISH 10YR 5/4
BROWN
SILTY CLAY LOAM
(CL)

96" → VERY FIRM
SANDY LOAM (SM)
LIGHT YELLOWISH BROWN
10YR 6/4

SAMPLE 1 36-46"
SAMPLE 2 75-96"

6/15/88

E23
S7

0-12" VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

12-72 DARK YELLOW/10YR 4/4
BROWN
SILTY CLAY LOAM
(CL)

72" → VERY HARD SAND (SM)
w/ PEBBLES
10YR 6/4

SAMPLE 1 20-32"
SAMPLE 2 60-72"

E21
S7

0-12"

10 YR 3/2

SILT Loam
(ML-CL)

12-36"

DARK 10 YR 4/4
YELLOWISH BROWN
SILTY CLAY Loam (CL)

36" →

SANDY Till Loam (SM)
w/ PEBBLES
10 YR 6/4
YELLOWISH BROWN

SAMPLE 1 12-24"
SAMPLE 2 24-36"

6/15/88

E19
S7

CLAY LAYER
LESS THAN 1" THICK

RNC2

NO SAMPLES TAKEN

E17
S7

CLAY LAYER
LESS THAN 1" THICK

RCCL

NO SAMPLES TAKEN.

E25
S9

0-16"

VERY DARK GRAYISH
BROWN 10 YR 3/2
SILT LOAM (ML-CL)

16-90"

DARK YELLOWISH BROWN
10 YR 4/4
SILTY CLAY LOAM (EL)

90"-

SANDY TILL VERY
FIRM (SM)
7.5 YR 4/6
STRONG BROWN

SAMPLE 1 18"-36"
SAMPLE 2 60"-84"

E3
57

LESS THAN 1 FOOT OF CLAY

NO SAMPLES TAKEN

E5
59

0-20' VERY DARK SILTY CLAY
10412 1/2 10413 1/2

20-60' DARK KELCOLORED CLAY
10414 1/4 10415 1/4
CLAY LOAM

60-120' BECOMES DARKER
W/ 1.5% S/L
SILTY CLAY LOAM

120'-* SOME SILTY CLAY
LOAM 10416 1/2 10417 1/2

SAMPLE 1 24'-36'
SAMPLE 2 36'-100'

E7
S7

0 - 16" VERY DARK GRAYISH BROWN
10% 3/2 SILT LOAM

16" - 60" VERY DARK 10% 4/4
GRAYISH BROWN CLAY
LOAM

60 - 120" MOTTLED GRAYISH
BROWN 10% 5/2 AND
75% 3/4
7.5% 5/6
SILT & CLAY LOAM

120" → SAND 4/4
REACHED STILL MOTTLED
AT BOTTOM OF P-

DEPT
PERM

★ SAMPLE 1
SAMPLE 2

24" - 46"
51" - 96"

E5
S7

0 - 22" VERY DARK GRAYISH
BROWN 10% 3/2 SILT
LOAM

22" - 57" DARK YELLOWISH
BROWN 10% 4/4
LOAM

(CONCRETE @ 72")
57" - 110" YELLOW BROWN
10% 5/4
SILT & CLAY
(INCREASING SILT WITH
DEPTH)

120" → SILTY CLAY LOAM AND
BOTTOM TILL AND
REACHED

SAMPLE
SAMPLE 1

24" - 36"
42" - 66"

E7
S15

0-64" BLACK 10YR 2/1
SILT LOAM

64" → 80" DARK Yellowish Brown
10YR 4/4
SANDY LOAM

80" → SANDY Till
10YR 5/4
Light brown color
10/0 color 10/0

NO SAMPLES TAKEN

1/11/11

1/11/11

E9
S7

0-14" VERY DARK GRAY 10YR 2/1
SILT LOAM

14"-38" DARK Yellowish Brown
10YR 4/4
CLAY LOAM

38" → LIGHT Yellow 10YR 7/4
Gravel SANDY Till

NO SAMPLES TAKEN

E23
S9

0-14" VERY 10 YR 3/2
DARK GRAYISH BROWN
SILT LOAM
(ML-CL)

14-64" DK. Yellow 10 YR 4/4
BROWN SILTY CLAY LOAM (CL)

64" →

VERY WEATHERED
BOULDERS THEN
SANDY TILL (SM)

SAMPLE 1 18"-30"
SAMPLE 2 50"-60"

6/15/88

E21
S9

0-9" VERY DK GRAY 10 YR 3/2
BROWN SILT LOAM
(ML-CL)

9"-38" DARK YELLOW 10 YR 4/4
BROWN
SILTY CLAY LOAM CL

38" →

LIGHT YELLOW BROWN
SANDY TILL (SM)
PEBBLES + COBBLES

SAMPLE 1 12-24"
SAMPLE 2 24-36"

E19
S9

0-9" Very dk Gray 10 YR 3/2
Brown Silty Loam
(ML-CL)

9-20" Dark Yellow 10 YR 4/4
Brown Silty Clay Loam
(CL)

20" → Sandy Till SM
w/ cobbles

RNC2

NO SAMPLES TAKEN

6/15/88

E17
S9

0-9" Very dk Gray 10 YR 3/2
Brown Silty Loam
(ML-CL)

9-20" Dark Yellow 10 YR 4/4
Brown Silty Clay Loam
(CL)

20" → Sandy Till w/ cobbles
SM

RNC2

NO SAMPLES TAKEN

E7
59

0-14" BLACK 104R 2/1

SILT CLAY

14"-48" DARK YELLOWISH BROWN
104R 7/4
SANDY CLAY LOAM

48" -> SAND SEAMS INTER-
WITH DEPTH
MOTTLED 75% 5/6
STRONG BROWN

PIT IN DRAINAGE WAY
RECEIVES ALLUVIAL
DEPOSITS

SAMPLE 1 18"-30"
SAMPLE L 30"-48"

27
511

0-24" VERY DARK GREY
BROWN 101R 2/2
SILT LOAM

24"-48" SANDY LOAM
DARK BROWN 151A

48" -> SANDY TILL w/
CORNER & PIECES
LIGHT YELLOWISH
BROWN 104R 1/4

In DRAINAGE WAY

NO SAMPLES TAKEN

E25
S11

0-12"

VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM (ML-CL)

12"-24"

DARK 10YR 4/4
YELLOWISH BROWN
SANDY CLAY LOAM (CL)

24" → 36"

DARK YELLOWISH 10YR 4/4
BROWN

SANDY CLAY LOAM
w/ pebbles + gravel

36" →

VERY 10YR 7/4
PALE BROWN
HARD SANDY TILL (SM)

NO SAMPLES TAKEN

6/15/88
E23
S11

0-12"

VERY DARK GRAYISH
BROWN 10YR 3/2
SILT LOAM
(ML-CL)

12-48"

DARK YELLOWISH BROWN 10YR 4/4
SANDY CLAY LOAM
(CL)

48" →

LIGHT YELLOWISH
BROWN 10YR 6/4
SANDY TILL - SANDIER
+ COBBLES (SM)
VERY HARD SAND AT
~ 60"

SAMPLE 1
SAMPLE 2

12-24"
30-45"

E21
S11

0-12"

VERY DARK 10YR 3/1
GRAY

SILT LOAM
(ML-CL)

12"-54"

DARK BROWN 10YR 4/4
SANDY CLAY LOAM
(SC)

54" →

LIGHT YELLOWISH BROWN
VERY HARD 10YR 6/4
SANDY TILL (SM)
w/ PEBBLES Boulders

SAMPLE 1 20-30
★ SAMPLE 2 30-50

E19
S11

0-12"

VERY DARK GRAYISH
BROWN 10YR 3/2

SILT LOAM (ML-CL)

12-30"

DARK YELLOWISH 10YR 4/4
BROWN

SANDY CLAY LOAM
(SC)

30" →

SANDY TILL (SM)
w/ COBBLES BOULDERS
10YR 6/4
LIGHT YELLOWISH
BROWN

No SAMPLES TAKEN

PRE-BID MEETING MINUTES

BID NO. 317040

PHASE 9, CELL 2 LINER AND STAGE 4 FINAL CAP CONSTRUCTION

DANE COUNTY LANDFILL SITE #2

7102 U.S. HIGHWAY 12 & 18, MADISON, WI

THURSDAY, FEBRUARY 25, 2018 @ 10:00 AM

- Introduction – sign in
- Description of Work
 - Stage 4 Final Capping: all waste removal (if necessary), earthwork, geosynthetics, and restoration.
 - Verify quantities by survey (i.e. waste removal).
 - Approximate number of surface penetrations. Bidder responsible for verifying quantities.

Item	Pipe Size	Unit	Quantity
Gas Extraction Wells (Sheet 14, Detail 3)	8" and 4"	Each	11
Leachate Collection Cleanout Pipe (Sheet 13, Detail 4)	6"	Each	18
Leachate Headwell (similar to Sheet 14, Detail 2 and Sheet 13, Detail 4)			
Vertical Headwell	4"	Each	2
Horizontal Headwell	4"	Each	2
Geomembrane Apron for Side Slope Riser Vault (Sheet 8, Detail 3)	See Detail	Each	4
Gas Header Valve Pipe Boot (Sheet 14, Detail 1)	2"	Each	10
Leachate Recirculation Lines (similar to Sheet 14, Detail 3)	4"	Each	3
Downslope Flume (Sheet 15, Detail 3)	12' x 10'	Each	2

- Phase 9, Cell 2: all earthwork, geosynthetics, and restoration.
- Westport Clay Borrow Site: all earthwork, clay removal and hauling, and restoration.
 - Overburden soil: See added Appendix G for soil boring location map and boring logs.
- Material Sourcing (i.e. fine-grained material, clay, etc.)
 - Fine-grained soil (Stage 4 Final Cap)
 - County will entertain alternative sources of clay (Phase 9, Cell 2). Contractor to state if source is already approved by WDNR or if WDNR approval is required.
 - WDNR process: sampling → analysis → submittal → approval, total process takes approximately 2 months.
- Construction schedule
 - Commencement: March 26, 2018

- Substantial Completion: September 7, 2018 (Stage 4 Final Cap and Westport Site)
October 19, 2018 (Phase 9, Cell 2 Liner)

NOTE: Liquidated damages and incentive payment in Sample Construction Contract

- Bid Opening on Thursday, February 8, 2018 at 2:00 p.m. at Public Works office, 1919 Alliant Energy Center Way, Madison WI 53713
- Plans, Specifications, and Addenda available on the Dane County Public Works website (bids-pwht.countyofdane.com) for free download.
- Addenda
 - Addendum No. 1 will address discrepancy in table elevations and drawing contours.
 - Timeline for questions – last day to submit is January 29, 2018
- Dane County Protocol
 - General conditions of the contract, general requirements of the project.
 - ESB
 - BVC
 - Equal Partner Benefits
 - Payments, retainage, etc.
 - **Payment: If over \$10,000, payment takes approximately 45 days**
 - **Retainage: County typically retains 5% for first half**
- Include with bid:
 - Signed Bid Form – acknowledge all addenda
 - Fair Labor Practices Certification form
 - 5% Bid Bond
- Before award:
 - Submittals on proposed substitutions
 - Must be a *paid registered vendor* with Dane County
 - www.danepurchasing.com
 - 608/266-4131
- Submittals required once contract is awarded
 - Insurance with “Dane County” listed as additional insured
 - 100% Performance/Payment Bond are required
 - Subcontractors list including fax, phone, and email
 - Signed NTP
 - Product data, including any substitutions
 - Schedule of values and AIA Pay Request Form
- Or equal clause
 - Substitutions will be reviewed prior to Bid Opening if received 10 days before Bid Opening
 - Decisions on submittals made later than 10 days prior to Bid Opening may not be made prior to Bid Opening.
- Work by Owner: Soil borrow source application to WDNR, native planting topsoil preparation (outlined in Instructions to Bidders, Page 8).

- County to provide direct shear testing
- Must comply with City of Madison Noise Ordinance (24.08) – Construction noise allowed between 7 AM – 7 PM Monday thru Saturday and 10 AM - 7 PM on Sunday.
 - County will provide awarded Contractor with gate key.
- Parking and storage is available on site
- Project security/safety – public, traffic, methane, other construction (biogas facility, etc.).
 - Contractor to provide dumpster for geomembrane.
 - Contractor can dispose of waste into the landfill at no charge.
 - No smoking.
 - Be respectful to public (i.e. no swearing, etc.).
- Questions on procedure or requirements
 - County does have a lull forklift on-site.
 - Submit additional questions to John Welch.
- Site tour

PRE-BID MEETING ATTENDANCE SHEET

BID NO. 317040

PHASE 9, CELL 2 LINER AND STAGE 4 FINAL CAP CONSTRUCTION

DANE COUNTY LANDFILL SITE #2

7102 U.S HIGHWAY 12 & 18, MADISON, WI

THURSDAY, FEBRUARY 25, 2018 @ 10:00 AM

NAME	COMPANY	PHONE	E-MAIL
Mike Mulqueen	Edgerton Construction	414-764-4443	mm@edgerton.us
Jerry Martin	Zenere Excavating	708-878-8757	jerry@zenerecompanies.com
Luke Lazare	Integrity Grading & Excavating	715-370-2242	luke@integrityge.com
Jesse Turner	River View Construction	715-675-3117	jesse@riverview-construction.com
Mark Downs	Geo-Synthetics, LLC	262-366-5570	markd@geo-synthetics.com
Wayne Scheerer	Geo-Synthetics, LLC	262-548-5812	waynes@geo-synthetics.com
Paul Church	James Peterson Sons	715-965-3595	Paul.church@jpsbp.com
Brian Steinke	RG. Huston Co.	608-209-9606	bsteinke@rghuston.com
Gus Pfeiffer	Relyco Inc.	920-983-9040	gusrelyco@gmail.com

REVISED 1/31/18
per Addendum #1

SECTION 00300
BID FORM (LUMP SUM)

TO: Dane County Department of Public Works – Solid Waste Division
1919 Alliant Energy Center Way
Madison, Wisconsin 53713

FOR: Dane County No. 2 (Rodefild) Landfill
Phase 9 – Cell 2 Liner and Landfill Stage 4 Final Cover Construction

BID FROM: _____

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for ninety (90) days after the day of Bid opening. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within ten (10) days after the date of Owner's Notice of Award.

3. In the event there is a disagreement related to the volume of soil handled on site for this project, Dane County will have their surveyor verify quantities based on a before and after survey of the ground surface where the soils were removed.

4. In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

(a) Bidder has examined copies of all the Bidding Documents and of the following Addenda receipt of all which is hereby acknowledged: (List addenda by Addendum Number and Date)

Date	Number
_____	_____
_____	_____
_____	_____

(b) Bidder has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work;

(c) Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance, and furnishing of the Work;

(d) Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in the Supplementary Conditions. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purpose. Bidder acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect

to Underground Facilities at or contiguous to the site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site or otherwise which may affect cost progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.

(e) Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.

(f) Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

(g) Bidder has given Owner/Engineer written notice of all conflicts, errors, ambiguities or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by Owner/Engineer is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

(h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm, or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

BID FORM
PHASE 9 – CELL 2 LINER AND STAGE 4 FINAL COVER CONSTRUCTION

5. Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Refer to Section 01270 “Schedule of Values and Payment” for description of Work for each bid item identified below.

ITEM	SCHEDULE OF VALUE DESCRIPTION	UNITS	ESTIMATED QUANTITY	UNIT PRICE	SCHEDULE OF VALUE PRICE
1	Mobilization	LS	1		
2	Surveying	LS	1		
3	Sediment Control		-----		
	• Sediment Control Fence	LF	4,000		
	• Sediment Control Fence with Erosion Logs	LF	3,000		
	• Stone Weepers at Culvert Outlets	EA	2		
4	Erosion Control and Revegetation Mat	LS	1		
PHASE 9 – CELL 2 LINER CONSTRUCTION					
5	Clear and Grub	LS	1		
6	Subbase Grade Construction		-----		
	• Estimated Cut Volume ⁽¹⁾⁽²⁾⁽³⁾	CY	25,300		
	• Estimated Fill Volume ⁽¹⁾⁽²⁾⁽³⁾	CY	670		
7	Groundwater Gradient Control System	LS	1		
8	Select Clay Fill ⁽¹⁾ (Owner Furnished Material from Westport Borrow Site)				
	Clay from on-site Stockpiles ⁽¹⁾⁽²⁾⁽³⁾	CY	8,750		
	Clay from off-site (Westport borrow source) ⁽¹⁾⁽²⁾⁽³⁾	CY	18,150		
	• Topsoil Stripping and Stockpiling	CY	9,000		
	• Topsoil Placement and Borrow Site Restoration	AC	4		
9	Geomembrane Surface Preparation	LS	1		
10	60 mil Geomembrane (Textured)	SY	20,800		
11	Geotextile Cushion	SY	20,800		
12	Select Aggregate Fill Drainage Layer ⁽¹⁾	CY	6,900		
13	Delineation Berms	LF	317		
14	Perforated HDPE Leachate Pipe	LF	620		
15	Electrical Resistivity Testing Assistance	LS	1		
16	Removal of Existing HDPE Culvert	LS	1		
LANDFILL STAGE 4 – FINAL COVER CONSTRUCTION					
17	General Fill, Fine-Grained Soil and Topsoil Excavation to Subgrade and Prepare Grading Layer for Fine-Grained Soil Barrier Layer Placement ⁽⁴⁾⁽⁵⁾	CY	116,900		
18	Waste Excavation and Disposal ⁽⁴⁾	CY	7,800		
19	Compacted Fine-Grained Soil Barrier Layer ⁽⁴⁾ (Owner Furnished Material)	CY	38,000		
20	Compacted Fine-Grained Soil Barrier Layer ⁽⁴⁾ (Contractor Furnished Material)	CY	18,000		

ITEM	SCHEDULE OF VALUE DESCRIPTION	UNITS	ESTIMATED QUANTITY	UNIT PRICE	SCHEDULE OF VALUE PRICE
21	Geosynthetic Clay Liner (GCL) (Owner Furnished Material)	SY	27,000		
22	Geosynthetic Clay Liner (GCL) (Contractor Furnished Material)	SY	59,570		
23	40 mil LLDPE Textured Geomembrane (Owner Furnished Material)	SY	26,475		
24	40 mil LLDPE Textured Geomembrane (Contractor Furnished Material)	SY	60,095		
25	Geocomposite Drainage Layer (Owner Furnished Material)	SY	30,385		
26	Geocomposite Drainage Layer (Contractor Furnished Material)	SY	56,185		
27	General Fill Rooting Zone Layer ⁽⁴⁾ (Owner Furnished Material)	CY	70,000		
28	Topsoil Layer ⁽⁴⁾ (Owner Furnished Material)	CY	14,000		
29	Drainage Layer Toe Drain Collection Pipes	LF	2,117		
30	Diversion Berm Drainage Layer Collection Pipes	LF	2,633		
31	Toe Drain Drainage Layer Discharge Pipes	EA	12		
32	Diversion Berm Drainage Layer Discharge Pipes	EA	13		
33	Permanent Surface Water Diversion Berms	LF	2,633		
34	Temporary Surface Water Diversion Berms	LF	590		
35	Downslope Flume Pipes and Energy Dissipater Structures	EA	2		
36	Geomembrane Boots Around Existing Gas and Leachate Collection System Penetrations Through the Final Cover Geomembrane	LS	1		
TOTAL:					

Notes:

- (1) The quantity is the volume of material needed for liner construction and is based on in-place volume with no consideration for haul losses, shrinkage, or compaction.
- (2) The cut and fill volumes are based on a topography map develop from a ground survey performed on December 20, 2017 for the Phase 9 – Cell 2 construction area.
- (3) Quantity calculated to the top of existing ground (includes topsoil).
- (4) The quantity is the volume of material needed for final cover construction and is based on in-place volume with no consideration for haul losses, shrinkage, or compaction.
- (5) The cut volume is based on topography map develop from a ground survey performed on November 16, 2017 for the Stage 4 construction area.

NOTE: WISCONSIN STATUTE 77.54 (9M) ALLOWS FOR NO SALES & USE TAX ON THE PURCHASE OF MATERIALS FOR COUNTY PUBLIC WORKS PROJECTS.

TOTAL LUMP SUM PRICE:

_____ (\$ _____)
(use words)

Note: Contractor is responsible for determining that all costs to complete the Work in accordance with the Contract Documents are included in the TOTAL of the Bid Form and in the TOTAL LUMP SUM PRICE.

(Unit Prices have been computed in accordance with paragraph 10.06 of the General Conditions)

Bidder is required to complete the Estimated Quantities in the Bid Form that are blank based on the bidding documents, review of Information Available to Bidders, site visits and investigations. Refer to Section 01270 (Schedule of Values and Payment) for descriptions of Schedule of Value items.

TOTAL UNIT OF PRICES (BASE BID): _____ (\$_____) (use words)

6. Bidder will complete the Work for the following add or deduct prices from the lump sum price, if directed by the Owner (refer to Specification Section 01310 Subpart 1.7 (Administrative Provisions) for Alternative descriptions:

LANDFILL STAGE 4 FINAL COVER ALTERNATE BID ITEMS					
ITEM NO.	ITEM OF WORK	ESTIMATED QUANTITY	UNITS	UNIT PRICE	TOTAL ESTIMATED COST
1A	General Fill Rooting Zone Layer (Contractor Furnished Material)	70,000	CY		
2A	Topsoil Layer (Contractor Furnished Material)	14,000	CY		
3A	Topsoil Layer (From Owners Borrow Source)	5,000	CY		

7. Bidder agrees that the Work will be substantially complete and completed and ready for final payment in accordance with the Contract Documents on or before the dates or within the number of calendar days indicated in the Sample Construction Contract.

