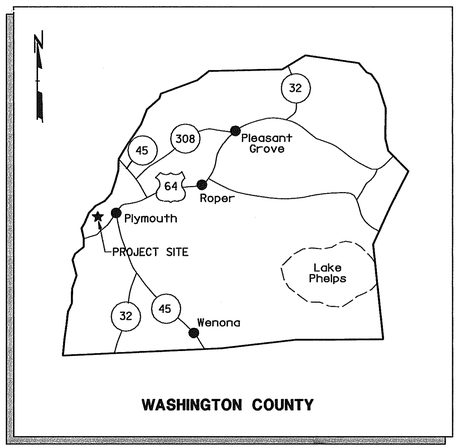
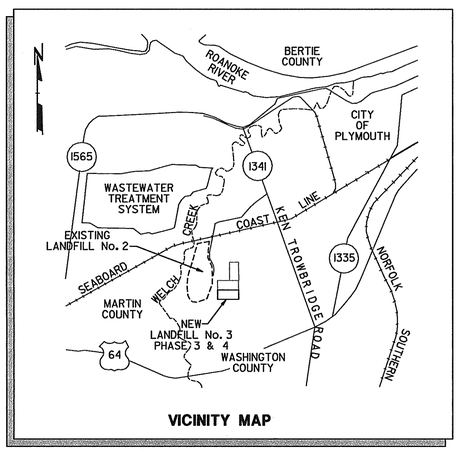
Permit No.	Date	DIN
94-01	**May 6, 2010**	**10522**

RECEIVED
May 6, 2010
Solid Waste Section
Asheville Regional Office

NEW LANDFILL No. 3
PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

PREPARED BY RMT NORTH CAROLINA INC.
JANUARY 2008





VICINITY MAP

DRAWING LIST

SHEET NO.	TITLE
1	TITLE SHEET
2	DATA POINT LOCATION MAP
3	HISTORICAL HIGH WATER TABLE CONFIGURATION (APRIL 2, 1993)*
4	(NOT USED)
5	GEOLOGIC CROSS SECTIONS - SHEET 1
6	GEOLOGIC CROSS SECTIONS - SHEET 2
7	OVERALL SITE PLAN
8	LINER GRADING PLAN
9	LEACHATE PIPING PLAN
10	FINAL GRADING PLAN PHASE 3 & 4
11	FINAL GRADING PLAN OVERALL
12	PHASE PROGRESSION PLAN
13	BORROW AREA SITE PLAN
14	LANDFILL DETAILS SHEET 1
15	LANDFILL DETAILS - SHEET 2
16	LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS
17	ENGINEERING CROSS SECTIONS
18	MISCELLANEOUS DETAILS
19	EROSION CONTROL DETAILS

GENERAL NOTES

1. EXISTING PLANNIMETRIC AND TOPOGRAPHIC INFORMATION THAT LIES WITHIN THE FOOTPRINT OF PHASES 1A, 1B, 2, 3 AND 4 OF LANDFILL No. 3 WAS TAKEN FROM A SURVEY PREPARED BY McKIM & CREED ENGINEERING, INC, CAREY, NORTH CAROLINA DATED APRIL 13, 2007. THIS SURVEY IS BASED ON NCGS CONTROL MONUMENTS "ADVISOR" AND "BENNETT" (SEE NOTE 2). NO PERMANENT SURVEY CONTROL SET ON SITE AT THE TIME OF THIS SURVEY.

2. CONTROL MONUMENT INFORMATION:

NCGS MONUMENT "ADVISOR"	NCGS MONUMENT "BENNETT"
GRID COORDINATES	GRID COORDINATES
N=765,198.28'	N=764,433.87'
E=2,659,512.73'	E=2,658,436.50'
(NAD 83)	(NAD 83)
ELEV=39.12'	ELEV=37.71'
(NGVD 29)	(NGVD 29)

3. ALL PLANNIMETRIC AND TOPOGRAPHIC INFORMATION THAT FALLS OUTSIDE THE LIMITS AS DESCRIBED IN NOTE 1 WAS TAKEN FROM A SURVEY MADE BY McKIM & CREED ENGINEERING, INC., CAREY, NORTH CAROLINA, DATED APRIL 26, 2001. ALL COORDINATES AND BEARINGS ARE BASED ON THE NORTH CAROLINA STATE PLANE COODINATE SYSTEM, NAD 83. ALL ELEVATIONS SHOWN ARE IN FEET AND ARE BASED ON NGVD 1929 DATUM. PROPERTY LINES BASED ON SURVEY PROVIDED BY McKIM & CREED AND INFORMATION PROVIDED BY WEYERHAEUSER COMPANY. ELEVATIONS SHOWN IN THE EXISTING LANDFILL No. 2, THE ASBESTOS LANDFILL, AND THE BORROW AREAS SHOWN ON SHEET 13 HAVE BEEN ALTERED BY NEW CONSTRUCTION.

4. THE PROPOSED SITE IS LOCATED IN WASHINGTON COUNTY, SOUTHWEST OF THE CITY OF PLYMOUTH, NORTH CAROLINA, AS SHOWN ON THE VICINITY MAP.

5. THE GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS PERFORMED BY RMT, INC. DATED DECEMBER 1990.

6. ALL EROSION AND SEDIMENTARY CONTROL MEASURES SHALL BE IMPLEMENTED, MONITORED AND MAINTAINED ON A REGULAR BASIS TO ASSURE MAXIMUM EFFICIENCY IN CONTAINING SEDIMENTS WITHIN THE PROPERTY DURING AND AFTER LANDFILL/EARTHWORK OPERATIONS UNTIL THE DISTURBED AREAS ARE REVEGETATED OR OTHERWISE STABILIZED.

7. UNLESS NOTED OTHERWISE, NEW CONTOURS AND/OR NEW SPOT ELEVATIONS REPRESENT FINISH GRADE. ALLOWANCE SHALL BE MADE FOR TOPSOIL, ROAD SURFACES, AND LINER CONSTRUCTION.

10. BOUNDARIES OF THE EXISTING ASBESTOS LANDFILL SHOWN ON SHEET 7 WERE LOCATED BY McKIM AND CREED ENGINEERS, NEW BERN, NORTH CAROLINA.

11. WETLANDS DELINEATION BOUNDARYS ARE SHOWN ON THE SITE PLANS. SEE APPENDIX "A" OF THE REPORT FOR DELINEATION MAP.

LEGEND

	EXISTING	NEW
ACCESS ROAD		
BUILDING		
CONTOUR	34	34
WATER TABLE SURFACE		6
WETLAND DELINEATION		
ASBESTOS LANDFILL WASTE LIMITS		
DRAINAGE FLOW DIRECTION		
HEADWALL		
MONITORING WELL WATER ELEVATION	MW-1 30.43	MW-9
OBSERVATION WELL WATER ELEVATION	OW-2 29.92	
SOIL BORING	SB-5	
HAND AUGER	HA-10	
TEST PIT	TP-1	
BENCH MARK (CONTROL POINT)		
CLEANOUT		CO
MANHOLE		
MONUMENT		
POWER POLE (LIGHT POLE)	PP	PP
POWER LINE	P	P
RIP RAP OR CRUSHED STONE		
SPOT ELEVATION	+34.2	34.2
TREE LINE		
PROPERTY LINE		
PERMITTED LANDFILL BOUNDARY		
LEACHATE COLLECTION LINE		LC
LEACHATE FORCE MAIN		LFM
STORM DRAIN		SD
SANITARY SEWER		SS
GAS VENT PIPING		GVP
CATCH BASIN		
RAILROAD		
GAS VENT		

ABBREVIATIONS

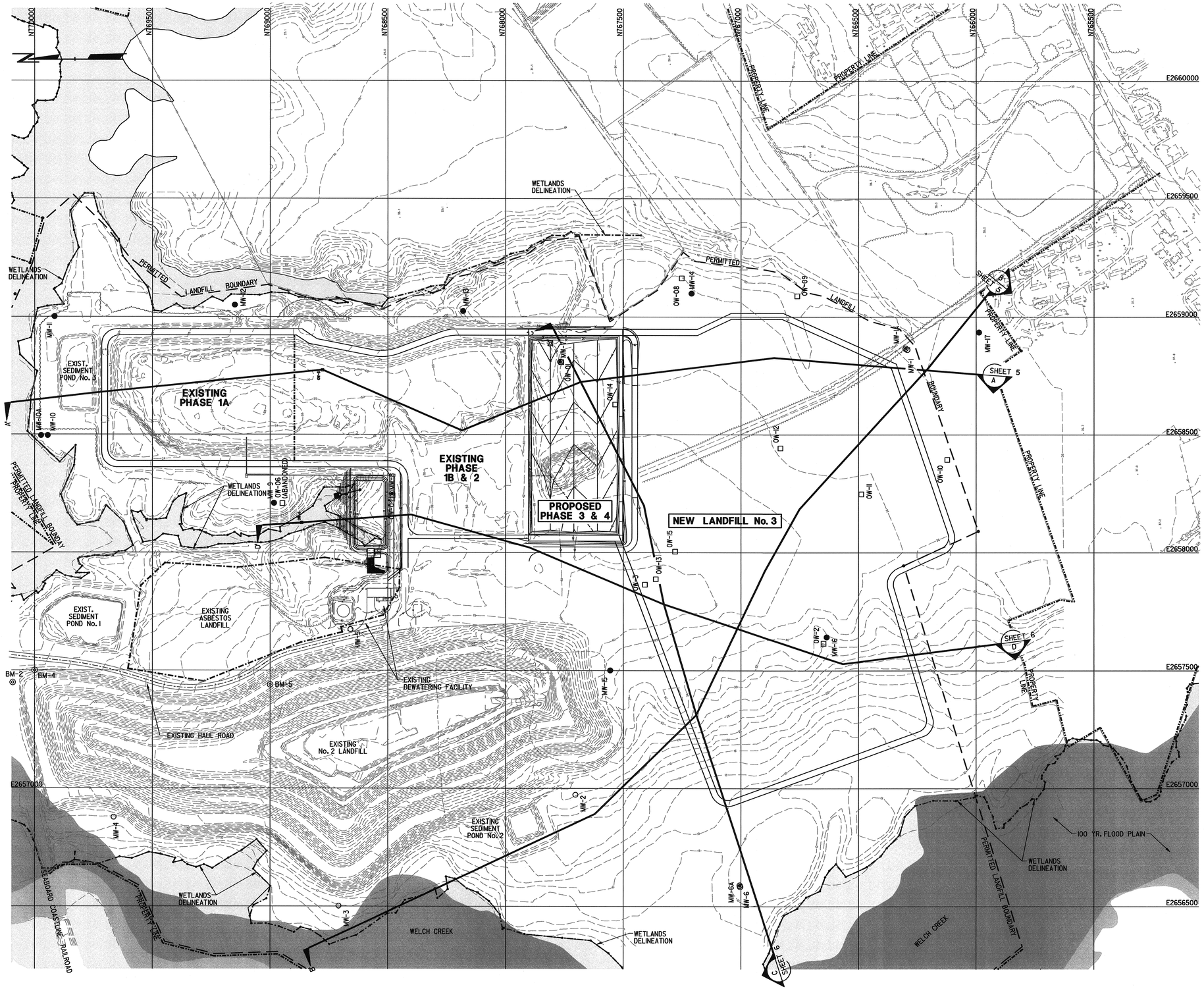
APPROX	APPROXIMATELY	I. E.	INVERT ELEVATION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	INV EL	INVERT ELEVATION
BM	BENCH MARK	LF	LINEAR FEET
℄	CENTERLINE	LC	LEACHATE COLLECTION
CHDPE	CORRUGATED HIGH DENSITY	LP	LIGHT POLE
CONC	CONCRETE	LFM	LEACHATE FORCE MAIN
CS	CARBON STEEL	MAX	MAXIMUM
CSP	CORRUGATED STEEL PIPE	MH	MANHOLE
DIA	DIAMETER	MIN	MINIMUM
DET	DETAIL	MISC	MISCELLANEOUS
DI	DROP INLET	N	NORTH
DWG	DRAWING	NO.	NUMBER
E	EAST	NTS	NOT TO SCALE
EA	EACH	OD	OUTSIDE DIAMETER
EL,ELEV	ELEVATION	PERF	PERFORATED
EXIST	EXISTING	PI	POINT OF INTERSECTION
FT	FEET	PC	POINT OF CURVATURE
FUT	FUTURE	℞	PROPERTY LINE
FM	FORCE MAIN	PSF	POUNDS PER SQUARE
GA	GAGE, GAUGE	PSI	POUNDS PER SQUARE
GALV	GALVANIZED	R	RADIUS
GR	GRADE	REV	REVISION
HDPE	HIGH DENSITY	REQ'D	REQUIRED
HORIZ	HORIZONTAL	RR	RAILROAD
HP	HIGH POINT	SAN	SANITARY SEWER
HW	HEADWALL	SECT	SECTION
ID	INSIDE DIAMETER	STA	STATION
		STD	STANDARD
		T/CONC	TOP OF CONCRETE
		TYP	TYPICAL
		W/	WITH

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KEITH WILKINSON
6/3/08

RMT North Carolina, Inc.

NOTES

REFER TO SHEET 1 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.



0 200′ 400′ 600′ 800′

SCALE: 1" = 200′

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A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:

DATA POINT LOCATION MAP

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
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DATE: OCTOBER 2007			

RMT NORTH CAROLINA, INC.

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NOTES

1. REFER TO SHEET 2 FOR STANDARD LEGEND, ABBREVIATIONS GENERAL NOTES.
2. WATER TABLE CONFIGURATION BASED ON WATER TABLE MAP FOR APRIL 2, 1993 (HIGHEST ON RECORD)*.

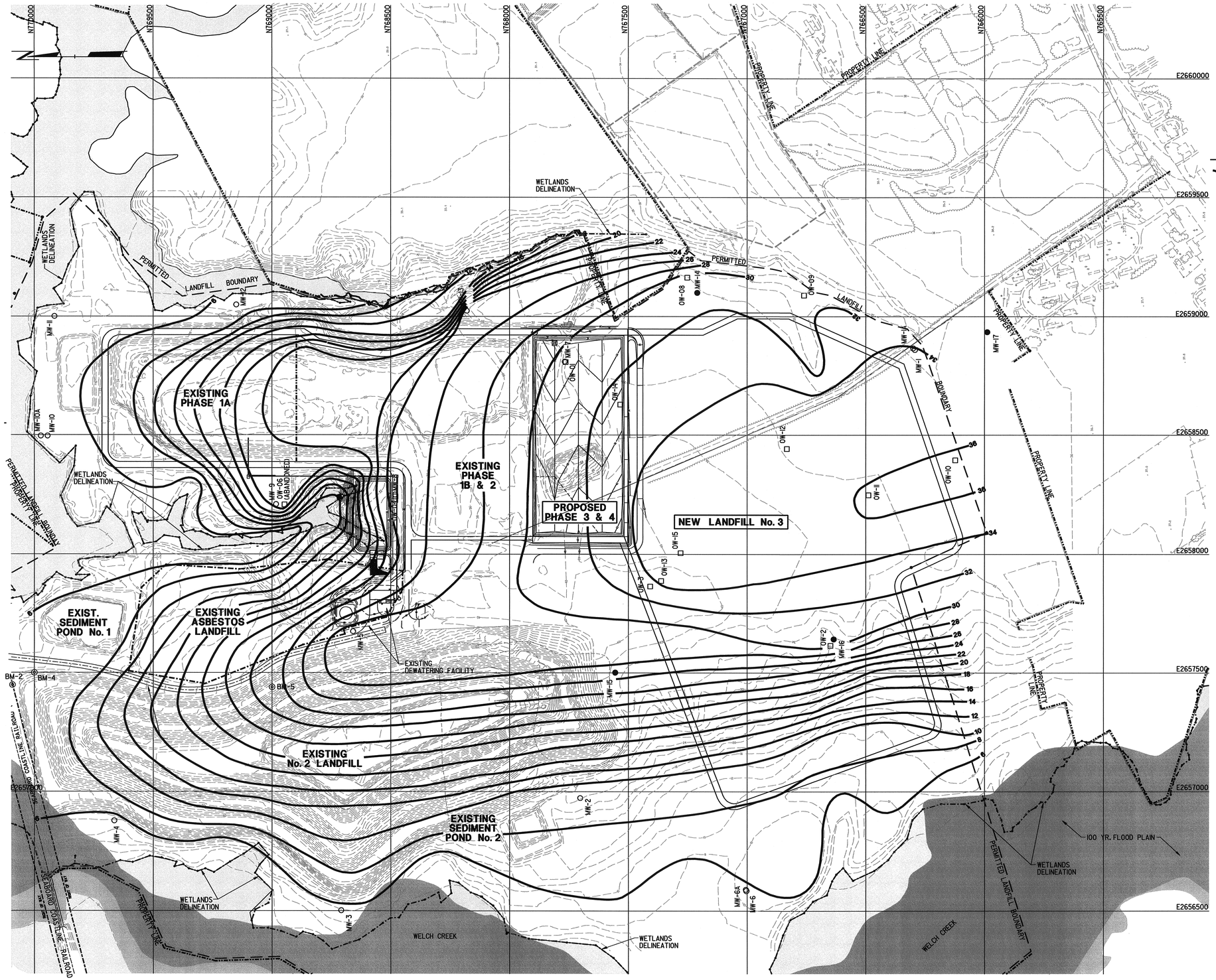
LEGEND

22	HISTORICAL HIGH WATER TABLE ELEVATION IN FEET ABOVE MEAN SEA LEVEL CONTOUR INTERVAL IS TWO FEET (MEASURED APRIL 2, 1993*)
MW-1	EXISTING MONITORING WELL
OW-2	EXISTING OBSERVATION WELL (* INDICATES INSTALLATION AFTER APRIL, 1993)
MW-9	PROPOSED MONITORING WELL

* WATER TABLE CONTOURS ADJUSTED TO REFLECT HISTORICAL HIGH WATER LEVELS MEASURED IN WELLS MW-5 AND MW-13 ON MAY 16, 2003 AND WELL MW-7 ON DECEMBER 1, 2005.

