

APPENDIX G

Select Phase I Construction Drawings

ENUMCLAW LANDFILL CLOSURE PROJECT

PHASE I

PREPARED FOR:

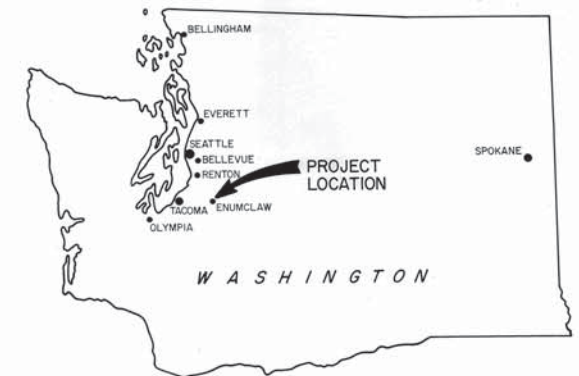
KING COUNTY, WASHINGTON

PREPARED BY:

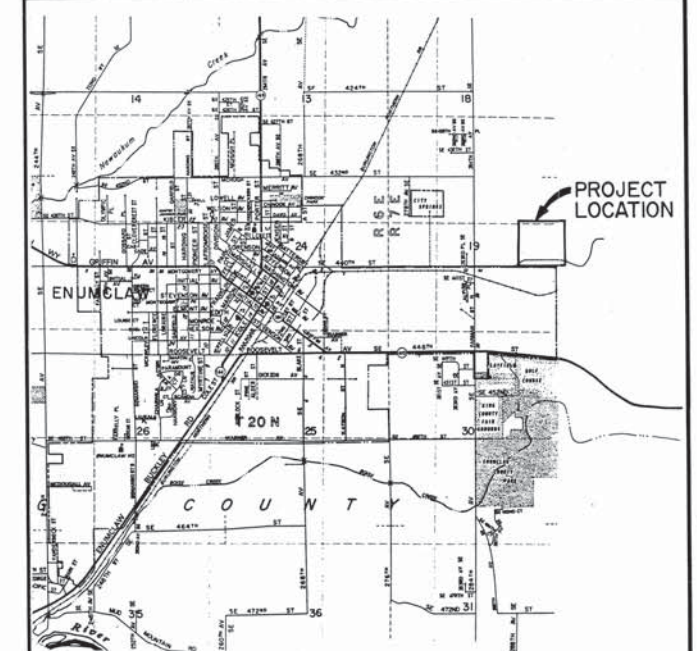
R. W. BECK AND ASSOCIATES

SWEET-EDWARDS/EMCON INC.

DON SHIMONO ASSOCIATES



LOCATION MAP



VICINITY MAP

DRAWING INDEX

	COVER SHEET
838-C-1	SITE PLAN
838-C-2	LANDFILL GRADING AND DRAINAGE PLAN
838-C-3	FINAL COVER PLAN
838-C-4	INFILTRATION BASIN GRADING
838-C-5	TYPICAL GRADING SECTIONS
838-C-6	TYPICAL GRADING SECTIONS
838-C-7	COVER DETAILS
838-C-8	DRAINAGE AND MISCELLANEOUS DETAILS
838-C-9	MISCELLANEOUS DETAILS
838-C-10	TANK PLANS AND MISCELLANEOUS DETAILS
838-C-11	LANDFILL GAS COLLECTION SYSTEM
838-C-12	GAS EXTRACTION WELL AND DETAILS
838-C-13	LFG EQUIPMENT COMPLEX SITE PLAN, SECTIONS AND DETAILS
838-C-14	LFG EQUIPMENT COMPLEX MECHANICAL PLAN AND SECTION
838-C-15	LFG EQUIPMENT COMPLEX FOUNDATION PLAN AND DETAILS
838-C-16	CONDENSATE SYSTEM
838-C-17	MISCELLANEOUS DETAILS
838-L-1	PLANTING PLAN
838-L-2	PLANTING PLAN
838-L-3	DETAIL SHEET/PLANTING PLAN
838-E-1	BLOWER/FLARE - ELECTRICAL PLAN AND DETAILS
838-E-2	CONTROL AND WIRING DIAGRAMS

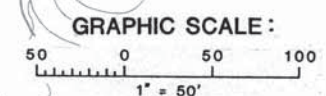
- NOTES:
1. NEW CONTOURS SHOWN ON THIS SHEET REPRESENT TOP OF FINISH SUBGRADE. 3" COVER SYSTEM WILL BE PLACED ON TOP. SEE FINAL COVER PLAN DWG. C-3.
 2. REFUSE WILL BE ENCOUNTERED IN ALL AREAS OF EXCAVATION.
 3. EMBANKMENT LIMITS SHOWN ARE APPROXIMATIONS ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION STAKING. SEE TYPICAL GRADING DETAILS DWG. S-C-5 AND C-6.

NORTH DITCH		
STATION	ELEVATION	DITCH SLOPE
N 0+00	856.50	30' TRANSITION
N 0+30	853.80	85' @ 0.9%
N 1+15	854.55	494.5' @ 1.6%
N 6+09.5	846.65	197.5' @ 14%
N 8+07	819.00	513' @ 6.38%
N 13+20	786.30	10' @ 3%
N 13+30	786.00	10' @ 0%
N 13+40	786.00	120' @ 5%
N 14+60	786.60	15' TRANSITION
N 14+75	788.68	270' @ 0.5%
N 17+45	790.00	

WEST DITCH		
STATION	ELEVATION	DITCH SLOPE
W 0+00	795.84	10' @ 1.6%
W 0+10	796.00	390' @ 7.5%
W 4+00	825.25	195' @ 1%
W 5+95	827.20	30' TRANSITION
W 6+25	829.50±	

