

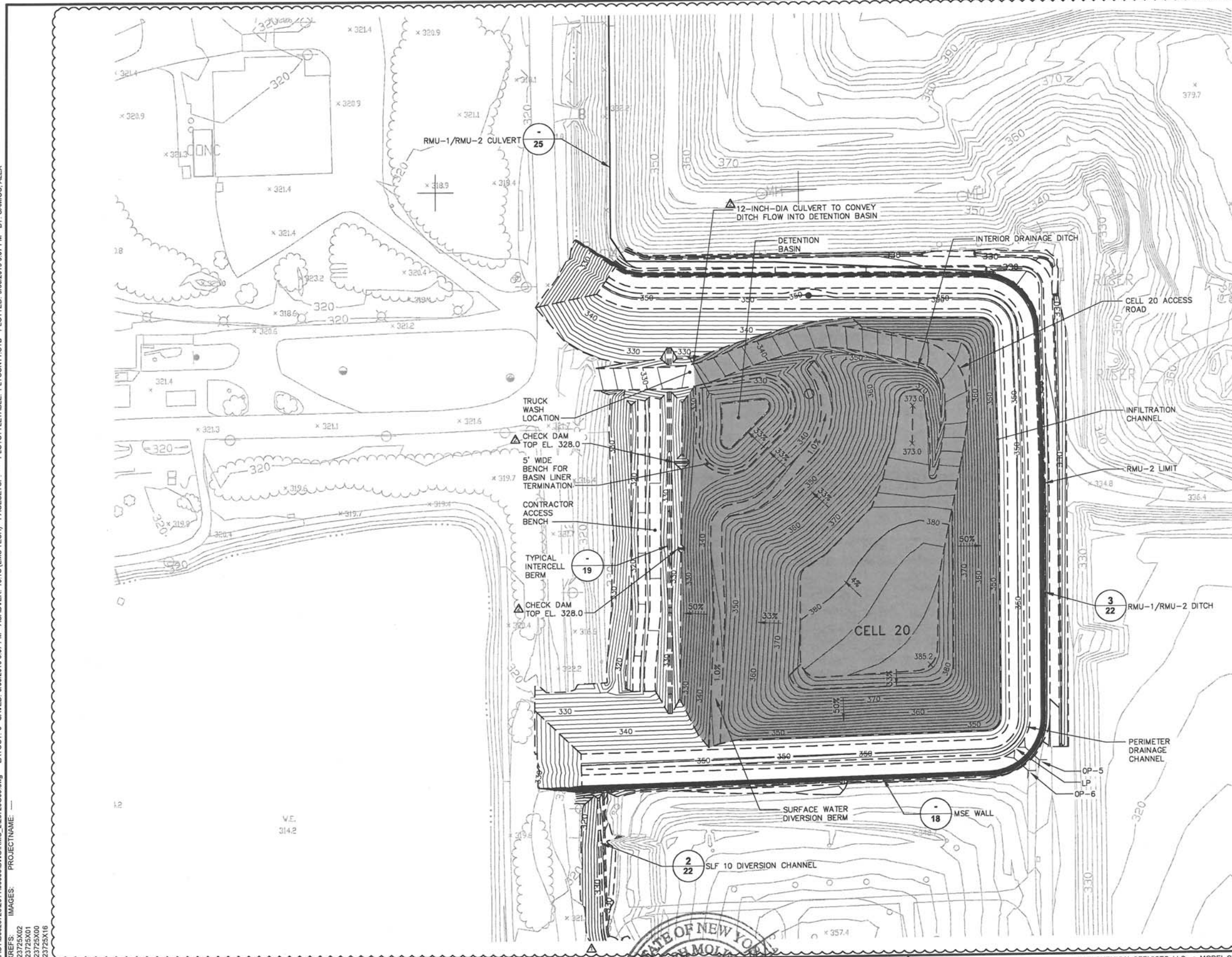


## TOP OF VEGETATIVE COVER GRADES

## GENERAL

**ARCADIS of New York, Inc.**  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York  
TEL. 315.446.9120

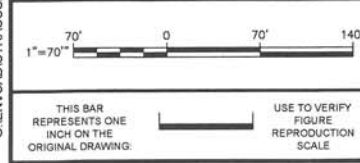
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XREFS: 23725X02 23725X01 23725X00 23725X16  
IMAGES: PROJECTNAME: ---



- LEGEND:
- APPROXIMATE PROPERTY LINE
  - 310 PROPOSED INDEX ELEVATION CONTOUR
  - 308 PROPOSED INTERMEDIATE ELEVATION CONTOUR
  - PROPOSED GRADE BREAK
  - PROPOSED RISER MANHOLE (2/13)
  - PROPOSED LEACHATE RISER VAULT
  - CV-1 PROPOSED PERIMETER DITCH CULVERT AND ID (1/23)
  - OP-3 PROPOSED PERIMETER DITCH CULVERT AND ID (1/24)
  - x 320.0 PROPOSED SPOT ELEVATION
  - LP PROPOSED PERIMETER DITCH LOW POINT
  - HP PROPOSED PERIMETER DITCH HIGH POINT
  - 200' PERMANENT CONTROL MONUMENT
  - E 12500 N 10000 COORDINATE GRID
  - 2/14 DETAIL REFERENCE NUMBER
  - 14 DRAWING REFERENCE NUMBER
  - WASTE PLACEMENT AREA

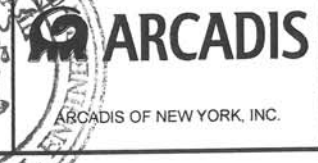
NOTES:

1. REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
2. PROPOSED GRADES SHOWN REPRESENT A COMBINATION OF FINAL AND INTERIM MSE WALL GRADES, OPERATIONS LAYER GRADES, AND INTERIM WASTE GRADES.
3. ACCESS ROAD TO BE CONSTRUCTED OVER CELL SEPARATION BERM.



No.	Date	Revisions
1	5/2013	REVISED ACCESS ROAD GRADING AND ADDED CULVERT SIZE AND CHECK DAMS
2	2/2013	CHANGED INITIAL OPERATING CELL FROM 15 TO 20 AND MISCELLANEOUS REVISIONS

Professional Engineer's Name  
**JOSEPH MOLINA**  
Professional Engineer's No.  
072644  
State  
NY  
Date Signed  
6/3/13  
Project Mgr.  
WAR  
Designed by  
BMS/PTO  
Drawn by  
SJK  
Checked by  
BMS

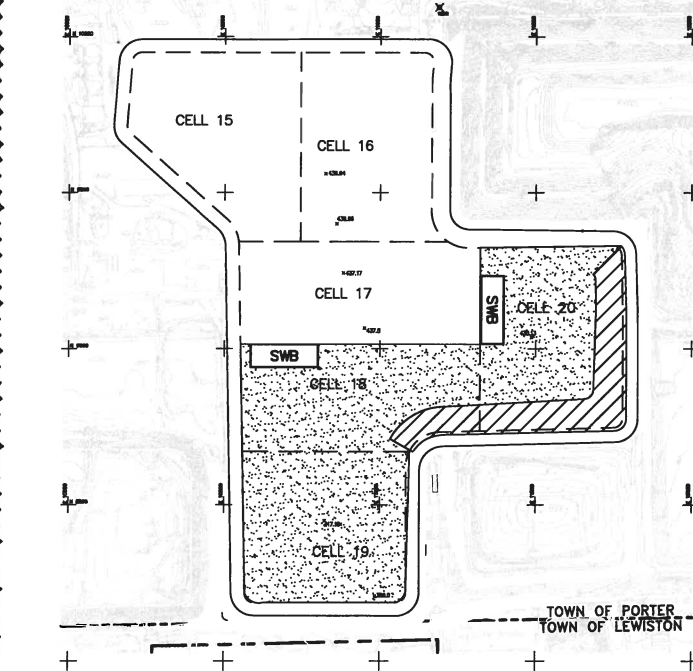


CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK  
RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING  
**CELL 20 INITIAL FILL PROGRESSION**  
GENERAL

ARCADIS Project No.  
B0023725.2009.00006  
Date  
AUGUST 2009  
ARCADIS of New York, Inc.  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York  
TEL. 315.445.9120

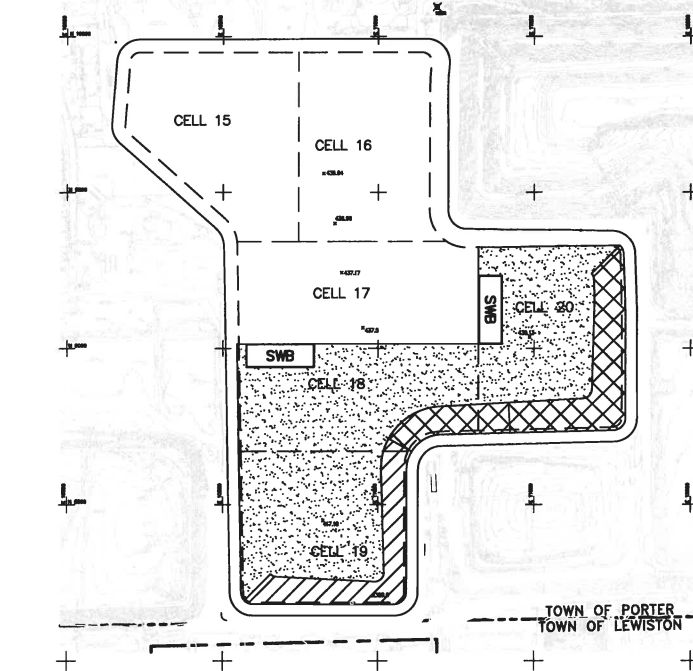
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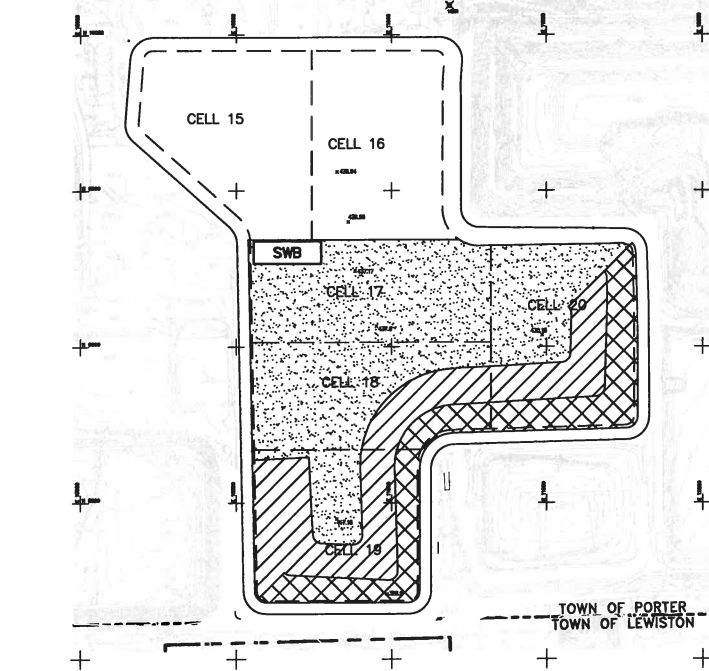
NOTE:  
1. CELLS 18, 19, AND 20 ASSUMED TO BE CONSTRUCTED AND ACTIVE IN THIS PHASE.

**PHASE 1**  
SCALE: 1" = 300'



NOTE:  
1. CELLS 18, 19, AND 20 ASSUMED TO BE CONSTRUCTED AND ACTIVE IN THIS PHASE.