MONITORING WELL INSTALLATION AND ABANDONMENT SCHEDULE

PHASE	WELLS
3 & 4	ABANDON MW-7, OW-14, OW-01
5 & 6	INSTALL MW-14, MW-15
LATER PHASES	INSTALL MW-16, MW-17 ABANDON MW-16



0 200′ 400′ 600′ 800′

SCALE: 1" = 200′

THE HYDROGEOLOGY WORK FOR DOMTAR IN PLYMOUTH, NORTH CAROLINA WAS PERFORMED BY RMT, INC. CONSULTING HYDROGEOLOGIST IN SUPPORT OF RMT NORTH CAROLINA, INC.

NORTH CAROLINA LICENSED SEAL 249 6/3/08 GEOLOGIST DAN G. MADISON, JR.

NORTH CAROLINA PROFESSIONAL SEAL 6/3/08 17543 ENGINEER KENT R. NILSSON

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE: **HISTORICAL HIGH WATER TABLE CONFIGURATION (APRIL 2, 1993)***

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CHECKED BY: RKN		FILE NO.	
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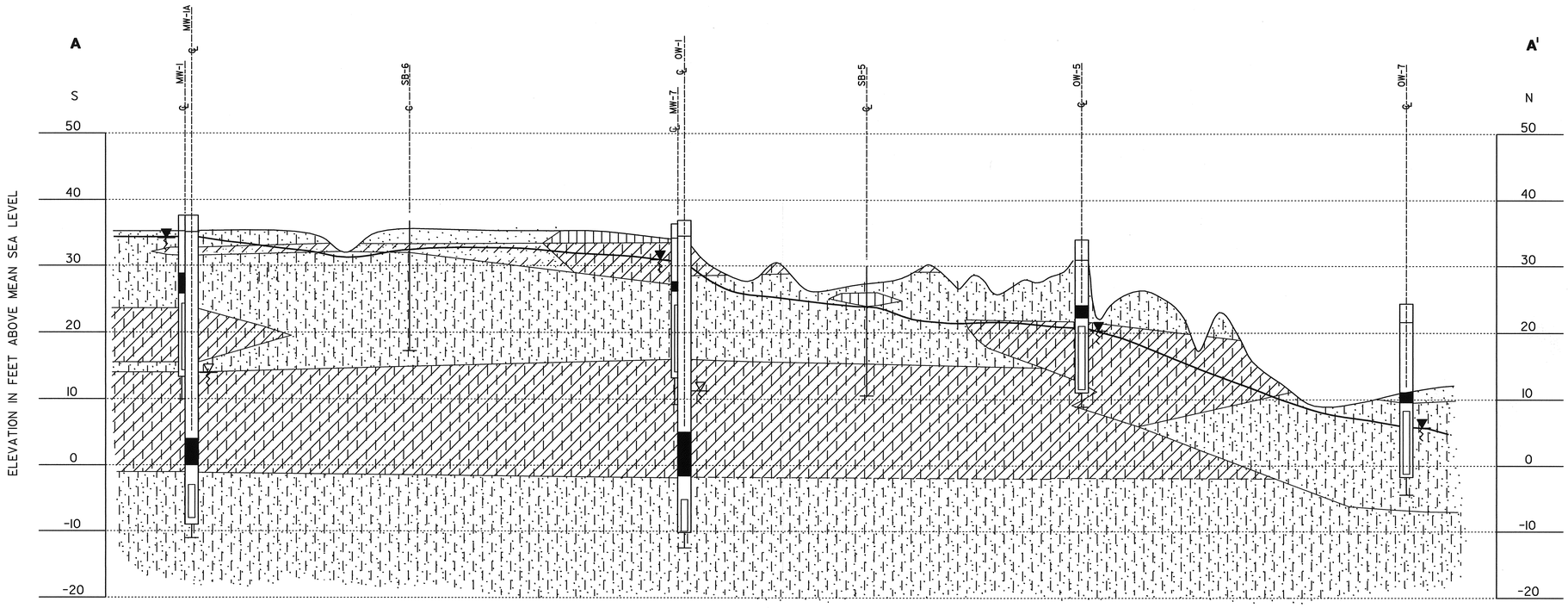
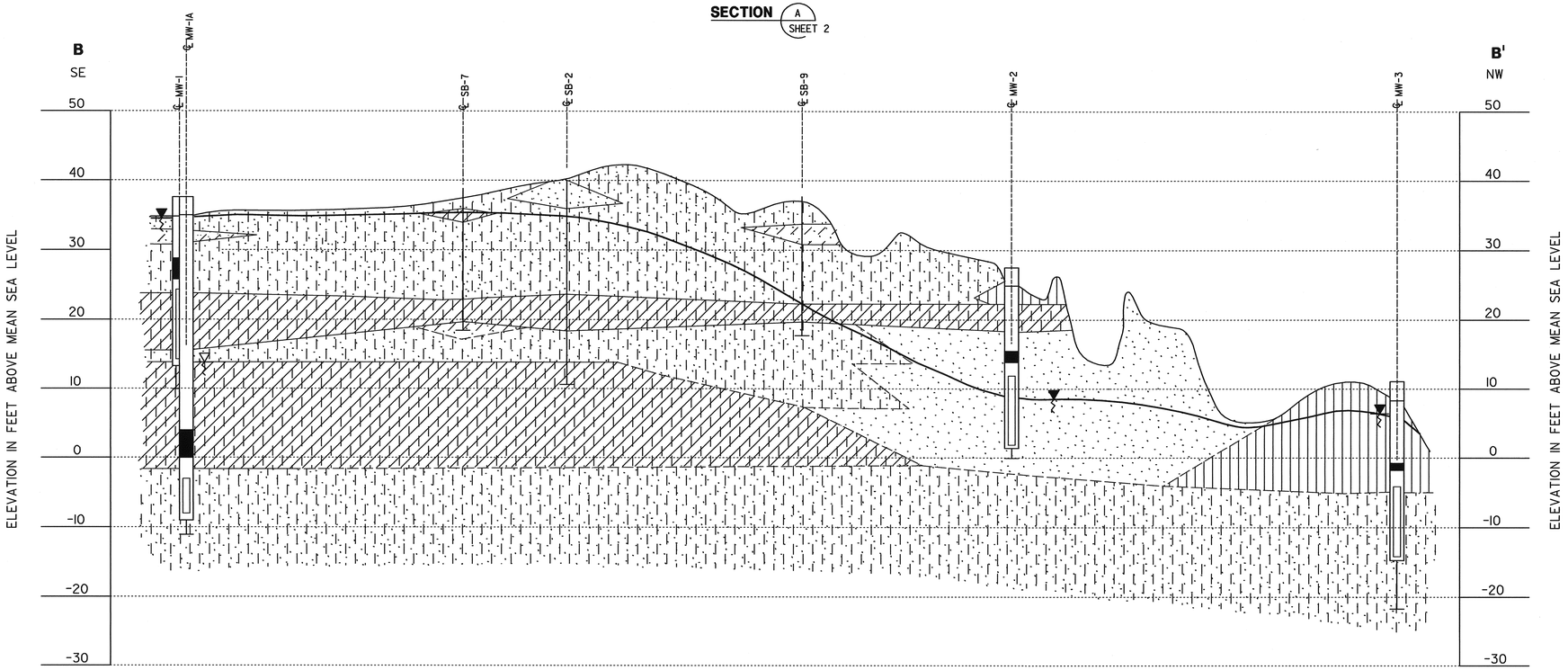


GEOLOGIC CROSS SECTION A-A'

SECTION A SHEET 2



GEOLOGIC CROSS SECTION B-B'

SECTION B SHEET 2

NOTES

1. REFER TO SHEET 1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. HISTORICAL HIGH WATER TABLE SURFACE FOR MW-7 WAS RECORDED ON DECEMBER 1, 2005.

LEGEND

- WELL SCREEN AND BENTONITE SEAL
- WATER TABLE SURFACE HISTORIC HIGH (APRIL, 1993) (SEE NOTE 2)
- POTENTIOMETRIC SURFACE HISTORIC HIGH (APRIL, 1993)
- SILTY CLAY - SOFT TO STIFF; OCCASIONAL TRACE FINE TO MEDIUM GRAINED SAND. DEEP CLAYS ARE USUALLY MICACEOUS WITH SOME SAMPLES TESTED AS CLAYEY SILTS
- SILT - OFTEN CLAYEY; OCCASIONAL ORGANIC MATERIAL
- CLAYEY SAND - MOST FINE GRAINED; OFTEN SILTY
- SILTY SAND - MOST FINE GRAINED; OCCASIONAL CLAY WITH FRAGMENTED SHELL ZONES AND POORLY GRADED SAND ZONES
- POORLY GRADED SAND

THE HYDROGEOLOGY WORK FOR DOMTAR IN PLYMOUTH, NORTH CAROLINA WAS PERFORMED BY RMT, INC. CONSULTING HYDROGEOLOGIST IN SUPPORT OF RMT NORTH CAROLINA, INC.

0 200 400
HORIZONTAL SCALE: 1" = 200'

0 10 20
VERTICAL SCALE: 1" = 10'
VERTICAL EXAGGERATION: 20x

NORTH CAROLINA LICENSED GEOLOGIST SEAL 249 6/3/08 JOHN Q. MADISON, JR.

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KENT WILSON 6/3/08

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
GEOLOGIC CROSS SECTIONS - SHEET 1

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DATE: OCTOBER 2007			

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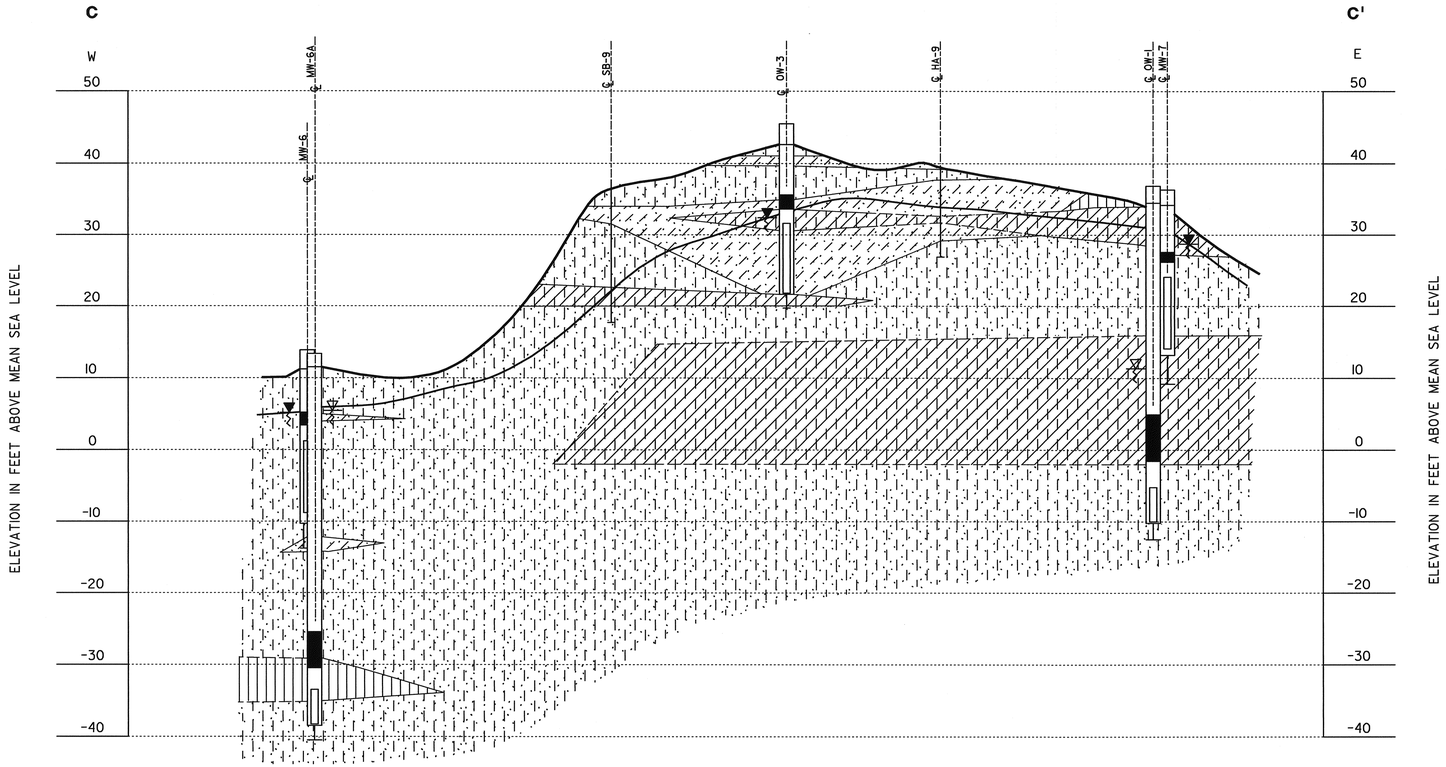
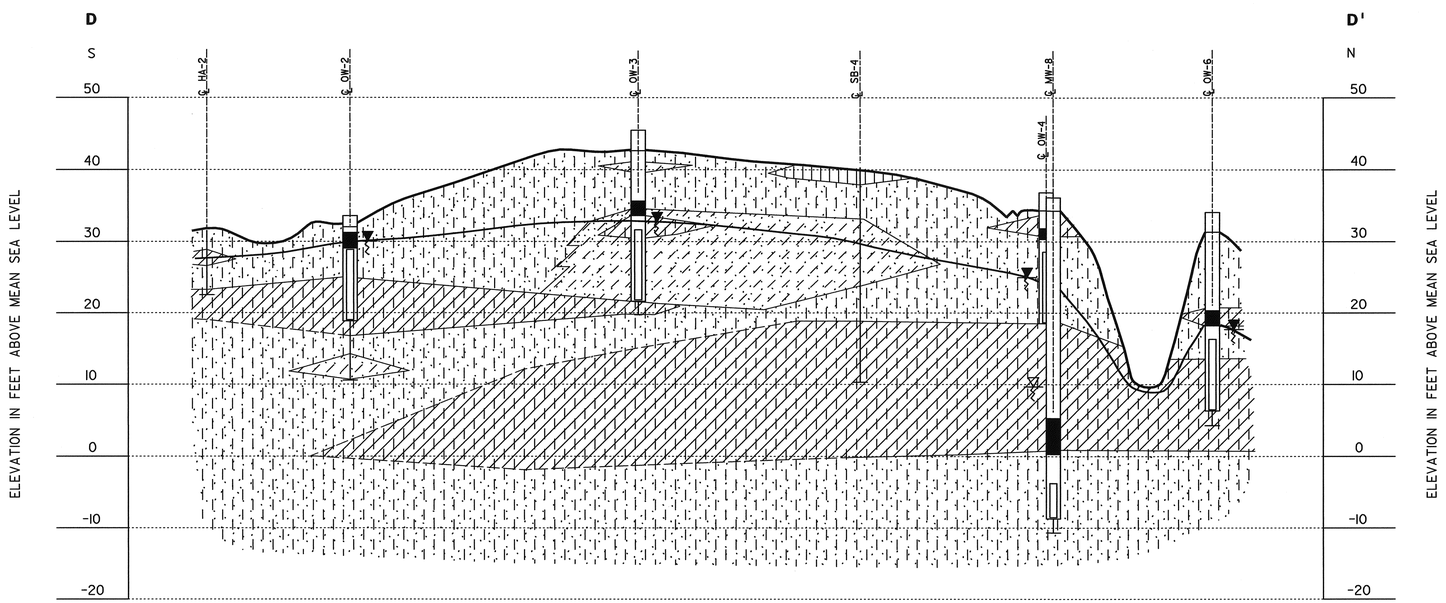


GEOLOGIC CROSS SECTION C-C'

SECTION C SHEET 2



GEOLOGIC CROSS SECTION D-D'

SECTION D SHEET 2

NOTES

1. REFER TO SHEET 1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. HISTORICAL HIGH WATER TABLE SURFACE FOR MW-7 WAS RECORDED ON DECEMBER 1, 2005.