STATION	BEARING	DISTANCE	CURVE DATA
N 0+00	N 1° 37' 16" E	150'	① PC STA. N 5+77.59 PT STA. N 6+54.07 Δ = 87° 38' 06" R = 50' L = 76.48' T = 47.98'
N 1+50	N 0° 30' 33" W	475.57'	
P.I. N 6+25.57 AHD	N 88° 08' 39" W	320.94'	
P.I. N 9+27.03 AHD	S 56° 12' 23" W	216.59'	
P.I. N 11+39.96 AHD	S 72° 22' 26" W	468.32'	② PC STA. N 8+70.76 PT STA. N 9+79.64 Δ = 35° 38' 57" R = 175' L = 108.88' T = 56.27'
P.I. N 16+07.94 AHD	S 28° 19' 51" W	138.67'	
N 17+45			
W 0+00	S 17° 37' 34" E	37.71'	
P.I. W 0+37.71 AHD	S 56° 30' 46" W	306.98'	③ PC STA. N 11+15.10 PT STA. N 11+64.48 Δ = 16° 10' 02" R = 175' L = 49.38' T = 24.86'
P.I. W 3+34.92 AHD	S 10° 53' 48" E	275.83'	
W 5+95			
W 0+00	S 17° 37' 34" E	37.71'	
P.I. W 0+37.71 AHD	S 56° 30' 46" W	306.98'	④ PC STA. W 0+03.71 PT STA. W 0+61.94 Δ = 74° 08' 21" R = 45' L = 58.23' T = 34'
P.I. W 3+34.92 AHD	S 10° 53' 48" E	275.83'	
W 5+95			
W 0+00	S 17° 37' 34" E	37.71'	
P.I. W 0+37.71 AHD	S 56° 30' 46" W	306.98'	⑤ PC STA. W 2+68.22 PT STA. W 3+85.87 Δ = 67° 24' 35" R = 100' L = 117.65' T = 66.7'
P.I. W 3+34.92 AHD	S 10° 53' 48" E	275.83'	
W 5+95			

CONTROL POINTS	NORTHING	EASTING
STA. N 1+50	10,750	12,555
PP 13 A	11,257.28	12,550.32
PP 50 (SEE DWG. C-1)	11,207.69	11,452.52



- LEGEND
- LIMIT OF FINAL COVER
 - - - 6" PERFORATED CORRUGATED DRAIN PIPE
 - - - 6" CORRUGATED DRAIN PIPE

Approximate location of former Phase I Leachate Lagoon

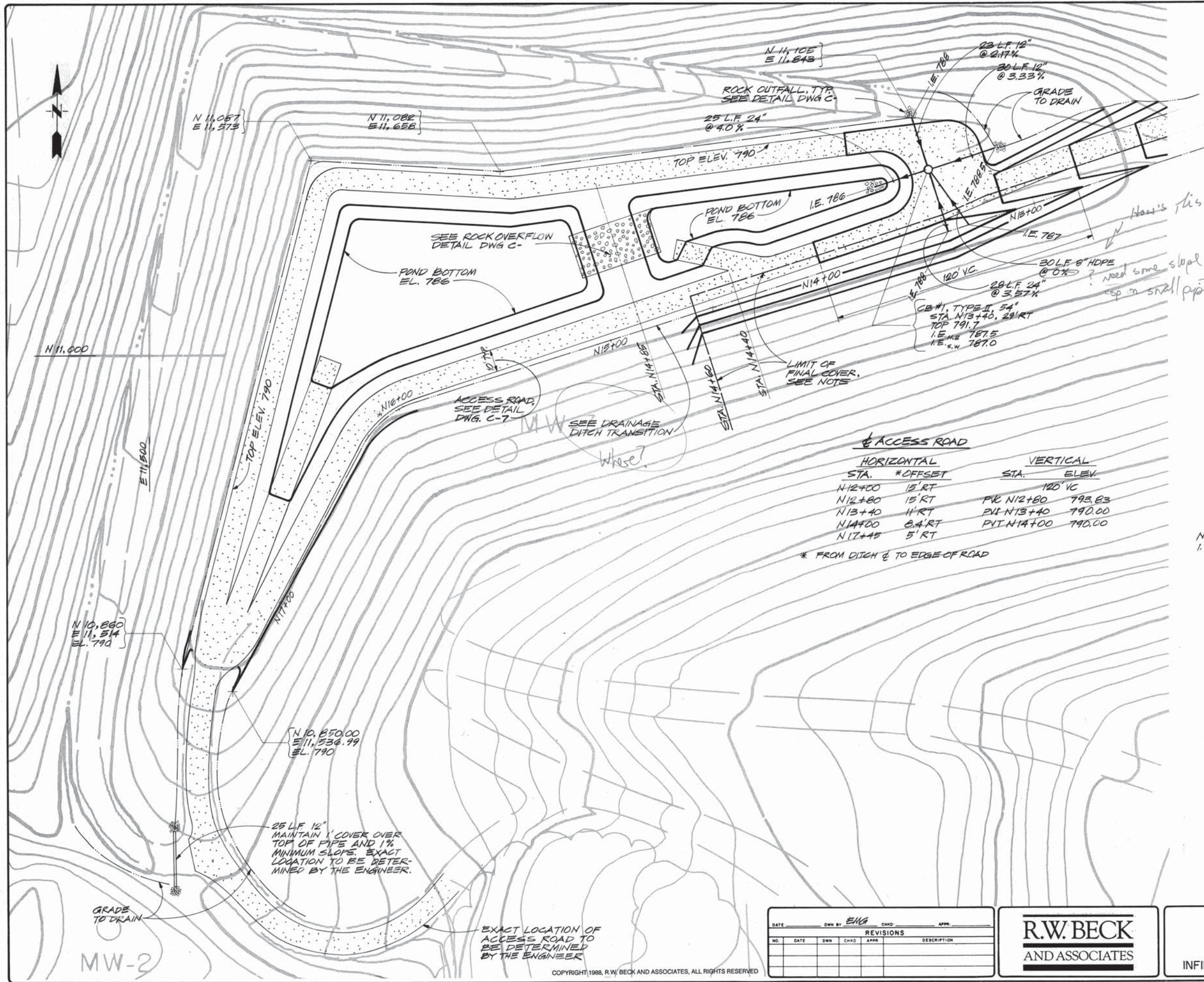
Min Slope on Corrug Pipe

DATE _____ OWN BY <u>STP</u> CHKD _____ APPR _____					
REVISIONS					
NO	DATE	OWN	CHKD	APPR	DESCRIPTION

R.W. BECK
AND ASSOCIATES

KING COUNTY, WASHINGTON
ENUMCLAW LANDFILL
CLOSURE PROJECT
PHASE I
LANDFILL GRADING AND DRAINAGE PLAN

DRAWING NO.
838
C-2
PROJECT NO.