**PHASE 2**  
SCALE: 1" = 300'



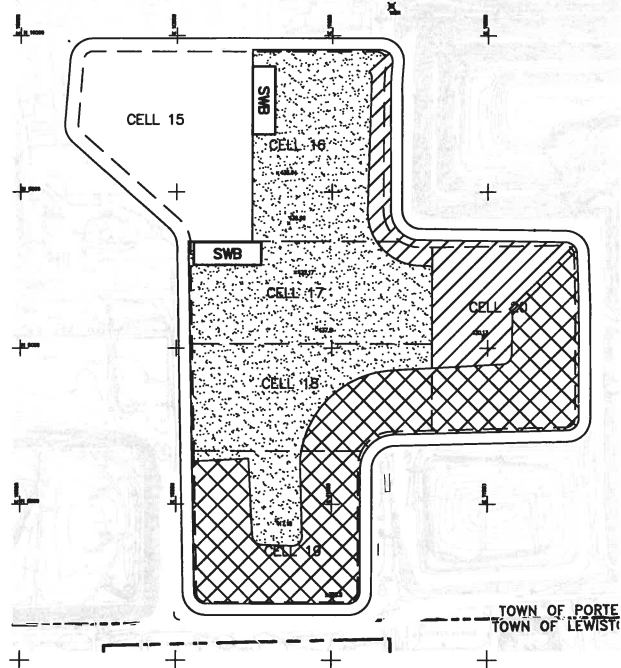
NOTE:  
1. CELLS 17, 18, 19 AND 20 ASSUMED TO BE CONSTRUCTED AND ACTIVE IN THIS PHASE.

**PHASE 3**  
SCALE: 1" = 300'

- LEGEND:**
- APPROXIMATE PROPERTY LINE
  - - - PROPOSED CELL DIVIDE
  - [Stippled Box] NEWLY INSTALLED FINAL COVER
  - [Cross-hatch Box] FINAL COVER INSTALLED DURING PRIOR PHASES
  - [Dotted Box] WASTE FILLING
  - [SWB Box] STORMWATER BASIN (SEE NOTE 2)

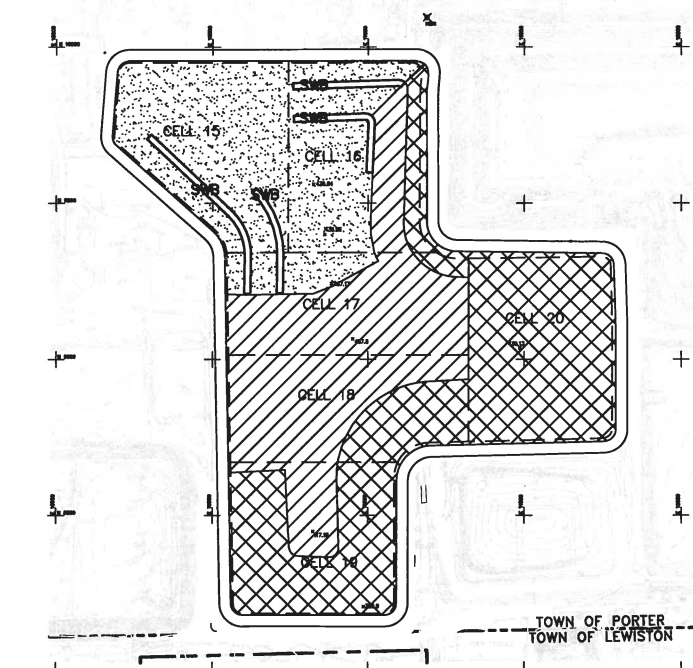
12500  
N 10000  
E  
COORDINATE GRID

- GENERAL NOTES:**
- REFER TO DRAWING NO. 2 FOR ADDITIONAL BASE MAP INFORMATION.
  - STORMWATER BASINS ARE DEPICTED TO ILLUSTRATE POSSIBLE LOCATIONS AND ARE NOT INTENDED TO REPRESENT REQUIRED SIZES. LOCATIONS ARE BASED ON ALLOWANCE FOR CONSTRUCTION OF FINAL COVER IN EACH PHASE.
  - THIS DRAWING DEPICTS POSSIBLE WASTE FILLING AND FINAL COVER SEQUENCING. OTHER WASTE FILLING AND FINAL COVER SEQUENCING POSSIBILITIES EXIST AND MAY BE EMPLOYED.
  - DUE TO THE CONCEPTUAL NATURE OF THIS DRAWING, DIFFERENCES IN ACTUAL WASTE FILLING AND FINAL COVER SEQUENCING SHOULD BE EXPECTED AND WILL NOT REQUIRE PERMIT MODIFICATION IN ORDER TO IMPLEMENT.



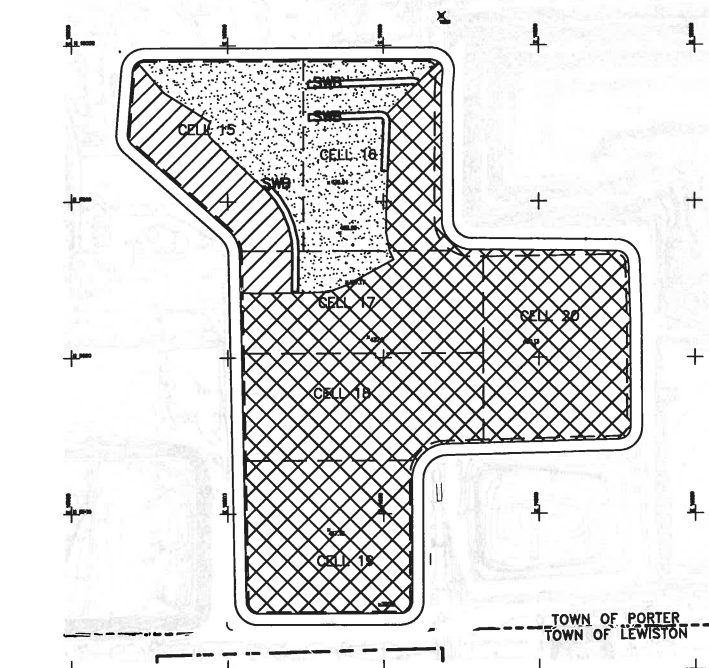
NOTE:  
1. CELLS 16, 17, 18, 19 AND 20 ASSUMED TO BE CONSTRUCTED IN THIS PHASE. CELLS 15, 16, AND 17 ASSUMED TO BE ACTIVE AT THE END OF THIS PHASE.

**PHASE 4**  
SCALE: 1" = 300'



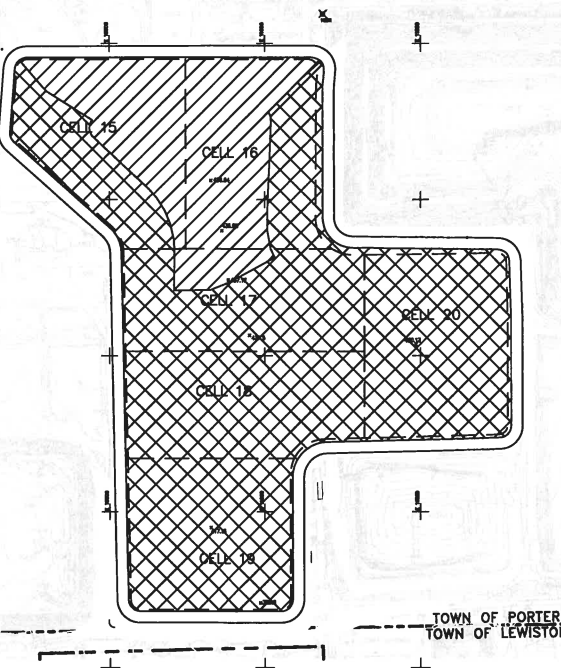
NOTE:  
1. ALL CELLS ASSUMED TO BE CONSTRUCTED IN THIS PHASE. CELLS 15, 16, AND 17 ASSUMED TO BE ACTIVE AT THE END OF THIS PHASE.

**PHASE 5**  
SCALE: 1" = 300'



NOTE:  
1. ALL CELLS ASSUMED TO BE CONSTRUCTED IN THIS PHASE. CELLS 15, 16, AND 17 ASSUMED TO BE ACTIVE AT THE END OF THIS PHASE.

**PHASE 6**  
SCALE: 1" = 300'



NOTE:  
1. ALL CELLS ASSUMED TO BE CONSTRUCTED IN THIS PHASE. LANDFILL IS COMPLETELY CAPPED AT THE END OF THIS PHASE.

**PHASE 7**  
SCALE: 1" = 300'

1"=300' 0 300' 600'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	PTO	BMS
1	2/20/12			

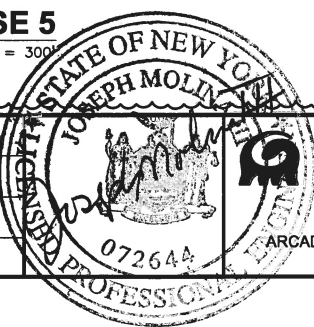
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Professional Engineer's Name  
**JOSEPH MOLINA**  
Professional Engineer's No.  
072644

State  
NY  
Designed by  
BMS/PTO

Date Signed  
2/20/12  
Checked by  
LAF

Project Mgr.  
TJF  
BMS



**ARCADIS**

ARCADIS OF NEW YORK, INC.

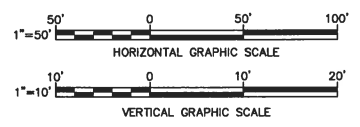
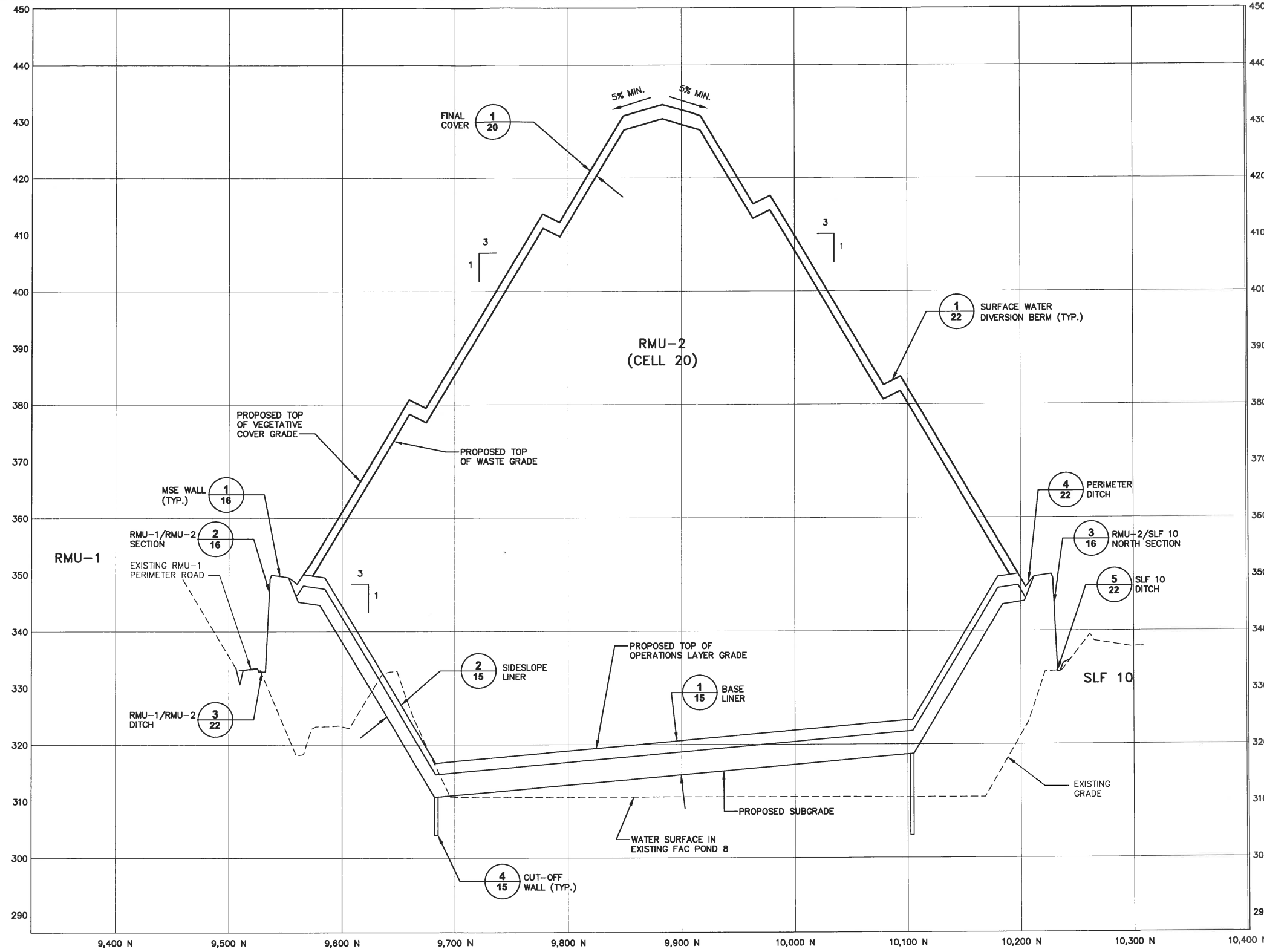
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RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING

## CONCEPTUAL WASTE FILLING AND FINAL COVER SEQUENCING

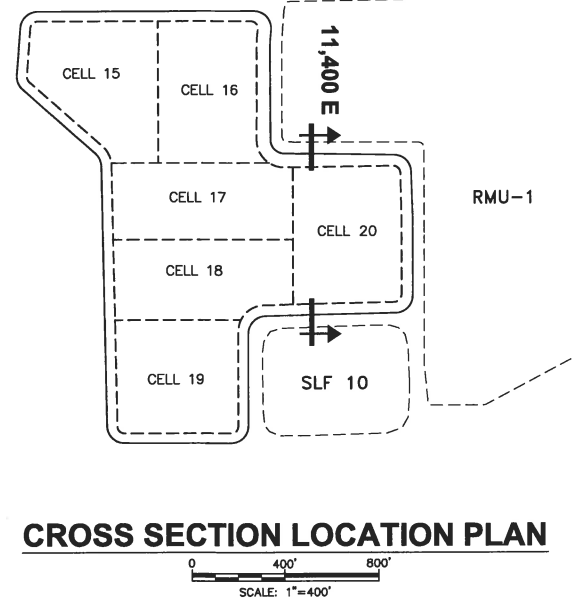
GENERAL

ARCADIS Project No.  
B0023725.2009.00006  
Date  
AUGUST 2009  
ARCADIS of New York, Inc.  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York  
TEL. 315.446.9120

CITY: SYRACUSE DIV/GROUP: EN/CAD DE: K. DAVIS L. FORAKER K. DAVIS LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LTR: ON\*OFF\*REF\*  
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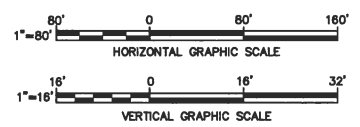
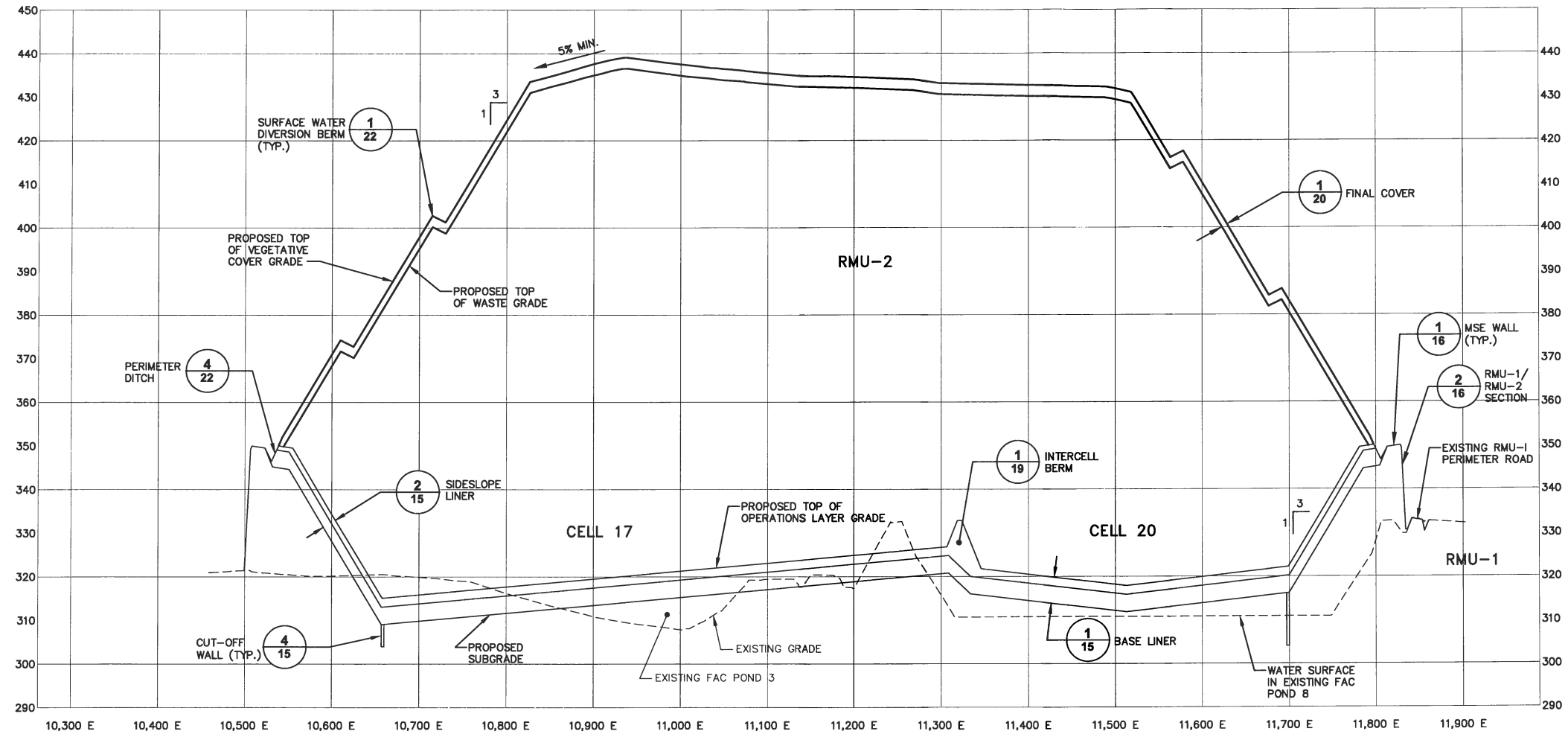


NOTE:  
1. REFER TO DRAWING NO. 2 FOR BASE MAP INFORMATION.



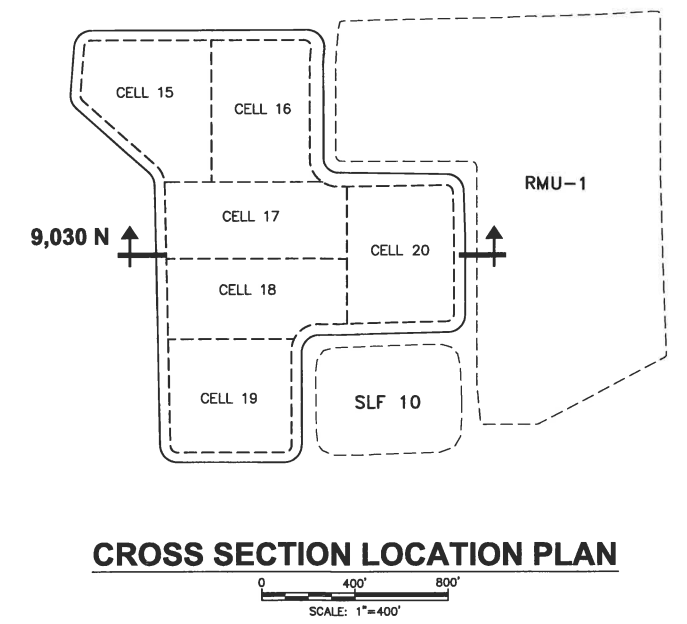
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THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		Professional Engineer's Name <b>JOSEPH MOLINA</b> Professional Engineer's No. 072644		ARCADIS OF NEW YORK, INC.		CROSS SECTION 11,400 E		Date AUGUST 2009		
USE TO VERIFY FIGURE REPRODUCTION SCALE		State NY Date Signed 2/21/13 Project Mgr WAR Designed by BMS/PTO Drawn by SJK Checked by BMS		GENERAL		ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL. 315.446.9120				

CITY: SYRACUSE DIV/GROUP: ENV/CAD DB: K. DAVIS L. FORAKER K. DAVIS LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LVR: ON="OFF"-REF\*  
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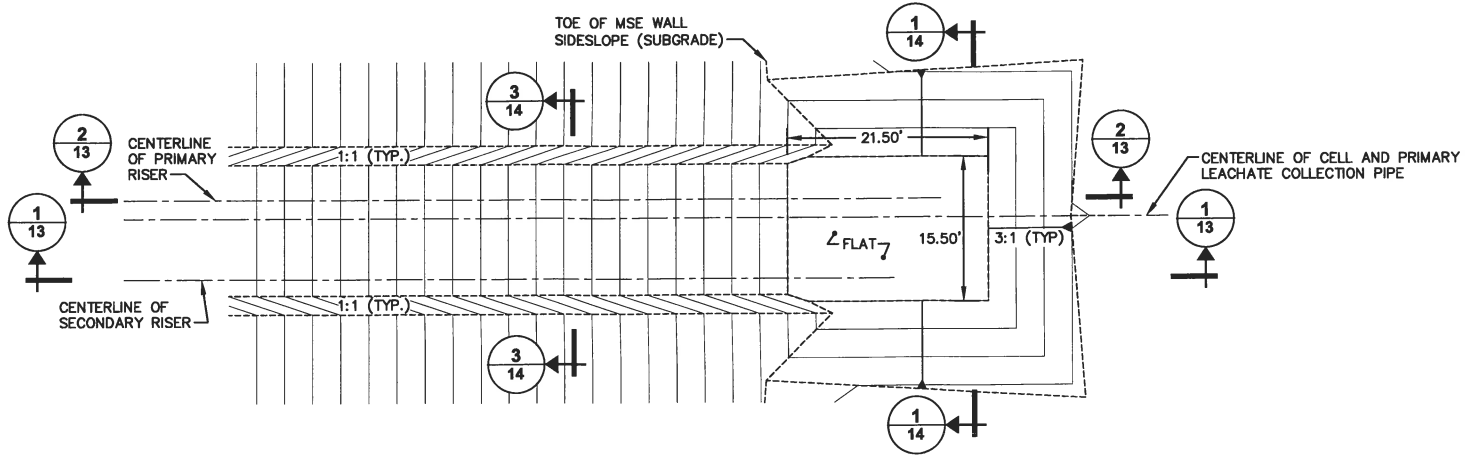
SECTION 1

NOTE:  
1. REFER TO DRAWING NO. 2 FOR BASE MAP INFORMATION.