LEGEND

- WELL SCREEN AND BENTONITE SEAL
- WATER TABLE SURFACE HISTORIC HIGH (APRIL, 1993) (SEE NOTE 2)
- POTENTIOMETRIC SURFACE HISTORIC HIGH (APRIL, 1993)
- SILTY CLAY - SOFT TO STIFF; OCCASIONAL TRACE FINE TO MEDIUM GRAINED SAND. DEEP CLAYS ARE USUALLY MICACEOUS WITH SOME SAMPLES TESTED AS CLAYEY SILTS
- SILT - OFTEN CLAYEY; OCCASIONAL ORGANIC MATERIAL
- CLAYEY SAND - MOST FINE GRAINED; OFTEN SILTY
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- POORLY GRADED SAND

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0 200 400
HORIZONTAL SCALE: 1" = 200'

0 10 20
VERTICAL SCALE: 1" = 10'
VERTICAL EXAGGERATION: 20x

NORTH CAROLINA LICENSED SEAL 2437 GEOLOGIST DAVID G. MADISON, JR.

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KENT WILSON

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
GEOLOGIC CROSS SECTIONS - SHEET 2

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RMT NORTH CAROLINA, INC.

NOTES

1. REFER TO SHEET 1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. UNLESS NOTED OTHERWISE, NEW CONTOURS AND/OR NEW SPOT ELEVATIONS REPRESENT FINISHED GRADE. ALLOWANCES SHALL BE MADE FOR TOPSOIL, ROAD SURFACES AND LINER CONSTRUCTION.
3. CLEARING AND GRUBBING LIMITS SHALL BE 10' OUTSIDE THE GRADING LIMITS REFER TO SHEET 4.
4. BORROW SITE HAUL ROAD MAY BE UPGRADED AT THE CONTRACTOR'S DISCRETION.
5. EXISTING TOPSOIL STOCKPILE SHALL BE REMOVED PRIOR TO LINER CONSTRUCTION AND USED FOR CELLS 3 & 4 WHERE TOPSOIL IS INDICATED ON THE PLANS. ANY EXISTING TOPSOIL NOT USED SHALL BE STOCKPILED IN THE AREA INDICATED.

HORIZONTAL/VERTICAL CONTROL POINTS

REFER TO NOTE 3 OF THE GENERAL NOTES ON SHEET 1

POINT I.D.	NORTH COORDINATE	EAST COORDINATE	COMMENT
BM-1	N768316.38	E2657674.09	CONCRETE MONUMENT NEAR REFUELING FACILITY - ELEV. 39.55 MSL
BM-2	N770092.49	E2657448.66	PK NAIL AT INTERSECTION OF SEABOARD COASTLINE RAILROAD AND SITE ACCESS ROAD - ELEV. 11.51MSL
BM-3	N770174.35	E2657809.01	PK NAIL IN CROSS TIE AT INTERSECTION OF SEABOARD COASTLINE RAILROAD AND LITTLE MILL CREEK
BM-4	N770000.00	E2657500.00	CONCRETE MONUMENT
BM-5	N769000.00	E2657440.00	CONCRETE MONUMENT
BM-6	N767500.00	E2657500.00	CONCRETE MONUMENT
BM-7	N767500.00	E2656500.00	CONCRETE MONUMENT
OI-1	N770103.15	E2657619.83	ELEV. 12.03 MSL
OI-2	N768634.57	E2657705.36	ELEV. 36.94 MSL
OI-6	N767759.89	E2657590.77	ELEV. 59.00 MSL

0 200' 400' 600' 800'

SCALE: 1" = 200'

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:

OVERALL SITE PLAN

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
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DATE: OCTOBER 2007			

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17543 R. KEITH NELSON

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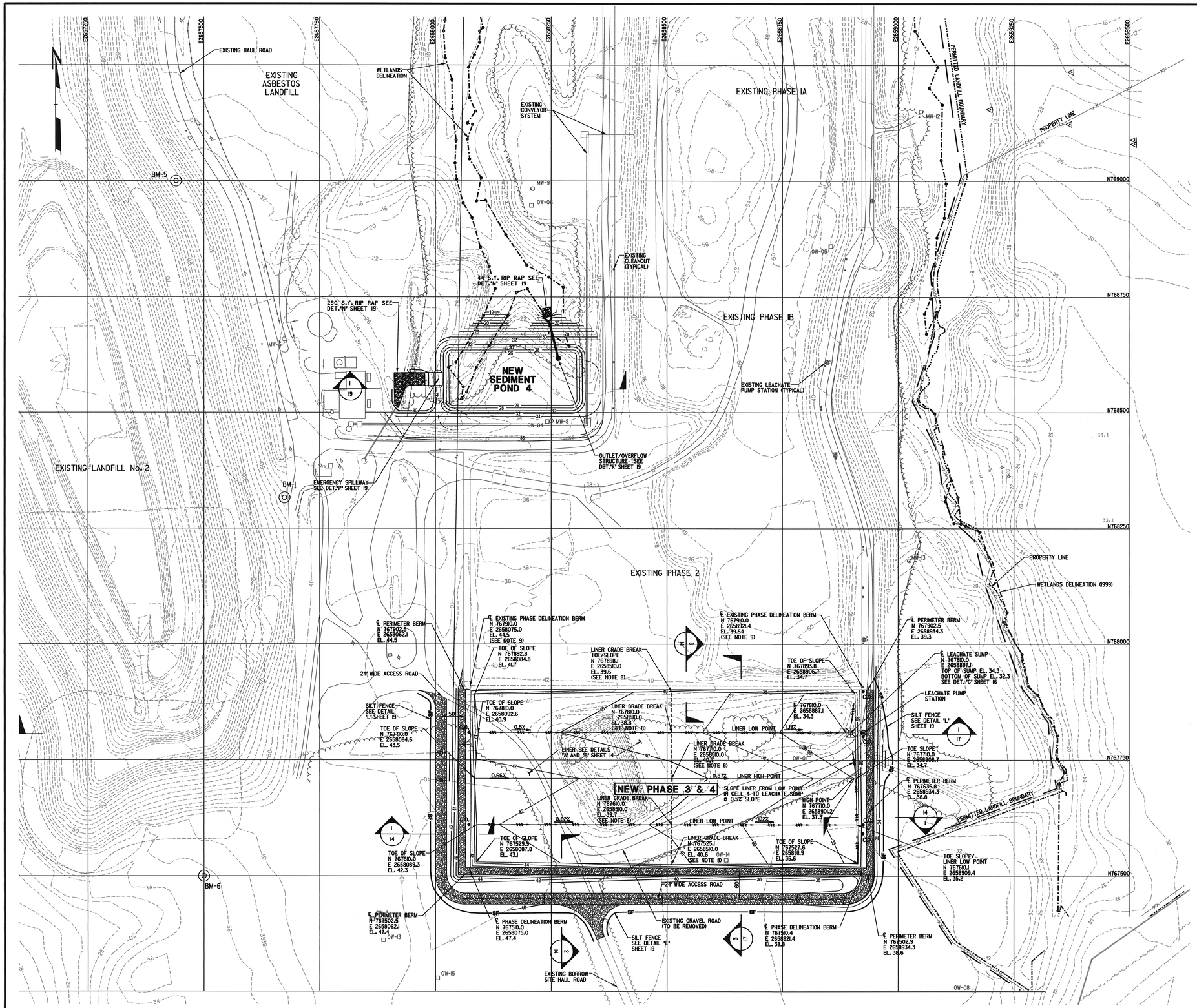

NOTES

1. REFER TO SHEET 1 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. NEW CONTOURS INSIDE THE PERIMETER BERM AND PHASE DELINEATION BERM ARE TOP OF PREPARED SUBGRADE ELEVATIONS. ALL OTHER NEW CONTOURS ARE FINISHED GRADE ELEVATIONS.
3. RIP RAP IS TO BE PLACED (SIZE AND THICKNESS) AS PER DETAIL "K" DRAWING SHEET 11.
4. ALL NEW SIDE SLOPES ARE TO BE 3' (HORIZONTAL) TO 1' (VERTICAL) UNLESS NOTED OTHERWISE.
5. FOR DETAIL OF LEACHATE SUMP REFER TO DETAIL "F" SHEET 16.
6. ALL AREAS NOT COVERED WITH RIP RAP, CRUSHED STONE SURFACING OR LINER SYSTEM, SHALL BE GRASSED IN ACCORDANCE WITH SECTIONS 02921 AND 02923 OF THE SPECIFICATIONS.
7. ALL EXISTING MONITORING WELLS ARE TO BE PROTECTED DURING CONSTRUCTION.
8. THE LINER GRADE BREAKS TO A STEEPER SLOPE AT THE GRADE BREAK TO ALLOW FOR LONG-TERM SETTLEMENT OF THE SUBGRADE. THE GRADES SHOWN WERE ESTABLISHED TO PROVIDE CAMBER FOR THE LEACHATE PIPE TO HAVE A MINIMUM SLOPE OF 0.5% AFTER PREDICTED SETTLEMENT.
9. CONTRACTOR SHALL FIELD DETERMINE THE CENTERLINE LOCATION OF EXISTING PHASE DELINEATION BERM FOR CELL 2. REMOVE EXISTING CRUSHED STONE ON TOP OF BERM AS REQUIRED TO LOCATE TIE-IN LOCATION FOR NEW LINER IN CELL 3. EXISTING LINER SHALL BE CLEAN AND UNDAMAGED FOR TIE-IN. REFER TO DETAIL "B" SHEET 14 AND SECTION "3" SHEET 14.
10. REFER TO DETAILS "A" AND "B" SHEET 14 FOR LINER CONSTRUCTION DETAILS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17543 KENT NILSSON

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
LINER GRADING PLAN

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
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APPROVED BY: MBP	DATE PRINTED:	SHEET 8 OF 19	
DATE: OCTOBER 2007			

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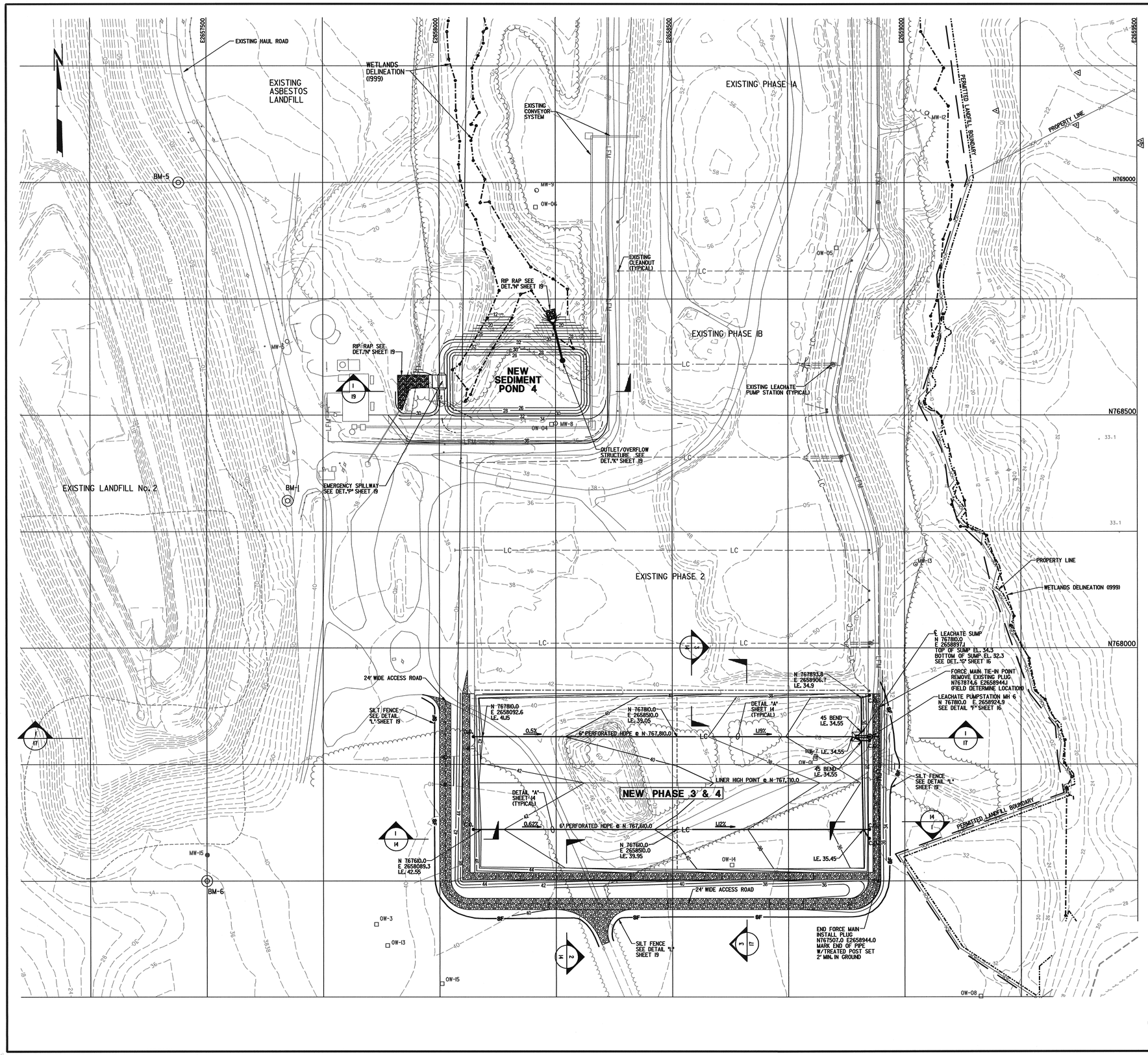

NOTES

1. REFER TO SHEET 1 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. THRUST BLOCKS SHALL BE INSTALLED ON FORCE MAIN AT ALL PLUGS, BENDS, TEES AN Y-BRANCHES. REFER DETAIL "J" SHEET 18.
3. ALL 6" AND 18" HDPE PIPE SHALL BE SDR 17.
4. THE LEACHATE COLLECTION SYSTEM DRAINAGE LAYER CONSISTS OF 12" OF No. 67 STONE AND OVERLAIN BY 6" OF SELECT GRADED SAND. THE No. 67 STONE SHALL BE PLACED OVER THE ENTIRE LINED FOOTPRINT. DURING INITIAL CONSTRUCTION THE SAND SHALL BE PLACED 5' UP THE SLOPES. DURING OPERATIONS THE SAND LAYER WILL BE RAISED AS THE WASTE LEVEL IS RAISED.
5. FORCE MAIN SHALL BE A DUAL CONTAINMENT PIPING SYSTEM THAT CONSISTS OF A 6" HDPE FORCE MAIN IN A 10" HDPE CARRIER PIPE.
6. REFER TO SECTION "F" SHEET 14 FOR CLEANOUT DETAIL.
7. REFER TO DETAIL "A" SHEET 14 FOR LEACHATE COLLECTION AND LINER DETAILS.