CURVE DATA

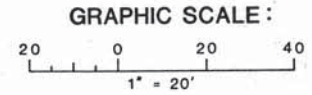
PC STA.	N15+91.76
PT STA.	N16+22.51
Δ	44°02'34"
R	40'
L	30.75'
T	16.18'

ACCESS ROAD

HORIZONTAL		VERTICAL	
STA.	*OFFSET	STA.	ELEV.
N12+00	15' RT		
N12+80	15' RT	PVI N12+80	793.83
N13+40	11' RT	PVI N13+40	790.00
N14+00	8.4' RT	PVI N14+00	790.00
N17+45	5' RT		

* FROM DITCH & TO EDGE OF ROAD

NOTE:
 1. PROPOSED CONTOURS THIS DWG. REPRESENT FINAL GRADES. IN AREAS WHERE COVER SYSTEM IS TO BE CONSTRUCTED CONTOURS SHOW TOP OF FINAL COVER, SEE DWG. C-2 FOR SUBGRADE PLAN.



MW-2

EXACT LOCATION OF ACCESS ROAD TO BE DETERMINED BY THE ENGINEER

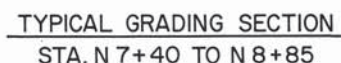
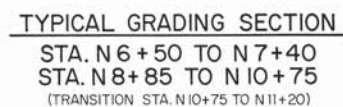
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DATE		DWN BY		CHKD		APPD	
REVISIONS							
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R.W. BECK
 AND ASSOCIATES

KING COUNTY, WASHINGTON
 ENUMCLAW LANDFILL
 CLOSURE PROJECT
 PHASE I
 INFILTRATION BASIN GRADING PLAN

DRAWING NO.
838
C-4
 PROJECT NO.



EXCAVATED MATERIAL THIS
AREA TO BE USED AS SELECT
NATIVE MATERIAL, BEDDING
AND COVER SOIL.



EXCAVATED MATERIAL THIS
AREA TO BE USED AS SELECT
NATIVE MATERIAL, BEDDING
AND COVER SOIL.

[illegible]

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KING COUNTY, WASHINGTON
ENUMCLAW LANDFILL
CLOSURE PROJECT
PHASE I

TYPICAL GRADING SECTIONS

DRAWING NO.
838
C-5
PROJECT NO.



KING COUNTY
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION

ENUMCLAW LANDFILL CLOSURE PROJECT
PHASE II

CONTRACT NO. C10388C

KING COUNTY OFFICIALS

KING CO. EXECUTIVE: Tim Hill

COUNCIL MEMBERS: Audrey Gruger
Cynthia Sullivan
Brian Derdowski
Larry Phillips
Ron Sims
Bruce Laing
Paul Barden
Greg Nickels
Kent Pullen

DIRECTOR OF PUBLIC WORKS: Paul Tanaka

SOLID WASTE DIVISION MANAGER: Rodney Hansen

ENGINEERING SERVICES SECTION MANAGER: Kevin Kiernan

KING CO. PROJECT MANAGER: Jeff Bunnell

DON SHIMONO ASSOCIATES
LANDSCAPE ARCHITECTS ENVIRONMENTAL PLANNERS RECREATION PLANNERS
375 118TH AVENUE SE SUITE 100 BELLEVUE, WASH. 98005 (206) 454-1500

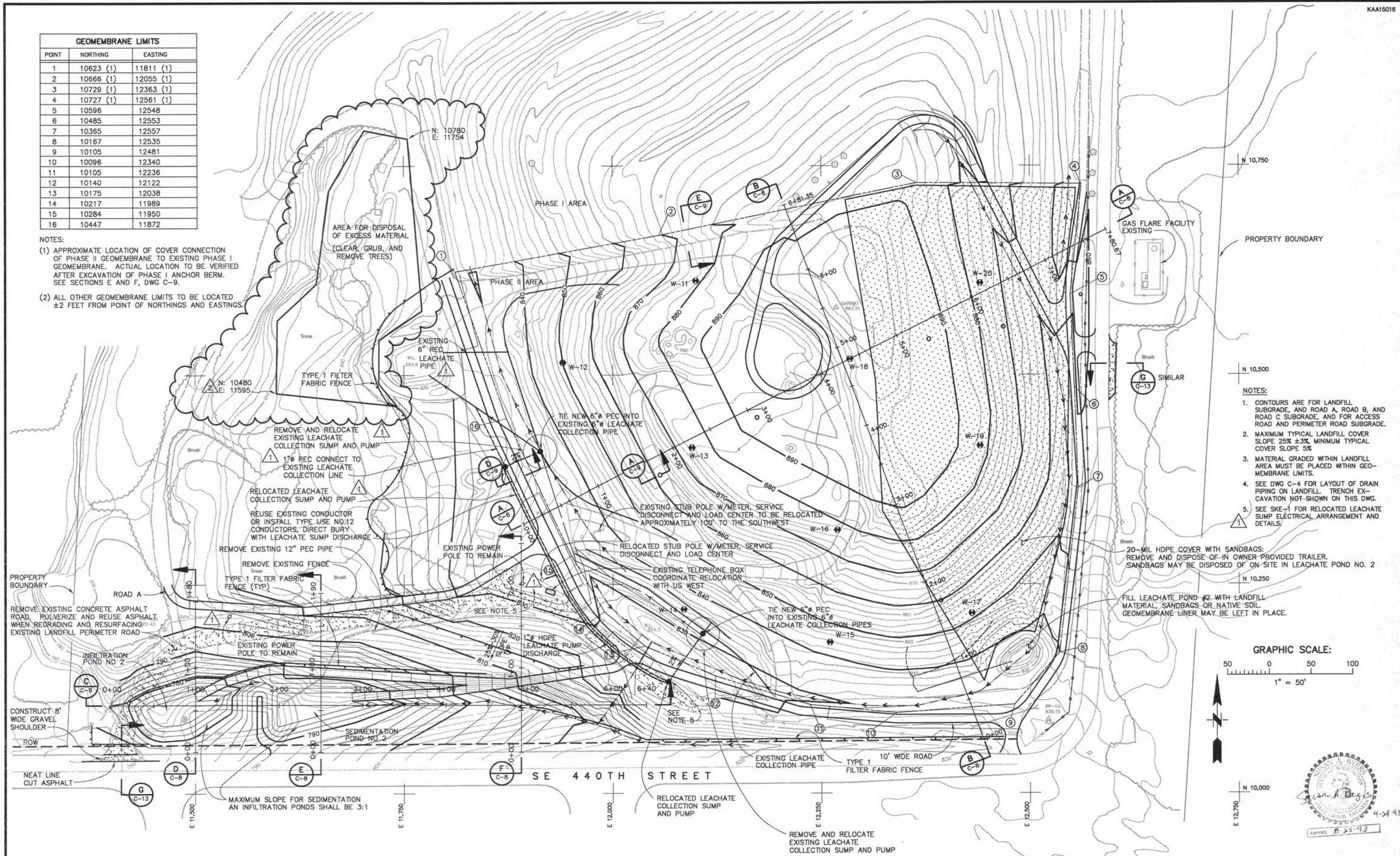
Emcon
Northwest, Inc.