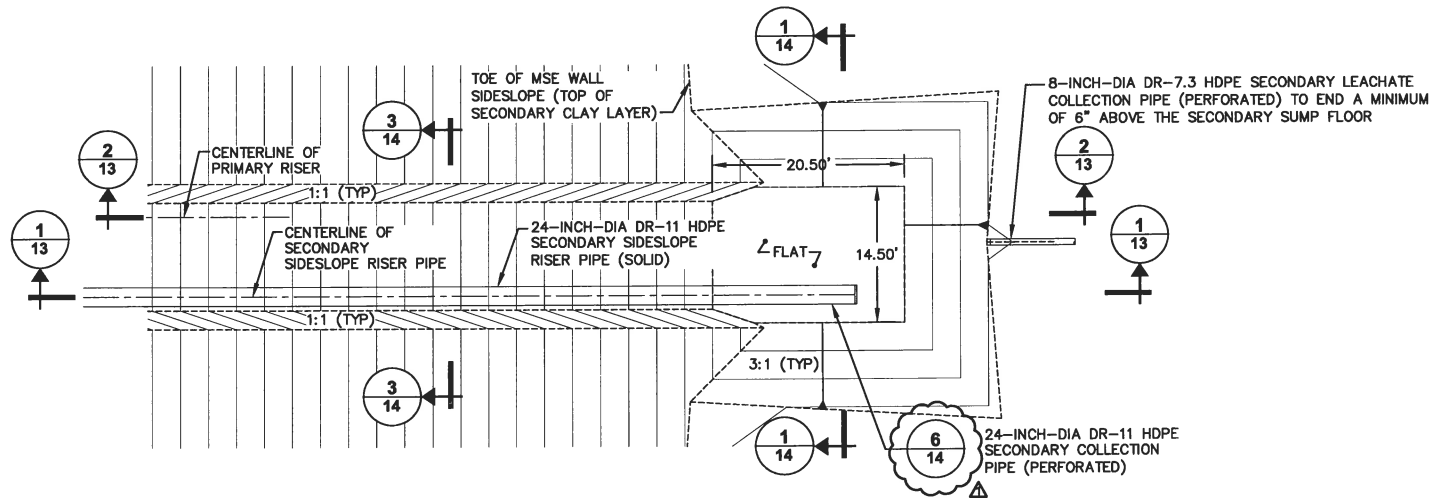


CROSS SECTION LOCATION PLAN

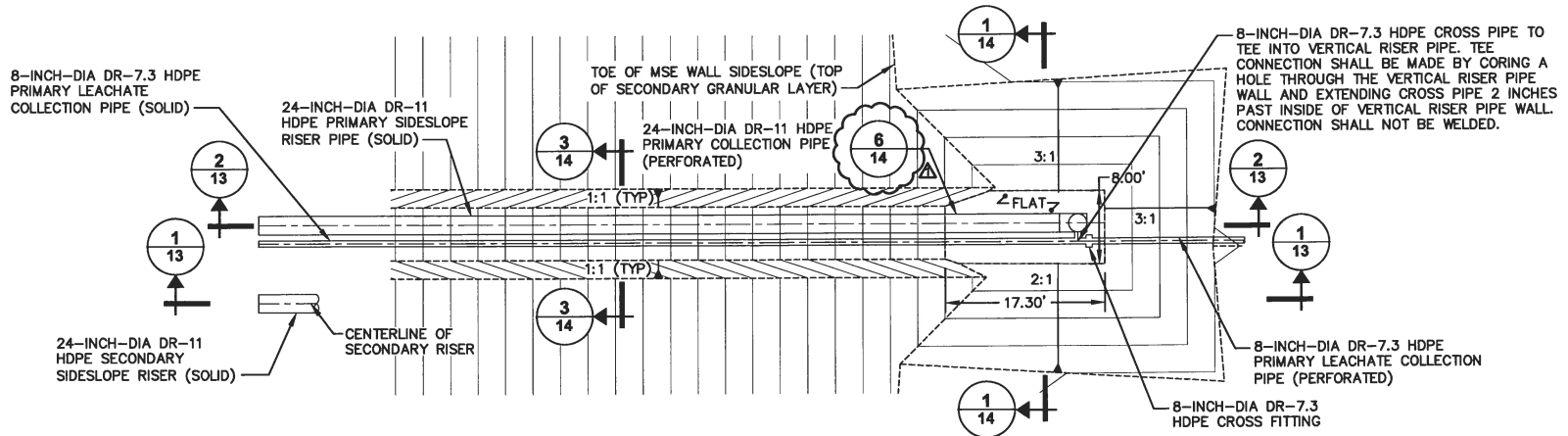
SCALE(S) AS INDICATED		Professional Engineer's Name <b>JOSEPH MOLINA</b> Professional Engineer's No. 072644		 ARCADIS OF NEW YORK, INC.	CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING  <b>CROSS SECTION 9,030 N</b>  GENERAL	ARCADIS Project No. B0023725.2009.00006	<b>11</b>
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		State NY Date Signed 2/27/13 Project Mgr. WAR Designed by BMS/PTO Drawn by SJK Checked by BMS				Date AUGUST 2009	
USE TO VERIFY FIGURE REPRODUCTION SCALE		THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.				ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 68 Syracuse, New York TEL. 315.446.9120	



LEACHATE COLLECTION SUMP SUBGRADE PLAN (1)



SECONDARY LEACHATE COLLECTION SUMP AND SIDESLOPE RISER PIPE (TOP OF SECONDARY LINER) (2)



PRIMARY LEACHATE COLLECTION SUMP AND SIDESLOPE RISER PIPE (TOP OF PRIMARY LINER) (3)

CITY: SYRACUSE DIV/GROUP: ENVCAD DE: K. DAVIS G. STOWELL L. FORAKER LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LTR: ON\*-OFF\*-REF\*  
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XREFS: IMAGES: PROJECTNAME: 1  
Z3725X00

1"=10'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	GNG	BMS
1	2/2013	REVISED CALLOUT		

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Professional Engineer's Name  
**JOSEPH MOLINA**  
Professional Engineer's No.  
072644

State  
NY

Date Signed  
2/27/13

Project Mgr  
WAR

Designed by  
BMS/PTO

Drawn by  
SJK

Checked by  
BMS

**ARCADIS**  
ARCADIS OF NEW YORK, INC.

CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK  
RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING

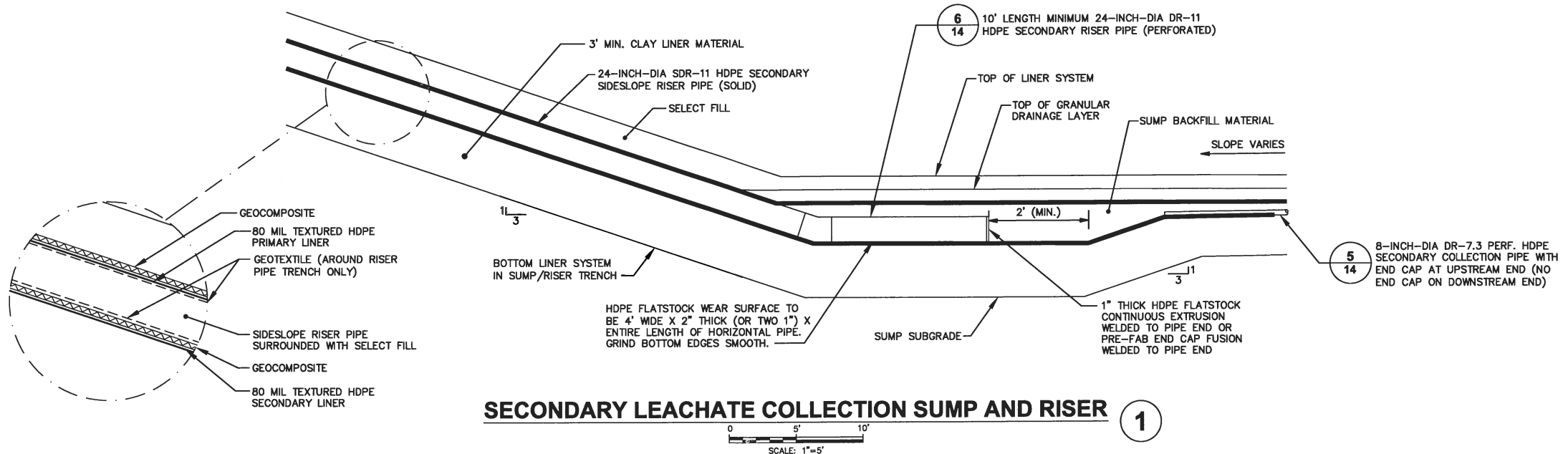
**TYPICAL SUMP PLANS**

GENERAL

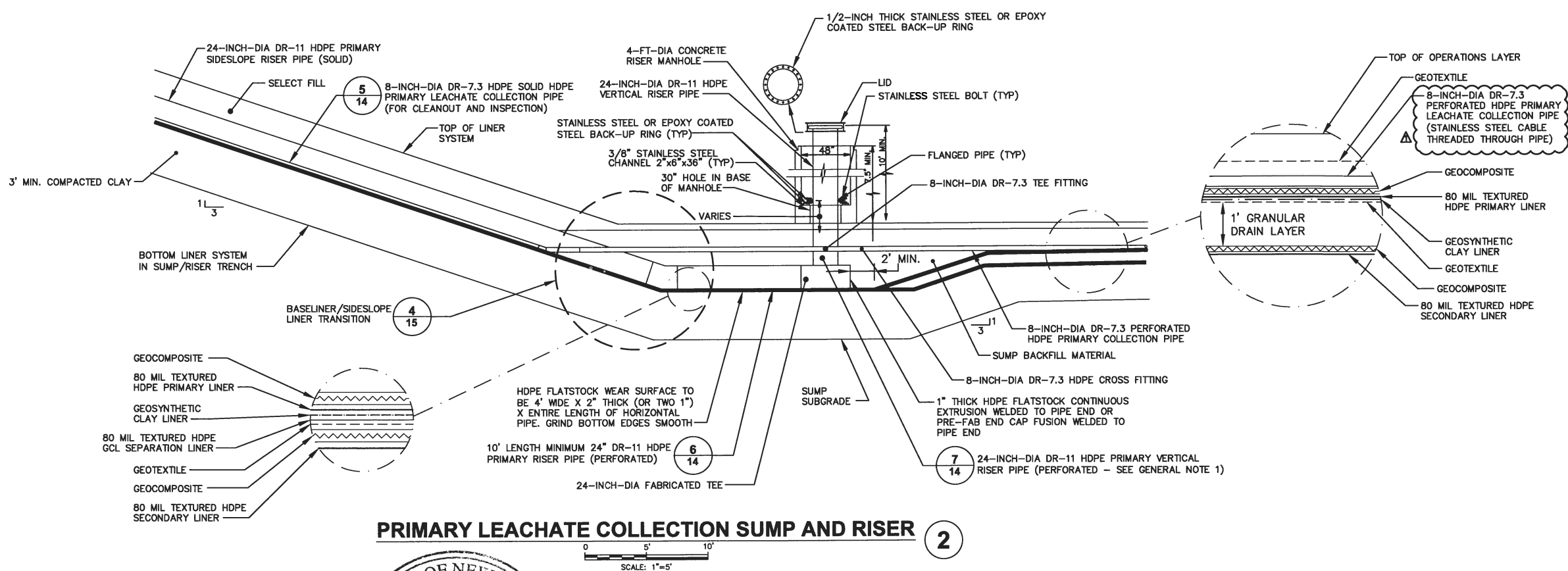
ARCADIS Project No.  
B0023725.2008.00006

Date  
AUGUST 2009

ARCADIS of New York, Inc.  
6723 Towpath Road  
P.O. Box 68  
Syracuse, New York  
TEL. 315.446.9120



SECONDARY LEACHATE COLLECTION SUMP AND RISER 1



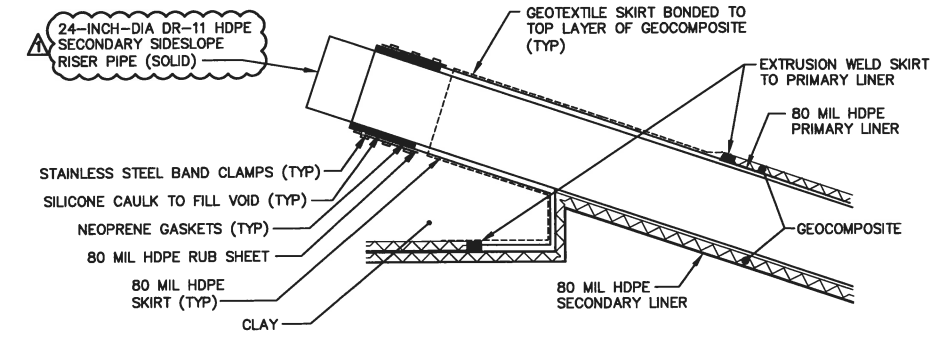
PRIMARY LEACHATE COLLECTION SUMP AND RISER 2

GENERAL NOTES:

1. HDPE VERTICAL RISER BETWEEN HORIZONTAL SECTION OF FABRICATED TEE AND BOTTOM OF MANHOLE SHALL BE PERFORATED WITH A MINIMUM OF 20 EVENLY SPACED 5/8" DIAMETER HOLES.