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NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KENT WILKINSON 6/3/08

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
LEACHATE PIPING PLAN

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
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DATE: OCTOBER 2007			

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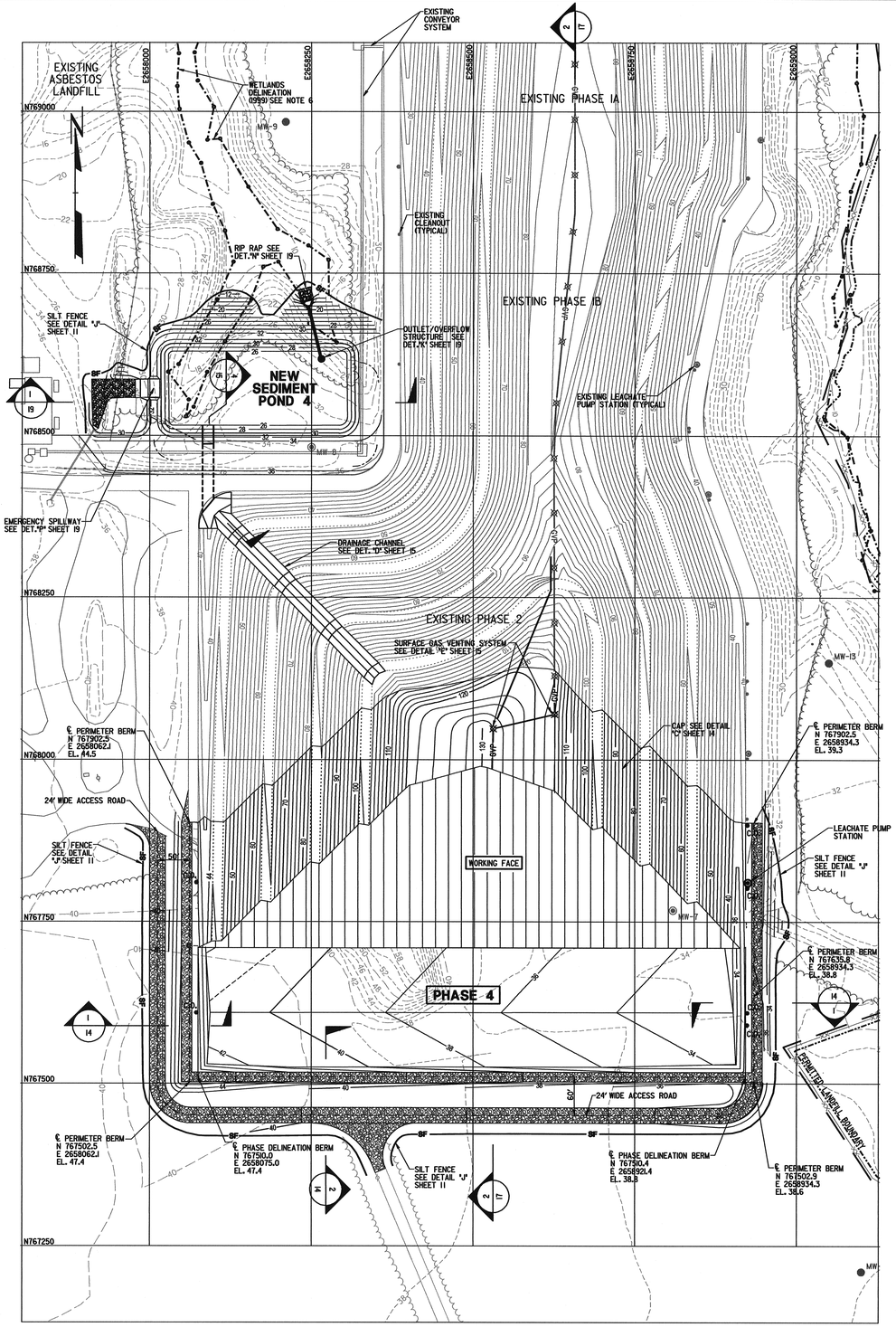
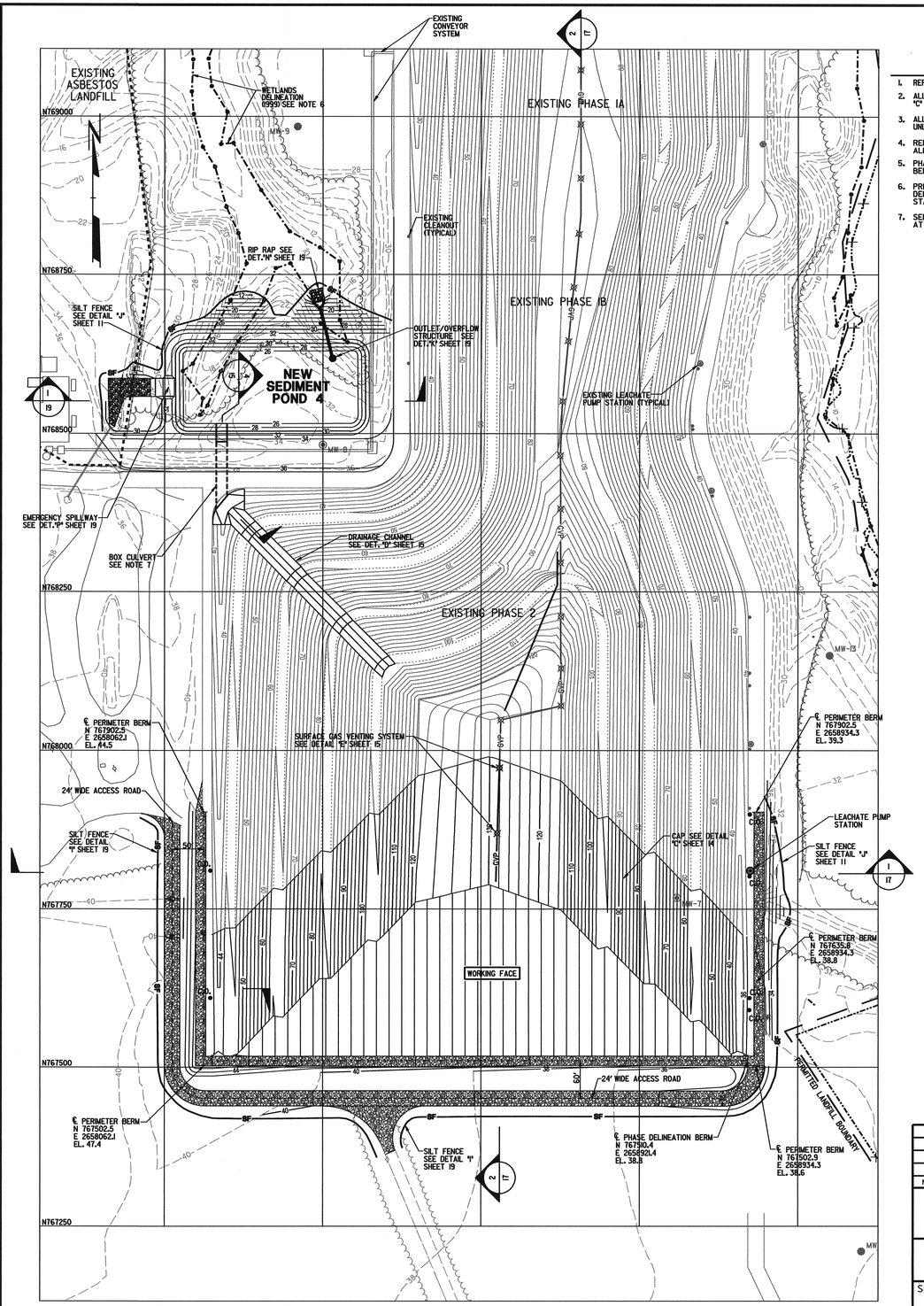


FINAL GRADING PLAN PHASE 3



FINAL GRADING PLAN PHASE 4

NOTES

1. REFER TO SHEET 1 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL FINAL GRADE ELEVATIONS SHOWN ARE FINISHED ELEVATIONS. REFER TO DETAIL "C" SHEET 14 FOR CAP THICKNESS.
3. ALL FINAL GRADE SLOPES ARE TO BE 3' (HORIZONTAL) TO 1' (VERTICAL) UNLESS NOTED OTHERWISE.
4. REFER TO SHEET 11 FOR THE OVERALL GRADING PLAN FOR ALL PHASES.
5. PHASE 3 AND 4 SHALL NOT BE CLOSED UNTIL PHASES 5 AND 6 HAVE BEEN CONSTRUCTED. SEE SHEET 12 FOR PHASE PROGRESSION.
6. PRIOR TO CONSTRUCTION OF SEDIMENT POND No. 4 THE WETLAND DELINEATION SHALL BE VERIFIED, AND IF NECESSARY, THE APPROPRIATE STATE AND FEDERAL PERMITS SHALL BE OBTAINED.
7. SEDIMENT POND No. 4 AND BOX CULVERT SHALL BE CONSTRUCTED AT THE TIME OF PHASE 2 CAPPING.

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER KENT NILSSON

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
FINAL GRADING PLAN
PHASE 3 & 4

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 10 OF 19	
DATE: OCTOBER 2007			

RMT NORTH CAROLINA, INC.

0 100 200 300 400
SCALE: 1" = 100'

finalgrading3&4.dgn 1/9/2008 1:45:12 PM

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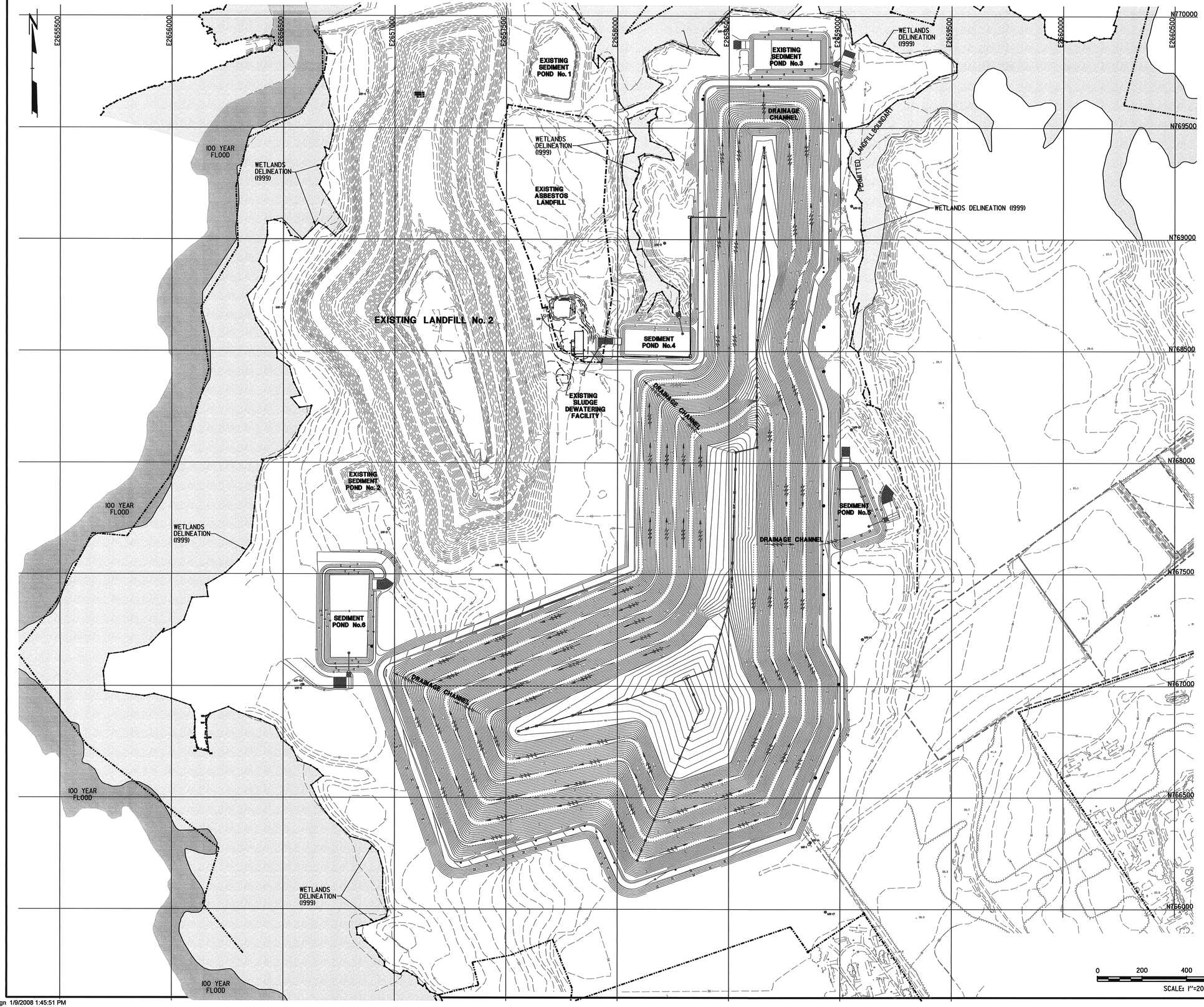

NOTES

1. REFER TO SHEET 2 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL NEW SLOPES ARE TO BE 3' (HORIZONTAL) TO 1' (VERTICAL) UNLESS NOTED OTHERWISE.
3. REFER TO DETAIL "C" SHEET 14 FOR CAP THICKNESS AND CONSTRUCTION.