- Dane County Public Works Solid Waste Division must have final completion of the Stage 4 Final Cap Construction by September 14, 2018.
Assuming this Work can be started by April 2, 2018, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

- Dane County Public Works Solid Waste Division must have final completion of the West Port Clay Borrow Site by September 14, 2018.
Assuming this Work can be started by April 2, 2018, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

- Dane County Public Works Solid Waste Division must have final completion of the Phase 9 – Cell 2 Liner Construction by November 9, 2018.
Assuming this Work can be started by April 2, 2018, what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

8. The following documents are attached to and made a condition of this Bid:

- (a) Required 5 Percent Bid Security in the form of _____ (attached as Exhibit A). If Bid Security is in the form of a Bid Bond, the sample Bid Bond provided can be used or another Bid Bond form containing the same information as the sample Bid Bond.
- (b) Fair Labor Practices Certification

9. The terms used in this Bid, which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents, have the meanings assigned to them in the General Conditions.

10. Bid submittal:

I have examined and carefully prepared this Bid from the associated Construction Documents and have checked the same in detail before submitting this Bid; that I have full authority to make such statements and submit this Bid in (its) (their) (my) behalf; and that the said statements are true and correct. In signing this Bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; that this Bid has not been knowingly disclosed prior to the Bids Due Date to another bidder or competitor; that the above statement is accurate under penalty of perjury.

Bidder: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.) _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

(where applicable)

- **THIS PAGE IS FOR BIDDERS' REFERENCE AND NEED NOT BE SUBMITTED WITH BID FORM.**

- **BID CHECK LIST:**

These items **must** be included with Bid:

- ☐ Bid Form ☐ Bid Bond ☐ Fair Labor Practices Certification

- **BIDDERS SHOULD BE AWARE OF THE FOLLOWING:**

- **DANE COUNTY VENDOR REGISTRATION PROGRAM**

Any person bidding on any County Contract must be registered with the Dane County Purchasing Division & pay an annual registration fee. A Contract will not be awarded to an unregistered vendor. Obtain a *Vendor Registration Form* by calling 608/266-4131 or complete a new form or renewal online at:
www.danepurchasing.com/registration

- **DANE COUNTY BEST VALUE CONTRACTING PRE-QUALIFICATION**

Contractors must be pre-qualified as a Best Value Contractor with the Dane County Public Works Engineering Division before the award of Contract. Obtain a *Best Value Contracting Application* by calling 608/266-4018 or complete one online at:
www.countyofdane.com/pwht/BVC_Application.aspx

- **EQUAL BENEFITS REQUIREMENT**

By submitting a Bid, the Contractor acknowledges that a condition of this Contract is to provide equal benefits as required by Dane County Code of Ordinances Chapter 25.016. Contractor shall provide equal benefits as required by that Ordinance to all required employees during the term of the Contract. Equal Benefits Compliance Payment Certification shall be submitted with final pay request. For more information:
www.danepurchasing.com/partner_benefit.aspx

EXHIBIT A
BID SECURITY

BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

BID

Bid Due Date:

Description (*Project Name— Include Location*):

BOND

Bond Number:

Date:

Penal sum _____ \$ _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER

SURETY

Bidder's Name and Corporate Seal

Surety's Name and Corporate Seal

By: _____
Signature

By: _____
Signature (Attach Power of Attorney)

Print Name

Print Name

Title

Title

Attest: _____
Signature

Attest: _____
Signature

Title

Title

Note: Addresses are to be used for giving any required notice.

Provide execution by any additional parties, such as joint venturers, if necessary.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible Bidder that submitted a responsive Bid as determined by Owner for the work required by the Contract Documents, provided that:

- 1.1 If there is no such next Bidder, and Owner does not abandon the Project, then Bidder and Surety shall pay to Owner the penal sum set forth on the face of this Bond, and
- 1.2 In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the face of this Bond.
- 1.3 Recovery under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

- 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
- 3.2 All Bids are rejected by Owner, or
- 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

EXHIBIT B
FAIR LABOR PRACTICES CERTIFICATION

FAIR LABOR PRACTICES CERTIFICATION

The undersigned, for and on behalf of the BIDDER, APPLICANT or PROPOSER named herein, certifies as follows:

- A. That he or she is an officer or duly authorized agent of the above-referenced BIDDER, APPLICANT or PROPOSER, which has a submitted a bid, application or proposal for a contract or agreement with the county of Dane.
- B. That BIDDER, APPLICANT or PROPOSER has (check one):

_____ not been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

_____ been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

Officer or Authorized Agent Signature

Date

Printed or Typed Name and Title

Printed or Typed Business Name

NOTE: You can find information regarding the violations described above at: www.nlr.gov and werc.wi.gov.

For reference, Dane County Ordinance 25.11(28)(a) is as follows:

(28) BIDDER RESPONSIBILITY. (a) Any bid, application or proposal for any contract with the county, including public works contracts regulated under chapter 40, shall include a certification indicating whether the bidder has been found by the National Labor Relations Board (NLRB) or the Wisconsin Employment Relations Committee (WERC) to have violated any statute or regulation regarding labor standards or relations within the last seven years. The purchasing manager shall investigate any such finding and make a recommendation to the committee, which shall determine whether the conduct resulting in the finding affects the bidder's responsibility to perform the contract.

If you indicated that the NLRB or WERC have found you to have such a violation, you must include copies of any relevant information regarding such violation with your proposal, bid or application.

Include this completed Certification with your bid, application or proposal.

Table 1
Summary of Coordinates
Stage 4 Final Cover
Dane County No. 2 (Rodefild) Landfill

ORIGINAL ID NO.	COORDINATES		TOP OF WASTE		TOP OF FINE-GRAINED BARRIER LAYER		BARRIER LAYER (2' min.)	TOP OF GENERAL FILL ROOTING ZONE LAYER		GENERAL FILL (2.5' min.)	TOP OF TOPSOIL LAYER (Final Cover)		TOPSOIL LAYER (0.5' min.)	COMMENTS
	NORTHING	EASTING	DESIGN (ft)	ACTUAL (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	
LOCATION OF EXISTING FINAL COVER - TIE-IN OF THE STAGE 3 CONSTRUCTION														
3427	381950.03	2198320.03	N/A	N/A	N/A	980.11								POINTS DOCUMENTED AS PART OF THE STAGE
3429	381999.96	2198320.00	N/A	N/A	N/A	982.18								
3430	382100.06	2198320.01	N/A	N/A	N/A	965.30								
3431	382200.02	2198320.01	N/A	N/A	N/A	945.43								
3432	382300.02	2198319.98	N/A	N/A	N/A	921.40								
3433	382399.96	2198320.03	N/A	N/A	N/A	898.97								
3434	382439.29	2198319.95	N/A	N/A	N/A	891.62								
3462	381795.00	2197493.95	N/A	N/A	N/A	890.40								
3463	381815.87	2197514.67	N/A	N/A	N/A	894.94								
3464	381850.97	2197557.70	N/A	N/A	N/A	907.00								
3465	381875.85	2197593.82	N/A	N/A	N/A	914.63								
3466	381900.99	2197632.18	N/A	N/A	N/A	921.88								
3467	381920.83	2197653.01	N/A	N/A	N/A	926.64								
3468	381927.10	2197660.80	N/A	N/A	N/A	927.71								
3471	381943.67	2197715.91	N/A	N/A	N/A	935.20								
3472	381942.55	2197763.63	N/A	N/A	N/A	939.77								
3475	381941.46	2197819.24	N/A	N/A	N/A	944.45								
3476	381941.28	2197875.80	N/A	N/A	N/A	947.72								
3479	381937.66	2197939.73	N/A	N/A	N/A	950.30								
3480	381938.80	2198001.11	N/A	N/A	N/A	953.94								
3483	381939.46	2198065.93	N/A	N/A	N/A	958.35								
3484	381941.98	2198122.66	N/A	N/A	N/A	962.90								
3487	381943.84	2198178.53	N/A	N/A	N/A	968.23								
3488	381944.70	2198234.33	N/A	N/A	N/A	972.61								
3491	381947.16	2198285.28	N/A	N/A	N/A	976.72								
3492	381949.77	2198319.87	N/A	N/A	N/A	979.89								
STAGE 4 FINAL COVER CONSTRUCTION COORDINATES AND ELEVATIONS														
1	381794.75	2197494.96	888.33		890.33			892.83			893.33			Grid Location
15	381800.00	2197500.00	889.86		891.86			894.36			894.86			Grid Location
16	381767.78	2197600.00	888.33		890.33			892.83			893.33			Grid Location
17	381800.00	2197600.00	896.13		898.13			900.63			901.13			Grid Location
18	381871.77	2197600.00	913.51		915.51			918.01			918.51			Grid Location
39	381900.00	2197700.00	926.53		928.53			931.03			931.53			Grid Location
40	381800.00	2197700.00	902.32		904.32			906.82			907.32			Grid Location
41	381742.22	2197700.00	888.33		890.33			892.83			893.33			Grid Location
42	381716.67	2197800.00	888.33		890.33			892.83			893.33			Grid Location
43	381800.00	2197800.00	908.54		910.54			913.04			913.54			Grid Location
44	381900.00	2197800.00	932.77		934.77			937.27			937.77			Grid Location
45	381911.27	2197800.00	935.50		937.50			940.00			940.50			Grid Location
56	381926.38	2197900.00	945.65		947.65			950.15			950.65			Grid Location
57	381900.00	2197900.00	939.10		941.10			943.60			944.10			Grid Location
58	381885.53	2197900.00	935.50		937.50			940.00			940.50			Grid Location

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Stage 4 Final Cover
Dane County No. 2 (Rodefild) Landfill

ORIGINAL ID NO.	COORDINATES		TOP OF WASTE		TOP OF FINE-GRAINED BARRIER LAYER		BARRIER LAYER (2' min.)	TOP OF GENERAL FILL ROOTING ZONE LAYER		GENERAL FILL (2.5' min.)	TOP OF TOPSOIL LAYER (Final Cover)		TOPSOIL LAYER (0.5' min.)	COMMENTS
	NORTHING	EASTING	DESIGN (ft)	ACTUAL (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	
59	381800.00	2197900.00	914.77		916.77			919.27			919.77			Grid Location
60	381700.00	2197900.00	890.53		892.53			895.03			895.53			Grid Location
61	381691.11	2197900.00	888.38		890.38			892.88			893.38			Grid Location
62	381665.55	2198000.00	888.82		890.82			893.32			893.82			Grid Location
63	381700.00	2198000.00	897.12		899.12			901.62			902.12			Grid Location
64	381800.00	2198000.00	921.21		923.21			925.71			926.21			Grid Location
65	381859.31	2198000.00	935.50		937.50			940.00			940.50			Grid Location
66	381900.00	2198000.00	945.49		947.49			949.99			950.49			Grid Location
83	381914.84	2198100.00	955.43		957.43			959.93			960.43			Grid Location
84	381900.00	2198100.00	951.98		953.98			956.48			956.98			Grid Location
85	381831.61	2198100.00	935.50		937.50			940.00			940.50			Grid Location
86	381800.00	2198100.00	927.88		929.88			932.38			932.88			Grid Location
87	381700.00	2198100.00	903.79		905.79			908.29			908.79			Grid Location
88	381639.99	2198100.00	889.33		891.33			893.83			894.33			Grid Location
89	381614.43	2198200.00	889.85		891.85			894.35			894.85			Grid Location
90	381700.00	2198200.00	910.47		912.47			914.97			915.47			Grid Location
91	381800.00	2198200.00	934.56		936.56			939.06			939.56			Grid Location
92	381886.92	2198200.00	955.50		957.50			960.00			960.50			Grid Location
93	381928.43	2198200.00	965.50		967.50			970.00			970.50			Grid Location
113	381900.00	2198300.00	965.32		967.32			969.82			970.32			Grid Location
114	381776.21	2198300.00	935.50		937.50			940.00			940.50			Grid Location
115	381700.00	2198300.00	917.14		919.14			921.64			922.14			Grid Location
116	381600.00	2198300.00	893.05		895.05			897.55			898.05			Grid Location
117	381588.87	2198300.00	890.37		892.37			894.87			895.37			Grid Location
118	381563.32	2198400.00	890.88		892.88			895.38			895.88			Grid Location
119	381600.00	2198400.00	899.72		901.72			904.22			904.72			Grid Location
120	381700.00	2198400.00	923.81		925.81			928.31			928.81			Grid Location
121	381800.00	2198400.00	947.91		949.91			952.41			952.91			Grid Location
122	381900.00	2198400.00	972.00		974.00			976.50			977.00			Grid Location
123	381957.29	2198400.00	985.50		987.50			990.00			990.50			Grid Location
124	382000.00	2198400.00	986.66		988.66			991.16			991.66			Grid Location
125	382045.53	2198400.00	985.50		987.50			990.00			990.50			Grid Location
126	382100.00	2198400.00	972.94		974.94			977.44			977.94			Grid Location
127	382200.00	2198400.00	948.03		950.03			952.53			953.03			Grid Location
128	382300.00	2198400.00	923.12		925.12			927.62			928.12			Grid Location
129	382400.00	2198400.00	898.21		900.21			902.71			903.21			Grid Location
130	382444.67	2198400.00	887.08		889.08			891.58			892.08			Grid Location
131	382451.12	2198500.00	887.58		889.58			892.08			892.58			Grid Location
132	382400.00	2198500.00	900.32		902.32			904.82			905.32			Grid Location
133	382300.00	2198500.00	925.23		927.23			929.73			930.23			Grid Location
134	382200.00	2198500.00	950.14		952.14			954.64			955.14			Grid Location
135	382138.34	2198500.00	965.50		967.50			970.00			970.50			Grid Location
136	382100.00	2198500.00	975.05		977.05			979.55			980.05			Grid Location
137	382000.00	2198500.00	991.05		993.05			995.55			996.05			Grid Location

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Stage 4 Final Cover
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ORIGINAL ID NO.	COORDINATES		TOP OF WASTE		TOP OF FINE-GRAINED BARRIER LAYER		BARRIER LAYER (2' min.)	TOP OF GENERAL FILL ROOTING ZONE LAYER		GENERAL FILL (2.5' min.)	TOP OF TOPSOIL LAYER (Final Cover)		TOPSOIL LAYER (0.5' min.)	COMMENTS
	NORTHING	EASTING	DESIGN (ft)	ACTUAL (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	
138	381900.00	2198500.00	978.67		980.67			983.17			983.67			Grid Location
139	381800.00	2198500.00	954.58		956.58			959.08			959.58			Grid Location
140	381700.00	2198500.00	930.49		932.49			934.99			935.49			Grid Location
141	381600.00	2198500.00	906.39		908.39			910.89			911.39			Grid Location
142	381537.76	2198500.00	891.40		893.40			895.90			896.40			Grid Location
143	381512.20	2198600.00	891.91		893.91			896.41			896.91			Grid Location
144	381600.00	2198600.00	913.07		915.07			917.57			918.07			Grid Location
145	381700.00	2198600.00	937.16		939.16			941.66			942.16			Grid Location
146	381800.00	2198600.00	961.25		963.25			965.75			966.25			Grid Location
147	381900.00	2198600.00	985.35		987.35			989.85			990.35			Grid Location
148	381975.00	2198600.00	995.10		997.10			999.60			1000.10			Grid Location
149	382000.00	2198600.00	993.48		995.48			997.98			998.48			Grid Location
150	382066.52	2198600.00	985.50		987.50			990.00			990.50			Grid Location
151	382100.00	2198600.00	977.16		979.16			981.66			982.16			Grid Location
152	382200.00	2198600.00	952.25		954.25			956.75			957.25			Grid Location
153	382300.00	2198600.00	927.34		929.34			931.84			932.34			Grid Location
154	382400.00	2198600.00	902.43		904.43			906.93			907.43			Grid Location
155	382457.57	2198600.00	888.09		890.09			892.59			893.09			Grid Location
156	382464.02	2198700.00	888.59		890.59			893.09			893.59			Grid Location
157	382400.00	2198700.00	904.53		906.53			909.03			909.53			Grid Location
158	382300.00	2198700.00	929.44		931.44			933.94			934.44			Grid Location
159	382200.00	2198700.00	954.36		956.36			958.86			959.36			Grid Location
160	382100.00	2198700.00	979.27		981.27			983.77			984.27			Grid Location
161	382058.90	2198700.00	989.50		991.50			994.00			994.50			Grid Location
162	382000.00	2198700.00	993.32		995.32			997.82			998.32			Grid Location
163	381973.04	2198700.00	995.10		997.10			999.60			1000.10			Grid Location
164	381900.00	2198700.00	990.35		992.35			994.85			995.35			Grid Location
165	381890.56	2198700.00	989.74		991.74			994.24			994.74			Grid Location
166	381800.00	2198700.00	967.93		969.93			972.43			972.93			Grid Location
167	381700.00	2198700.00	943.83		945.83			948.33			948.83			Grid Location
168	381600.00	2198700.00	919.74		921.74			924.24			924.74			Grid Location
169	381500.00	2198700.00	895.65		897.65			900.15			900.65			Grid Location
170	381486.64	2198700.00	892.43		894.43			896.93			897.43			Grid Location
171	381461.08	2198800.00	892.94		894.94			897.44			897.94			Grid Location
172	381500.00	2198800.00	902.32		904.32			906.82			907.32			Grid Location
173	381600.00	2198800.00	926.41		928.41			930.91			931.41			Grid Location
174	381700.00	2198800.00	950.51		952.51			955.01			955.51			Grid Location
175	381800.00	2198800.00	974.60		976.60			979.10			979.60			Grid Location
176	381854.76	2198800.00	987.79		989.79			992.29			992.79			Grid Location
177	381900.00	2198800.00	990.70		992.70			995.20			995.70			Grid Location
178	381965.20	2198800.00	995.10		997.10			999.60			1000.10			Grid Location
179	382000.00	2198800.00	992.75		994.75			997.25			997.75			Grid Location
180	382073.58	2198799.28	987.94		989.94			992.44			992.94			Grid Location
181	382100.00	2198800.00	981.37		983.37			985.87			986.37			Grid Location

Table 1
Summary of Coordinates
Stage 4 Final Cover
Dane County No. 2 (Rodefild) Landfill

ORIGINAL ID NO.	COORDINATES		TOP OF WASTE		TOP OF FINE-GRAINED BARRIER LAYER		BARRIER LAYER (2' min.)	TOP OF GENERAL FILL ROOTING ZONE LAYER		GENERAL FILL (2.5' min.)	TOP OF TOPSOIL LAYER (Final Cover)		TOPSOIL LAYER (0.5' min.)	COMMENTS
	NORTHING	EASTING	DESIGN (ft)	ACTUAL (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	
182	382200.00	2198800.00	956.46		958.46			960.96			961.46			Grid Location
183	382300.00	2198800.00	931.55		933.55			936.05			936.55			Grid Location
184	382400.00	2198800.00	906.64		908.64			911.14			911.64			Grid Location
185	382470.46	2198800.00	889.09		891.09			893.59			894.09			Grid Location
186	382476.90	2198899.74	889.59		891.59			894.09			894.59			Grid Location
187	382400.00	2198900.00	908.58		910.58			913.08			913.58			Grid Location
188	382300.00	2198900.00	933.37		935.37			937.87			938.37			Grid Location
189	382200.00	2198900.00	958.46		960.46			962.96			963.46			Grid Location
190	382100.00	2198900.00	983.48		985.48			987.98			988.48			Grid Location
191	382088.49	2198900.00	986.35		988.35			990.85			991.35			Grid Location
192	382000.00	2198900.00	992.23		994.23			996.73			997.23			Grid Location
193	381957.35	2198900.00	995.10		997.10			999.60			1000.10			Grid Location
194	381900.00	2198900.00	991.23		993.23			995.73			996.23			Grid Location
195	381818.85	2198900.00	985.83		987.83			990.33			990.83			Grid Location
196	381800.00	2198900.00	981.29		983.29			985.79			986.29			Grid Location
197	381700.00	2198900.00	957.32		959.32			961.82			962.32			Grid Location
198	381600.00	2198900.00	933.38		935.38			937.88			938.38			Grid Location
199	381500.00	2198900.00	909.41		911.41			913.91			914.41			Grid Location
200	381437.51	2198900.00	893.99		895.99			898.49			898.99			Grid Location
486	381432.06	2198919.95	894.02		896.02			898.52			899.02			End of Composite Final Cover Construction
487	381500.00	2198919.95	910.87		912.87			915.37			915.87			End of Composite Final Cover Construction
488	381600.00	2198919.95	934.89		936.89			939.39			939.89			End of Composite Final Cover Construction
489	381700.00	2198919.95	958.92		960.92			963.42			963.92			End of Composite Final Cover Construction
490	381800.00	2198919.95	982.78		984.78			987.28			987.78			End of Composite Final Cover Construction
491	381810.71	2198919.95	985.23		987.23			989.73			990.23			End of Composite Final Cover Construction
492	381900.00	2198919.95	991.61		993.61			996.11			996.61			End of Composite Final Cover Construction
493	381955.79	2198919.95	994.91		996.91			999.41			999.91			End of Composite Final Cover Construction
494	382000.00	2198919.95	992.41		994.41			996.91			997.41			End of Composite Final Cover Construction
495	382091.31	2198919.95	986.04		988.04			990.54			991.04			End of Composite Final Cover Construction
496	382100.00	2198919.95	983.90		985.90			988.40			988.90			End of Composite Final Cover Construction
497	382200.00	2198919.95	958.83		960.83			963.33			963.83			End of Composite Final Cover Construction
498	382300.00	2198919.95	933.72		935.72			938.22			938.72			End of Composite Final Cover Construction
499	382400.00	2198919.95	908.95		910.95			913.45			913.95			End of Composite Final Cover Construction
500	382478.20	2198919.95	888.98		890.98			893.48			893.98			End of Composite Final Cover Construction
501	381429.58	2198928.95	893.81		895.81			898.31			898.81			End of Geosynthetic Liner System
502	381500.00	2198928.95	911.54		913.54			916.04			916.54			End of Geosynthetic Liner System
503	381600.00	2198928.95	935.54		937.54			940.04			940.54			End of Geosynthetic Liner System
504	381700.00	2198928.95	959.57		961.57			964.07			964.57			End of Geosynthetic Liner System
505	381800.00	2198928.95	983.48		985.48			987.98			988.48			End of Geosynthetic Liner System
506	381807.04	2198928.95	984.79		986.79			989.29			989.79			End of Geosynthetic Liner System
507	381900.00	2198928.95	991.66		993.66			996.16			996.66			End of Geosynthetic Liner System
508	381955.08	2198928.95	994.44		996.44			998.94			999.44			End of Geosynthetic Liner System
509	382000.00	2198928.95	992.37		994.37			996.87			997.37			End of Geosynthetic Liner System
510	382092.59	2198928.95	985.90		987.90			990.40			990.90			End of Geosynthetic Liner System