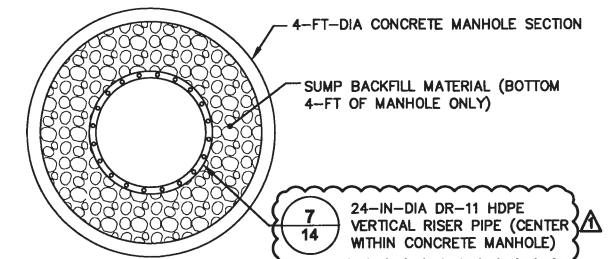
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PROJECTNAME: 1  
XREFS: 23725X00  
IMAGES:

SCALE(S) AS INDICATED		Professional Engineer's Name <b>JOSEPH MOLINA</b> Professional Engineer's No. 072644		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING		ARCADIS Project No. B0023725.2009.00006	
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		USE TO VERIFY FIGURE REPRODUCTION SCALE		State NY		Date AUGUST 2009	
No.		Date		Project No.		ARCADIS of New York, Inc. 6723 Tawpath Road P.O. Box 66 Syracuse, New York TEL: 315.446.9120	
2/2013		2/27/13		WAR		13	
REVISED CALLOUT		By		Checked by			
BMS		SJK		BMS			
DESIGNED BY		DRAWN BY		CHECKED BY			
BMS/PTO		SJK		BMS			
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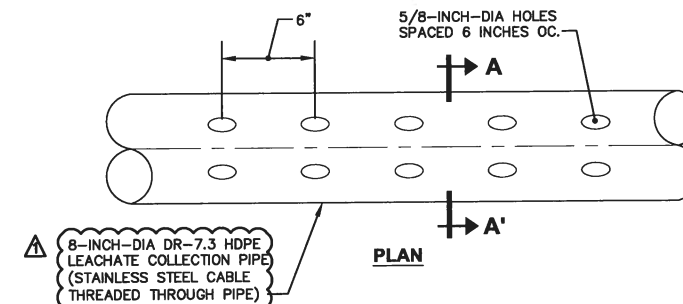
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NOT TO SCALE

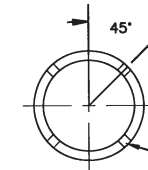
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(1)

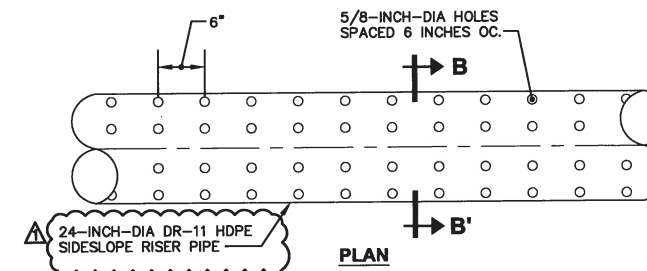


NOT TO SCALE

## SECTION A-A'

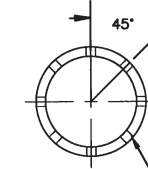


**SECTION A-A**

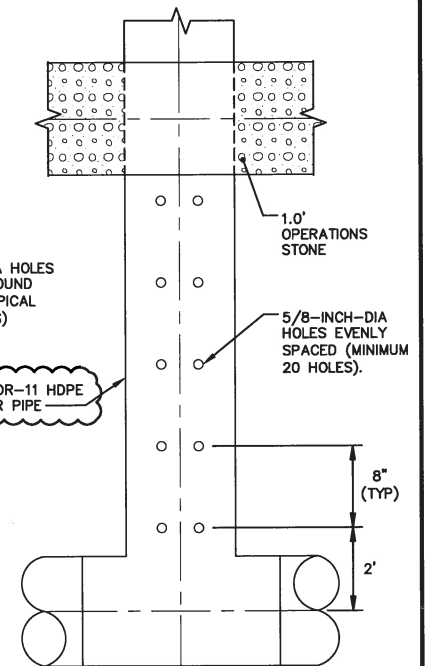


NOT TO SCALE

(





### SECTION B-B



NOT TO SCALE

7

SCALE(S) AS INDICATED									
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: 	USE TO VERIFY FIGURE REPRODUCTION SCALE			2/2013		ADDED REVISED PIPE CALLOUTS		GNG	
		No.		Date		Revisions		By	
		THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAIC.							

Professional Engineer's Name <b>JOSEPH MOLINA</b>					 <b>ARCADIS</b> ARCADIS OF NEW YORK, INC.
Professional Engineer's No. 072644					
State NY	Date Signed 2/21/12	Project No. WAR			
Designed by BMS/PTO	Drawn by SJK	Checked by BMS			

CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK  
RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING

## TYPICAL SUMP SECTIONS AND DETAILS

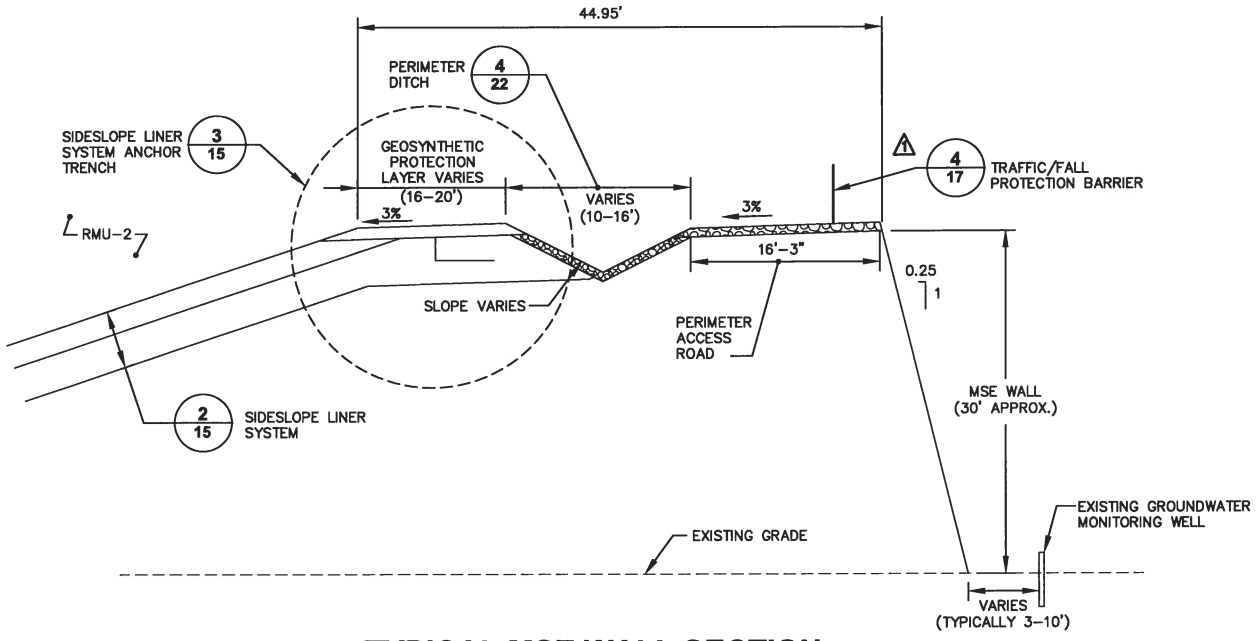
## GENERAL

ARCADIS Project No. B0023725.2009.00006
Date AUGUST 2009
ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL 315.446.9120