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KEND NICHOLSON

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
FINAL GRADING PLAN - OVERALL

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 11 OF 19	
DATE: OCTOBER 2007			

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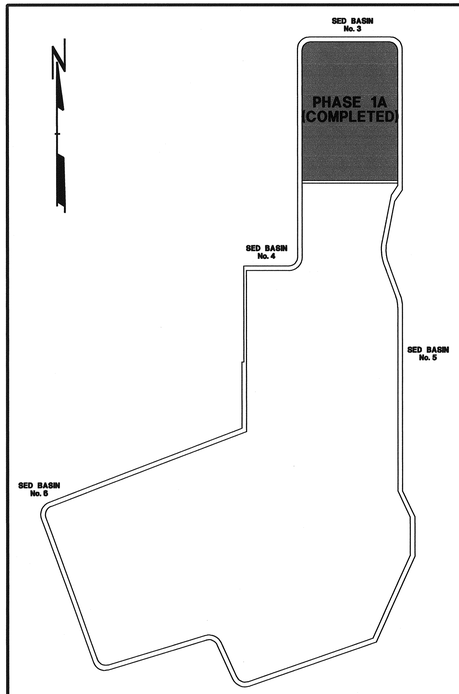
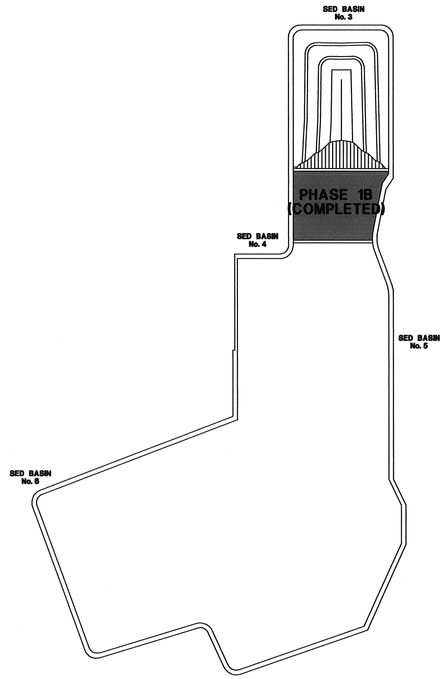


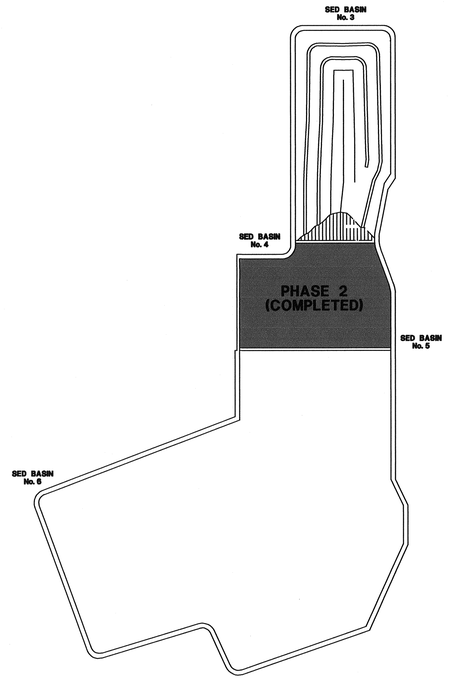
PHASE 1A CONSTRUCTION SEQUENCE (COMPLETED)

- INSTALL NEW MONITORING WELLS MW-9 THROUGH MW-16 PRIOR TO CONSTRUCTION OF PHASE IA
- ABANDON MW-8, MW-14, MW-15 AND ABANDON OW-1 THROUGH OW-15
- CONSTRUCT PHASE IA LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATIONS 1 AND 2
- CONSTRUCT NEW SEDIMENTATION POND NO. 3
- CONSTRUCT PARTIAL FINAL CAP OF PHASE IA FROM NORTH TO SOUTH AS FILL IS COMPLETED



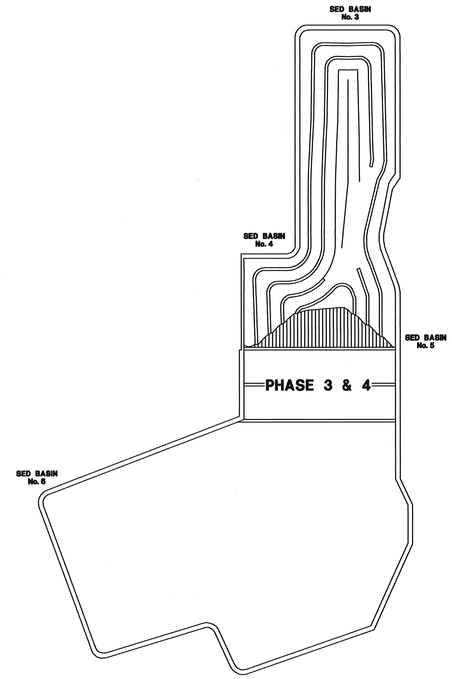
PHASE 1B CONSTRUCTION SEQUENCE (COMPLETED)

- CONSTRUCT PHASE IB LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATIONS 3
- COMPLETE PHASE IA CAP EXCEPT WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE IB FROM NORTH TO SOUTH AS FILL IS COMPLETED



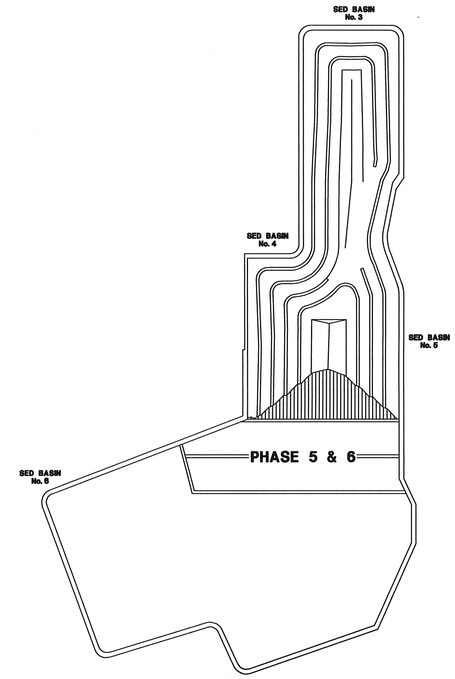
PHASE 2 CONSTRUCTION SEQUENCE (COMPLETED)

- CONSTRUCT PHASE 2 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATIONS 4 AND 5
- COMPLETE PHASE IB CAP EXCEPT WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE 2 FROM NORTH TO SOUTH AS FILL IS COMPLETED



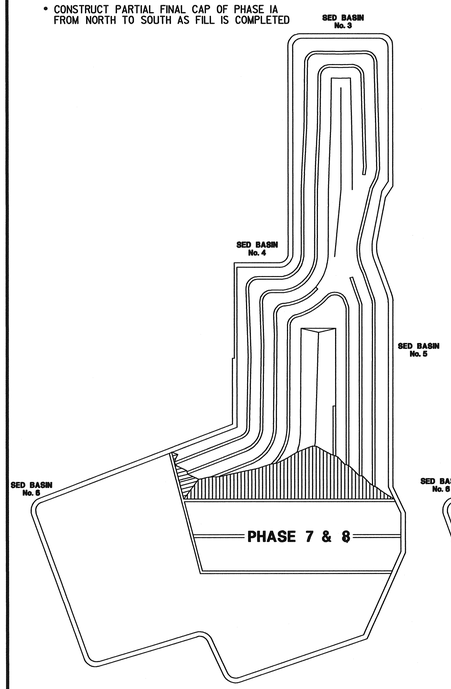
PHASE 3 & 4 CONSTRUCTION SEQUENCE

- CONSTRUCT PHASE 3 & 4 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATION 6
- CONSTRUCT NEW SEDIMENTATION POND NO. 4
- COMPLETE PHASE 2 CAP EXCEPT WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE 3 & 4 FROM NORTH TO SOUTH AS FILL IS COMPLETED



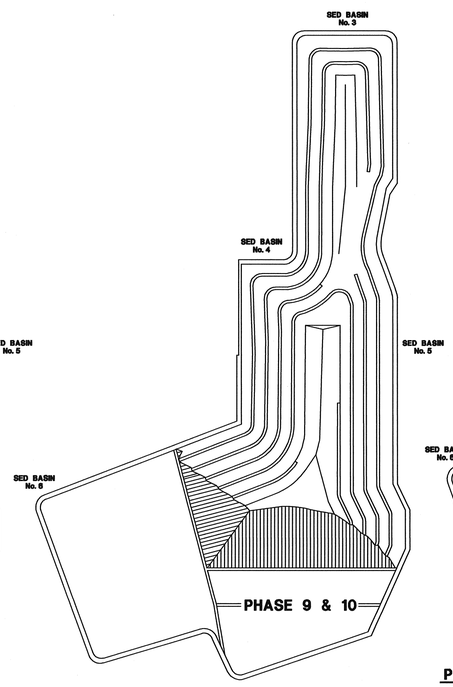
PHASE 5 & 6 CONSTRUCTION SEQUENCE

- CONSTRUCT PHASE 5 & 6 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT NEW SEDIMENTATION POND No. 5
- CONSTRUCT LEACHATE PUMP STATION 7
- COMPLETE PHASE 3 & 4 CAP EXCEPT WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE 5 & 6 FROM NORTH TO SOUTH AS FILL IS COMPLETED



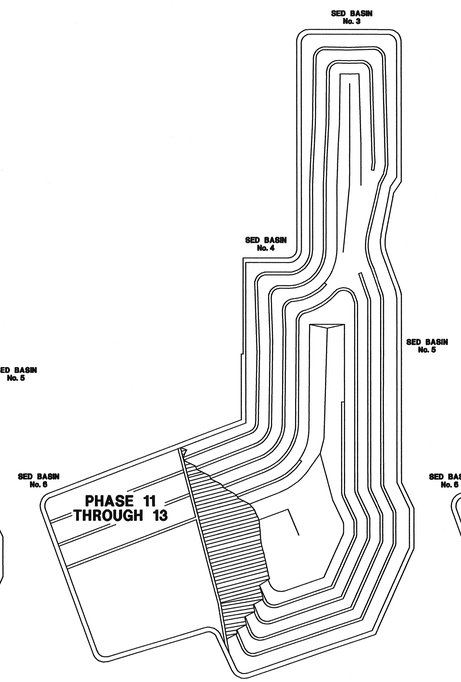
PHASE 7 & 8 CONSTRUCTION SEQUENCE

- CONSTRUCT PHASE 7 & 8 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATION 8
- COMPLETE PHASE 5 & 6 CAP EXCEPT FOR WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE 7 & 8 FROM NORTH TO SOUTH AS FILL IS COMPLETED



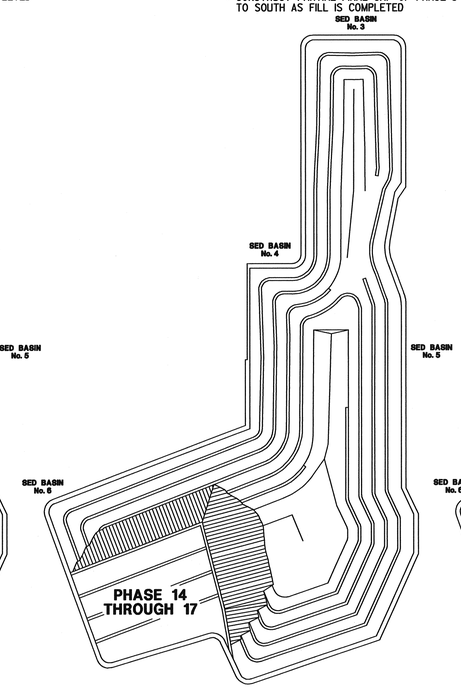
PHASE 9 & 10 CONSTRUCTION SEQUENCE

- CONSRUCT PHASE 9 & 10 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT LEACHATE PUMP STATION 9
- COMPLETE PHASE 7 & 8 CAP EXCEPT FOR WORKING FACE
- CONSTRUCT PARTIAL FINAL CAP OF PHASE 9 & 10 FROM NORTH TO SOUTH AS FILL IS COMPLETED



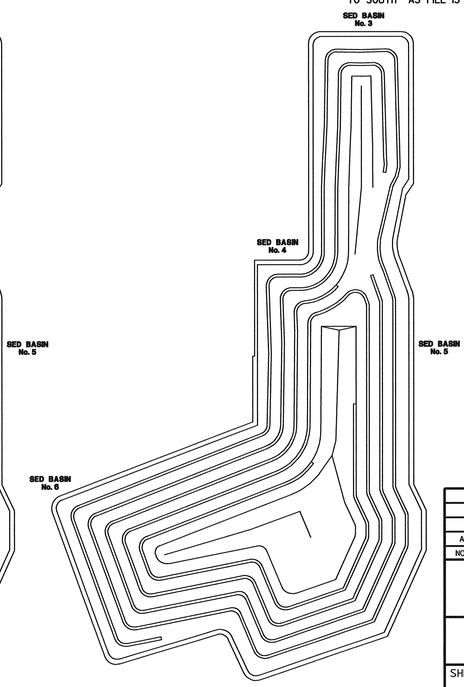
PHASE 11 THROUGH 13 CONSTRUCTION SEQUENCE

- CONSTRUCT PHASE 11 THROUGH 13 LINER AND LEACHATE COLLECTION SYSTEM
- CONSTRUCT NEW SEDIMENTATION POND NO. 6
- CONSTRUCT LEACHATE PUMP STATION 10
- CAP PHASE 3 THROUGH 6 WORKING FACE AS FILL IS COMPLETED
- CAP PHASE 7 & 8 WORKING FACE AS FILL IS COMPLETED
- CAP PHASE 9 & 10 WORKING FACE AS FILL IS COMPLETED
- CAP PHASE 11 THROUGH 13 WORKING FACE AS FILL IS COMPLETED



PHASE 14 THROUGH 17 CONSTRUCTION SEQUENCE

- CONSTRUCT PHASE 14 THROUGH 17 LINER AND LEACHATE COLLECTION SYSTEM
- CAP PHASE 7 & 8 WORKING FACE AS FILL IS COMPLETED
- CAP PHASE 9 & 10 WORKING FACE AS FILL IS COMPLETED
- CAP PHASE 11 THROUGH 17 WORKING FACE AS FILL IS COMPLETED



FINISHED LANDFILL

0 400 800 1200 1600

SCALE: 1"= 400'

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KENT KNOWLTON 6/3/08

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
PHASE PROGRESSION PLAN

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 12 OF 19	
DATE: OCTOBER 2007			

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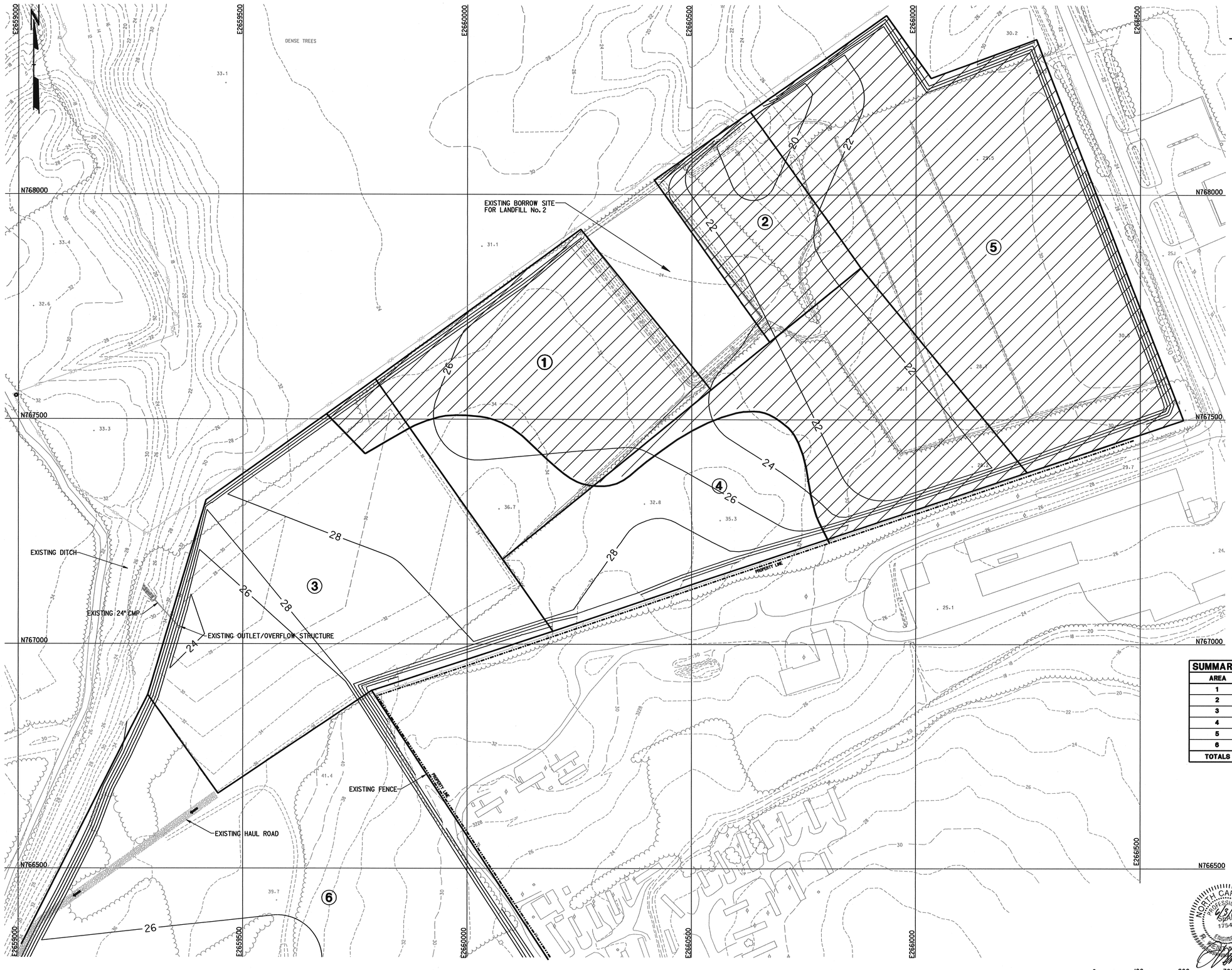

NOTES

1. REFER TO SHEET 10F FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CLEARING AND GRUBBING LIMITS SHALL BE 10' OUTSIDE THE CONSTRUCTION LIMITS.
3. BORROW OPERATIONS SHALL BEGIN AT THE OUTLET/OVERFLOW STRUCTURE AND PROGRESS TO THE EAST AND SOUTH.
4. AFTER BORROW OPERATION IS COMPLETE, ALL DISTURBED AREAS SHALL BE GRASSED IN ACCORDANCE WITH SECTIONS 02921 AND 02923 OF THE SPECIFICATIONS.
5. PROPOSED GRADES SHOWN IN BORROW AREA ARE FOR GENERAL INFORMATION. CONTRACTOR IS TO BORROW MATERIAL IN A LOGICAL SEQUENCE AND INSURE POSITIVE DRAINAGE TO THE OUTLET OVERFLOW STRUCTURE AT ALL TIMES.
6. TOPSOIL AND CLAY THAT IS EXCAVATED FROM THE BORROW SITE IS TO BE STOCKPILED IN THE AREAS DESIGNATED ON SHEET 7.
7. ESTIMATED BORROW MATERIAL VOLUMES (AS SHOWN IN TABLE ON THIS SHEET) WERE AS OF 1-18-02. PRESENT IN-PLACE BORROW MATERIAL VOLUMES MAY BE LESS.