Table 1
Summary of Coordinates
Stage 4 Final Cover
Dane County No. 2 (Rodefild) Landfill

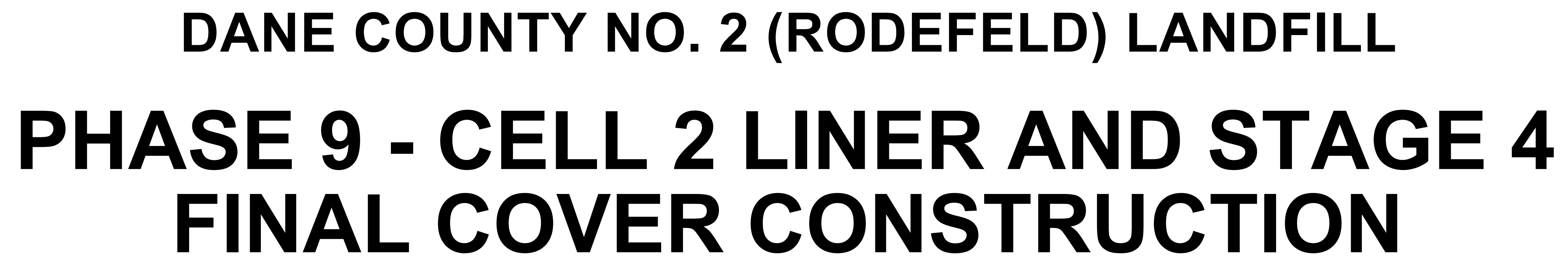
ORIGINAL ID NO.	COORDINATES		TOP OF WASTE		TOP OF FINE-GRAINED BARRIER LAYER		BARRIER LAYER (2' min.)	TOP OF GENERAL FILL ROOTING ZONE LAYER		GENERAL FILL (2.5' min.)	TOP OF TOPSOIL LAYER (Final Cover)		TOPSOIL LAYER (0.5' min.)	COMMENTS
	NORTHING	EASTING	DESIGN (ft)	ACTUAL (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	DESIGN (ft)	ACTUAL (ft)	THICK. (ft)	
511	382100.00	2198928.95	984.09		986.09			988.59			989.09			End of Geosynthetic Liner System
512	382200.00	2198928.95	959.00		961.00			963.50			964.00			End of Geosynthetic Liner System
513	382300.00	2198928.95	933.89		935.89			938.39			938.89			End of Geosynthetic Liner System
514	382400.00	2198928.95	909.10		911.10			913.60			914.10			End of Geosynthetic Liner System
515	382478.78	2198928.95	889.27		891.27			893.77			894.27			End of Geosynthetic Liner System
516	381428.90	2198931.70	893.87		895.87			898.37			898.87			End of Fine-Grained Barrier Layer
517	381500.00	2198931.95	911.74		913.74			916.24			916.74			End of Fine-Grained Barrier Layer
518	381700.00	2198931.95	959.79		961.79			964.29			964.79			End of Fine-Grained Barrier Layer
519	381600.00	2198931.95	935.76		937.76			940.26			940.76			End of Fine-Grained Barrier Layer
520	381800.00	2198931.95	983.71		985.71			988.21			988.71			End of Fine-Grained Barrier Layer
521	381805.81	2198931.95	984.65		986.65			989.15			989.65			End of Fine-Grained Barrier Layer
522	381900.00	2198931.95	991.67		993.67			996.17			996.67			End of Fine-Grained Barrier Layer
523	381954.85	2198931.95	994.21		996.21			998.71			999.21			End of Fine-Grained Barrier Layer
524	382000.00	2198931.95	992.35		994.35			996.85			997.35			End of Fine-Grained Barrier Layer
525	382093.01	2198931.95	985.86		987.86			990.36			990.86			End of Fine-Grained Barrier Layer
526	382100.00	2198931.95	984.15		986.15			988.65			989.15			End of Fine-Grained Barrier Layer
527	382200.00	2198931.95	959.05		961.05			963.55			964.05			End of Fine-Grained Barrier Layer
528	382300.00	2198931.95	933.94		935.94			938.44			938.94			End of Fine-Grained Barrier Layer
529	382400.00	2198931.95	909.15		911.15			913.65			914.15			End of Fine-Grained Barrier Layer
530	382478.97	2198931.95	889.39		891.39			893.89			894.39			End of Fine-Grained Barrier Layer

Notes:

(1) Refer to Plan Sheet 9 of the construction drawings for locations of coordinate points.

Prepared By: S. Sellner, 12/22/2017

Checked By: A. Sampson, 01/23/2017



DATE: JANUARY 2018

SHEET NUMBER	SHEET TITLE
1	INDEX - TITLE SHEET
2	STANDARD LEGEND AND GENERAL NOTES
3	EXISTING CONDITIONS MAP
PHASE 9 - CELL 2 LINER DRAWINGS	
4	SOIL STOCKPILE AREAS
5	SUBBASE GRADES - GROUNDWATER GRADIENT CONTROL SYSTEM
6	BASE GRADES AND LEACHATE COLLECTION SYSTEM
7	DETAILS - LINER, GRADIENT CONTROL AND LEACHATE COLLECTION
8	DETAILS AND ENGINEERING CROSS SECTIONS 2,201,015 E AND 381,600 N
STAGE 4 FINAL COVER DRAWINGS	
9	FINAL COVER TOP OF GRADING LAYER (BOTTOM OF BARRIER LAYER)
10	FINAL COVER SUBBASE GRADES (TOP OF BARRIER LAYER)
11	TOP OF FINAL COVER GRADES
12	DETAILS - FINAL COVER SYSTEM
13	DETAILS - FINAL COVER SYSTEM
14	DETAILS - FINAL COVER PENETRATIONS
15	DETAILS - DOWNSLOPE FLUMES
16	EROSION CONTROL AND SITE RESTORATION PLAN
17	DETAILS - EROSION CONTROL



708 Heartland Trail
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Madison, WI 53717
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2364 --- ATTACHED XREF'S: \\016 300a --- ATTACHED IMAGES: --- PLOT DATE: January 23, 2018 - 2:33PM --- LAYOUT: SHEET 2
DRAWING NAME: J:\Dane County LF278395 - P9-C2 Liner Const\00001 279395 SH102-LG.dwg ---

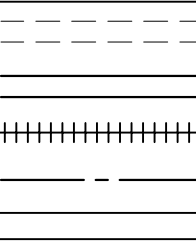
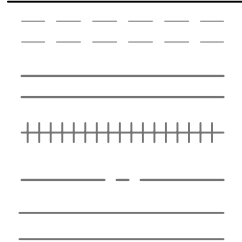
Version: 2017/03/21

STANDARD LEGEND

EXISTING

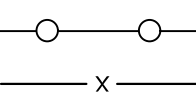
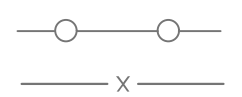
DESIGN

ROADWAYS



GRAVEL
PAVED
RAILROAD
CENTERLINE
WALKS/DRIVES

WALLS/FENCES

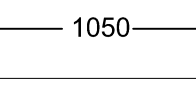


EARTH WALL

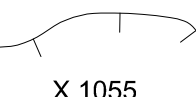


FENCE LINE

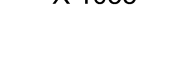
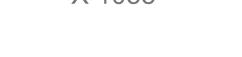
CONTOURS



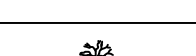
INDEX CONTOUR (10' INTERVAL)



INTERMEDIATE CONTOUR (2' INTERVAL)



DEPRESSION



SPOT ELEVATION

TREES



DECIDUOUS



CONIFER

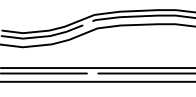
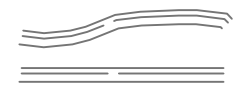


BUSH

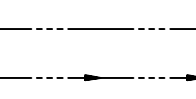


TREE LINE AND/OR BUSH

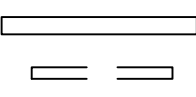
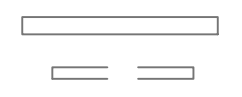
WATER



BODIES OF WATER



RIVER/STREAMS



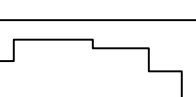
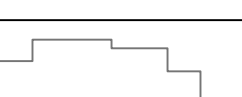
INTERMITTENT STREAM



DITCH WITH FLOW AND DIRECTION



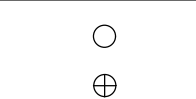
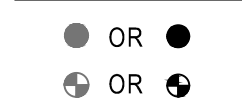
BRIDGE



CULVERT

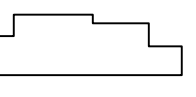


EDGE OF WATER / APPROXIMATE LIMITS OF WET AREA



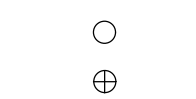
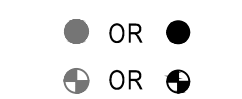
AREA CONTAINING WETLAND VEGETATION

BUILDING

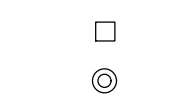
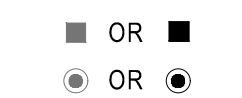


BUILDING

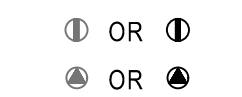
FEATURES



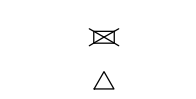
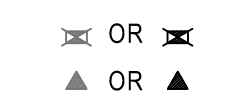
WATER TABLE WELL



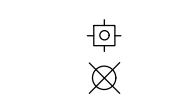
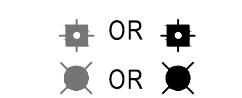
SOIL BORING



TEST PIT



PIEZOMETER



STAFF GAUGE



PRIVATE WELL



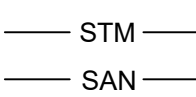
LEACHATE HEAD WELL



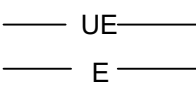
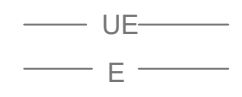
LEACHATE HEAD WELL MONITORING PORT



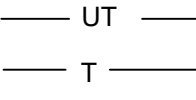
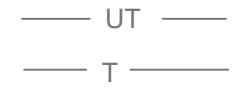
GAS VENT



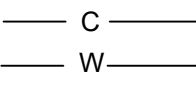
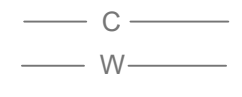
GAS MONITORING PROBE



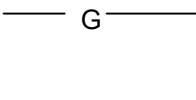
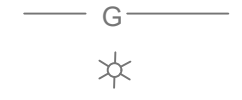
LYSIMETER



SEPTIC COVER



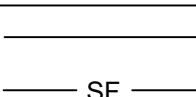
SEPTIC VENT



ABANDONED PRIVATE WELL

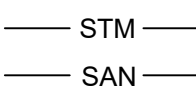


ABANDONED MONITORING WELL

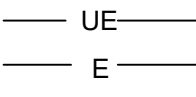
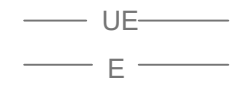


ABANDONED PIEZOMETER

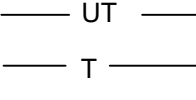
UTILITIES



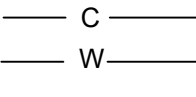
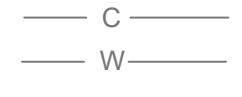
STORM SEWER LINE



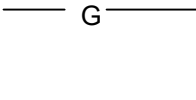
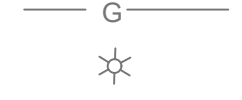
SANITARY SEWER LINE



UNDERGROUND ELECTRIC



ELECTRICAL WIRES



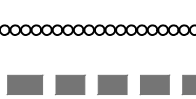
UNDERGROUND TELEPHONE



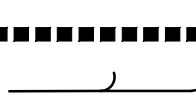
TELEPHONE



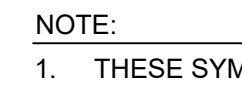
CABLE



WATER

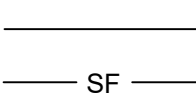


GAS

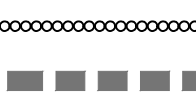


LIGHT POLE BASE

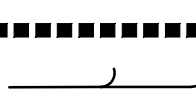
MISCELLANEOUS



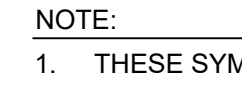
LIMITS OF COMPOSITE LINER CONSTRUCTION



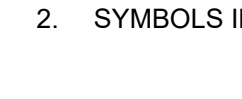
SEDIMENT CONTAINMENT FENCE



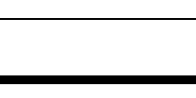
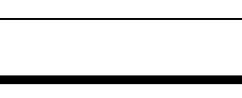
LIMITS OF WASTE



PHASE / MODULE LINE



APPROXIMATE LIMITS OF CONSTRUCTION



SEDIMENT EROSION CONTROL LOGS

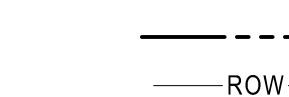
NOTE:

- THESE SYMBOLS DO NOT APPLY TO SHEET 3, ALL EXISTING FEATURES SHOWN AS BOLD ON PLAN SHEET 3
- SYMBOLS IN LEGEND ON INDIVIDUAL SHEETS SUPERSEDE SYMBOLS SHOWN IN THIS SHEET.

EXISTING

PROPOSED

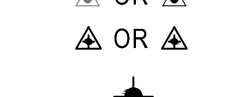
SURVEY DATA



PROPERTY LINE



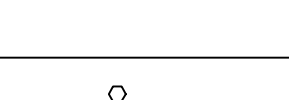
RIGHT-OF-WAY LINE



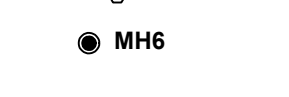
BENCH MARK



SURVEY CONTROL POINT

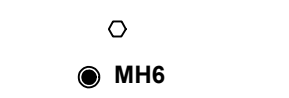


MONUMENT

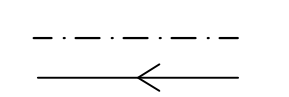


SECTION-CORNER / QUARTER-CORNER

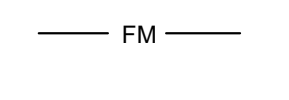
PIPE



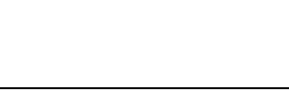
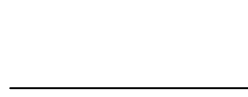
COLLECTION PIPE CLEANOUT



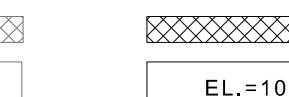
MANHOLE



COLLECTION PIPE (PERFORATED)

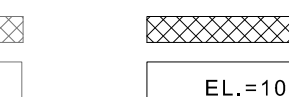


TRANSFER PIPE (SOLID WALL)



LEACHATE FORCEMAIN

SURFACE



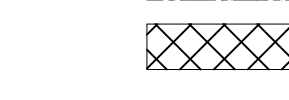
PHASE/MODULE DELINEATION BERM



SEDIMENTATION BASIN



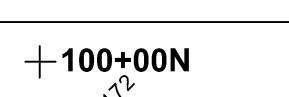
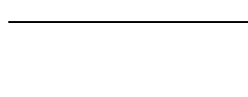
FINAL COVER DIVERSION BERM



RIPRAP SPILLWAY

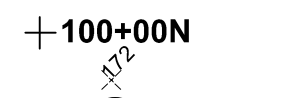


STONE TRACKING PAD



EROSION CONTROL MAT / TURF REINFORCEMENT MAT

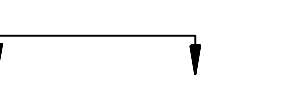
PLAN SHEET



GRID TICK AND STATION



GRID TICK AND STATION



DETAIL 1 ON SHEET 5



SLOPE PERCENT AND DIRECTION



ENGINEERING/GEOLOGIC CROSS SECTION LOCATION



SURFACE WATER FLOW ARROW

STANDARD NOTES

NOTES

- TOPOGRAPHIC INFORMATION WAS DEVELOPED BY SPLICING THE FEBRUARY 2, 2016 AECOM GROUND SURVEY (PHASE 10 - CELL 2 AREA); DECEMBER 2, 2014 AECOM GROUND SURVEY (IN THE STOCKPILE AREA SOUTH OF FUTURE PHASE 11); DECEMBER 20, 2017 AYRES ASSOCIATES (IN THE AREA SOUTH OF PHASE 9 - CELL 1); NOVEMBER 16, 2017 AYRES ASSOCIATES (STAGE 3 AND STAGE 4); AND AS-BUILT PHASE 9 - CELL 1 AND AS-BUILT PHASE 10 - CELL 1 GRADES INTO THE APRIL 2, 2013 KBM, INC. AERIAL SURVEY. ADDITIONAL TOPOGRAPHIC INFORMATION OUTSIDE OF APRIL 2, 2013 KBM, INC. AERIAL SURVEY WAS OBTAINED FROM: DANE COUNTY LAND INFORMATION OFFICE MADISON, WI., TWO-FOOT CONTOURS DATED 2009.
- HORIZONTAL DATUM IS BASED ON NAD27 WISCONSIN STATE PLANE COORDINATE SYSTEM.
- VERTICAL DATUM IS REFERENCED TO USGS MEAN SEA LEVEL (M.S.L.) DATUM. THE TOPOGRAPHIC CONTOUR INTERVAL IS TWO FEET.

HORIZONTAL AND VERTICAL CONTROL POINT LOCATIONS

NAME	NORTHING STATE PLANE (FEET)	EASTING STATE PLANE (FEET)	ELEVATION (FT-MSL)	DESCRIPTION
203	381,404.98	2,198,495.01	875.020	CP 0.75 REBAR SOUTH SIDE OF PAVED ENTRY ROAD
5141	381,812.47	2,201,335.74	906.000	CP 100D WEST SIDE CTH AB WEST OF MAILBOX 3620
5143	380,264.80	2,201,121.12	883.000	CP MEDIAN SO OF INLET NORTH SIDE MEDIAN 12/18 WEST OF CTH AB
5146	383,160.34	2,201,292.29	870.930	CP 100D SW OF NE CONST FENCE CORNER
6001	382,847.88	2,200,698.84	889.452	CP SPIKE IN GRAVEL DRIVE SW OF FO WEST END OF TALL FENCING NORTH OF P10 CELL 1
6002	382,615.37	2,200,252.21	880.659	CP SPIKE SOUTH SIDE OF ACCESS ROAD WEST OF P10 CELL 1
6003	382,602.35	2,200,447.27	879.687	BM CUT SQ. SW CORNER CONCRETE SLAB WEST OF BERM P10 SOUTH OF ACCESS ROAD

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

NO.	BY	DATE	REVISION	APPD.
1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM

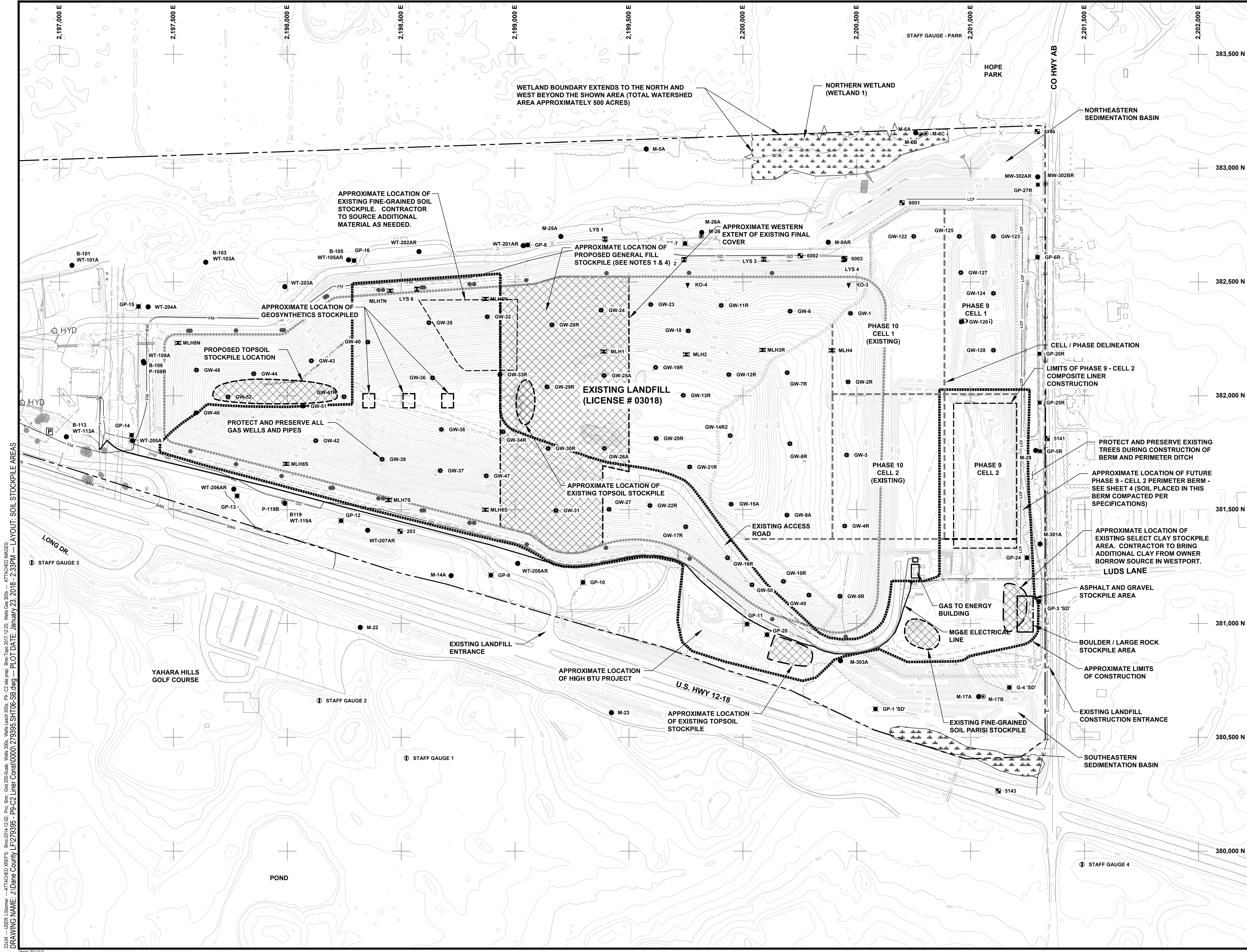
PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PHASE 9 - CELL 2 LINER AND STAGE 4
FINAL COVER CONSTRUCTION
DANE COUNTY, WISCONSIN**