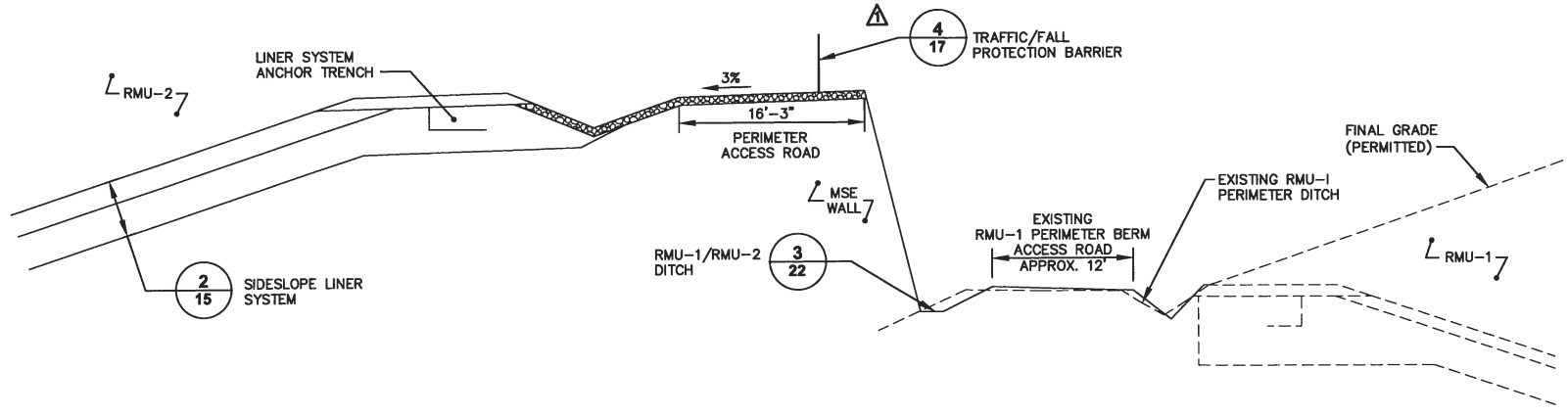


NOT TO SCALE						Professional Engineer's Name <b>JOSEPH MOLINA</b> Professional Engineer's No. 072644						CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING		ARCADIS Project No. B0023725.2009.00006		15		
						State NY		Date Signed 2/27/12		Project No. WAR				Date AUGUST 2009				
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:		USE TO VERIFY FIGURE REPRODUCTION SCALE		REVISED CALLOUT		NWF By		BMS Ckd						ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL. 315.446.9120				
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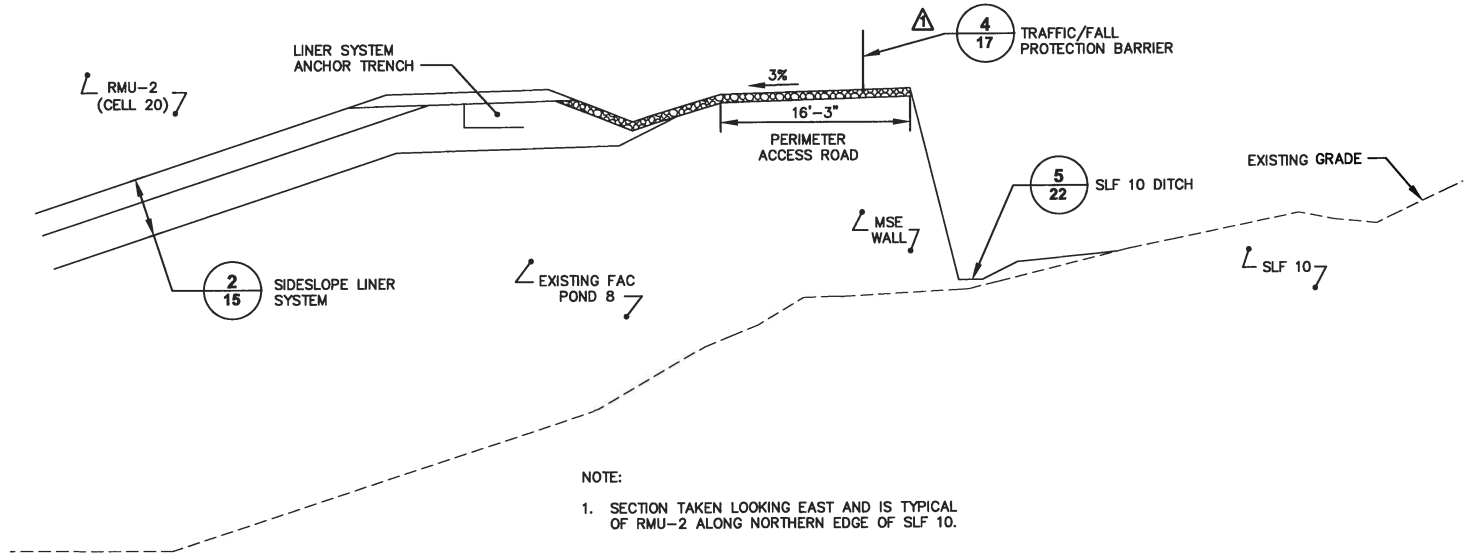
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XREFS: 23725X00  
IMAGES: PROJECTNAME: --



TYPICAL MSE WALL SECTION 1



RMU-1/RMU-2 SECTION 2



RMU-2/SLF 10 NORTH SECTION 3

NOTE:  
1. SECTION TAKEN LOOKING EAST AND IS TYPICAL OF RMU-2 ALONG NORTHERN EDGE OF SLF 10.



THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd
1	02/2013	REVISED TOP EDGE OF MSE WALL AND REVISED CALLOUTS	NWF	BMS

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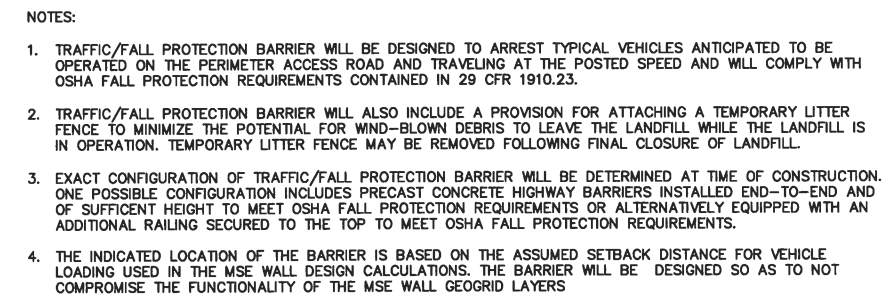
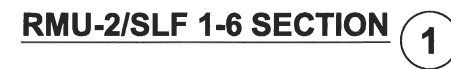
Professional Engineer's Name <b>JOSEPH MOLINA</b>	
Professional Engineer's No. 072644	
State NY	Date Signed 2/27/12
Designed by BMS/PTO	Project Manager WAR
Drawn by SJK	Checked by BMS

ARCADIS OF NEW YORK, INC.



CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK  
RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING  
**MSE WALL SECTIONS**  
GENERAL

ARCADIS Project No.  
80023725.2009.00006  
Date  
AUGUST 2009  
ARCADIS of New York, Inc.  
6723 Towpath Road  
P.O. Box 66  
Syracuse, New York  
TEL: 315.446.9120

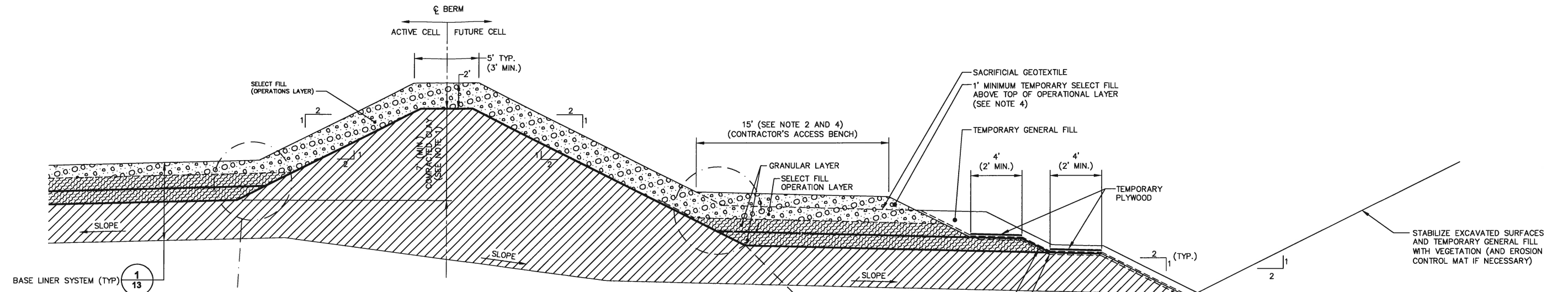


**TRAFFIC/FALL PROTECTION BARRIER** **4**  
NOT TO SCALE





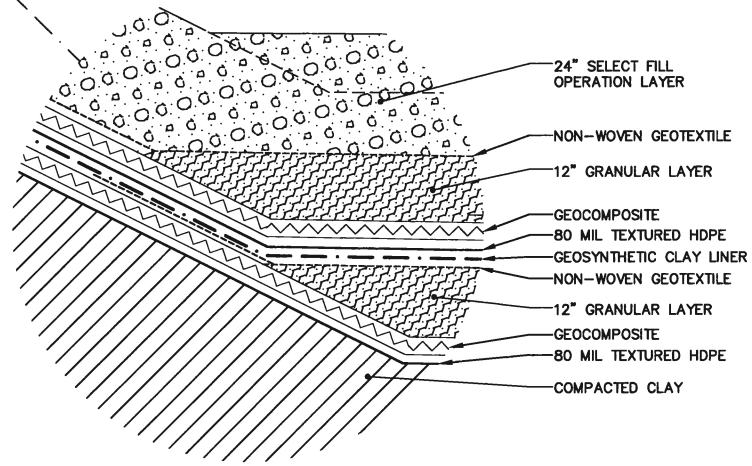
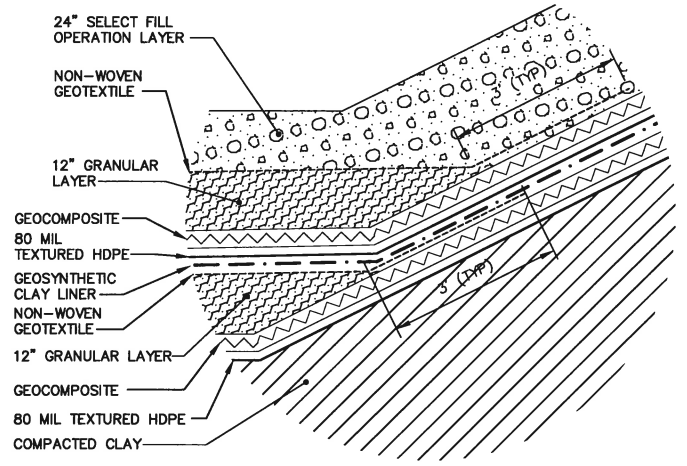
CITY: SYRACUSE DIV/GROUP: ENV/CAD DB: K. DAVIS G. STOWELL L. FORAKER LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LVR: ON="OFF"=REF  
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PROJECTNAME: 23725X00  
XREFS: 23725X00  
IMAGES:



NOTES:

1. THE ACTUAL THICKNESS OF THE COMPACTED CLAY COMPRISING THE INTERCELL BERM WILL BE DETERMINED FROM THE HIGHEST TOP ELEVATION OF THE 3" THICK SECONDARY CLAY LAYER ADJACENT TO THE INTERCELL BERM.
2. CONTRACTOR'S ACCESS BENCH IS FOR REMOVAL OF TEMPORARY COVER MATERIAL AS PART OF FUTURE CONSTRUCTION OF CELLS.
3. EXTEND PRIMARY GEOMEMBRANE TO RUNOUT FOR SECONDARY GEOMEMBRANE AND EXTRUSION WELD LINERS TO SEAL OFF SECONDARY LEACHATE COLLECTION SYSTEM.
4. A MINIMUM OF 1' OF SELECT FILL SHALL BE PLACED ABOVE COMPACTED OPERATIONS LAYER TO PROVIDE PROTECTION OVER CONSTRUCTED LINER SYSTEM RUNOUT. SELECT FILL ON CONTRACTOR'S ACCESS BENCH SHALL BE REMOVED DURING CONSTRUCTION OF FUTURE CELL.

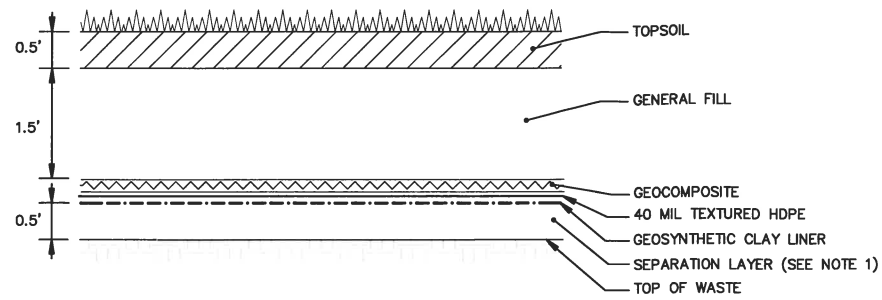
TYPICAL INTERCELL BERM 1 A



GENERAL NOTES:

1. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
2. DETAIL SHOWS TEMPORARY TERMINATION OF LINER SYSTEM LAYERS ON UNCONSTRUCTED SIDE OF INTERCELL BERM. TEMPORARY FEATURES TO BE REMOVED DURING CONSTRUCTION OF FUTURE CELL.