R.W. BECK
AND ASSOCIATES

GEOMEMBRANE LIMITS		
POINT	NORTHING	EASTING
1	10623 (1)	11811 (1)
2	10666 (1)	12055 (1)
3	10729 (1)	12363 (1)
4	10727 (1)	12561 (1)
5	10596	12548
6	10485	12553
7	10365	12557
8	10167	12535
9	10105	12481
10	10096	12340
11	10105	12236
12	10140	12122
13	10175	12038
14	10217	11989
15	10284	11950
16	10447	11872

NOTES:

- (1) APPROXIMATE LOCATION OF COVER CONNECTION OF PHASE II GEOMEMBRANE TO EXISTING PHASE I GEOMEMBRANE. ACTUAL LOCATION TO BE VERIFIED AFTER EXCAVATION OF PHASE I ANCHOR BERM. SEE SECTIONS E AND F, DWG C-9.
- (2) ALL OTHER GEOMEMBRANE LIMITS TO BE LOCATED ± 2 FEET FROM POINT OF NORTHINGS AND EASTINGS.



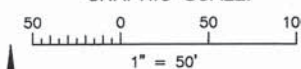
NOTES:

- CONTOURS ARE FOR LANDFILL SUBGRADE, AND ROAD A, ROAD B, AND ROAD C SUBGRADE, AND FOR ACCESS ROAD AND PERIMETER ROAD SUBGRADE.
- MAXIMUM TYPICAL LANDFILL COVER SLOPE 25% $\pm 3\%$, MINIMUM TYPICAL COVER SLOPE 5%.
- MATERIAL GRADED WITHIN LANDFILL AREA MUST BE PLACED WITHIN GEOMEMBRANE LIMITS.
- SEE DWG C-4 FOR LAYOUT OF DRAIN PIPING ON LANDFILL. TRENCH EXCAVATION NOT SHOWN ON THIS DWG.
- SEE SKE-1 FOR RELOCATED LEACHATE SUMP ELECTRICAL ARRANGEMENT AND DETAILS.

20-MIL HDPE COVER WITH SANDBAGS: REMOVE AND DISPOSE OF IN OWNER-PROVIDED TRAILER. SANDBAGS MAY BE DISPOSED OF ON-SITE IN LEACHATE POND NO. 2.

FILL LEACHATE POND #2 WITH LANDFILL MATERIAL, SANDBAGS OR NATIVE SOIL. GEOMEMBRANE LINER MAY BE LEFT IN PLACE.

GRAPHIC SCALE:



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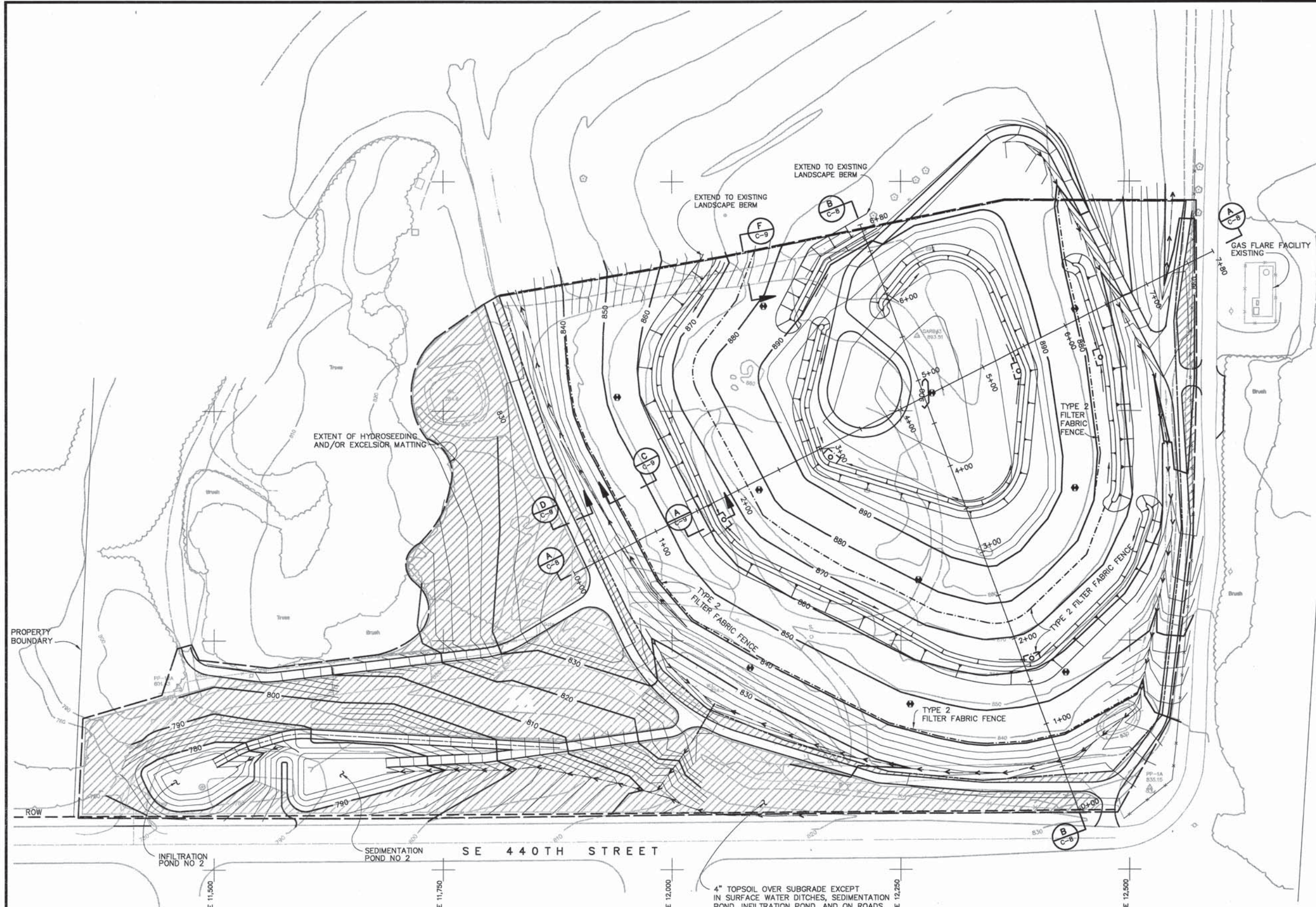
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N 10,750