TITLE: **STANDARD LEGEND AND GENERAL NOTES**

DRAWN BY:	R. NOLDEN	PROJ NO.:	2793950000.0000
CHECKED BY:	D. MARSHALL	SHEET 2 OF 17	
APPROVED BY:	D. GENTHE		
DATE:	JANUARY 2018		



708 Heartland Trail
Suite 3000
Madison, WI 53717



LEGEND

APPROXIMATE LIMITS OF AREA FOR STOCKPILING SOIL (GENERAL FILL, FINE-GRAINED, TOPSOIL, AND SELECT CLAY FILL)

NOTES

1. GENERAL FILL MATERIALS TO BE SEGREGATED BY MATERIAL TYPE WITHIN GENERAL FILL STOCKPILE AREA.

2. BOULDERS AND LARGE ROCKS ENCOUNTERED DURING EXCAVATION SHALL BE SEGREGATED AND STOCKPILED AS SHOWN.

3. UNCAPPED AREAS TO THE EAST OF AREA TWO FINAL COVER MAY BE USED FOR STOCKPILES.

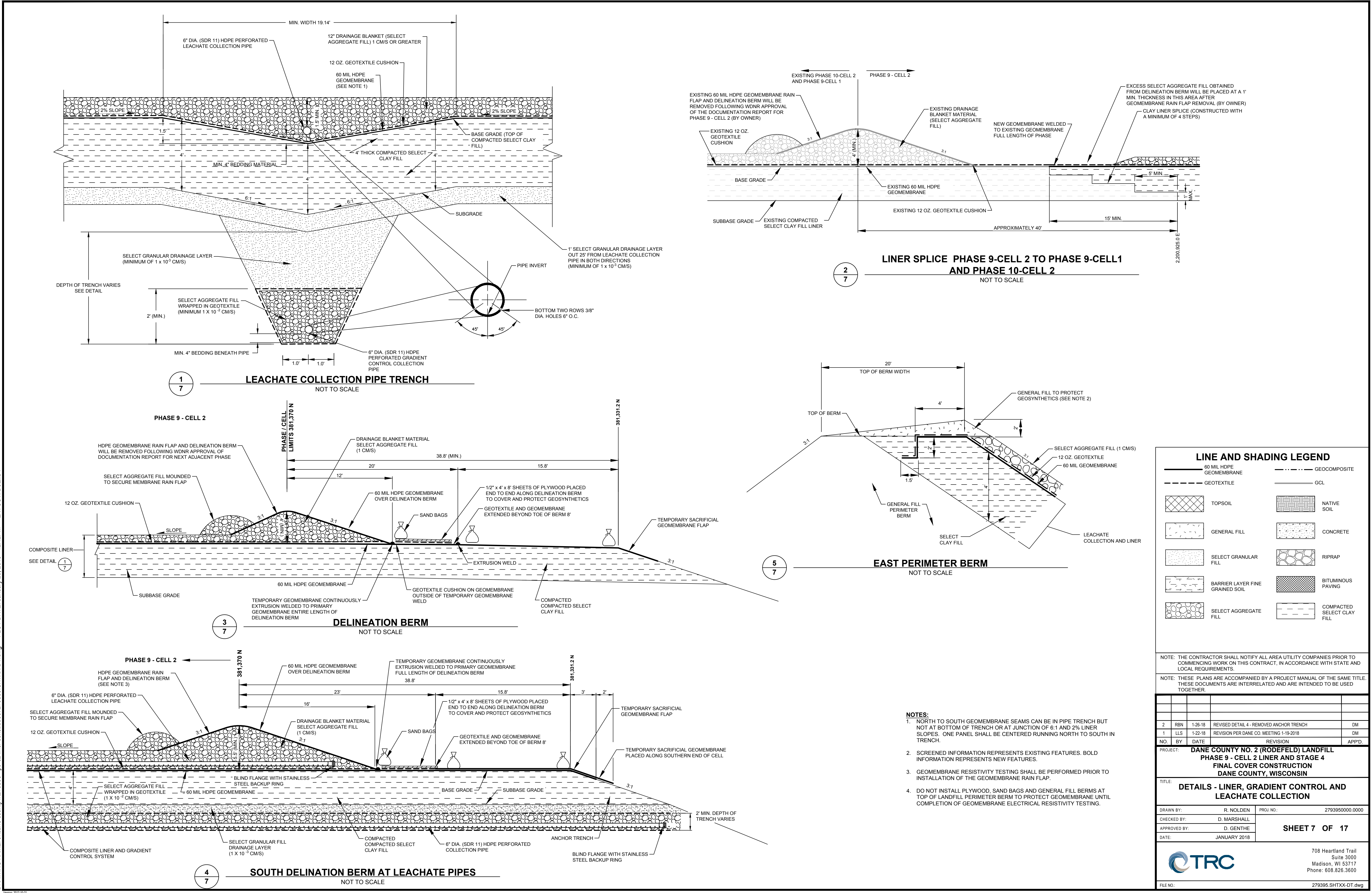
4. ALL CLEAN FILL NOT DENOTED AS FINE-GRAINED OR TOPSOIL SHALL BE CONSIDERED GENERAL FILL.

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

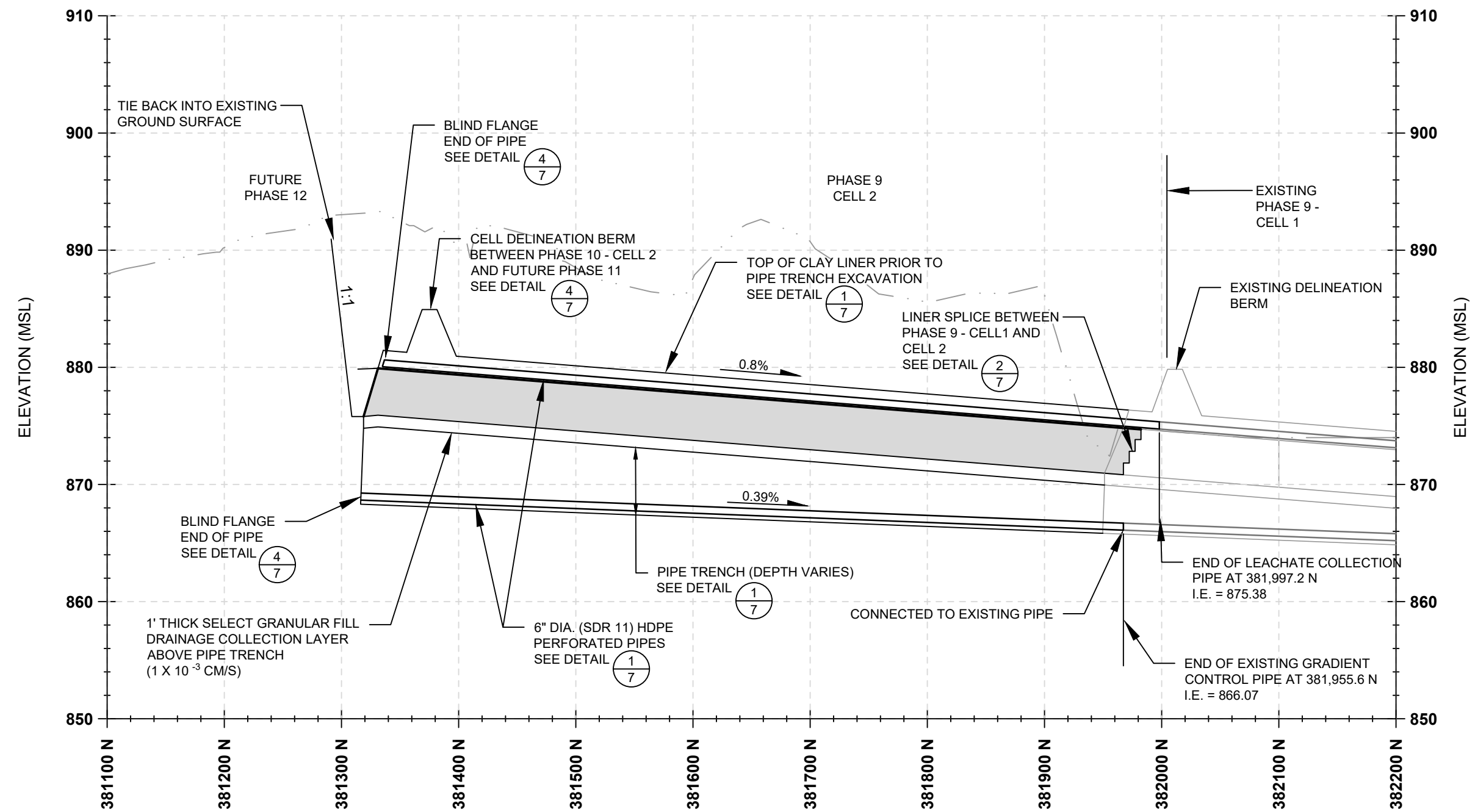
NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM
NO.	BY	DATE	REVISION	APPD.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASE 9 - CELL 2 LINER AND STAGE 4 FINAL COVER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: SOIL STOCKPILE AREAS				
DRAWN BY: R. NOLDEN		PROJ NO.: 2793950000.0000		
CHECKED BY: D. MARSHALL		SHEET 4 OF 17		
APPROVED BY: D. GENTHE				
DATE: JANUARY 2018				
FILE NO.: 279395.SHT08-SB.dwg		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600		

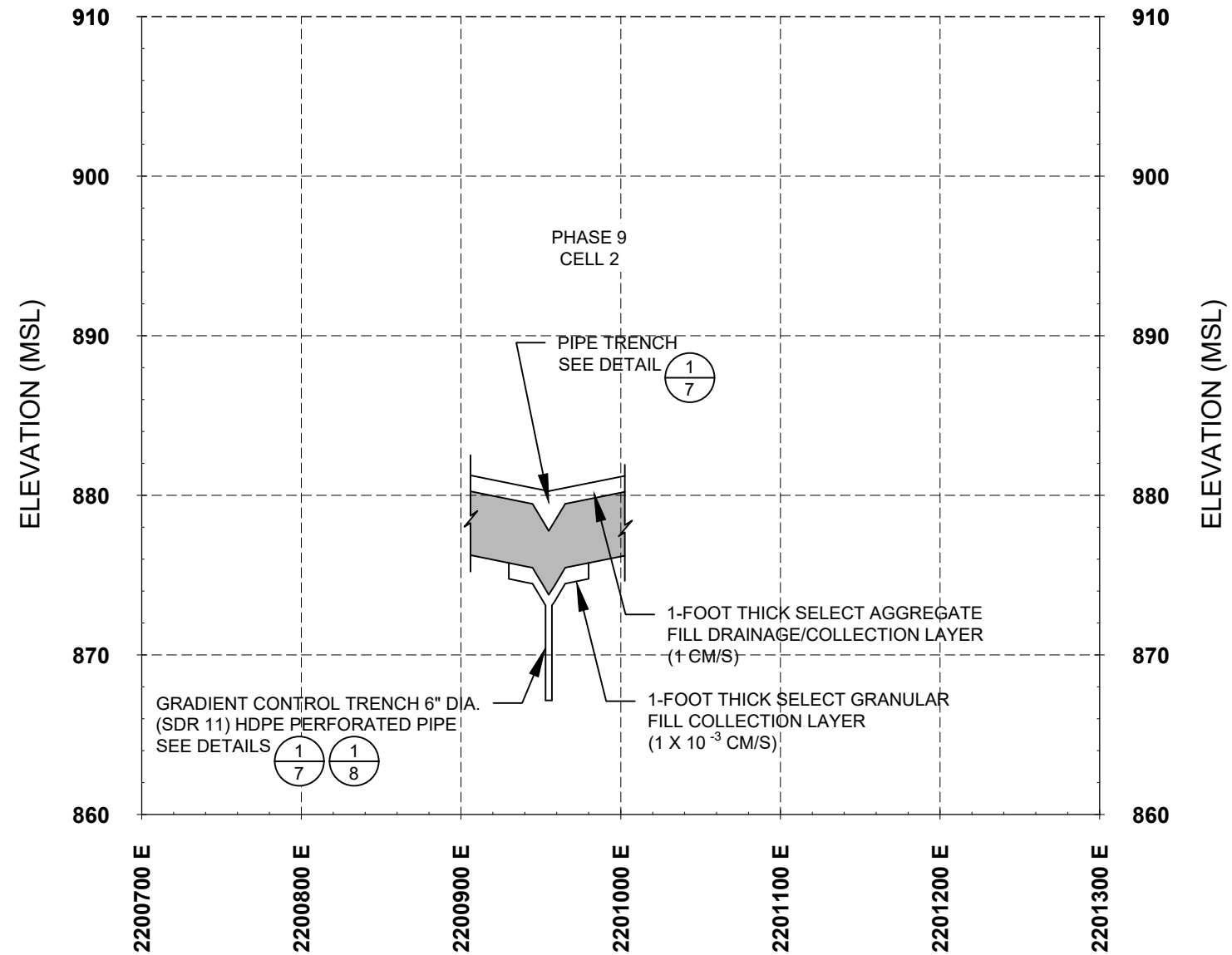
2364 - ATTACHED XREFS: Details Views: PG: C2 Cross Section - ATTACHED IMAGES: DRAWING NAME: J:\dane county\16279395 - p9-c2 liner const\0000_279395.SHTXX-DT.dwg - PLOT DATE: January 26, 2018 - 12:12 PM - LAYOUT: Details 7



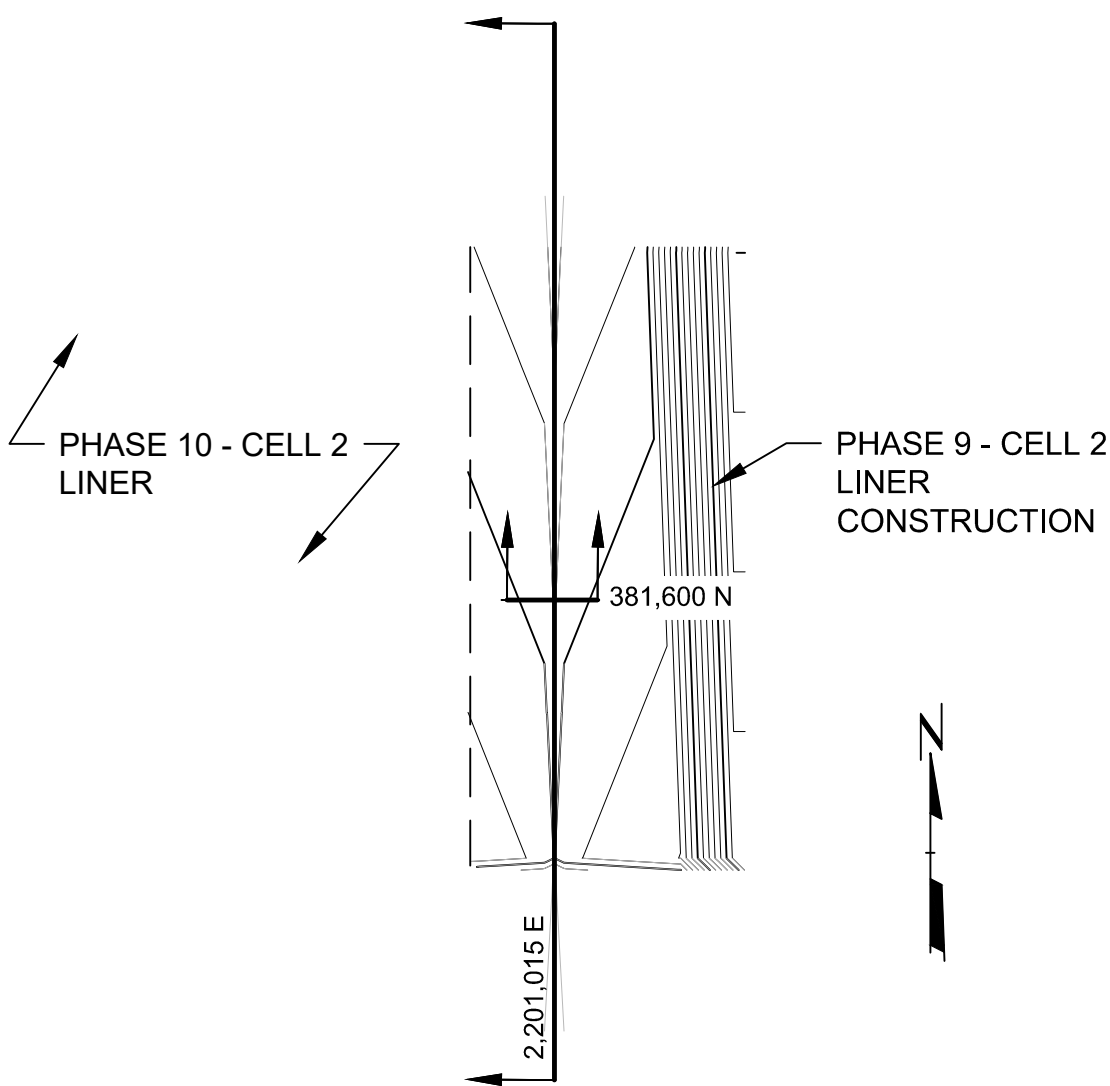
22034 --- ATTACHED XREFS: Details_VIEWS: PG: C2 Cross Section --- ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF278395 - PG-C2 Liner Const\00000\279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:35PM --- LAYOUT: Details 8



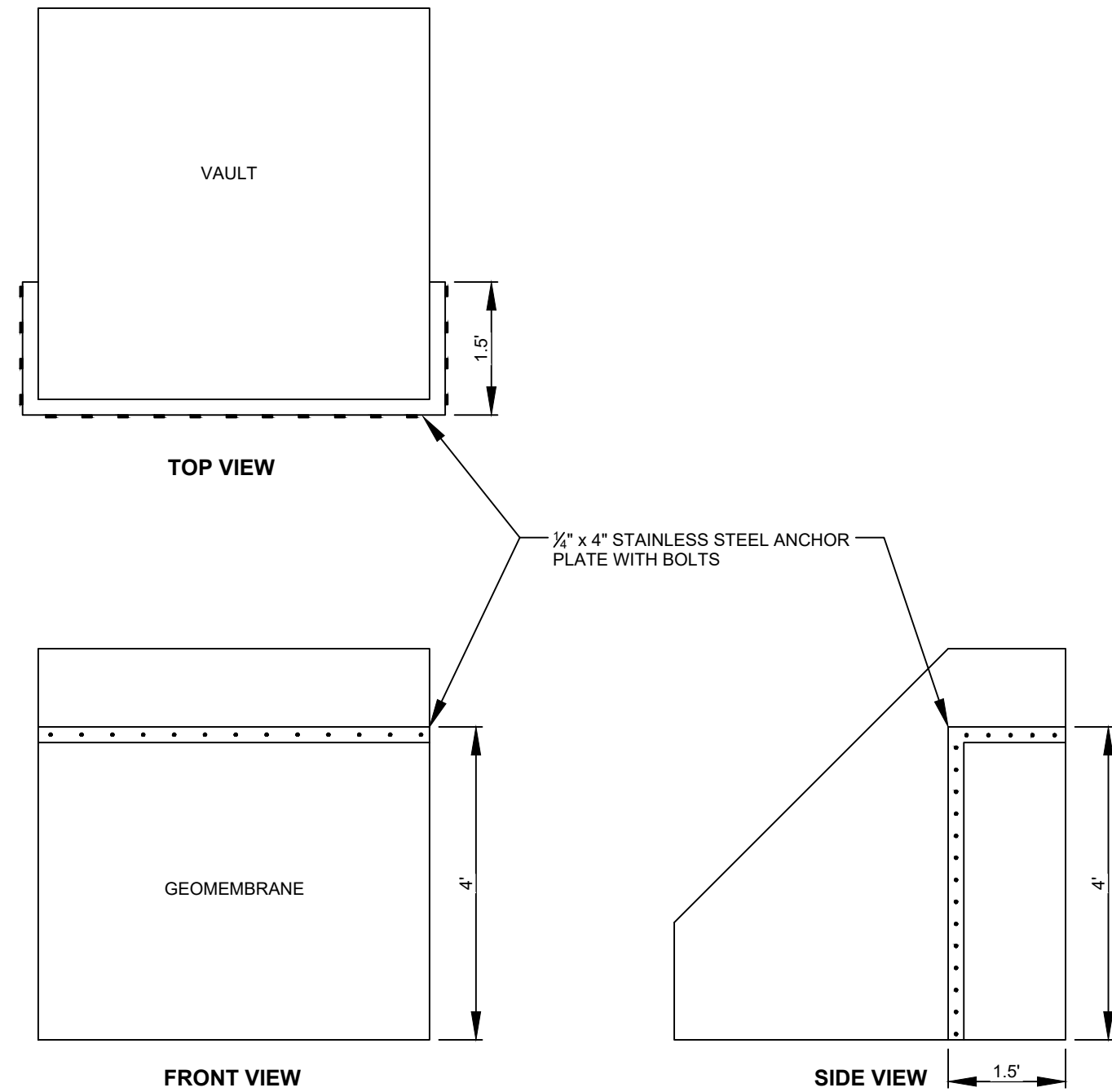
CROSS SECTION 2201015 E ALONG LEACHATE-GRADIENT CONTROL PIPES
SCALE: 1" = 100'