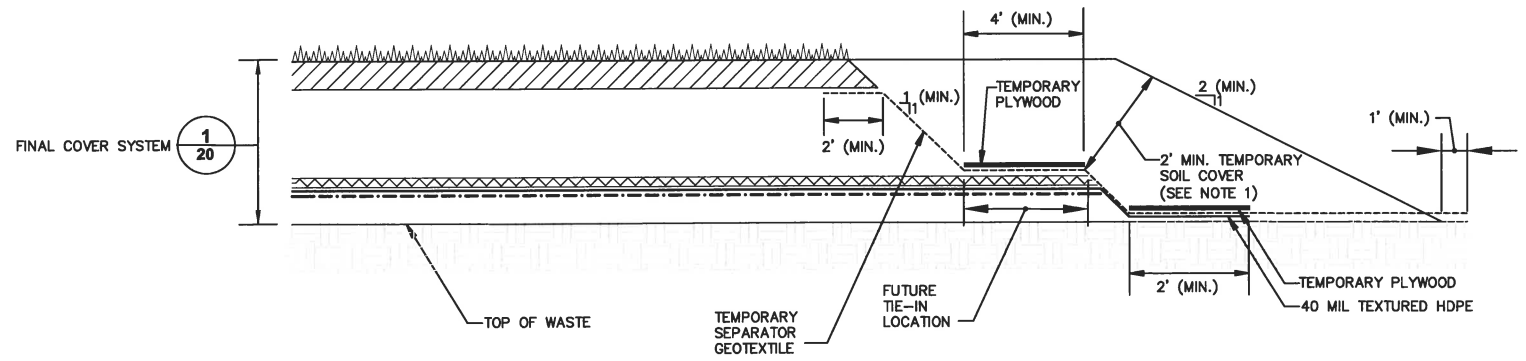
NOT TO SCALE		USE TO VERIFY FIGURE REPRODUCTION SCALE		THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:	
2/2013		DELETED GENERAL FILL, COLLECTION PIPE, AND DETAIL 2		NWF	BMS
No.		Revisions		By	Ckd
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Professional Engineer's Name <b>JOSEPH MOLINA</b>		Professional Engineer's No. 072644		State NY	
Date Signed 2/27/13		Project Mgr. WAR		Designed by BMS/PTO	
Drawn by SJK		Checked by BMS		ARCADIS OF NEW YORK, INC.	
				CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK	
				RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING	
<b>TYPICAL INTERCELL BERM</b>				ARCADIS Project No. B0023725.2009.00006	
				Date AUGUST 2009	
GENERAL				ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL. 315.446.9120	



NOTE:

1. SEPARATION LAYER SHALL CONSIST OF GENERAL FILL MATERIAL HAVING A MAXIMUM PARTICLE SIZE OF 2-INCHES.

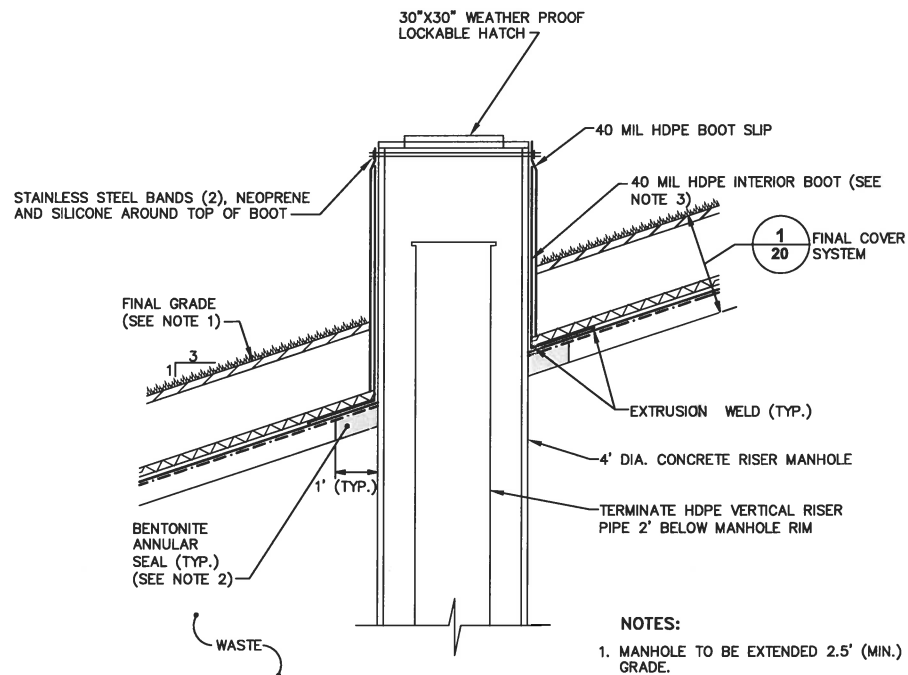
**FINAL COVER SYSTEM** 1  
NOT TO SCALE



NOTE:

1. TEMPORARY SOIL COVER REPRESENTS EARTHEN MATERIAL TO BE REMOVED DURING FUTURE TIE-IN CONSTRUCTION TO ACHIEVE PERMIT GRADES. GEOSYNTHETICS TO BE PROTECTED DURING REMOVAL.

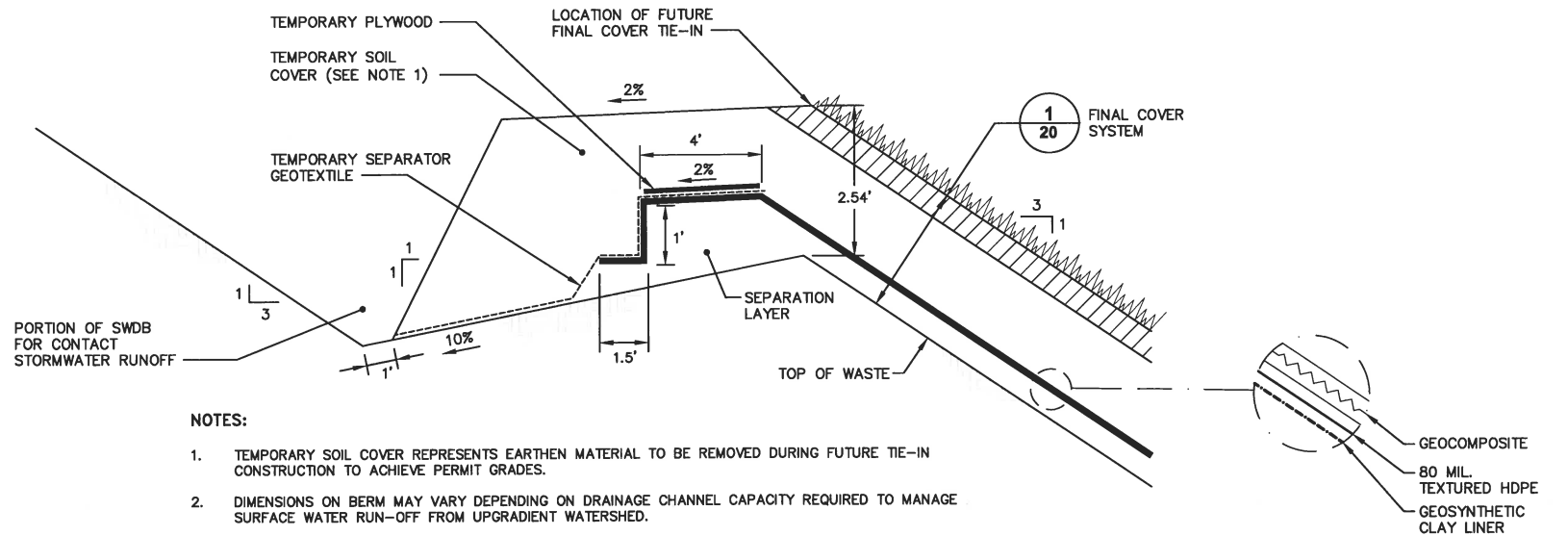
**TEMPORARY FINAL COVER SYSTEM TERMINATION AT SIDESLOPE OR TOP PLATEAU** 2  
NOT TO SCALE



NOTES:

1. MANHOLE TO BE EXTENDED 2.5' (MIN.) ABOVE FINAL GRADE.
2. SEAL ANNULAR SPACE AROUND RISER PIPE WITH BENTONITE PRIOR TO FINAL COVER PLACEMENT.
3. 40 MIL HDPE INTERIOR BOOT TO BE LEFT UNATTACHED TO MANHOLE AND EXTERIOR BOOT SLIP TO ALLOW FOR MOVEMENT.

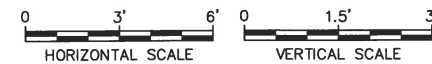
**FINAL COVER VERTICAL RISER PENETRATION** 3  
NOT TO SCALE



NOTES:

1. TEMPORARY SOIL COVER REPRESENTS EARTHEN MATERIAL TO BE REMOVED DURING FUTURE TIE-IN CONSTRUCTION TO ACHIEVE PERMIT GRADES.
2. DIMENSIONS ON BERM MAY VARY DEPENDING ON DRAINAGE CHANNEL CAPACITY REQUIRED TO MANAGE SURFACE WATER RUN-OFF FROM UPGRADE WATERSHED.
3. FUTURE GEOSYNTHETICS TIE-IN EXTRUSION SEAM TO BE MADE ON SURFACE WATER DIVERSION BERM.

**TEMPORARY FINAL COVER SYSTEM TERMINATION AT SURFACE WATER DIVERSION BERM** 4



GENERAL NOTE:

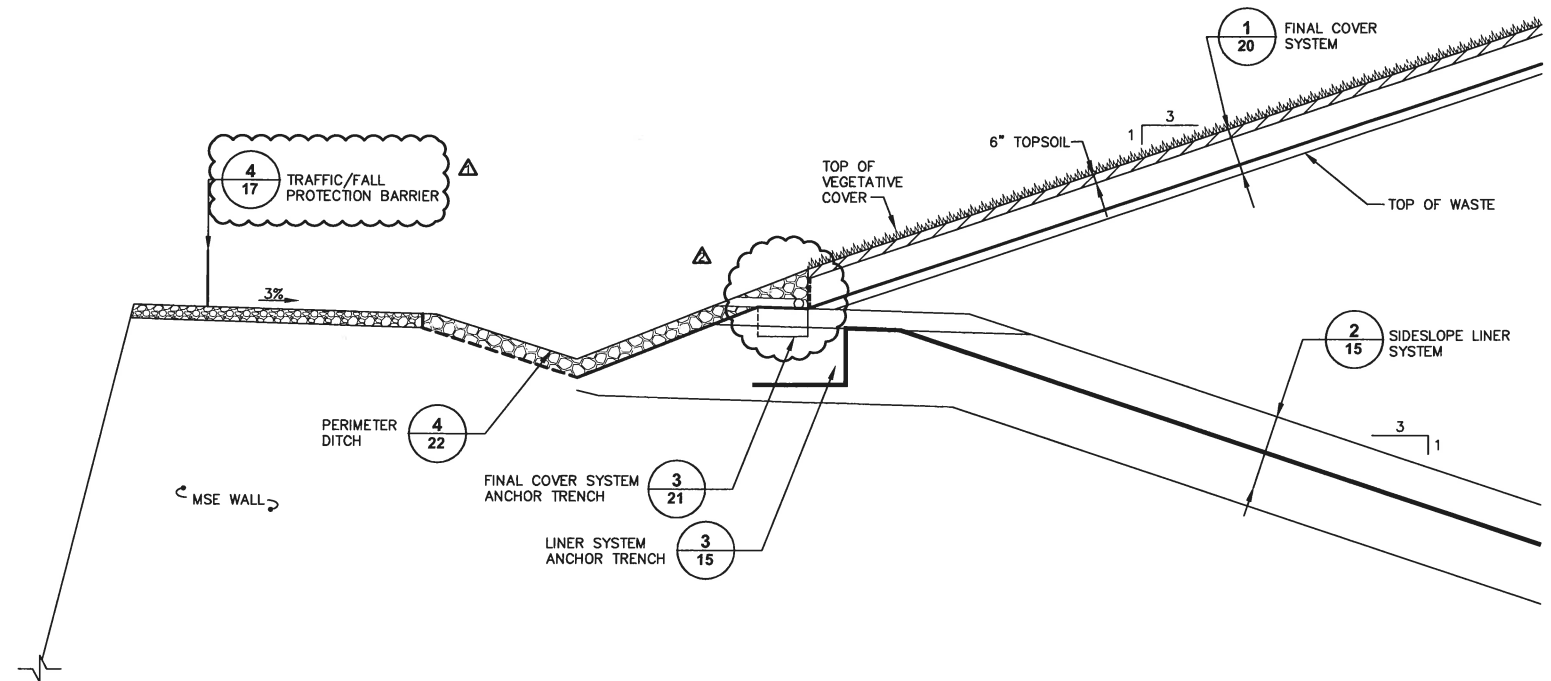
1. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE IN CERTAIN DETAILS FOR CLARITY.