N 10,500

NOTES:

1. CONTOURS ARE FOR FINAL COVER TOPSOIL GRADE, NOT INCLUDING LANDSCAPE BERMS. SEE SECTION A SHEET C-9 FOR LANDSCAPE BERM PROFILE.
2. DRAINAGE SLOPE FOR LANDSCAPE BERMS 1% ± 1/2%
3. SEE DWG C-2 FOR LIMITS OF GEOMEMBRANE.

PROPERTY BOUNDARY

N 10,250

GRAPHIC SCALE:

50 0 50 100

1" = 50'

N 10,000

E 12,750

E 12,500

E 12,250

E 12,000

E 11,750

E 11,500

4" TOPSOIL OVER SUBGRADE EXCEPT IN SURFACE WATER DITCHES, SEDIMENTATION POND, INFILTRATION POND, AND ON ROADS

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SCHEDULE FOR SURFACE WATER DITCHES

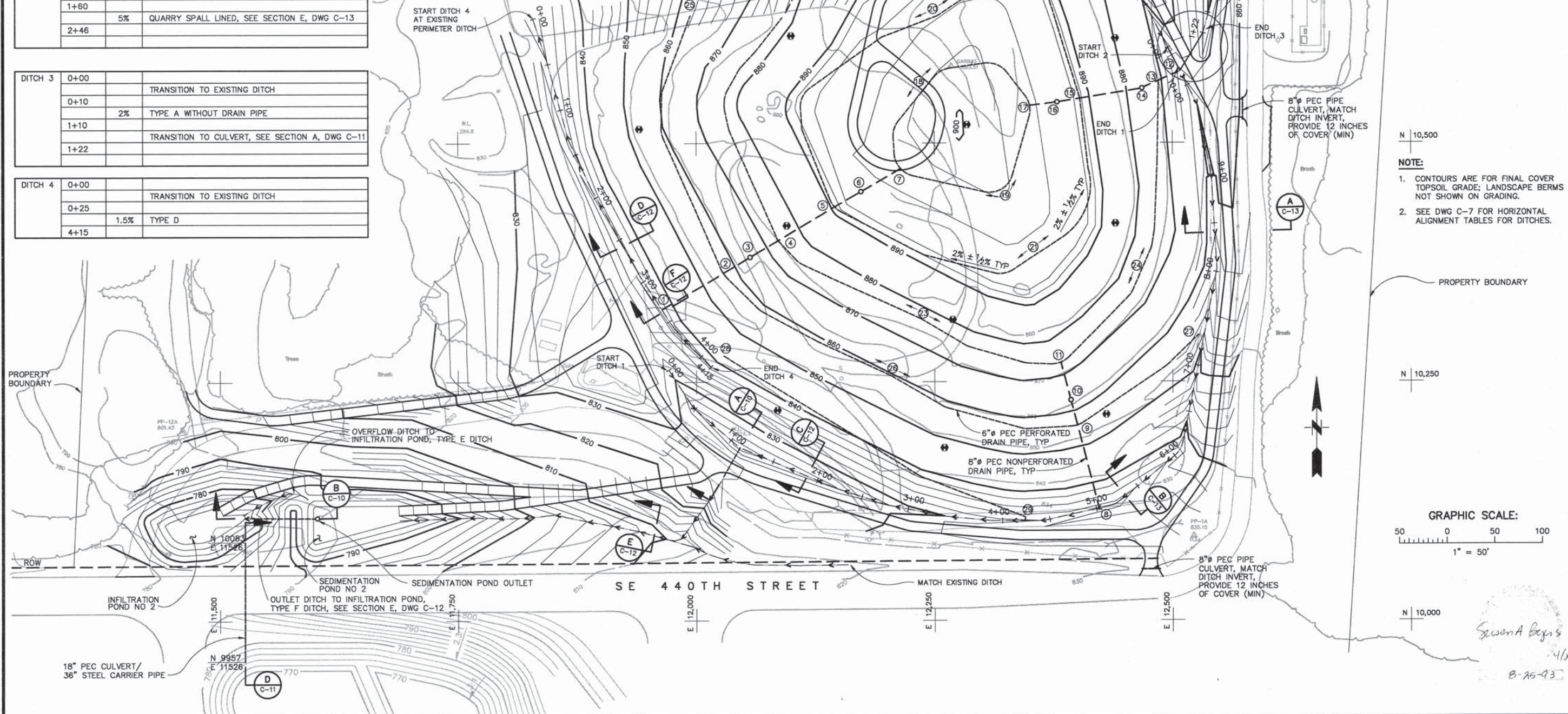
DITCH	STATION	MIN SLOPE	DITCH TYPE
DITCH 1	0+00		
	1+00	2%	TYPE A
			TRANSITION
	1+25		
	4+00	2%	TYPE C
			TRANSITION
	6+25	2%	TYPE B
			TRANSITION
	10+10	2%	TYPE A WITH DRAIN PIPE
	10+22	2%	TRANSITION, SEE DETAIL 1, DWG C-11
DITCH 2	0+00		
	0+10		TRANSITION TO CULVERT, SEE DETAIL 1, DWG C-11
	1+40	9%	TYPE A WITH DRAIN PIPE
			TRANSITION
	1+60		
	2+46	5%	QUARRY SPALL LINED, SEE SECTION E, DWG C-13
DITCH 3	0+00		
	0+10		TRANSITION TO EXISTING DITCH
	1+10	2%	TYPE A WITHOUT DRAIN PIPE
	1+22		TRANSITION TO CULVERT, SEE SECTION A, DWG C-11
DITCH 4	0+00		
	0+25		TRANSITION TO EXISTING DITCH
	4+15	1.5%	TYPE D