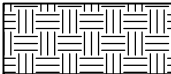

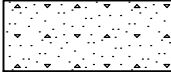

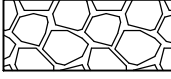
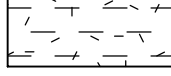
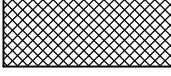

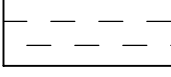

CROSS SECTION 381600 N LOOKING NORTH
SCALE: 1" = 100'



CROSS SECTION LOCATOR
SCALE: 1" = 200'



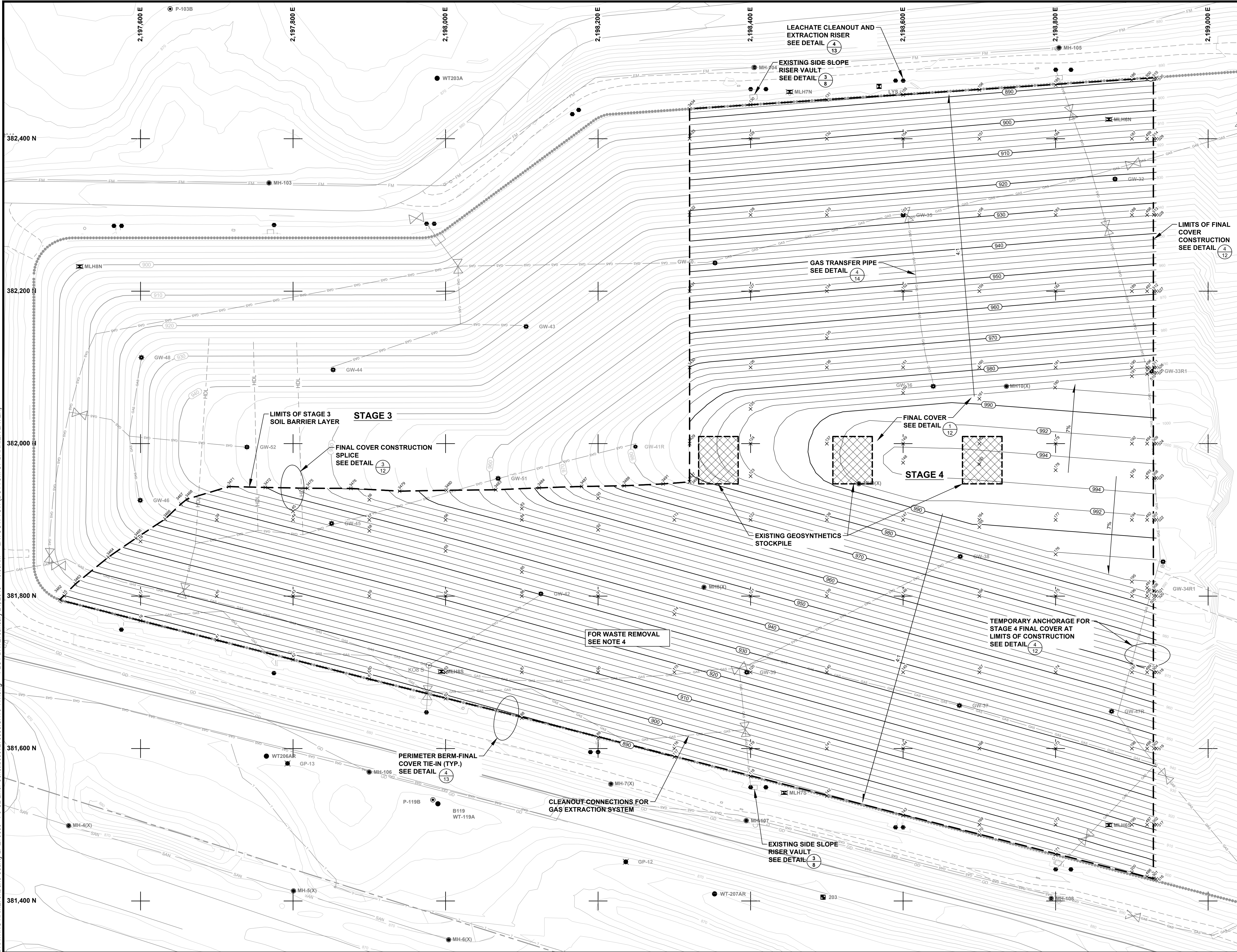
GEOMEMBRANE APRON FOR SIDE SLOPE RISER VAULT
NOT TO SCALE

LINE AND SHADING LEGEND				
60 MIL HDPE GEOMEMBRANE		GEOCOMPOSITE		
GEOTEXTILE		GCL		
	TOPSOIL		NATIVE SOIL	
	GENERAL FILL		CONCRETE	
	SELECT GRANULAR FILL		RIPRAP	
	BARRIER LAYER FINE GRAINED SOIL		BITUMINOUS PAVING	
	SELECT AGGREGATE FILL		COMPACTED SELECT CLAY FILL	
<p>NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.</p> <p>NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.</p>				
1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM
NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASE 9 - CELL 2 LINER AND STAGE 4 FINAL COVER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: DETAILS AND ENGINEERING CROSS SECTIONS 2,201,015 E AND 381,600 N				
DRAWN BY: R. NOLDEN		PROJ. NO.: 2793950000.0000		
CHECKED BY: D. MARSHALL		SHEET 8 OF 17		
APPROVED BY: D. GENTHE				
DATE: JANUARY 2018				
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600		
FILE NO.:		279395.SHTXX-DT.dwg		



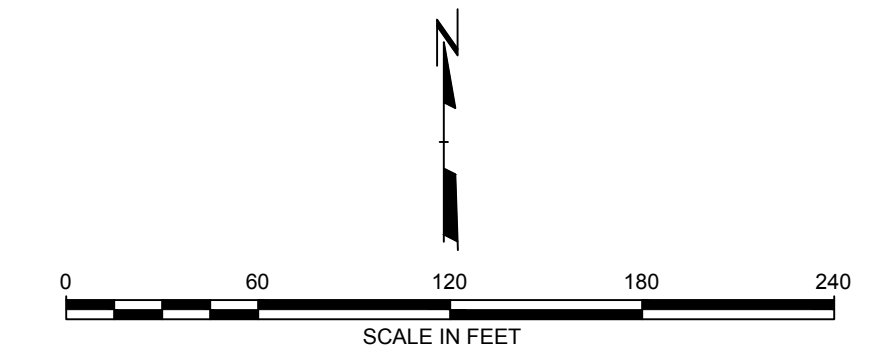
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

22634 -- USER: SSaier -- ATTACHED XREFS: Bmc, P9 - C2 site prep; Pipe, Wells each 100s; As-Built Gas, final grades 200; RUST 1988 POC final cover splice (0.5ft adjustment); Bmc 2014-12-02; Grid 60 Scale (Area 2); Wells Gas 100s; Final Cover (Top of Waste Grades); Final Cover (Constr Coors); Area 1 Stage 4 FC Doc Tie-in Points -- ATTACHED IMAGES:
DRAWING NAME: J:\Dane County LF279395 - P9-C2 Liner Const\00000_279395-SHT9-TW.dwg -- PLOT DATE: January 24, 2018 - 10:09AM -- LAYOUT: TOW (BOTTOM OF BARRIER LAYER)
Version: 2017-10-21



NOTES

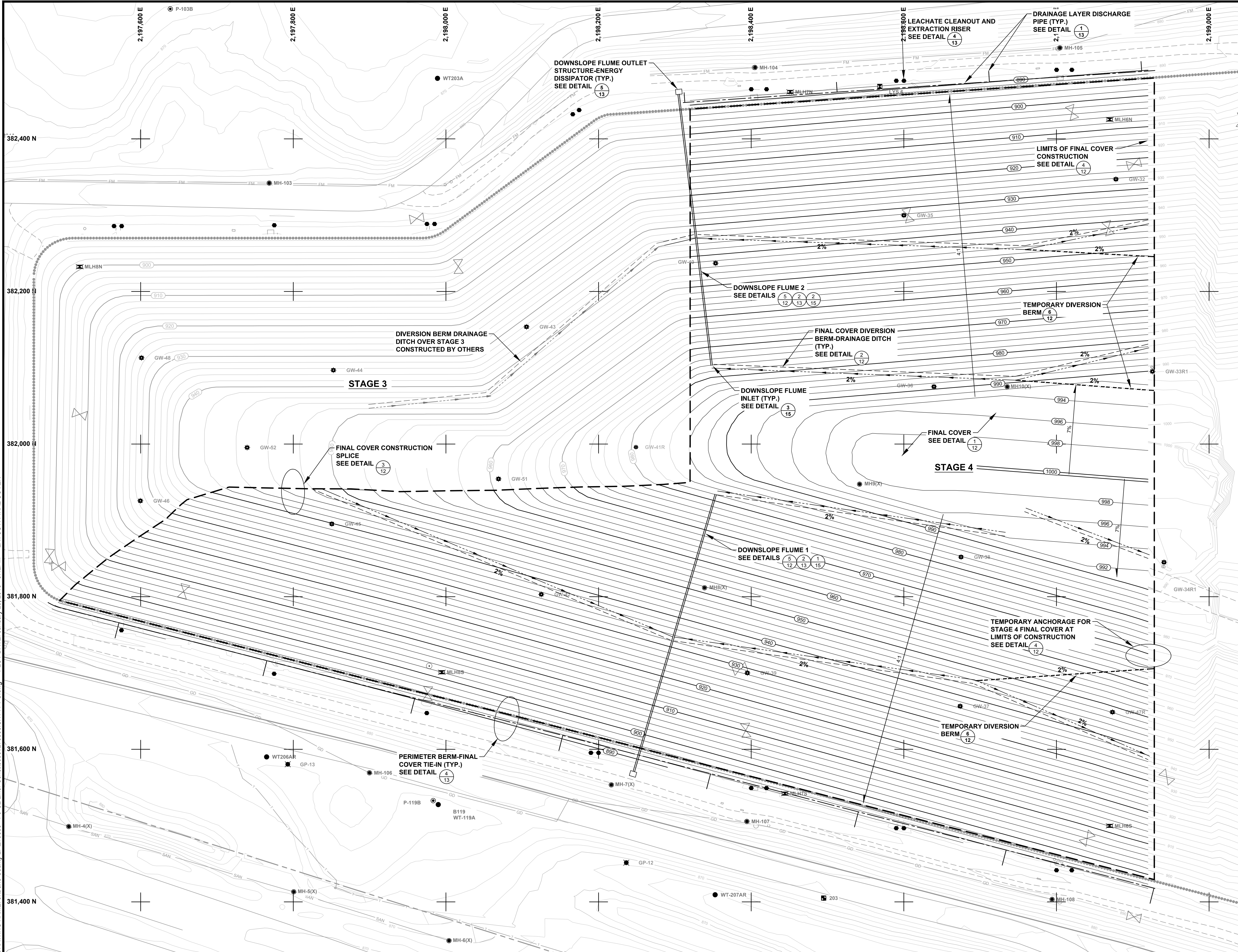
1. PERMITTED LIMITS OF WASTE AND FINAL COVER GRADES FROM "DANE COUNTY LANDFILL CITY OF MADISON RODEFELD SITE PLAN OF OPERATION" PREPARED BY RUST DATED NOVEMBER, 1993.
2. PROPOSED GRADES REPRESENT TOP OF APPROVED WASTE GRADES.
3. GAS SYSTEM UTILITY LOCATIONS PROVIDED BY THE DANE COUNTY PUBLIC WORKS DEPARTMENT.
4. CONSULT WITH OWNER PRIOR TO ANY WASTE REMOVAL ACTIVITIES.



NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

22634 -- USER: SSaier -- ATTACHED XREF'S: Bm: P103B; Well: 100s; As-Built Gas; Final Grades 200; RUST 1993 P00 final cover splice (0.5ft adjustment); Bm: 2014.12.02; Bm: 2017.12.20; Grid 60 Scale (Area 2); Wells Gas 100s; Final Cover (Top of Final Cover Grades); Pg: C2 site prep -- ATTACHED IMAGES:
DRAWING NAME: J:\Dane County LF279395 - P9-C2 Liner Const\0000\279395 SHT11-FG.dwg --- PLOT DATE: January 23, 2018 - 3:42PM --- LAYOUT: FINAL COVER
Version: 2017.10.21



NOTES

- PERMITTED LIMITS OF WASTE AND FINAL COVER GRADES FROM "DANE COUNTY LANDFILL CITY OF MADISON RODEFELD SITE PLAN OF OPERATION" PREPARED BY RUST DATED NOVEMBER, 1993.
- PROPOSED GRADES REPRESENT TOP OF APPROVED FINAL COVER (TOP OF TOPSOIL) LAYER GRADES.
- GAS SYSTEM UTILITY LOCATIONS PROVIDED BY THE DANE COUNTY PUBLIC WORKS DEPARTMENT.

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

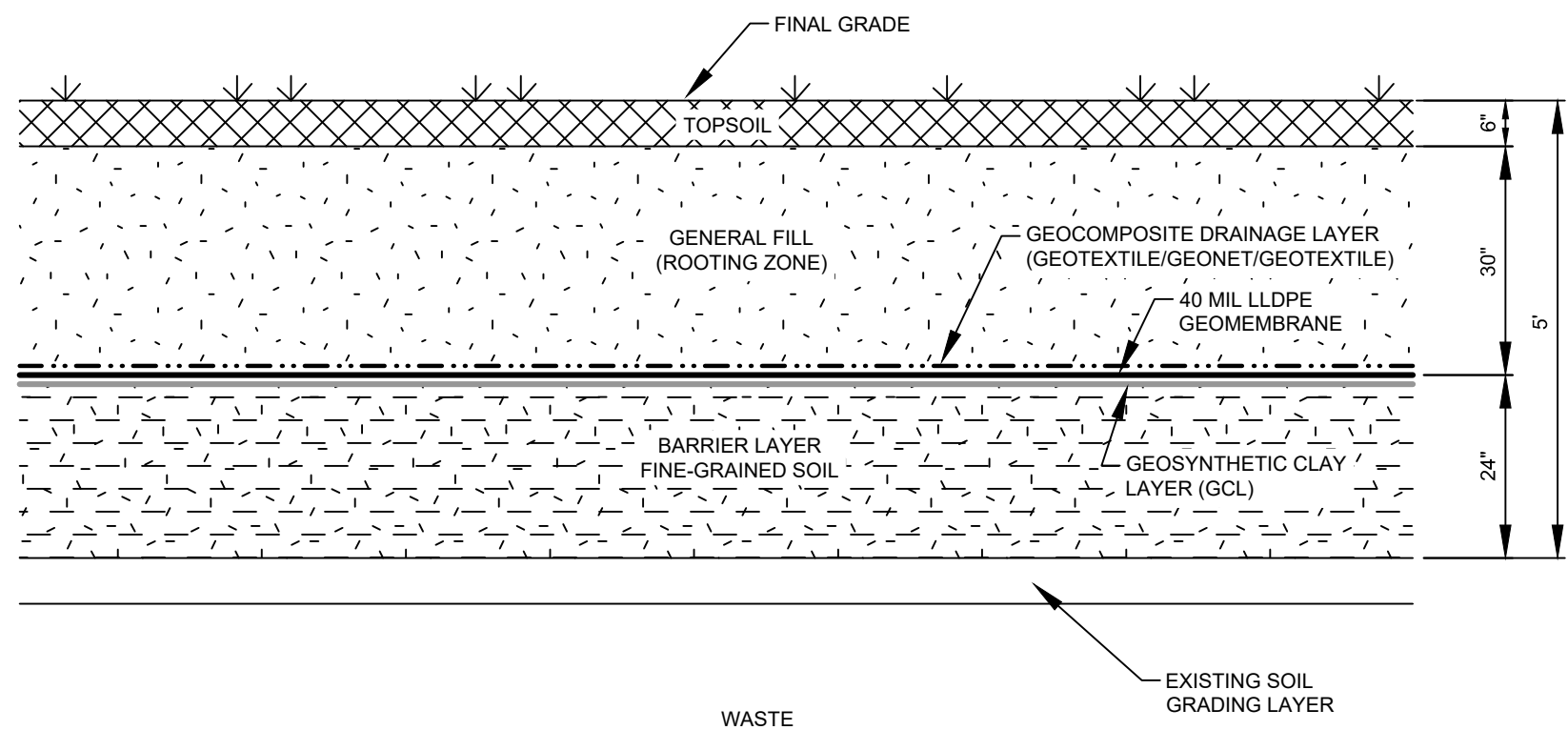
NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM
NO.	BY	DATE	REVISION	APPD.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASE 9 - CELL 2 LINER AND STAGE 4 FINAL COVER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: TOP OF FINAL COVER GRADES				
DRAWN BY: R. NOLDEN		PROJ NO.: 2793950000.0000		
CHECKED BY: D. MARSHALL		SHEET 11 OF 17		
APPROVED BY: D. GENTHE				
DATE: JANUARY 2018				

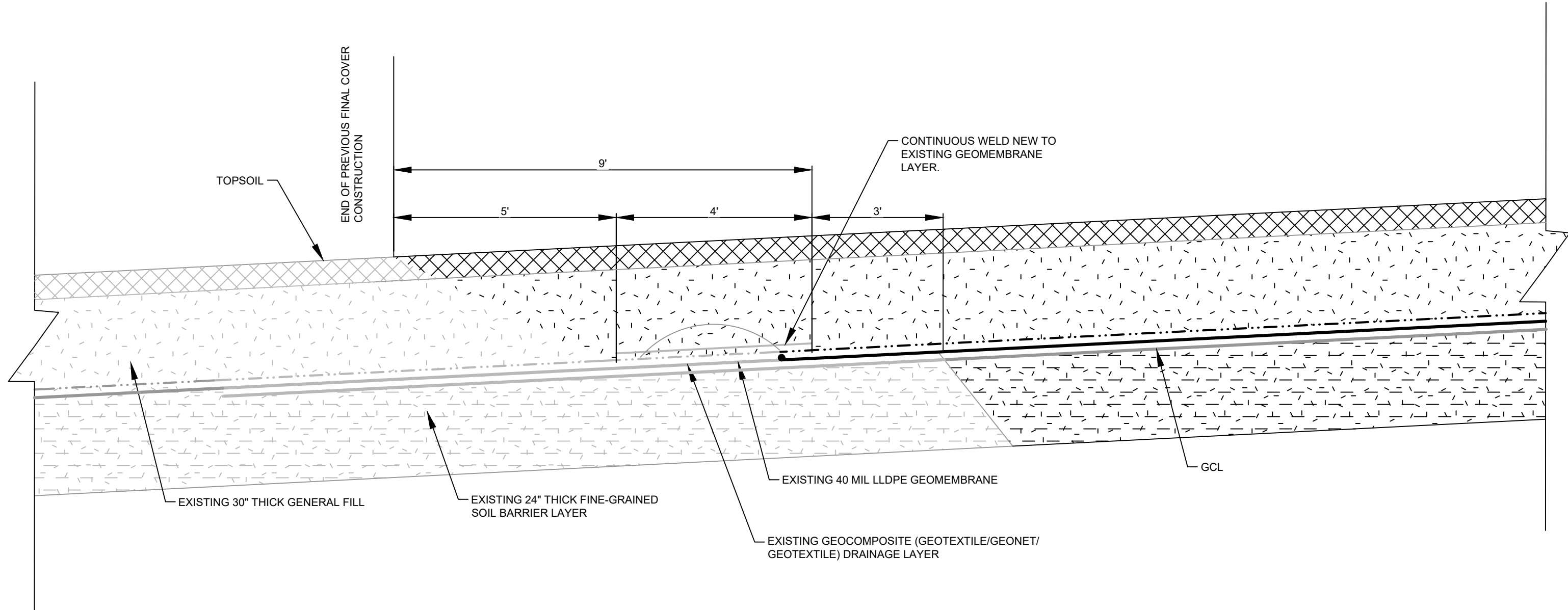
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 279395.SHT11-FG.dwg