CITY: SYRACUSE DIV: GROUP: ENV: CAD: DR: K. DAVIS G. STOWELL L. FORAKER LD: P/C: W. POPHAM PK: W. RANKIN TM: B. STONE LVR: ON: OFF: REF: G:\ENV\CAD\SYRACUSE\ACT180023725\201\10003\DWG\RMU\_2023725620.dwg LAYOUT: 20. SAVED: 2/8/2013 3:28 PM ACADVER: 18.1 (LMS TECH) PAGES: 20 PLOT: 2/8/2013 1:14 PM BY: SARTORI, KATHERINE

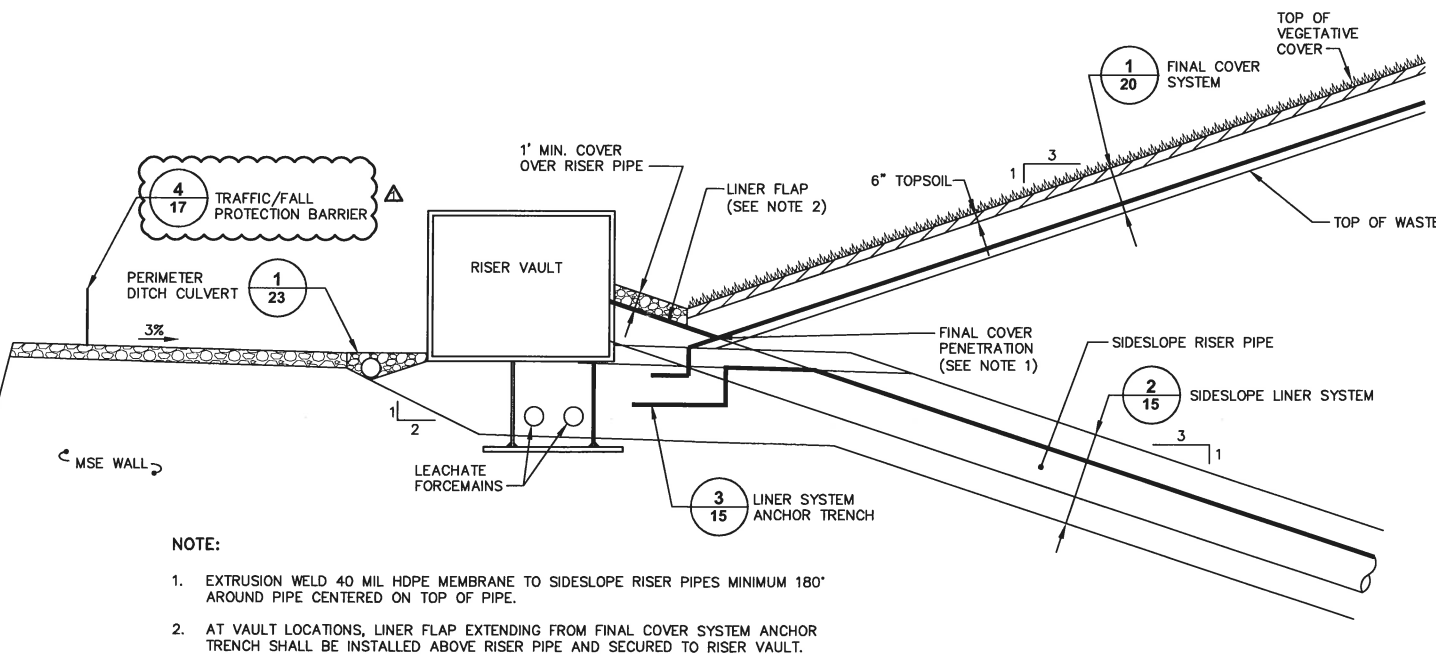
XREFS: 23725X00

SCALE(S) AS INDICATED		Professional Engineer's Name <b>JOSEPH MOLINA</b> Professional Engineer's No. 072644		CWM CHEMICAL SERVICES, LLC • MODEL CITY, NEW YORK RESIDUALS MANAGEMENT UNIT 2 PERMIT DRAWING		ARCADIS Project No. 80023725.2009.00006	
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.		USE TO VERIFY FIGURE REPRODUCTION SCALE		State NY		Date AUGUST 2009	
No.		Date		Project Mgr. WAR		ARCADIS of New York, Inc. 6723 Towpath Road P.O. Box 66 Syracuse, New York TEL. 315.446.9120	
Revisions		By		Checked by BMS		20	
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CITY: SYRACUSE DIVGROUP: ENVCAD DB: K. DAVIS N. SMITHGALL K. DAVIS LD: PIC: W. POPHAM PM: W. RANKIN TM: B. STONE LVR: ON\*OFF\*REF\* PAGES: 21  
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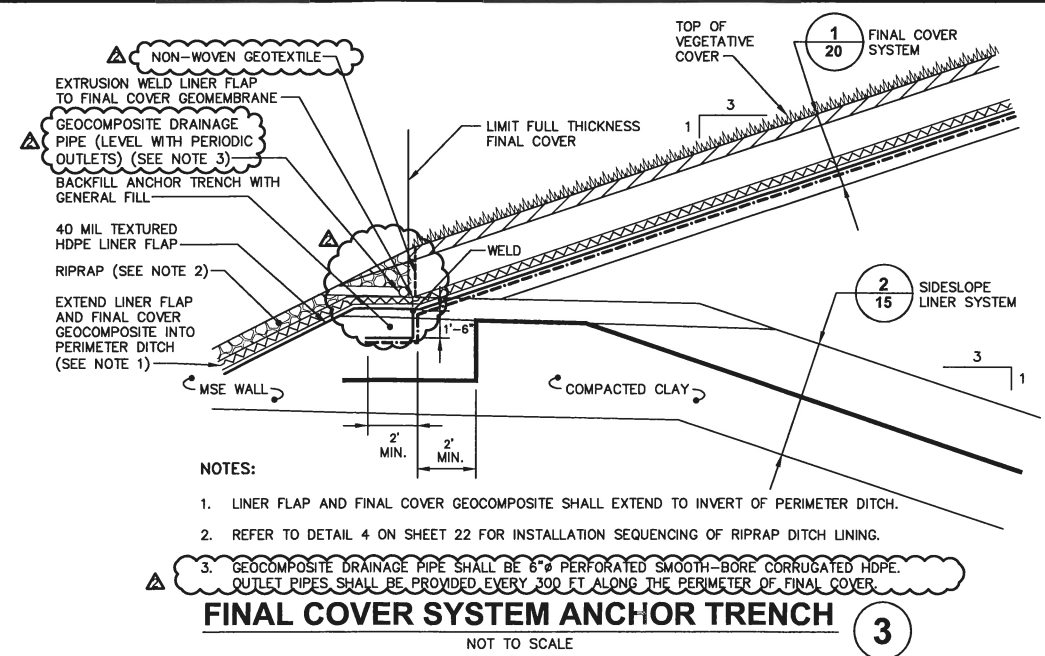
**TYPICAL FINAL COVER TERMINATION** 1  
0 5' 10'  
GRAPHIC SCALE



**NOTE:**  
1. EXTRUSION WELD 40 MIL HDPE MEMBRANE TO SIDESLOPE RISER PIPES MINIMUM 180" AROUND PIPE CENTERED ON TOP OF PIPE.  
2. AT VAULT LOCATIONS, LINER FLAP EXTENDING FROM FINAL COVER SYSTEM ANCHOR TRENCH SHALL BE INSTALLED ABOVE RISER PIPE AND SECURED TO RISER VAULT.

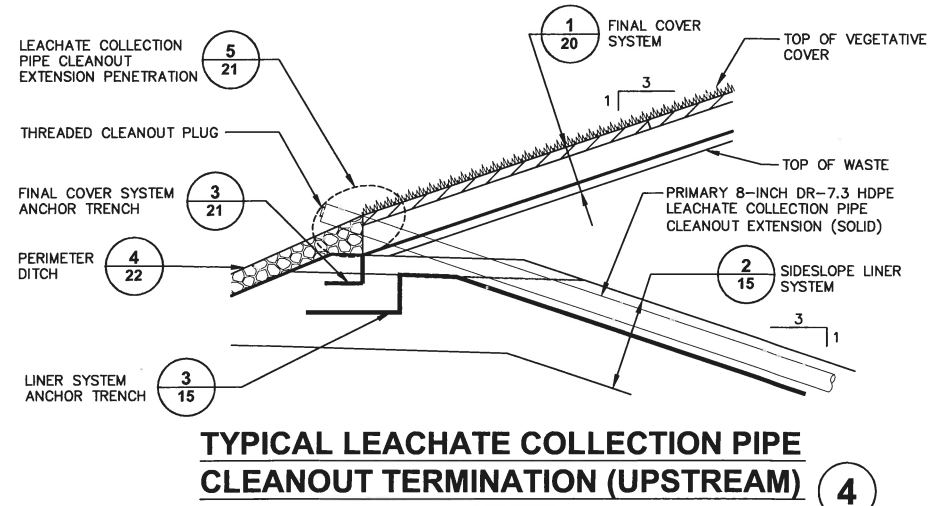
**FINAL COVER TERMINATION AT RISER VAULT** 2  
0 5' 10'  
GRAPHIC SCALE

**GENERAL NOTE:**  
GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CERTAIN DETAILS FOR CLARITY.

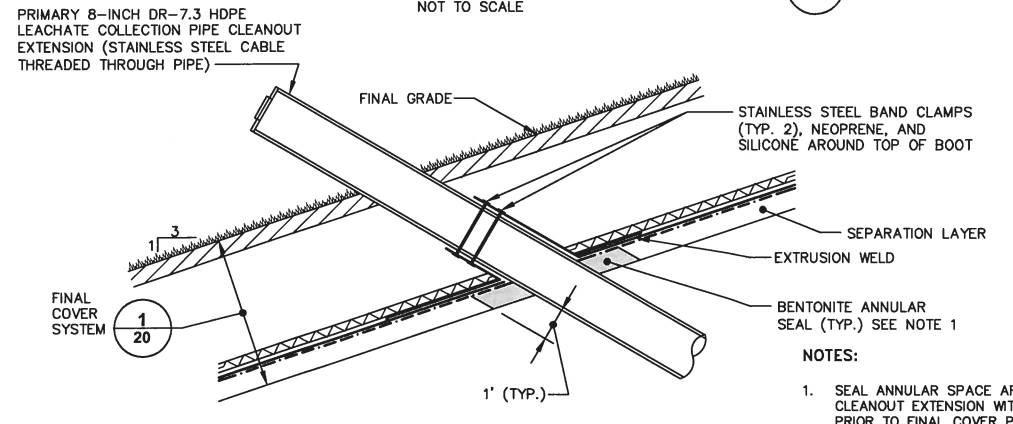


**NOTES:**  
1. LINER FLAP AND FINAL COVER GEOCOMPOSITE SHALL EXTEND TO INVERT OF PERIMETER DITCH.  
2. REFER TO DETAIL 4 ON SHEET 22 FOR INSTALLATION SEQUENCING OF RIPRAP DITCH LINING.  
3. GEOCOMPOSITE DRAINAGE PIPE SHALL BE 6" PERFORATED SMOOTH-BORE CORRUGATED HDPE. OUTLET PIPES SHALL BE PROVIDED EVERY 300 FT ALONG THE PERIMETER OF FINAL COVER.

**FINAL COVER SYSTEM ANCHOR TRENCH** 3  
NOT TO SCALE



**TYPICAL LEACHATE COLLECTION PIPE CLEANOUT TERMINATION (UPSTREAM)** 4  
NOT TO SCALE



**NOTES:**  
1. SEAL ANNULAR SPACE AROUND CLEANOUT EXTENSION WITH BENTONITE PRIOR TO FINAL COVER PLACEMENT.

**LEACHATE COLLECTION PIPE CLEANOUT EXTENSION PENETRATION** 5  
NOT TO SCALE