SCHEDULE FOR DRAIN PIPING (1)

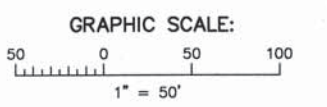
POINT #	NORTHING	EASTING	DESCRIPTION
1	10326	11964	OUTLET (2)
2	10364	12028	LATERAL TEE (3)
3	10380	12056	BERM OVERFLOW (3)
4	10397	12085	LATERAL TEE (3)
5	10432	12145	LATERAL TEE (3)
6	10448	12173	BERM OVERFLOW (3)
7	10472	12214	LATERAL TEE (3)
8	10118	12421	OUTLET (2)
9	10203	12399	LATERAL TEE (3)
10	10230	12392	OUTLET (2)
11	10269	12382	LATERAL TEE (3)
12	10598	12496	OUTLET TO MANHOLE (4)
13	10585	12485	LATERAL TEE (3)
14	10557	12467	BERM OVERFLOW (3)
15	10547	12403	LATERAL TEE (3)

POINT #	NORTHING	EASTING	DESCRIPTION
16	10542	12378	BERM OVERFLOW (3)
17	10539	12350	LATERAL TEE (3)
18	10560	12242	HIGH POINT
19	10451	12320	HIGH POINT
20	10633	12253	HIGH POINT
21	10384	12359	HIGH POINT
22	10608	12169	END CAP
23	10316	12234	HIGH POINT
24	10366	12467	HIGH POINT
25	10673	12109	END CAP
26	10257	12202	HIGH POINT
27	10299	12526	OUTLET (2)
28	10277	12028	END CAP
29	10277	12028	OUTLET (2)

DRAIN PIPING NOTES:
 (1) ALL PIPING 6" PEC PERFORATED DRAIN PIPE TO SLOPE 2% ± 1/2%, NORTHING; EASTING COORDINATES FOR HIGH POINTS AND END CAPS MAY BE CHANGED TO OBTAIN PROPER PIPE SLOPE.
 (2) SEE SECTION F, DWG C-12
 (3) SEE SECTION A, DWG C-9



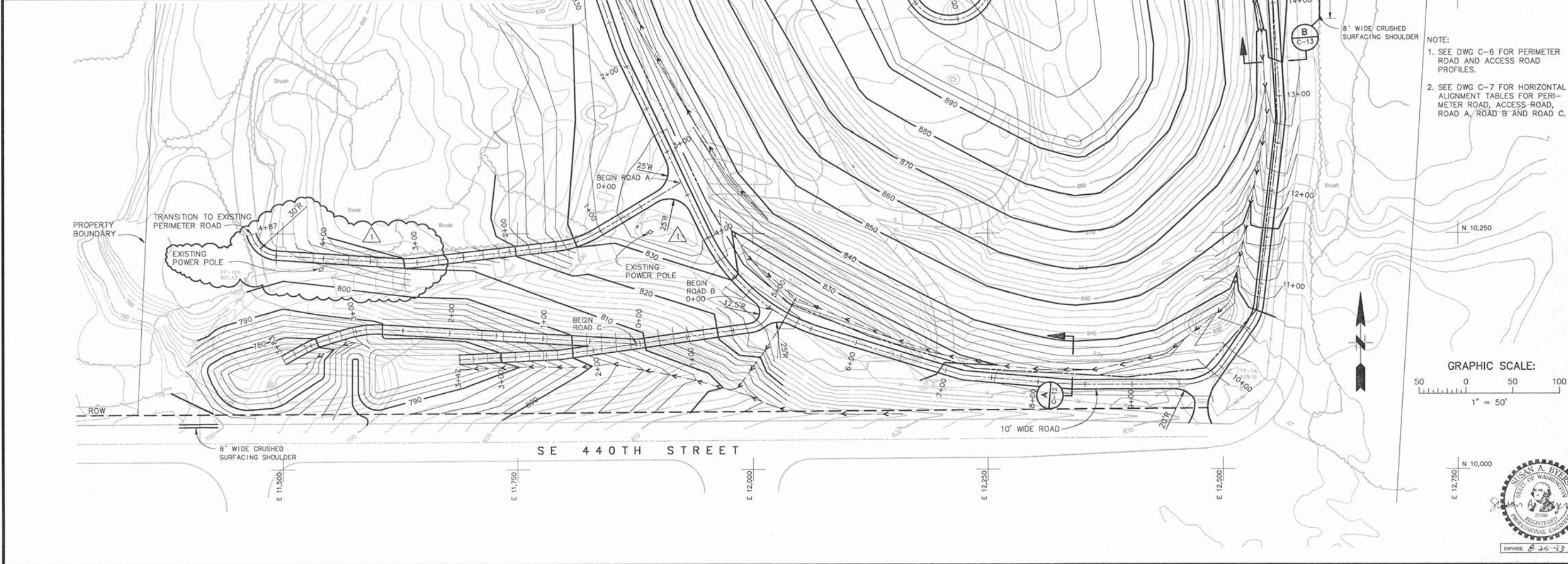
NOTE:
 1. CONTOURS ARE FOR FINAL COVER TOPSOIL GRADE; LANDSCAPE BERMS NOT SHOWN ON GRADING.
 2. SEE DWG C-7 FOR HORIZONTAL ALIGNMENT TABLES FOR DITCHES.