LEGEND

MOST ABUNDANT CLAY DEPOSITS (SUITABLE FOR LINER AND CAP CONSTRUCTION)

SUMMARY OF ESTIMATED BORROW MATERIAL AVAILABLE

AREA	TOPSOIL	CLAY AND GENERAL FILL
1	5,000 C.Y.	65,500 C.Y.
2	2,000 C.Y.	21,400 C.Y.
3	6,800 C.Y.	48,700 C.Y.
4	7,500 C.Y.	98,600 C.Y.
5	9,300 C.Y.	58,000 C.Y.
6	25,200 C.Y.	328,400 C.Y.
TOTALS	55,800 C.Y.	620,600 C.Y.

0 100 200 300 400
SCALE: 1"=100'

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
BORROW AREA SITE PLAN

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 13 OF 19	
DATE: OCTOBER 2007			

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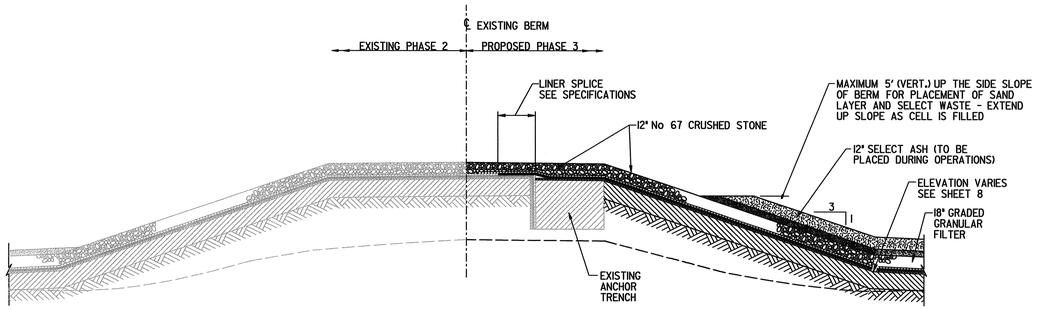

3 / 8,9 **SECTION - PHASE DELINEATION BERM**
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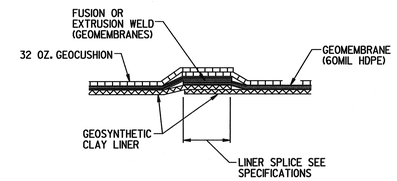
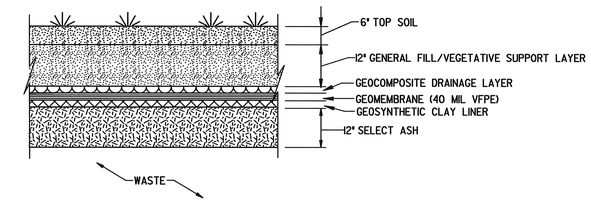
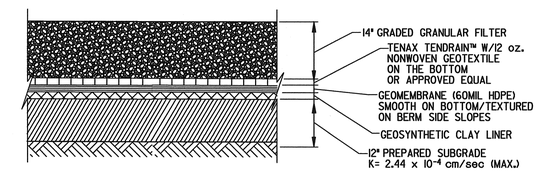


NOTE
VERTICAL SCALE EXAGGERATED FOR CLARITY

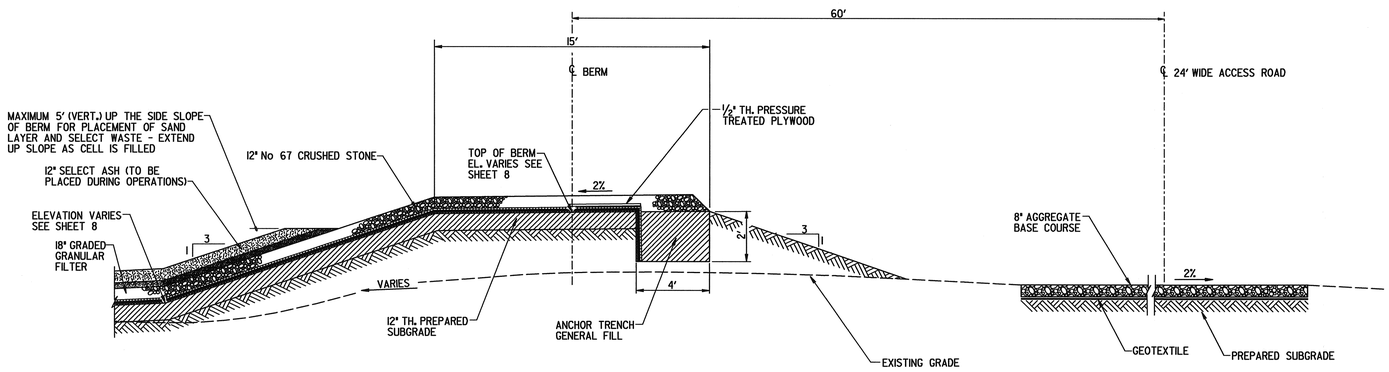
B / 15 **TYPICAL LINER SPLICE DETAIL**
NOT TO SCALE



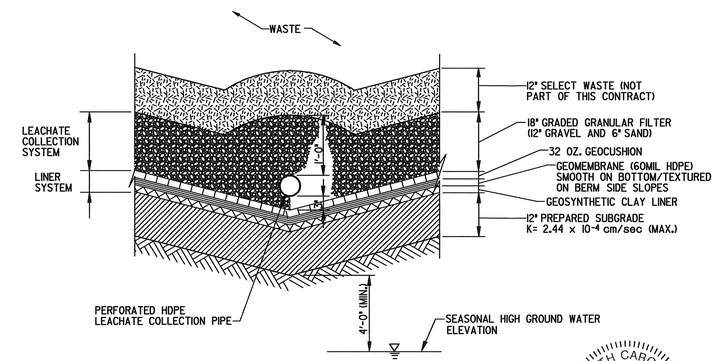
C / 10,11 **CAP DETAIL**
NOT TO SCALE



ALTERNATE LINER DETAIL
NTS



2 / 8,9,10 **SECTION - PHASE DELINEATION BERM**
NOT TO SCALE



A / 8,9,16 **LINER/LEACHATE COLLECTION DETAIL**
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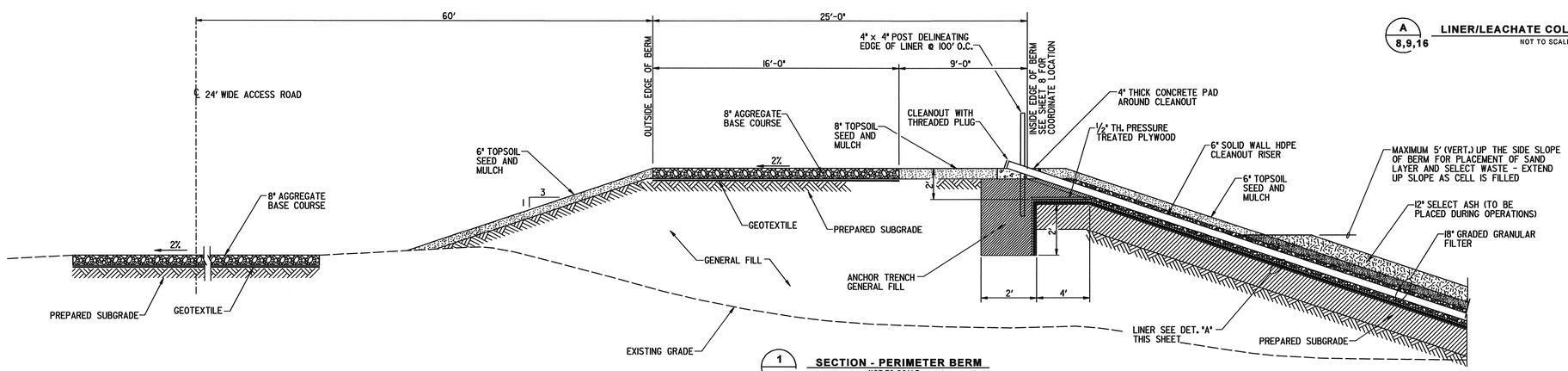

1 / 8,9,10 **SECTION - PERIMETER BERM**
NOT TO SCALE

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KEVIN NELSON

NO.	BY	DATE	REVISION	APPD.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
LANDFILL DETAILS - SHEET 1

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 14 OF 19	
DATE: OCTOBER 2007			

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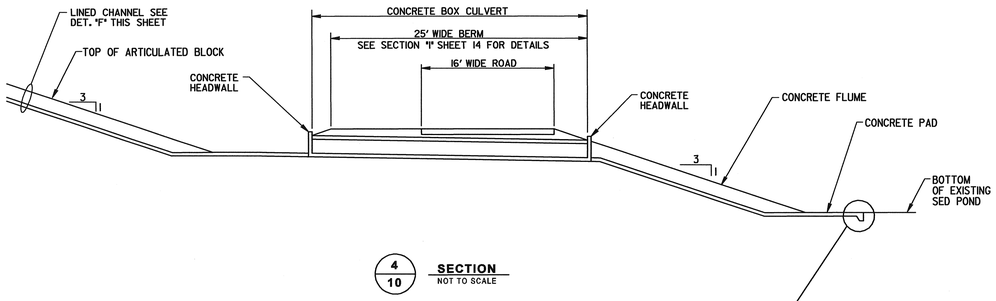
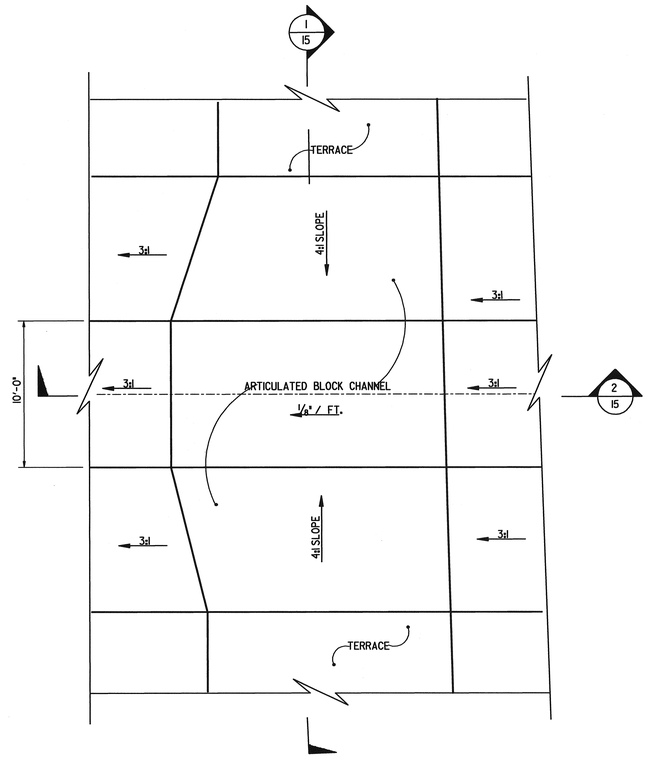


4/10 SECTION
NOT TO SCALE



ENLARGED CHANNEL PLAN AT TERRACE
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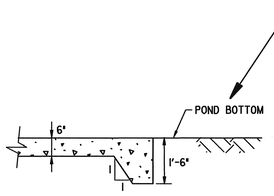

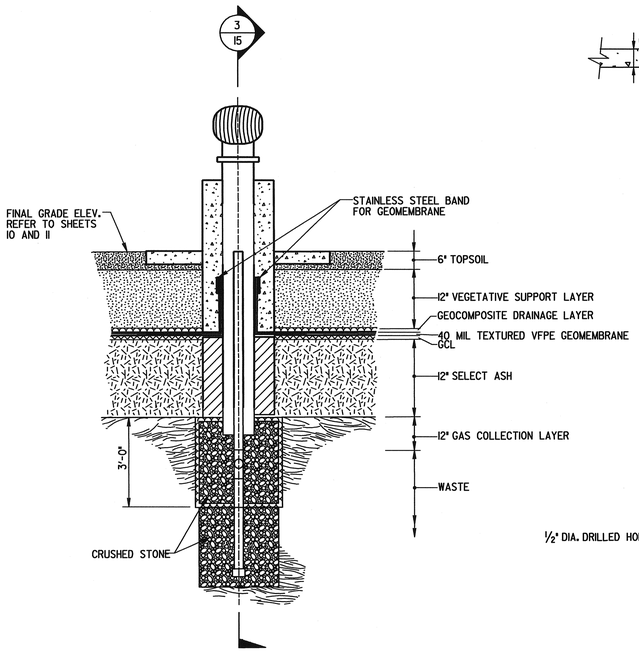

E/10,11 SURFACE GAS VENTING SYSTEM DETAIL
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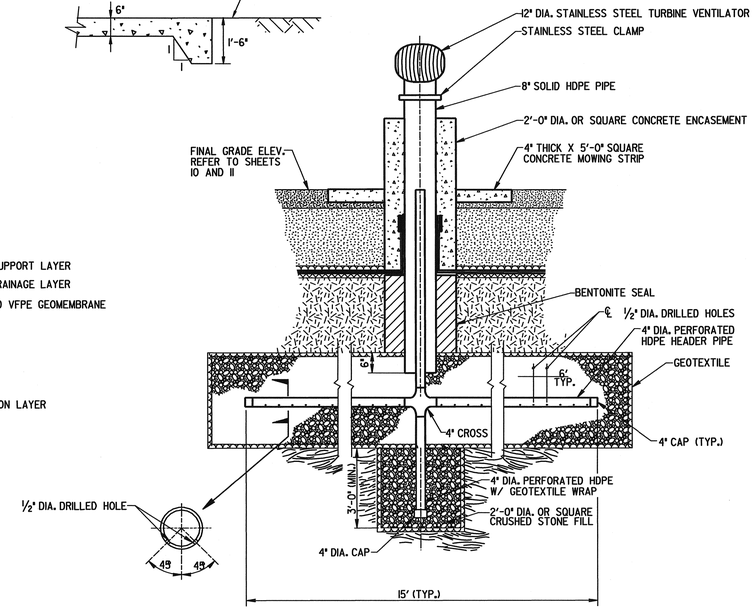