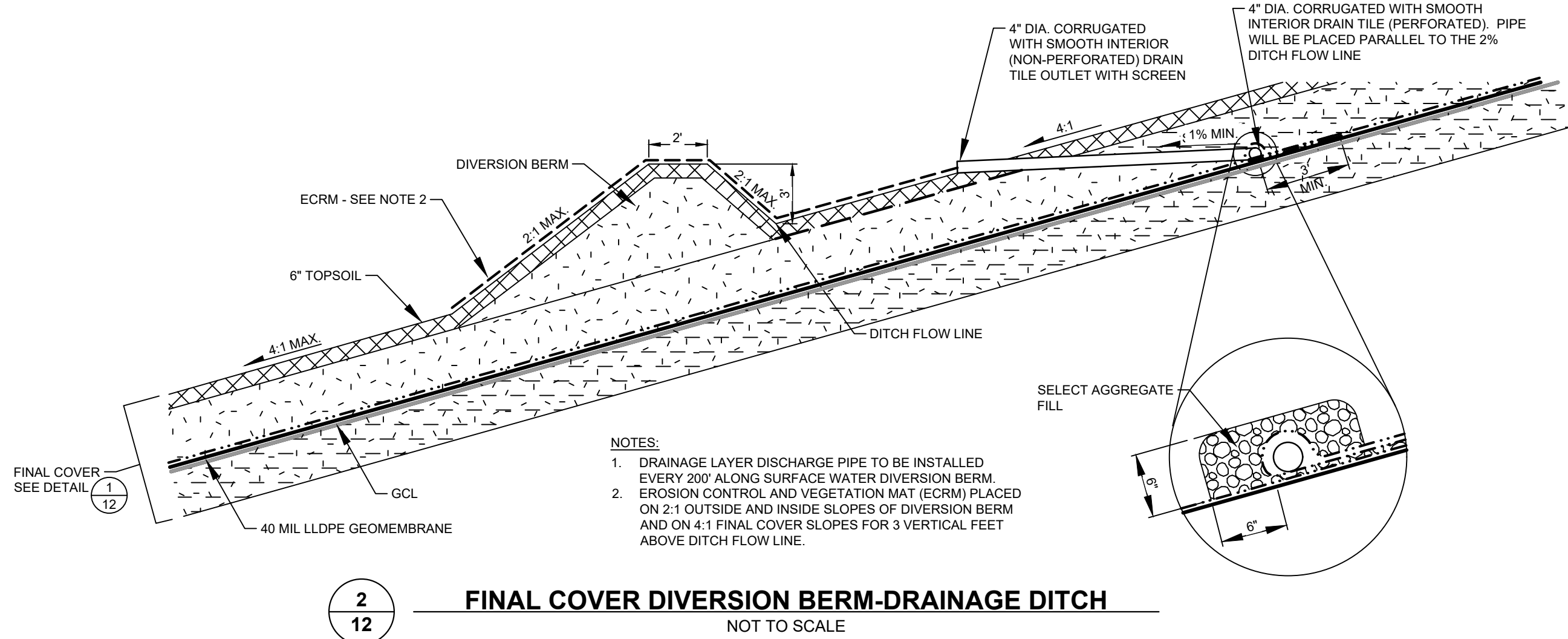
22634 - ATTACHED XREF'S - Details - Views - PG - C2 Cross Section - ATTACHED IMAGES
DRAWING NAME: J:\Dane County LF278395 - PG-C2 Liner Const\00001 279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:37PM --- LAYOUT: 12 Details
Version: 2017.03.21



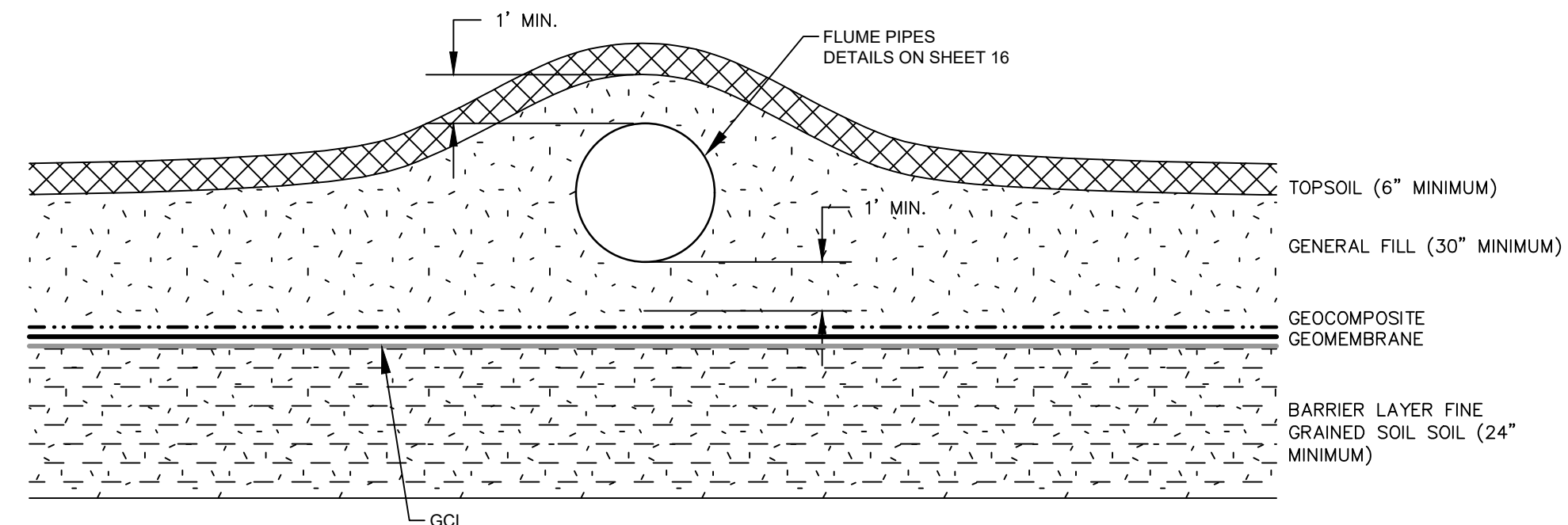
1
12
FINAL COVER DESIGN
NOT TO SCALE



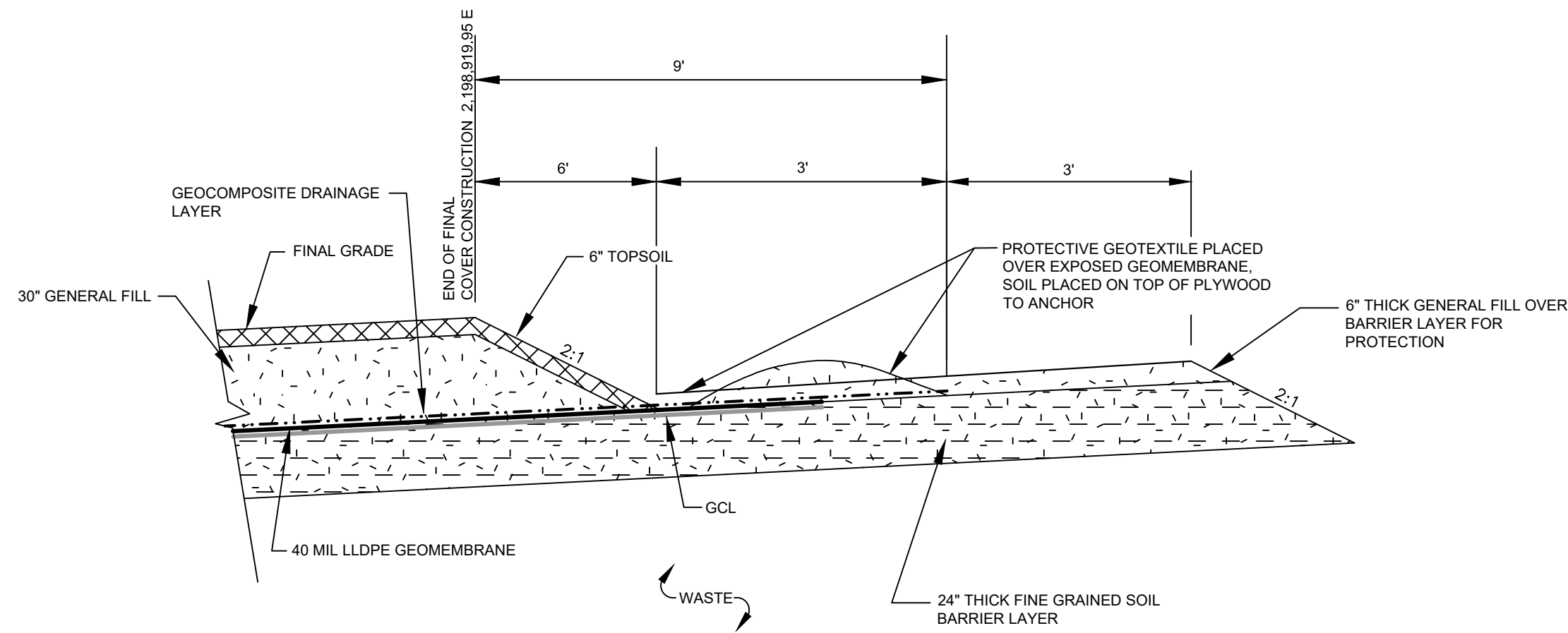
3
12
FINAL COVER CONSTRUCTION SPLICE (TYP.)
NOT TO SCALE



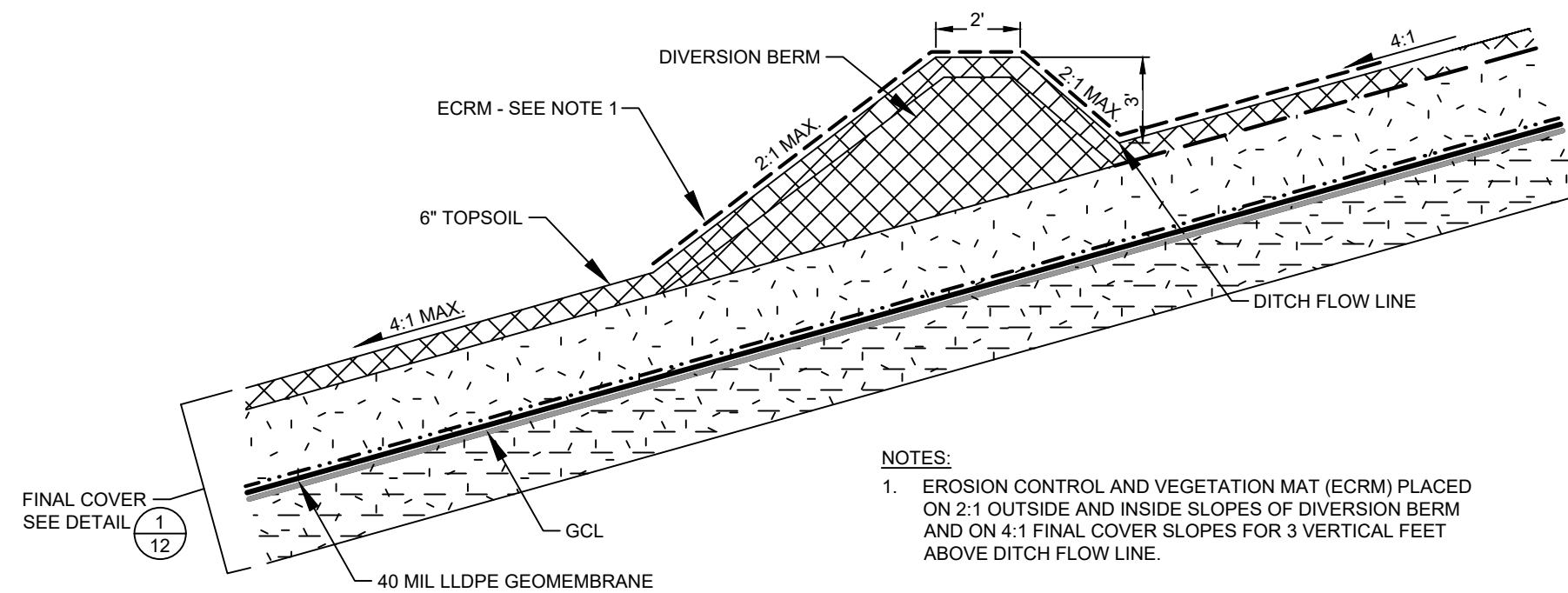
2
12
FINAL COVER DIVERSION BERM-DRAINAGE DITCH
NOT TO SCALE



5
12
DOWNSLOPE FLUME SECTION A-A'
NOT TO SCALE



4
12
AREA 2 FINAL COVER TERMINATION
NOT TO SCALE



6
12
TEMPORARY FINAL COVER DIVERSION BERM-DRAINAGE DITCH
NOT TO SCALE

NOTE: EVERYTHING SCREENED REPRESENTS EXISTING FINAL COVER. EVERYTHING BOLD REPRESENTS CONNECTION OF NEW FINAL COVER.

LINE AND SHADING LEGEND

GEOMEMBRANE	GEOCOMPOSITE
GEOTEXTILE	GCL
TOPSOIL	NATIVE SOIL
GENERAL FILL	CONCRETE
SELECT GRANULAR FILL	RIPRAP
BARRIER LAYER FINE GRAINED SOIL	BITUMINOUS PAVING
SELECT AGGREGATE FILL	COMPACTED SELECT CLAY FILL

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

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NO.	BY	DATE	REVISION	APPD.
1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM

PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PHASE 9 - CELL 2 LINER AND STAGE 4
FINAL COVER CONSTRUCTION
DANE COUNTY, WISCONSIN**