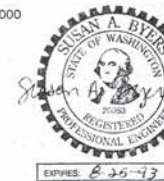
1 4-26-93 MLJ KRH SAB ISSUED FOR CONSTRUCTION 0 2-04-93 MLJ KRH SAB ISSUED FOR BIDS				DESIGN MLJ DRAWN CAD CHECKED KRH APPROVED SAB				KING COUNTY DEPARTMENT OF PUBLIC WORKS Paul Tanaka, Director SOLID WASTE DIVISION ENUMCLAW LANDFILL CLOSURE PROJECT PHASE II				SURFACE WATER DRAINAGE PLAN SCALE 1" = 50' DRAWING NUMBER C-4 REV 1			
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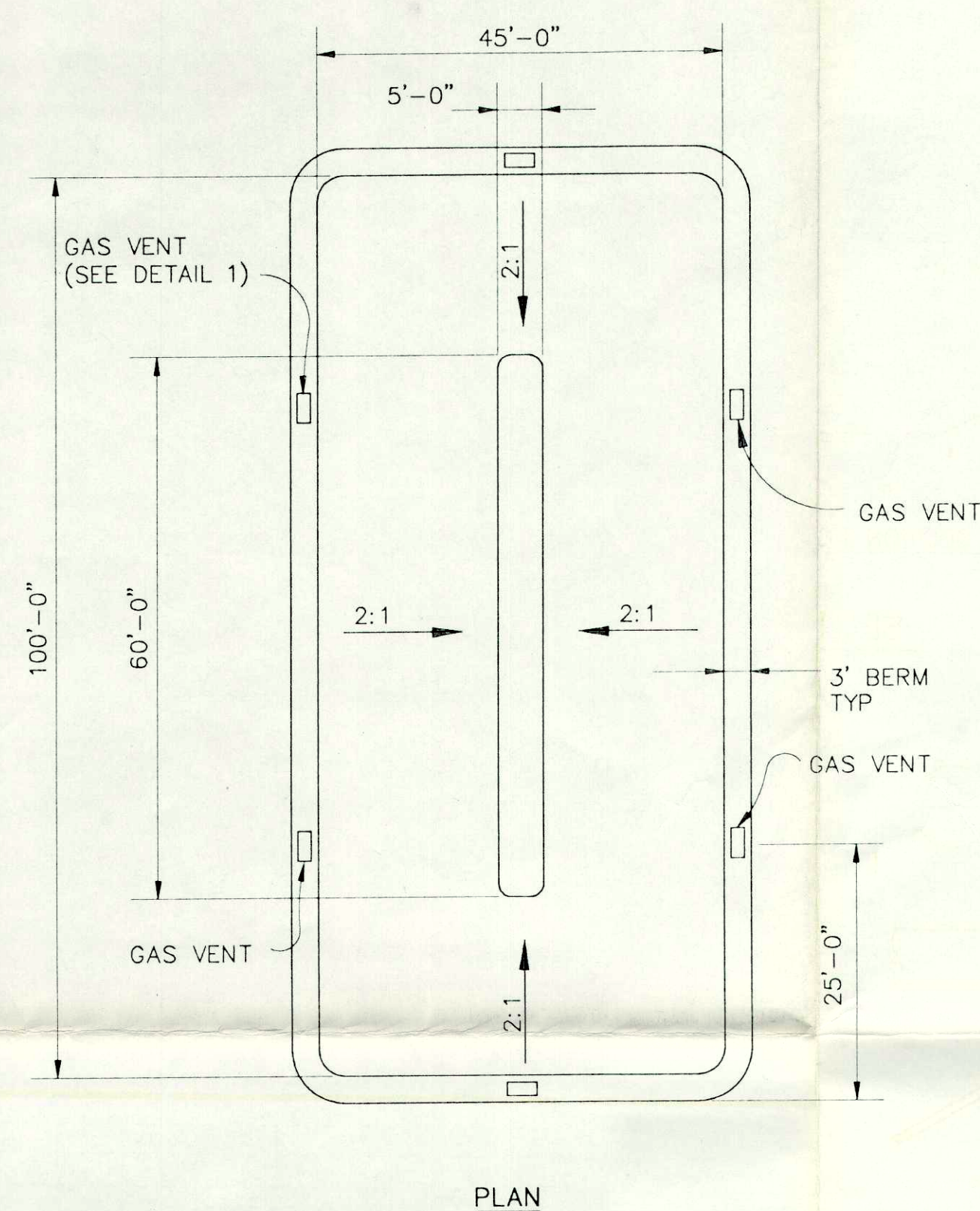
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ROAD	STATION	ROAD SECTION	NOTES
PERIMETER	0+00	STANDARD ROAD SECTION, SEE SECTION A, DWG C-13	TRANSITION TO EXISTING ROAD
	3+35		BEGIN ROAD A
	4+25		START 2' CURVE WIDENING
	5+10		BEGIN ROAD B
	5+50		END 2' CURVE WIDENING
	7+00		START 2' CURVE WIDENING
	7+50		END 2' CURVE WIDENING
	9+50		START WIDENING ROAD FOR ENTRY GATE
	10+00		END WIDENING ROAD FOR ENTRY GATE
	10+50	APPROXIMATE START OF TRANSITION TO ROAD SECTION WITH ANCHOR TRENCH, SEE SECTION B, DWG C-13	
	11+00		START 2' CURVE WIDENING
	12+50		END 2' CURVE WIDENING
ACCESS	13+00		START 2' CURVE WIDENING
	14+20		START ROAD WIDENING FOR ENTRY GATE AND ACCESS ROAD
	15+25		END ROAD WIDENING FOR ENTRY GATE AND ACCESS ROAD
	16+43		TRANSITION TO EXISTING ROAD
	0+00	ROAD SECTION WITH ANCHOR TRENCH, SEE SECTION B, DWG C-13	BEGIN ACCESS ROAD
	0+10	ACCESS ROAD WITH DITCH, SEE SECTION C, DWG C-13	
	2+30	APPROXIMATE START OF SECTION TRANSITION TO ACCESS ROAD WITH DITCH OVER PHASE I, SEE SECTION E, DWG C-13	
	2+40	APPROXIMATE END OF SECTION TRANSITION	
	2+85		START 2' CURVE WIDENING
	3+80		END 2' CURVE WIDENING
	5+00	APPROXIMATE START OF SECTION TRANSITION TO ACCESS ROAD OVER PHASE I, SEE SECTION F, DWG C-13	
	5+20	APPROXIMATE START OF SECTION TRANSITION TO ACCESS ROAD OVER PHASE II, SEE SECTION C, DWG C-13	
ROAD A	0+00	STANDARD ROAD SECTION, SEE SECTION A, DWG C-13,	BEGIN ROAD
	1+00		15% MAXIMUM SLOPE TO STA 2+50
	1+50		START 2' CURVE WIDENING
	2+75		END 2' CURVE WIDENING
	4+87	TRANSITION TO EXISTING ROAD	END 2' CURVE WIDENING
ROAD B	0+00	STANDARD ROAD SECTION, SEE SECTION A, DWG C-13,	BEGIN ROAD
	3+42		14% MAXIMUM SLOPE TO STA 3+42
ROAD C	0+00	STANDARD ROAD SECTION, SEE SECTION A, DWG C-13,	END AT BASE OF SEDIMENTATION POND
	3+83		BEGIN AT ROAD B 5TH STA 1+54