3/15 SECTION
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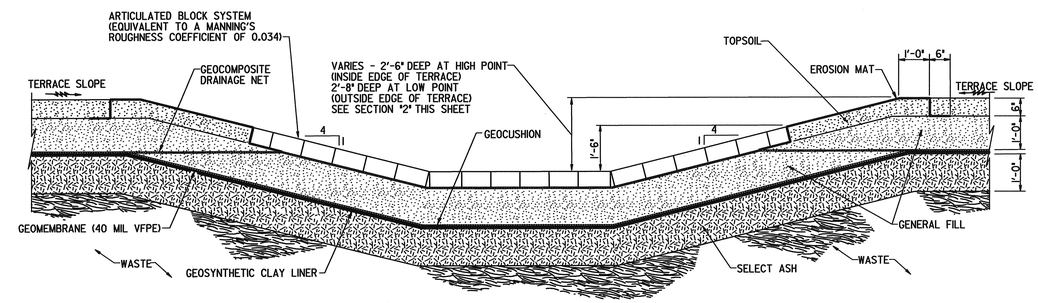
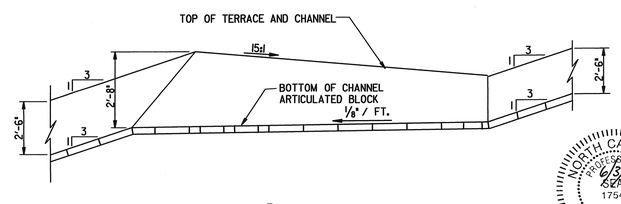


1/15 SECTION
NOT TO SCALE

D/10,11 LINED CHANNEL DETAIL
NOT TO SCALE



2/15 SECTION
NOT TO SCALE

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
LANDFILL DETAILS - SHEET 2

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 15 OF 19	
DATE: OCTOBER 2007			

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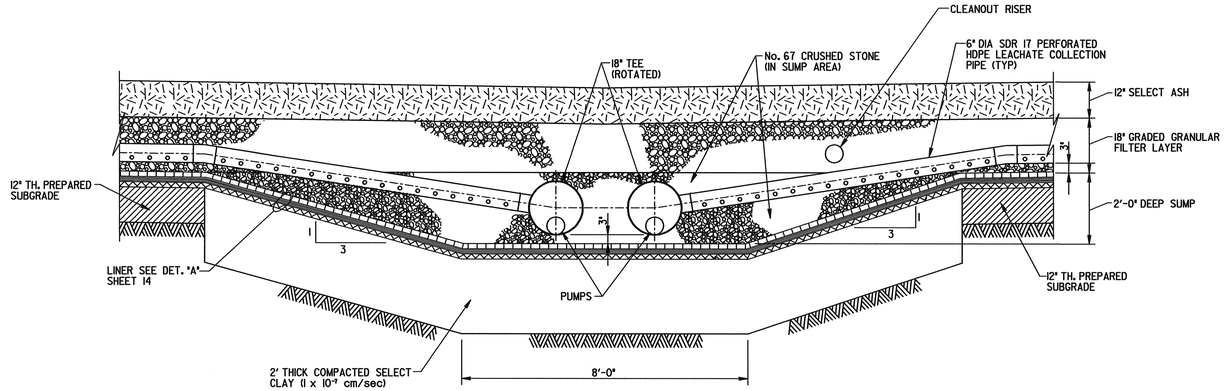
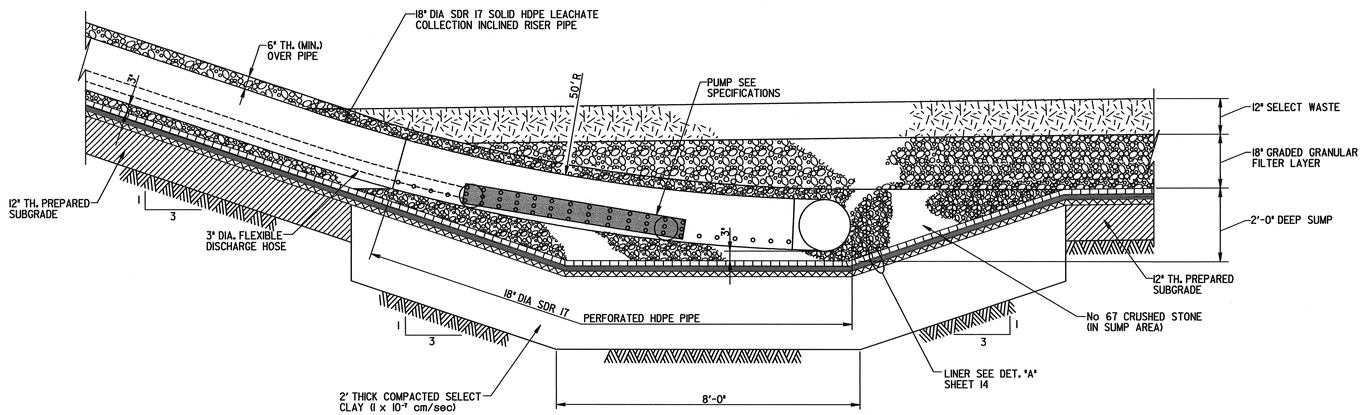
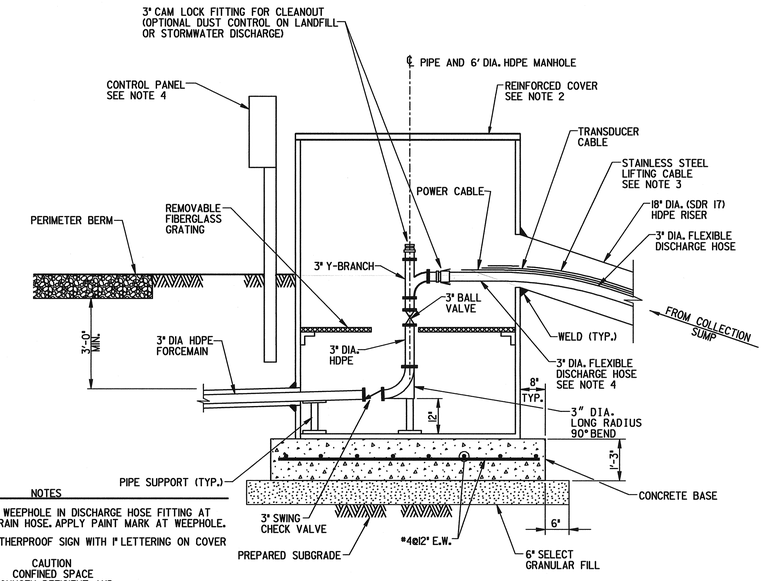


3/16 SECTION 1/2"=1'-0"



2/16 SECTION 1/2"=1'-0"

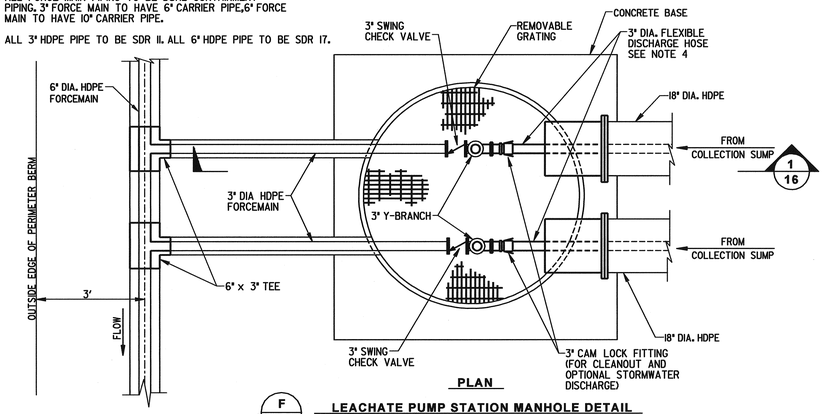


1/16 SECTION 1/2"=1'-0"

NOTES

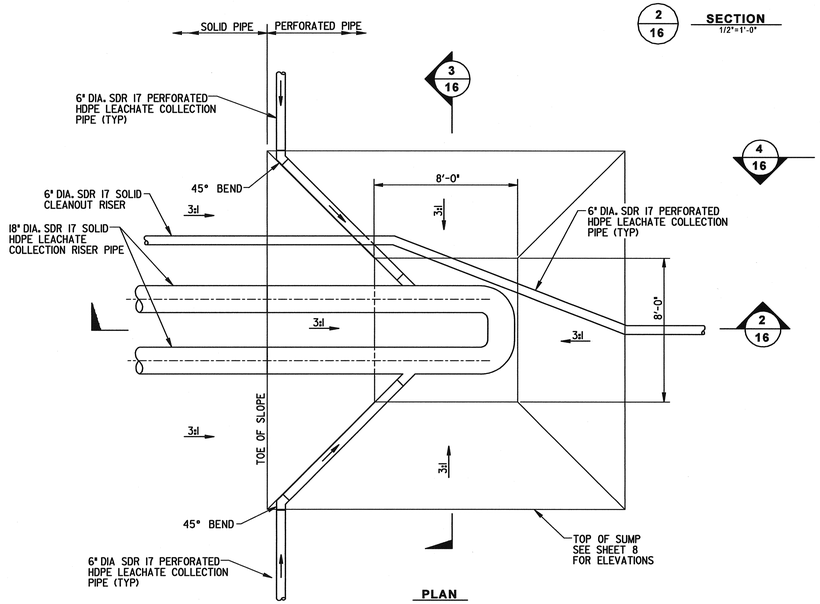
1. PROVIDE 1/8" WEEPHOLE IN DISCHARGE HOSE FITTING AT PUMP TO DRAIN HOSE. APPLY PAINT MARK AT WEEPHOLE.
2. MOUNT WEATHERPROOF SIGN WITH 1" LETTERING ON COVER STATING:

   CAUTION
   CONFINED SPACE
   OXYGEN DEFICIENT AND
   EXPLOSIVE HAZARDS PRESENT
   ENTRY BY PERMIT ONLY
3. PUMP LIFT CABLE TO BE FASTENED TO INSIDE OF MANHOLE.
4. CONTROL PANEL, PUMP AND DISCHARGE HOSE (TO QUICK CONNECT FITTING) TO BE PROVIDED BY LEACHATOR PUMPING SYSTEMS. ELECRICAL JUNCTION BOX TO BE INSTALLED BETWEEN MANHOLE AND CONTROL PANEL TO PREVENT MIGRATION OF GAS THROUGH CONDUIT.
5. ALL FORCE MAIN PIPING TO BE DUAL CONTAINMENT PIPING. 3" FORCE MAIN TO HAVE 6" CARRIER PIPE, 6" FORCE MAIN TO HAVE 10" CARRIER PIPE.
6. ALL 3" HDPE PIPE TO BE SDR 11. ALL 6" HDPE PIPE TO BE SDR 17.



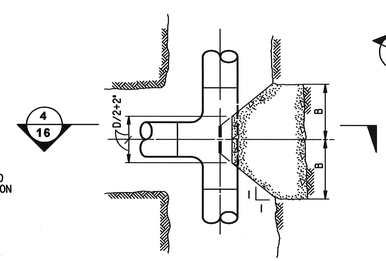
PLAN

F/9 LEACHATE PUMP STATION MANHOLE DETAIL 1/2"=1'-0"

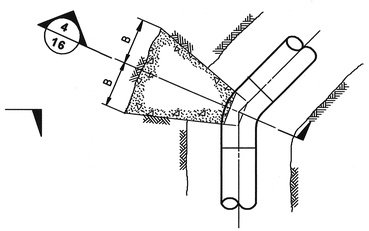


PLAN

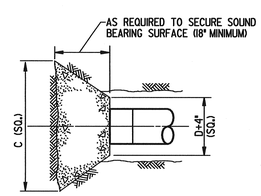
G/8,9 LEACHATE COLLECTION SUMP DETAIL 1/4"=1'-0"



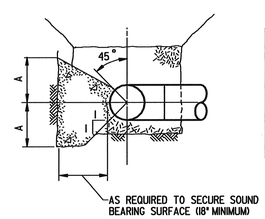
PLAN - TEES



PLAN - BENDS



PLAN & ELEVATION - PLUGS



4/16 SECTION NOT TO SCALE

H/9 TYPICAL THRUST BLOCK DETAIL NOT TO SCALE

***THRUST BLOCK DIMENSION TABLE**

PIPE SIZE	90° ELLS		45° ELLS		22½° ELLS 11¼° ELLS		TEES		PLUGS
D	A	B	A	B	A	B	A	B	C
3"	0'-9"	1'-0"	0'6"	0'-9"	0'-6"	0'-6"	0'-9"	1'-0"	1'-6"
6"	1'-0"	2'-7"	1'-0"	1'-6"	0'-9"	1'-0"	1'-0"	2'-7"	2'-9"

* DIMENSIONS SHOWN ARE MINIMUM AND ARE BASED ON A TEST PRESSURE OF 225 PSI AND A SOIL BEARING CAPACITY OF 2000 PSF

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KENT NELSON 6/3/08

NO.	BY	DATE	REVISION	APPD.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

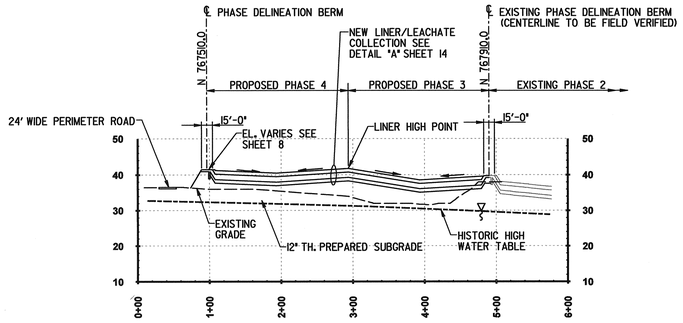
Domtar

NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

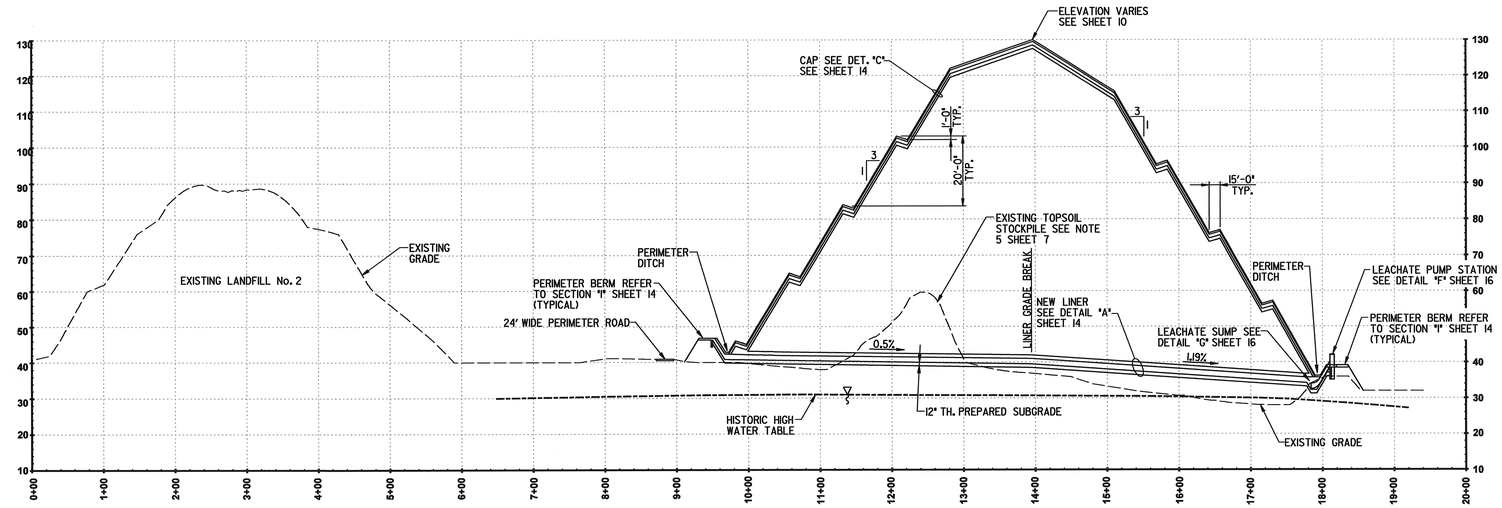
SHEET TITLE:
LEACHATE COLLECTION AND REMOVAL SYSTEM DETAILS

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
CHECKED BY: RKN		FILE NO.	
APPROVED BY: MBP	DATE PRINTED:	SHEET 16 OF 19	
DATE: OCTOBER 2007			

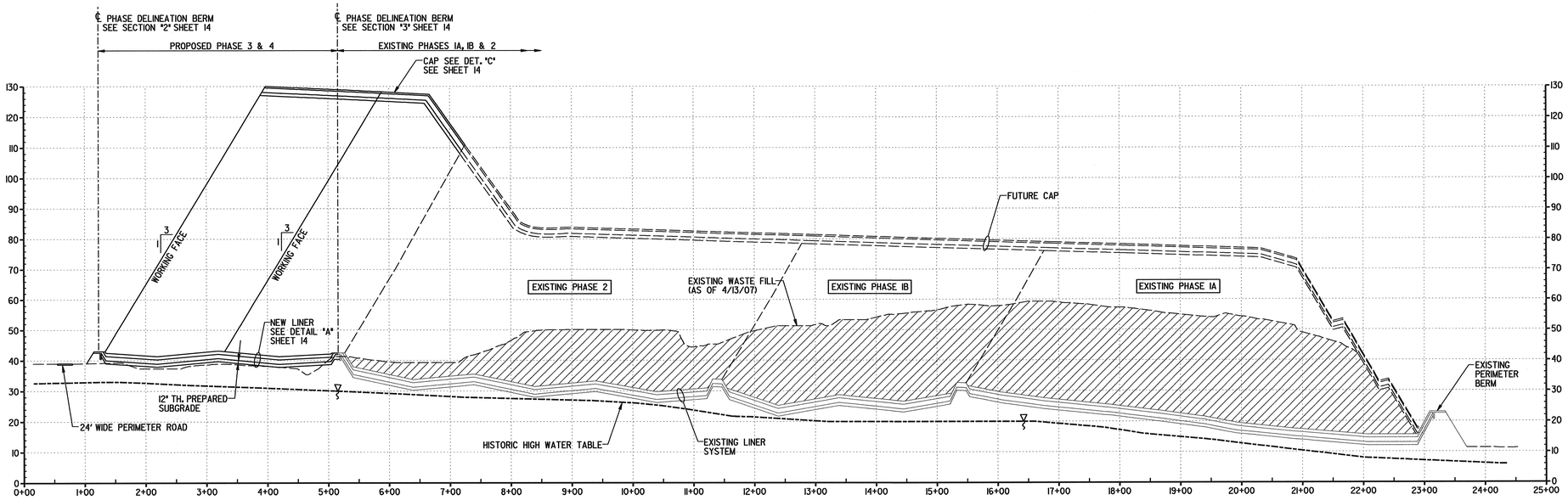
RMT NORTH CAROLINA, INC.