TITLE: **DETAILS - FINAL COVER SYSTEM**

DRAWN BY:	R. NOLDEN	PROJ NO:	2793950000.0000
CHECKED BY:	D. MARSHALL		
APPROVED BY:	D. GENTHE		
DATE:	JANUARY 2018		

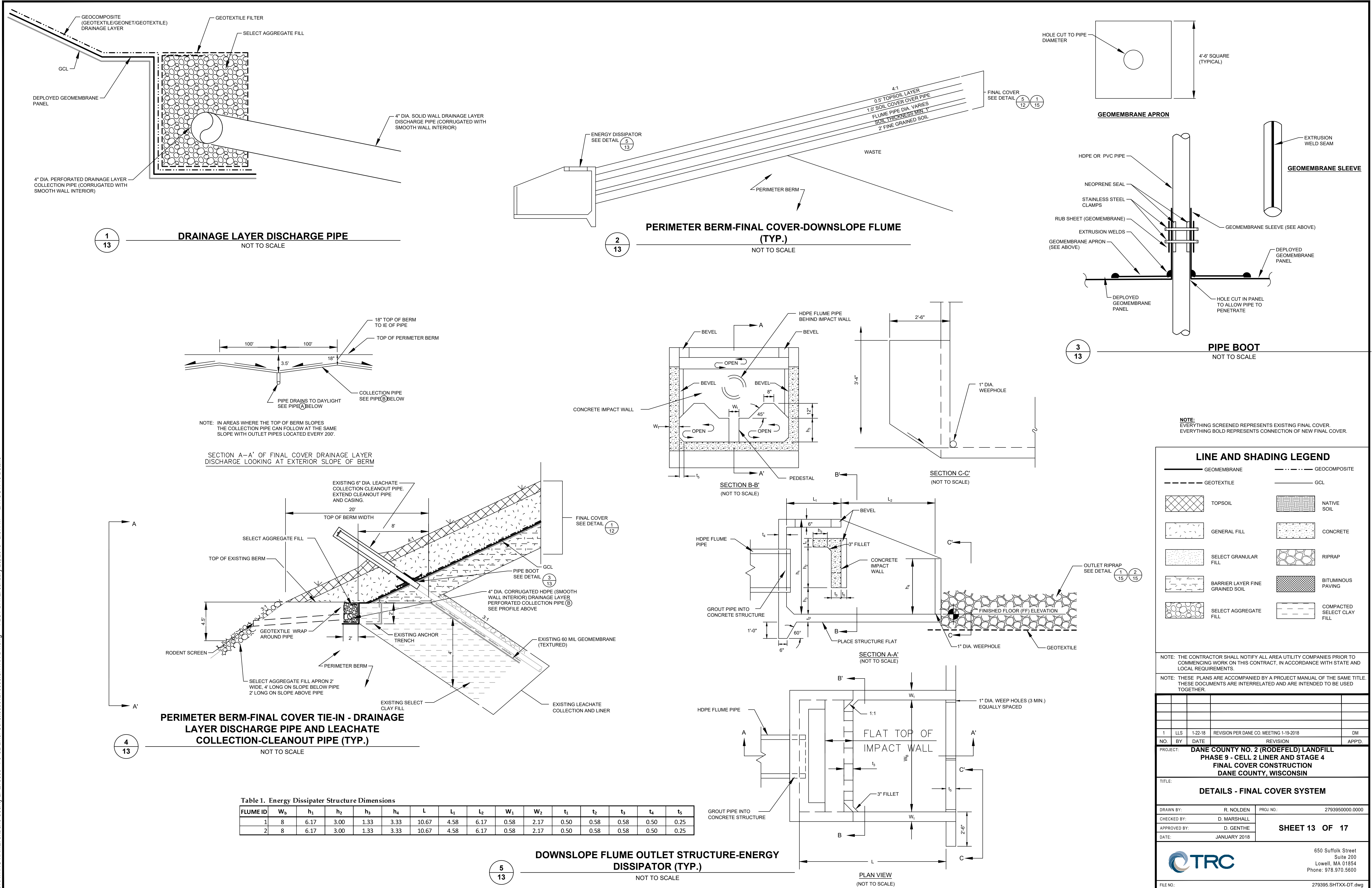
SHEET 12 OF 17



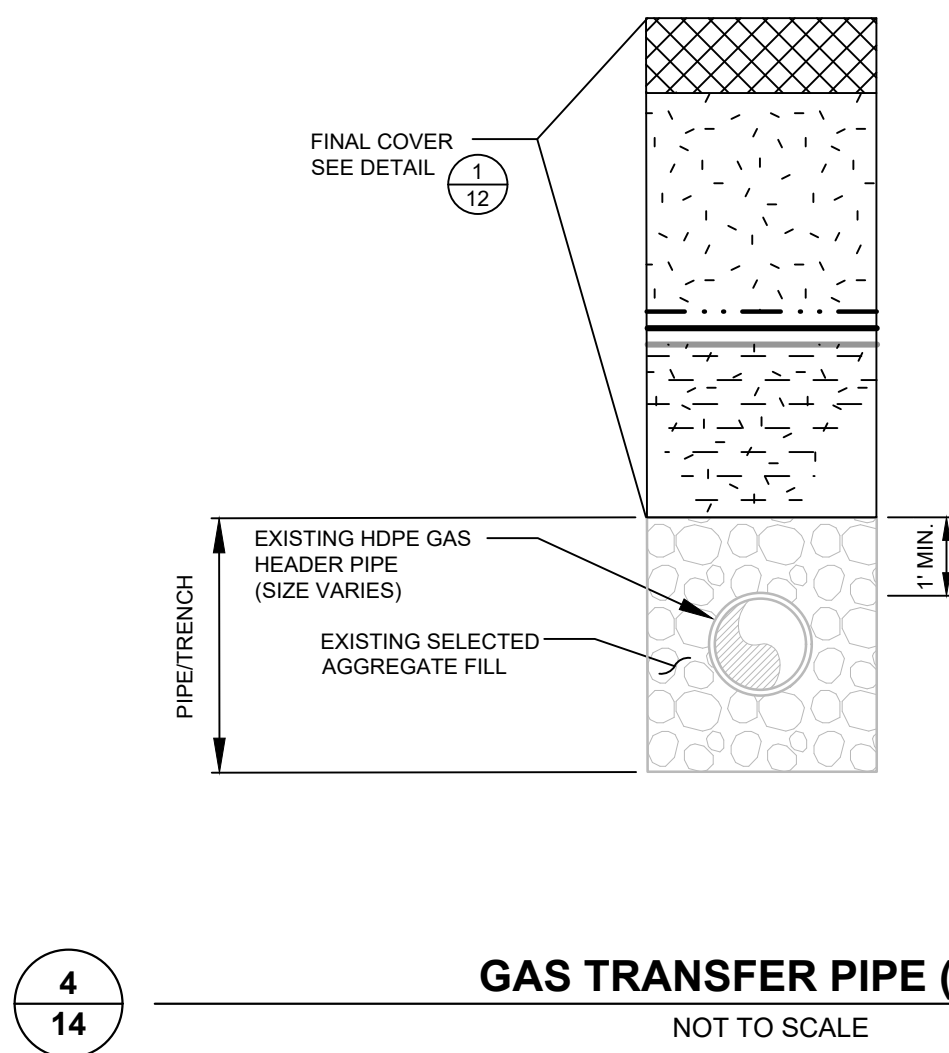
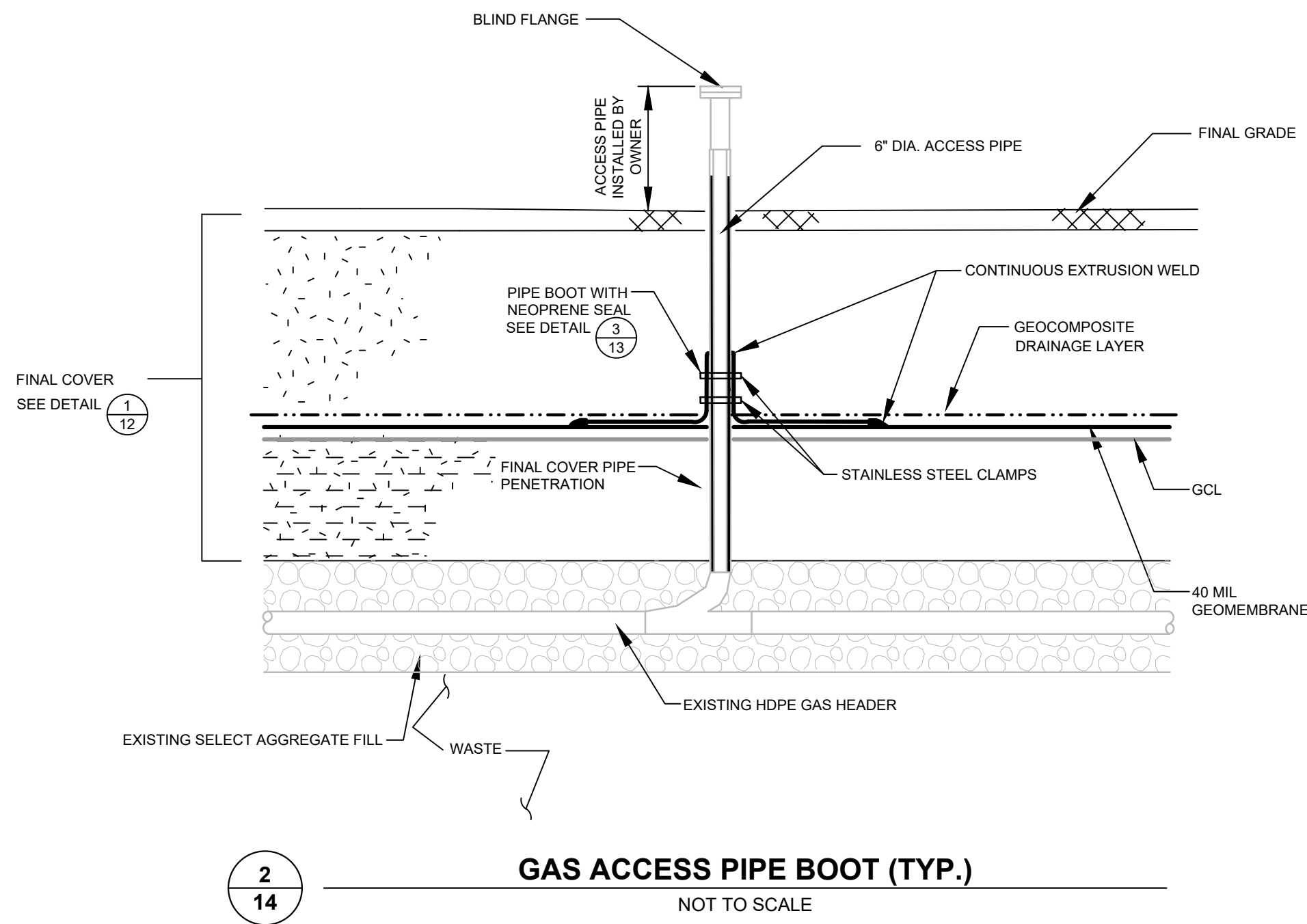
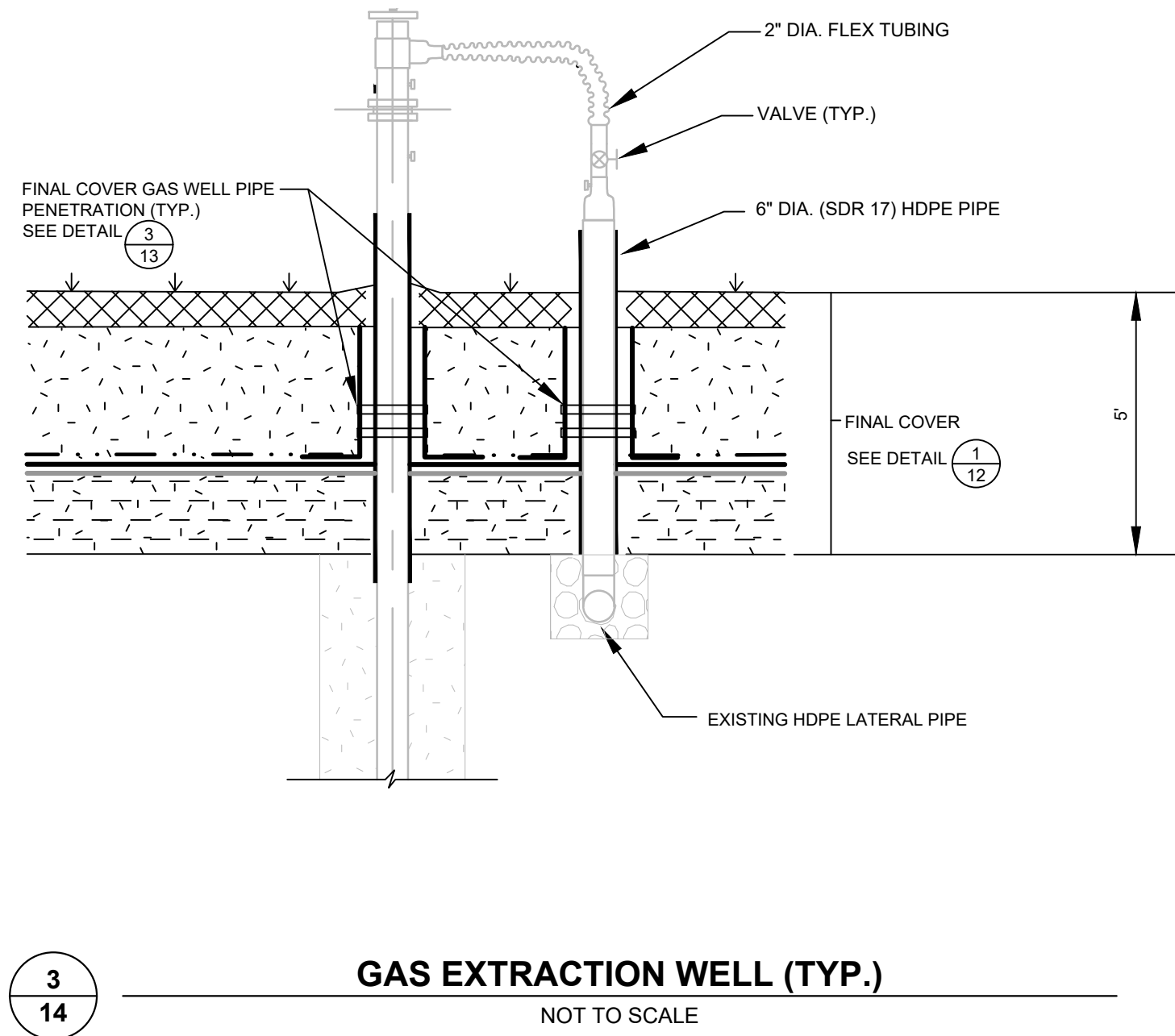
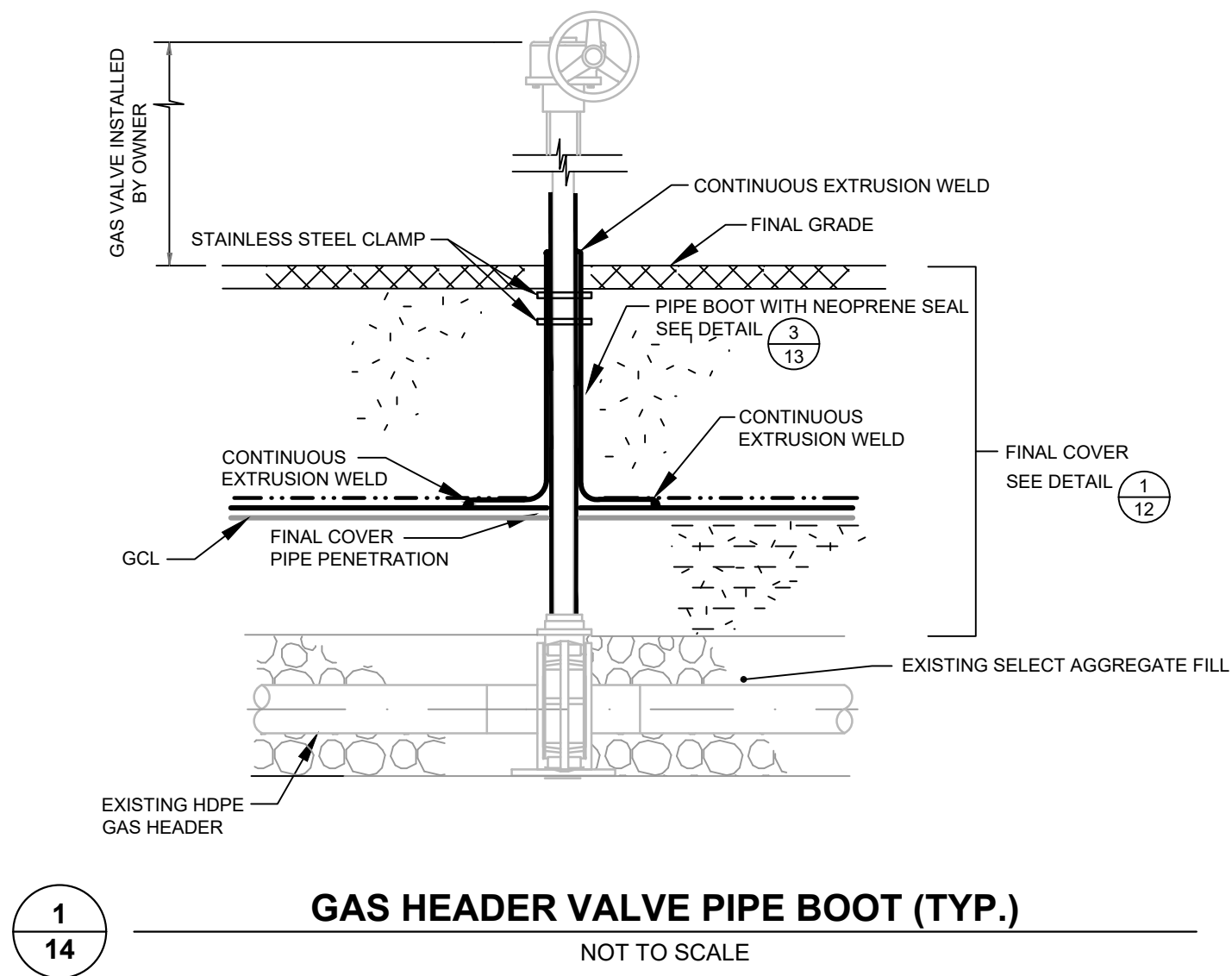
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 279395.SHTXX-DT.dwg

22634 - ATTACHED:REFS - Details_VIEWS - P9 - C2 Cross Section - ATTACHED IMAGES
DRAWING NAME: J:\Dane County LF1278395 - P9-C2 Liner Const\00000 279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:37PM --- LAYOUT: 13 Details



22634 - ... ATTACHED XREFS: Details_VIEWS - P9 - C2 Cross Section - ... ATTACHED IMAGES
DRAWING NAME: J:\Dane County LF278395 - P9-C2 Liner Const\00000 279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:37PM --- LAYOUT: 14 Details
Version: 2017.03.21



NOTE:

- EVERYTHING SCREENED REPRESENTS EXISTING FINAL COVER.
- EVERYTHING BOLD REPRESENTS CONNECTION OF NEW FINAL COVER.
- OWNER TO EXTEND EXISTING GAS SYSTEM PIPES FOR CONTRACTOR TO INSTALL PIPE BOOTS.

LINE AND SHADING LEGEND			
GEOMEMBRANE	GEOTEXTILE	GEOCOMPOSITE	GCL
TOPSOIL	GENERAL FILL	NATIVE SOIL	CONCRETE
SELECT GRANULAR FILL	BARRIER LAYER FINE GRAINED SOIL	RIPRAP	BITUMINOUS PAVING
SELECT AGGREGATE FILL		COMPACTED SELECT CLAY FILL	

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.


NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

NO.	BY	DATE	REVISION	APPD.
1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM

PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PHASE 9 - CELL 2 LINER AND STAGE 4
FINAL COVER CONSTRUCTION
DANE COUNTY, WISCONSIN**

TITLE: **DETAILS - FINAL COVER PENETRATIONS**

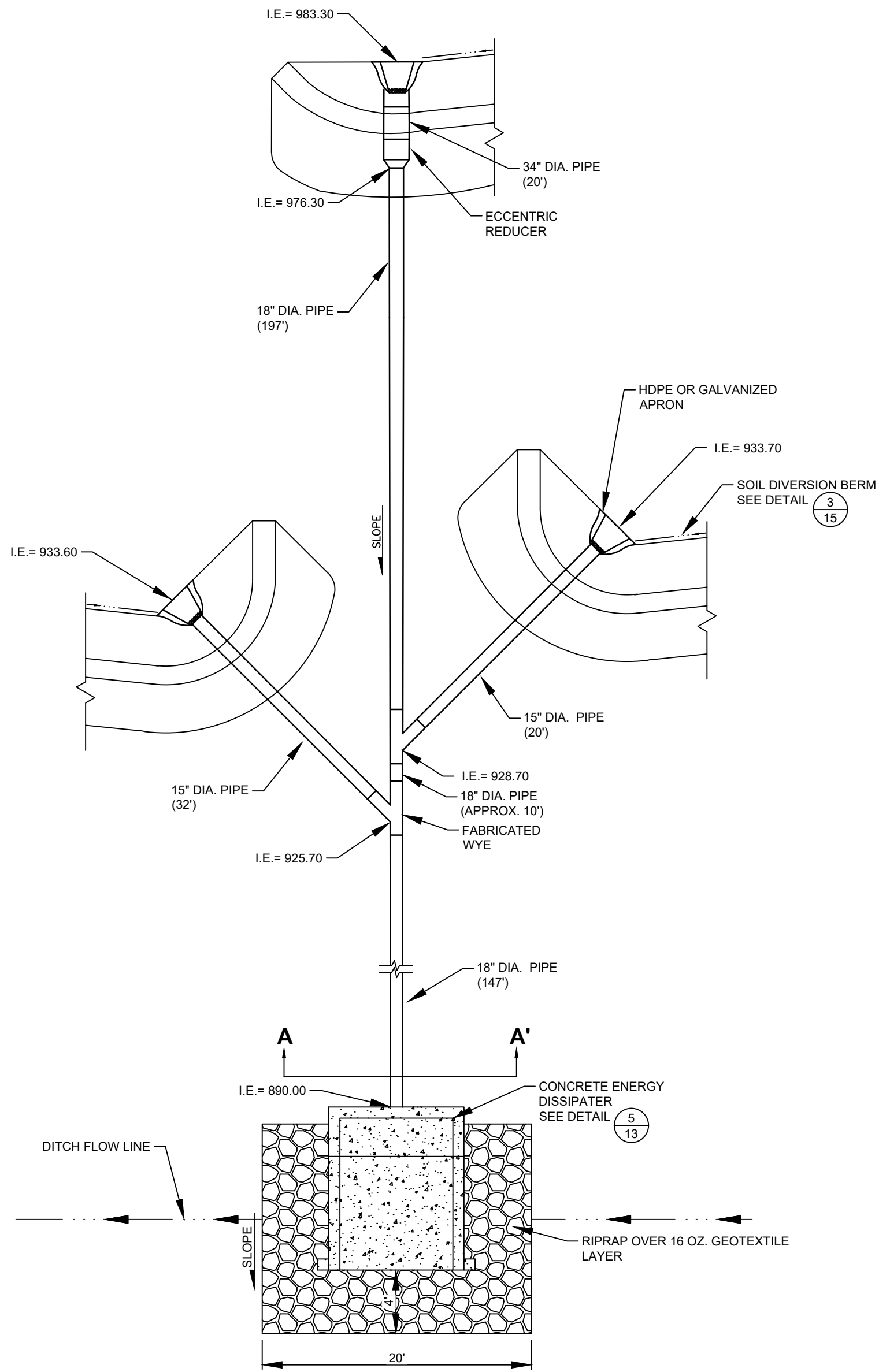
DRAWN BY:	R. NOLDEN	PROJ NO.:	2793950000.0000
CHECKED BY: <td>D. MARSHALL</td> <td colspan="2" rowspan="2">SHEET 14 OF 17</td>	D. MARSHALL	SHEET 14 OF 17	
APPROVED BY: <td>D. GENTHE</td>	D. GENTHE		
DATE: <td>JANUARY 2018</td> <td colspan="2"></td>	JANUARY 2018		



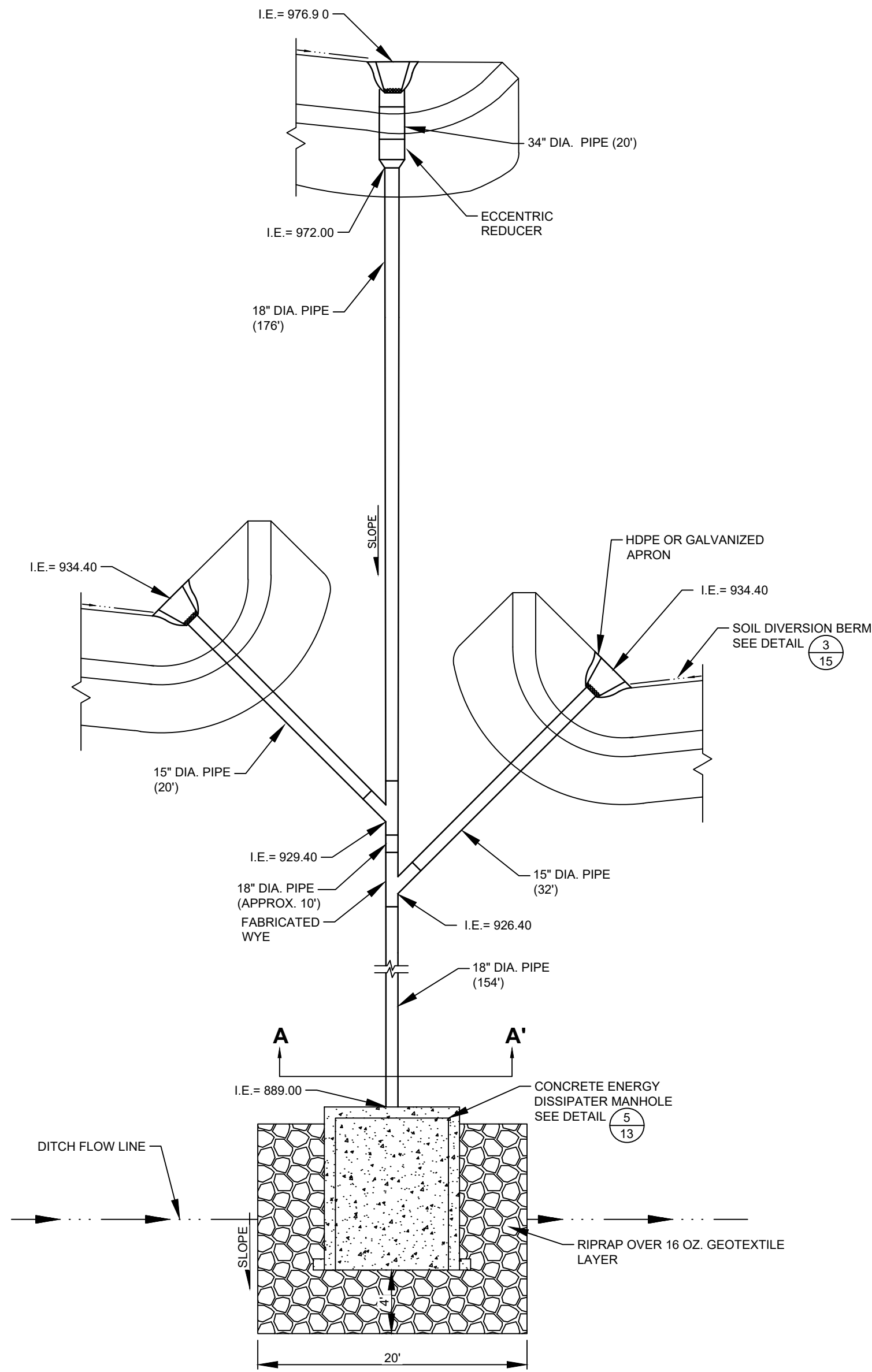
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 279395.SHTXX-DT.dwg

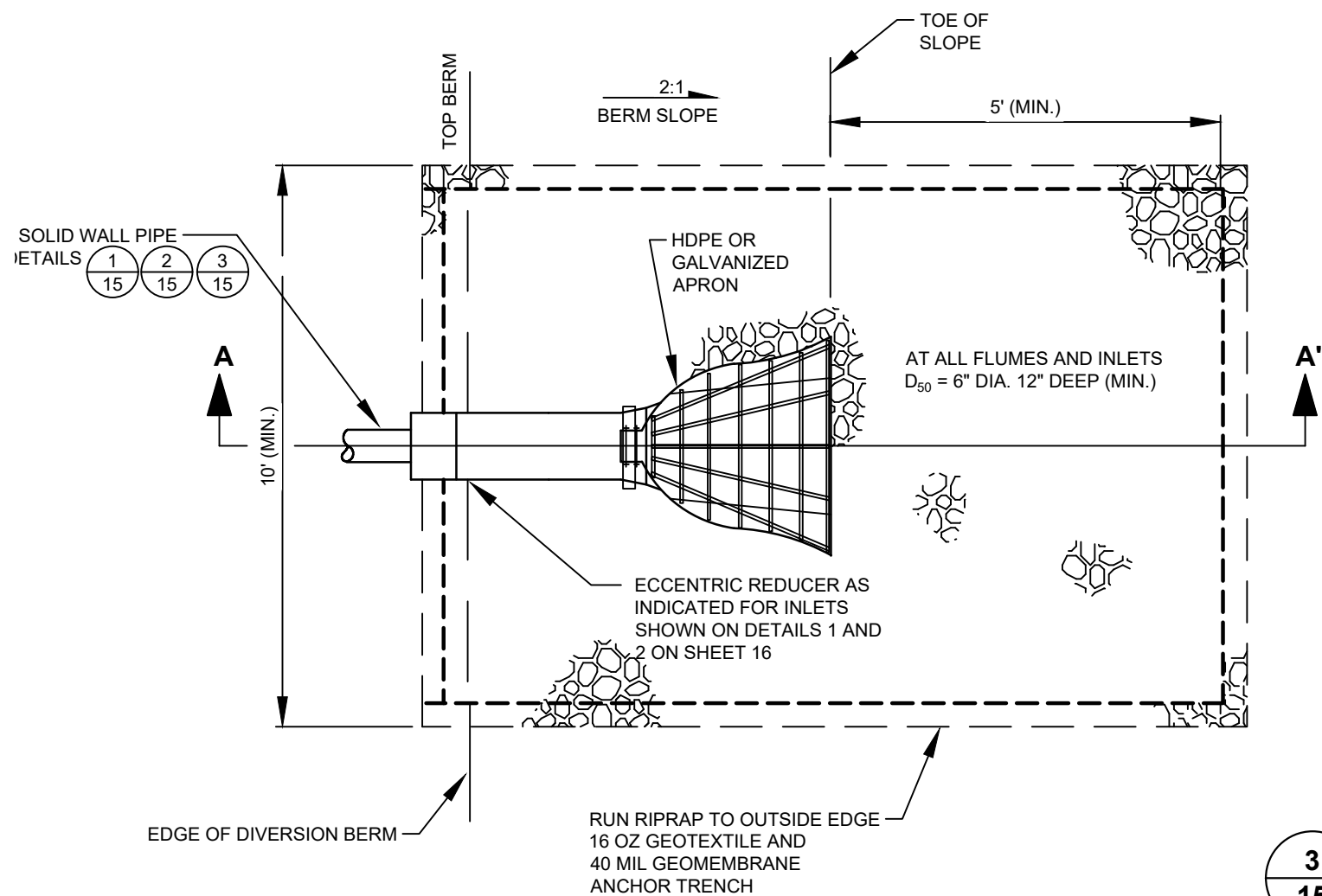
22634 - ... ATTACHED XREFS: Details_VIEWS: P9 - C2 Cross Section - ... ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF279395 - P9-C2 Liner Const\00001 279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:37PM --- LAYOUT: 15 Details