3 / 8,9 **SECTION**
1"=100' HORIZ.
1"=20' VERT.



1 / 8,9,10 **SECTION**
1"=100' HORIZ.
1"=20' VERT.



2 / 10 **SECTION**
1"=100' HORIZ.
1"=20' VERT.

0 20 40 60 80
SCALE: 1"= 20' (VERT.)

0 100 200 300 400
SCALE: 1"= 100' (HORIZ.)

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER R. KEVIN NICHOLSON
6/3/08

THE HYDROGEOLOGY WORK FOR DOMTAR IN PLYMOUTH, NORTH CAROLINA WAS PERFORMED BY RMT, INC. CONSULTING HYDROGEOLOGIST IN SUPPORT OF RMT NORTH CAROLINA, INC.

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
ENGINEERING CROSS SECTIONS

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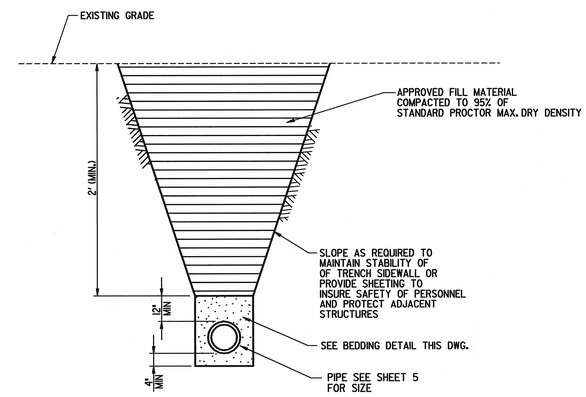
NOTES

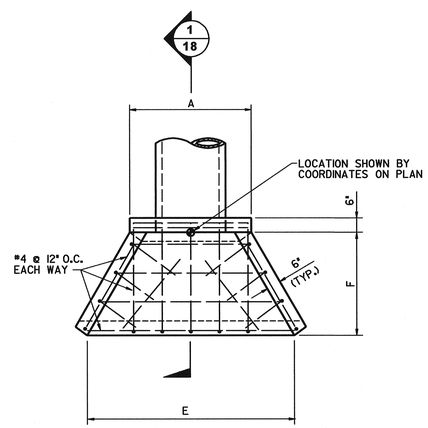
1. REFER TO SHEET 1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. SLUMP SHALL BE BETWEEN 2 AND 4 INCHES IN ACCORDANCE WITH ASTM C143.

CAST-IN-PLACE CONCRETE REQUIREMENTS

1. ALL REINFORCING STEEL SHALL BE GRADE 60, DEFORMED BARS, CONFORMING TO ASTM A615.
2. ALL DETAILING, FABRICATION, AND PLACING OF REINFORCED STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-SP-66, LATEST EDITION).
3. DO NOT PLACE CONCRETE WHEN WEATHER CONDITIONS PREVENT PROPER PLACEMENT AND CONSOLIDATION.
4. COLD WEATHER: ACI 306R. PROVIDE AND MAINTAIN 50 DEGREES F MINIMUM, CONCRETE TEMPERATURE. DO NOT PLACE CONCRETE WHEN THE AMBIENT TEMPERATURE IS BELOW 40 DEGREES F. COVER CONCRETE AND PROVIDE WITH A SOURCE OF HEAT SUFFICIENT TO MAINTAIN 50 DEGREES F MINIMUM WHILE CURING.
5. HOT WEATHER: ACI 305R. CONCRETE TEMPERATURE FROM INITIAL MIXING THROUGH FINAL CURE SHALL NOT EXCEED 90 DEGREES F. COOL INGREDIENTS BEFORE MIXING, OR SUBSTITUTE CHIP ICE FOR PART OF REQUIRED MIXING WATER OR USE OTHER SUITABLE MEANS TO CONTROL CONCRETE TEMPERATURE TO PREVENT RAPID DRYING OF NEWLY PLACED CONCRETE. SHADE THE FRESH CONCRETE AND START CURING AS SOON AS THE SURFACE OF THE FRESH CONCRETE IS SUFFICIENTLY HARD TO PERMIT CURING WITHOUT DAMAGE.
6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾"x 45°.
7. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318-99.

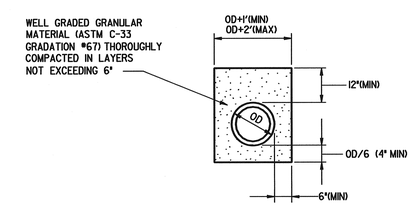


TYPICAL TRENCHING DETAIL
NOT TO SCALE

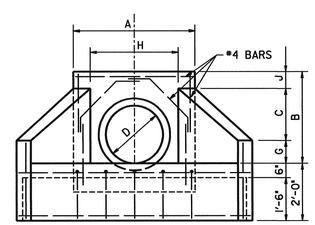


PLAN

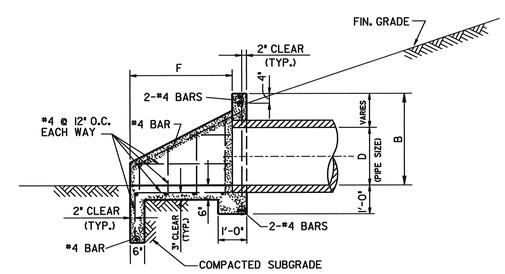
DIMENSION TABLE									
D	A	B	C	E	F	G	H	J
12"	3'-2"	2'-0"	0'-11"	4'-0"	1'-9"	6"	2'-0"	7"
18"	3'-8"	2'-7½"	1'-4½"	5'-8½"	2'-9"	8"	2'-6"	7"
24"	4'-3"	3'-2"	1'-9½"	7'-3"	3'-7"	0'-9½"	3'-1"	7"
30"	4'-10½"	3'-8½"	2'-1½"	8'-7½"	4'-3"	1'-0"	3'-8½"	7"



TYPICAL PIPE BEDDING DETAIL
NOT TO SCALE



ELEVATION



1/18 **SECTION**

J/10,11 **TYPICAL CONCRETE HEADWALL DETAIL (0°-30° SKEW)**
NOT TO SCALE

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A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
MISCELLANEOUS DETAILS

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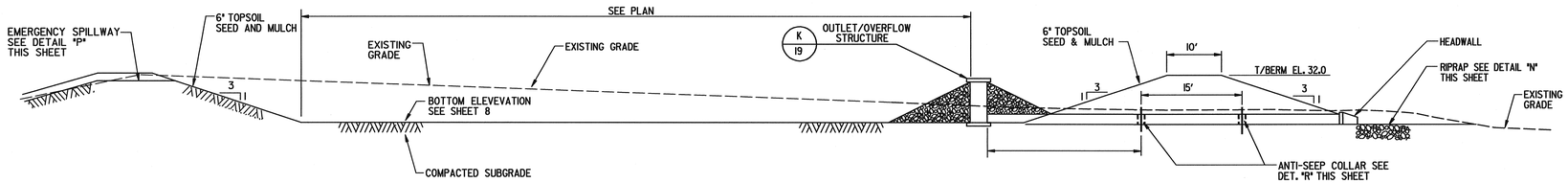
DATE: OCTOBER 2007			

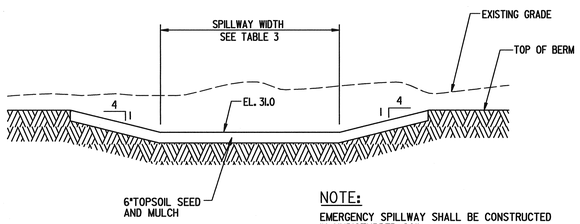
RMT NORTH CAROLINA, INC.

NOTES

1. REFER TO SHEET 1 FOR STANDARD LEGEND, ABBREVIATIONS AND GENERAL NOTES.

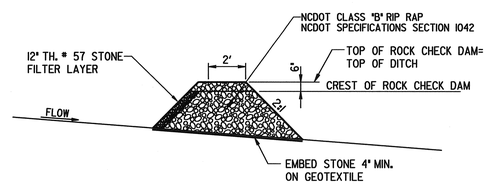


1/8 SECTION - SEDIMENT POND No. 4
NOT TO SCALE

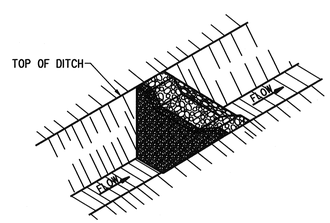


NOTE:
EMERGENCY SPILLWAY SHALL BE CONSTRUCTED IN UNDISTURBED SOIL.

P 8,9,10 EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

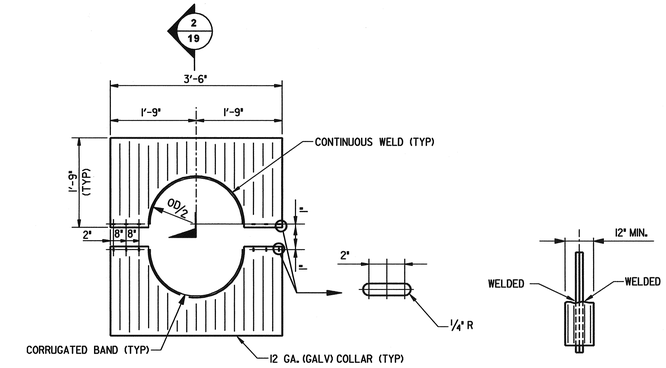


SECTION



ISOMETRIC VIEW

TYPICAL ROCK CHECK DAM DETAIL
NOT TO SCALE



ELEVATION
NOT TO SCALE

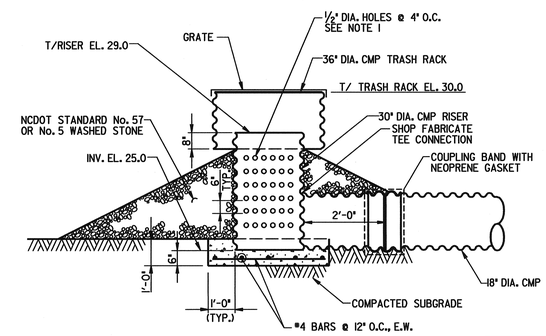
2/19 SECTION
NOT TO SCALE

NOTE:
THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT TIME OF INSTALLATION. CONNECT COLLAR TO PIPE WITH 1/2" DIA. RODS WITH STANDARD TANK LUGS

R 19 ANTI-SEEP COLLAR DETAIL
NOT TO SCALE

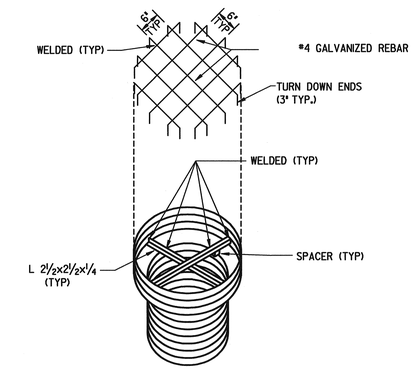
TABLE - 4
OUTLET PROTECTION SUMMARY

OUTLET	Q (CFS)	V (FPS)	D (IN.)	Dx (FT.)	Dy (FT.)
HW-1			18	50	22



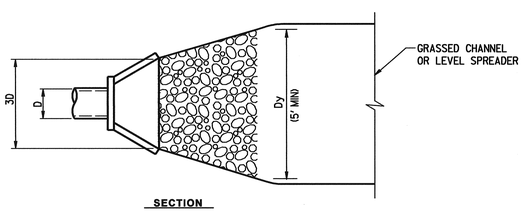
SECTION

NOTE
1. HOLES IN OUTLET/OVERFLOW STRUCTURE SHALL BE MACHINE DRILLED. FIELD CUTTING WITH TORCH IS NOT ACCEPTABLE.

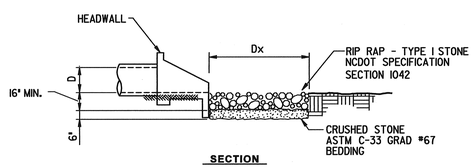


ISOMETRIC

K 8,9,10,19 OUTLET/OVERFLOW STRUCTURE DETAIL
NOT TO SCALE

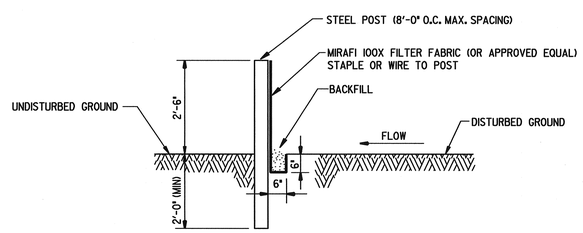


SECTION

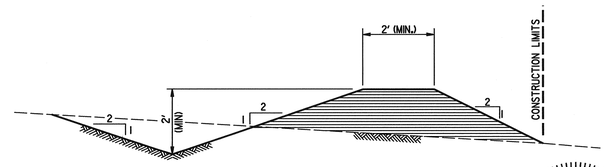


SECTION

N 8,9,10 RIP RAP DETAIL
NOT TO SCALE



L 8,9,10 TYPICAL SILT FENCE DETAIL
NOT TO SCALE



TYPICAL DIVERSION DITCH DETAIL
NOT TO SCALE

NO.	BY	DATE	REVISION	APP'D.
A	DMC	1-11-08	ISSUED FOR CLIENT REVIEW	RKN

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NEW LANDFILL No. 3 - PHASE 3 & 4
CONSTRUCTION PLAN APPLICATION
DOMTAR COMPANY
PLYMOUTH, NORTH CAROLINA

SHEET TITLE:
EROSION CONTROL DETAILS

DRAWN BY: DMC	SCALE: AS NOTED	PROJ. NO. 71717.01	
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APPROVED BY: MBP	DATE PRINTED:	SHEET 19 OF 19	
DATE: OCTOBER 2007			

NORTH CAROLINA PROFESSIONAL SEAL 17543 ENGINEER KENT NILSSON
1/9/08

RMT NORTH CAROLINA, INC.