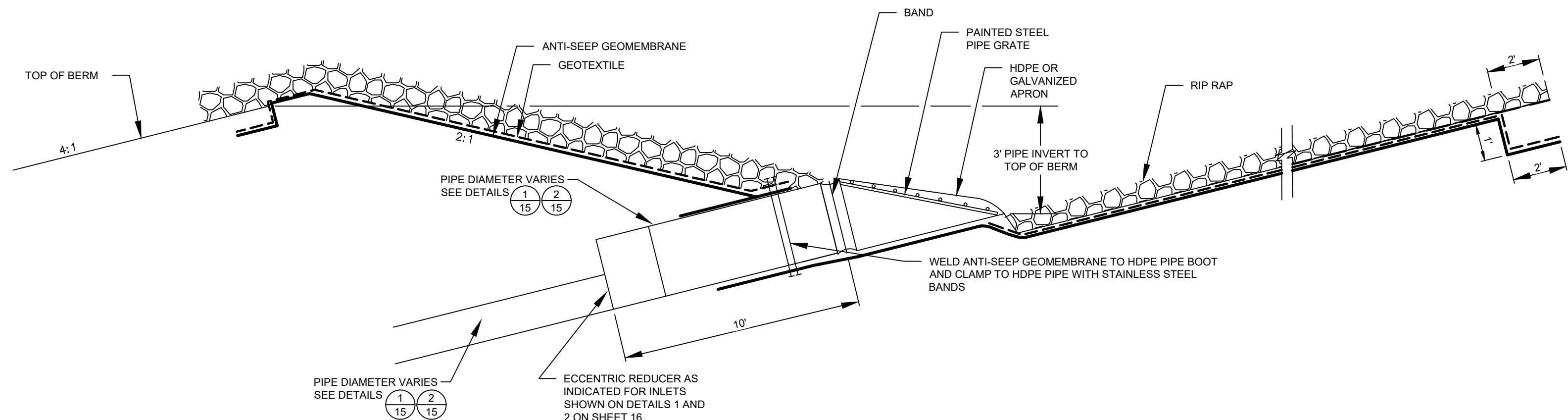
1
15
DOWNSLOPE FLUME NO. 1
NOT TO SCALE



2
15
DOWNSLOPE FLUME NO. 2
NOT TO SCALE



3
15
DOWNSLOPE FLUME INLET
NOT TO SCALE



- NOTES**
- SEE PLAN SHEET 11 FOR FLUME LOCATIONS.
 - ALL PIPES SMOOTH WALL HDPE.
 - PIPE ELEVATIONS AND LENGTHS ARE APPROXIMATE AND CAN BE ADJUSTED TO FIT CONDITIONS IN THE FIELD.

LINE AND SHADING LEGEND			
————	GEOMEMBRANE	— · — · —	GEOCOMPOSITE
----	GEOTEXTILE	————	GCL
	TOPSOIL		NATIVE SOIL
	GENERAL FILL		CONCRETE
	SELECT GRANULAR FILL		RIPRAP
	BARRIER LAYER FINE GRAINED SOIL		BITUMINOUS PAVING
	SELECT AGGREGATE FILL		COMPACTED SELECT CLAY FILL

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

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NO.	BY	DATE	REVISION	APPD.
1	LLS	1-22-18	REVISION PER DANE CO. MEETING 1-19-2018	DM

PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PHASE 9 - CELL 2 LINER AND STAGE 4
FINAL COVER CONSTRUCTION
DANE COUNTY, WISCONSIN**

TITLE: **DETAILS - DOWNSLOPE FLUMES**

DRAWN BY:	R. NOLDEN	PROJ NO:	2793950000.0000
CHECKED BY:	D. MARSHALL	SHEET 15 OF 17	
APPROVED BY:	D. GENTHE		
DATE:	JANUARY 2018		

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 279395.SHTXX-DT.dwg



22634 --- ATTACHED XREFS: Details_VIEWS: P9 - C2 Cross Section --- ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF278395 - P9-C2 Liner Const\00000 279395 SHTXX-DT.dwg --- PLOT DATE: January 23, 2018 - 2:38PM --- LAYOUT: 17 Details
Version: 2017-03-21

NOTES:

1. AVOID JOINTS IN GEOTEXTILE. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE UPWARD TOWARD SURFACE WATER FLOW DIRECTION.
2. POST SPACING 2-FEET IF NON-WOVEN GEOTEXTILE IS USED AND 8-FEET IF WOVEN GEOTEXTILE IS USED.
3. GEOTEXTILE SHALL MEET THE REQUIREMENTS SPECIFIED IN THE PROJECT MANUAL.
4. IN AREAS OF EXISTING FINAL COVER, ENSURE POSTS ARE NOT DRIVEN DEEP ENOUGH TO PENETRATE GEOSYNTHETIC LAYERS.

CROSS SECTION VIEW

CROSS SECTION VIEW

STONE WEEPERS
NOT TO SCALE

Step 1

Step 2

Step 3

TWIST METHOD A

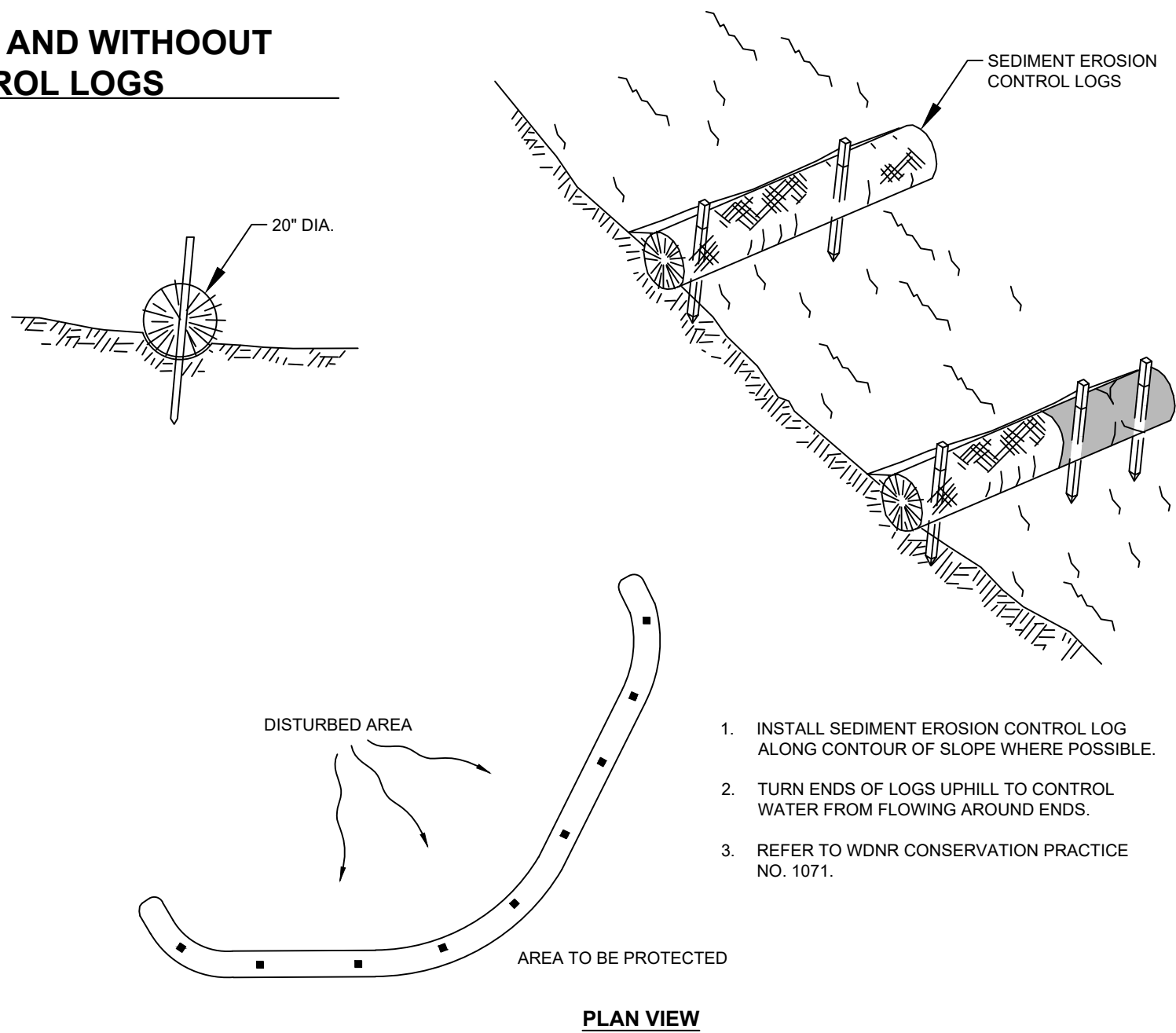
HOOK METHOD B

WITH CURVED LOG

JOINING TWO LENGTHS OF SILT FENCE

EROSION CONTROL FENCE (WITH AND WITHOUT
SEDIMENT EROSION CONTROL LOGS)
NOT TO SCALE

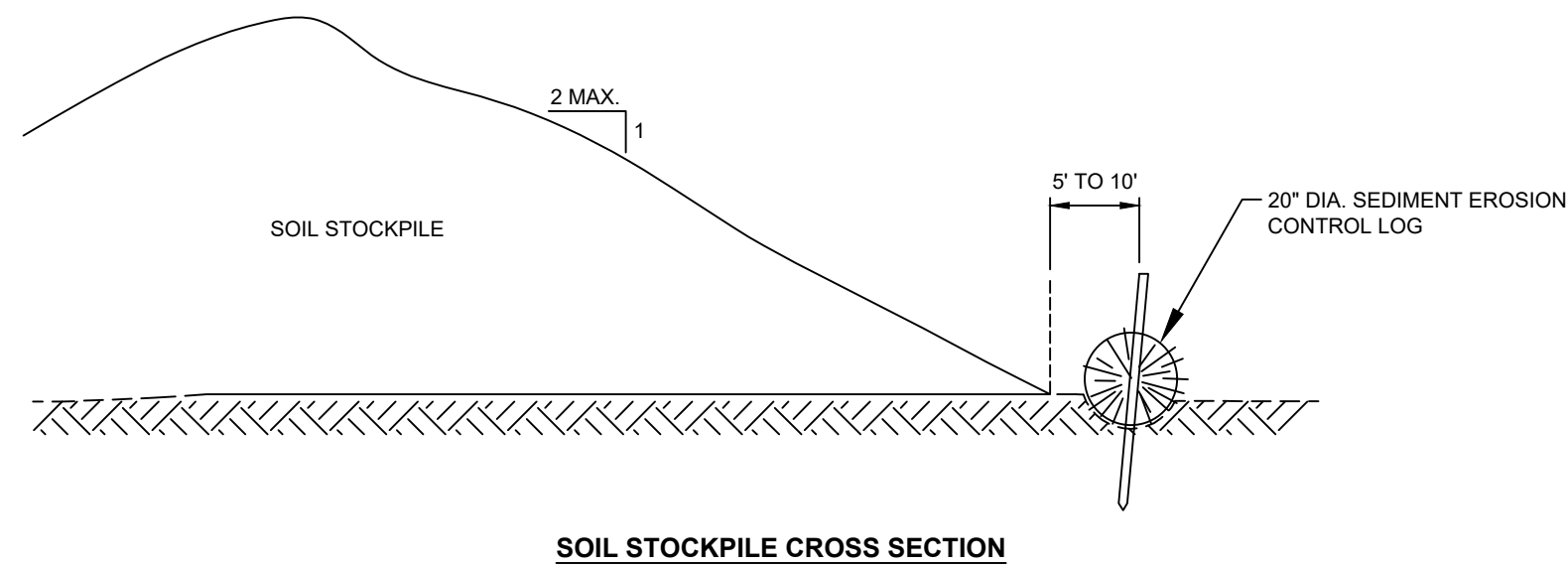
STONE TRACKING PAD
NOT TO SCALE



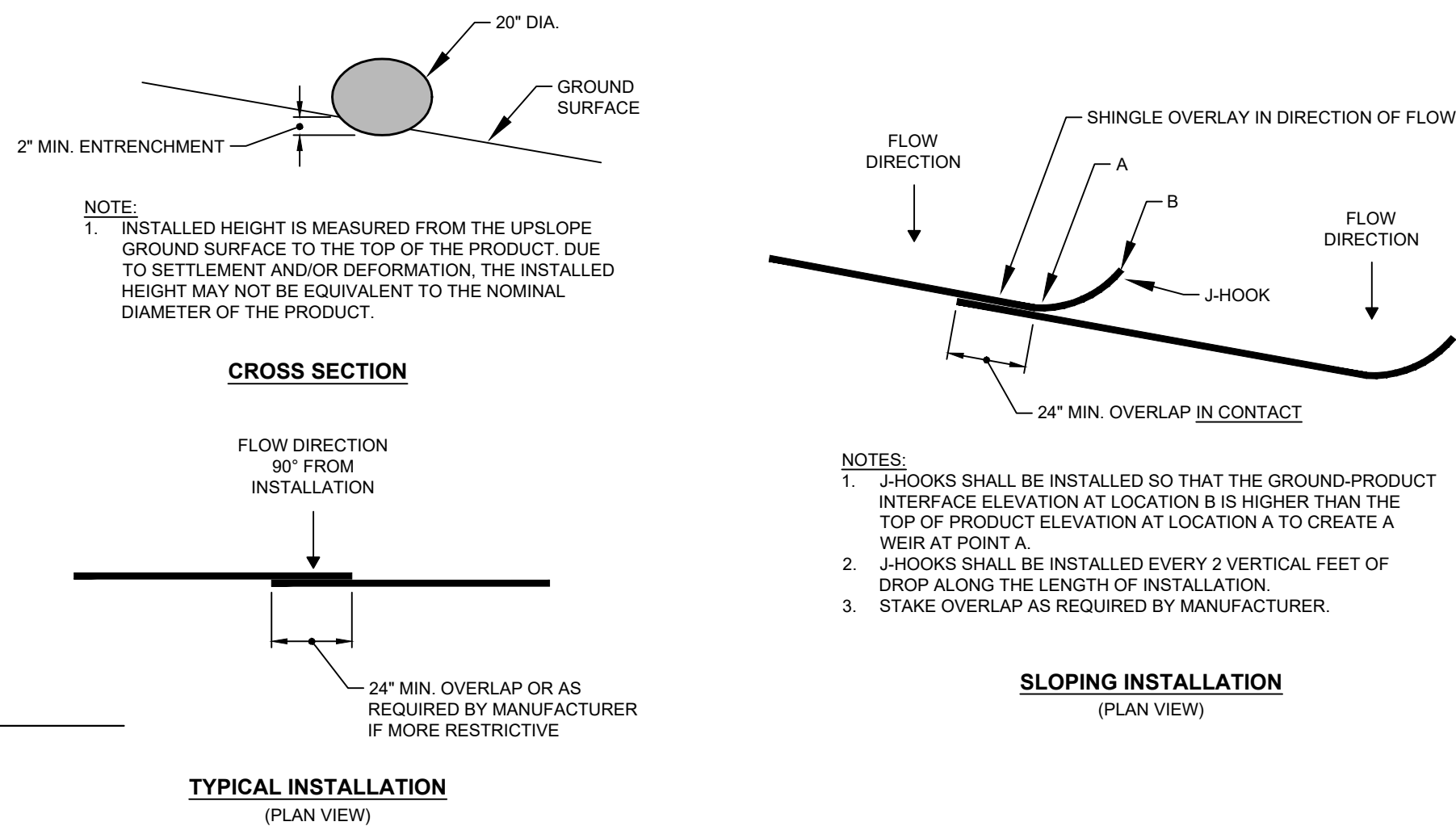
1. INSTALL SEDIMENT EROSION CONTROL LOG ALONG CONTOUR OF SLOPE WHERE POSSIBLE.
2. TURN ENDS OF LOGS UP HILL TO CONTROL WATER FROM FLOWING AROUND ENDS.
3. REFER TO WDNR CONSERVATION PRACTICE NO. 1071.

PLAN VIEW

SEDIMENT EROSION CONTROL LOGS
NOT TO SCALE



SOIL STOCKPILE CROSS SECTION



- NOTES:
1. J-HOOKS SHALL BE INSTALLED SO THAT THE GROUND-PRODUCT INTERFACE ELEVATION AT LOCATION B IS HIGHER THAN THE TOP OF PRODUCT ELEVATION AT LOCATION A TO CREATE A WEIR AT POINT A.
 2. J-HOOKS SHALL BE INSTALLED EVERY 2 VERTICAL FEET OF DROP ALONG THE LENGTH OF INSTALLATION.
 3. STAKE OVERLAP AS REQUIRED BY MANUFACTURER.

SLOPING INSTALLATION
(PLAN VIEW)

LINE AND SHADING LEGEND

GEOMEMBRANE	GEOCOMPOSITE
GEOTEXTILE	GCL
TOPSOIL	NATIVE SOIL
GENERAL FILL	CONCRETE
SELECT GRANULAR FILL	RIPRAP
BARRIER LAYER FINE GRAINED SOIL	BITUMINOUS PAVING
SELECT AGGREGATE FILL	COMPACTED SELECT CLAY FILL

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PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PHASE 9 - CELL 2 LINER AND STAGE 4
FINAL COVER CONSTRUCTION
DANE COUNTY, WISCONSIN**

DETAILS - EROSION CONTROL

DRAWN BY:	R. NOLDEN	PROJ NO.:	2793950000.0000
CHECKED BY:	D. MARSHALL		
APPROVED BY:	D. GENTHE		
DATE:	JANUARY 2018		

SHEET 17 OF 17



708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 279395.SHTXX-DT.dwg

SITE TOUR MINUTES

RFP 317053
CONSTRUCTION QUALITY ASSURANCE REPRESENTATIVE
DANE COUNTY LANDFILL SITE #2
7102 U.S. HIGHWAY 12 & 18, MADISON, WI
THURSDAY, FEBRUARY 25, 2018 @ 12:00 PM

- Introduction – sign in
- Description of Work
 - On-site CQA work, soil and geosynthetic sampling and testing, and WDNR reporting.
 - **Final Cap: approximately 19 acres**
 - **Cell Liner: approximately 5 acres**
- Construction schedule
 - Commencement: March 26, 2018
 - Substantial Completion: September 7, 2018 (Stage 4 Final Cap and Westport Site)
October 19, 2018 (Phase 9, Cell 2 Liner)
- Bid Opening on Thursday, February 8, 2018 at 2:00 p.m. at Public Works office, 1919 Alliant Energy Center Way, Madison WI 53713
- Plans, Specifications, and Addenda available on the Dane County Public Works website (bids-pwht.countyofdane.com) for free download.
 - **AutoCAD versions of plan set located on RFP/RFB website under RFB 317040.**
 - **Please note, Stage 3 Construction Documentation Report has NOT been submitted to WDNR.**
- Addenda
 - Timeline for questions – last day to submit is January 29, 2018
 - **Addendum No. 1 for RFB 317040**
- Include with proposal:
 - Fair Labor Practices Certification form
 - Signed addenda (if applicable)
- Before award:
 - Must be a *paid registered vendor* with Dane County
 - www.danepurchasing.com
 - 608/266-4131
- Submittals required once contract is awarded
 - Insurance with “Dane County” listed as additional insured
 - Signed NTP
 - Weekly Erosion Control Inspection Reports
 - WDNR Preconstruction and Construction Documentation Reports

- Work by Owner: WDNR soil borrow source permitting and plan modifications, erosion control permitting, and CQA for Westport Site.
 - County to perform direct shear testing.
 - County to provide leak location testing.
 - County to provide videotaping of leachate lines.
- Project security/safety – public, traffic, methane, other construction (biogas facility, etc.).
- Must comply with City of Madison Noise Ordinance (24.08) – Construction noise allowed between 7 AM – 7 PM Monday thru Saturday and 10 AM - 7 PM on Sunday.
- Questions on procedure or requirements
- Site tour

SITE TOUR ATTENDANCE SHEET

PROPOSAL NO. 317053
CONSTRUCTION QUALITY ASSURANCE REPRESENTATIVE
DANE COUNTY LANDFILL SITE #2
7102 U.S HIGHWAY 12 & 18, MADISON, WI
THURSDAY, FEBRUARY 25, 2018 @ 12:00 PM

NAME	COMPANY	PHONE	E-MAIL
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