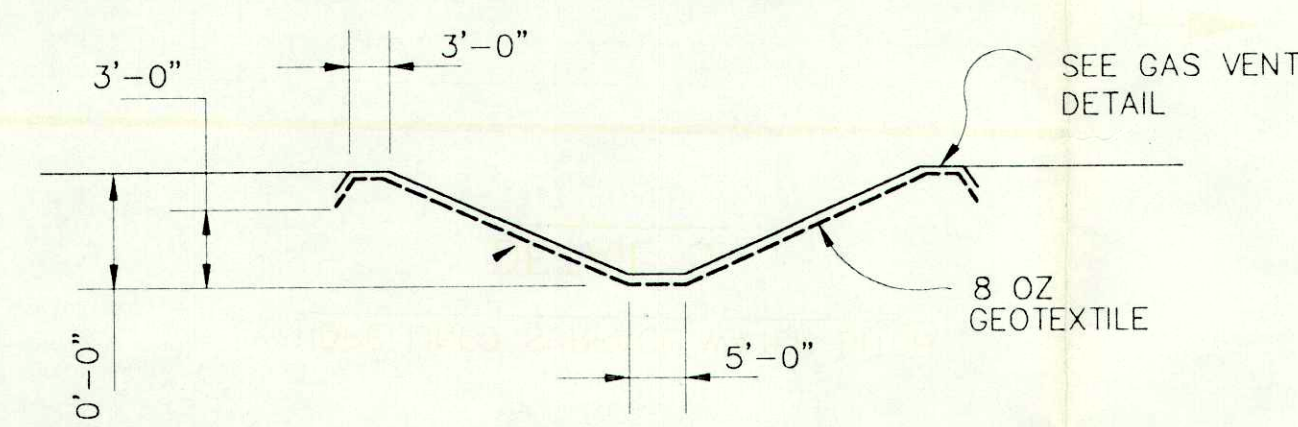


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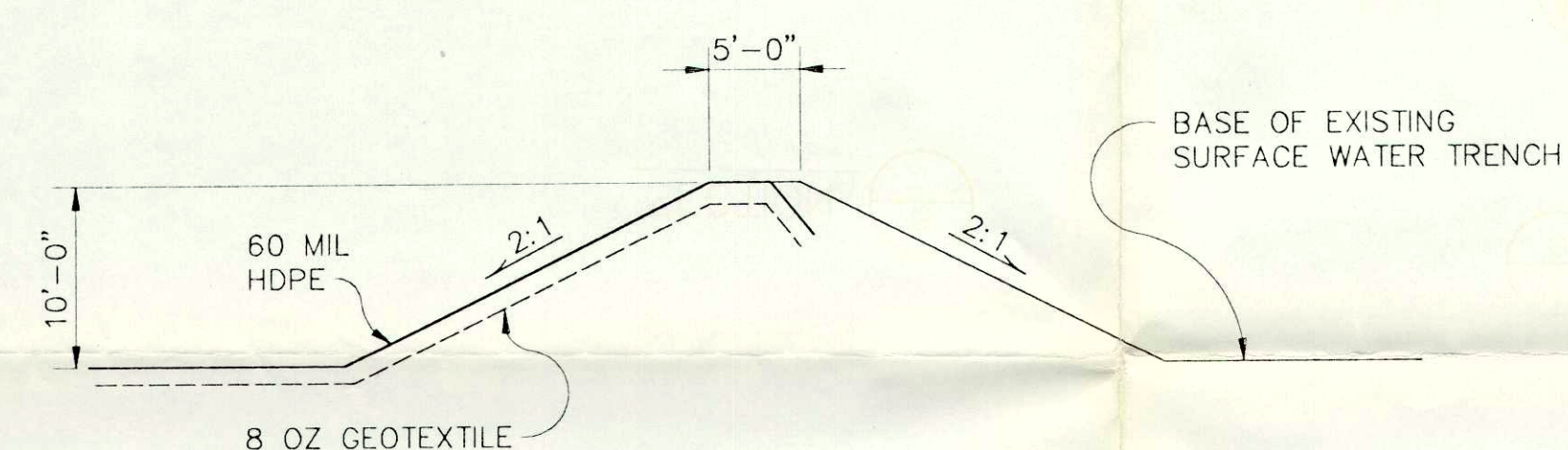


SEE NOTE 1.

PROFILE

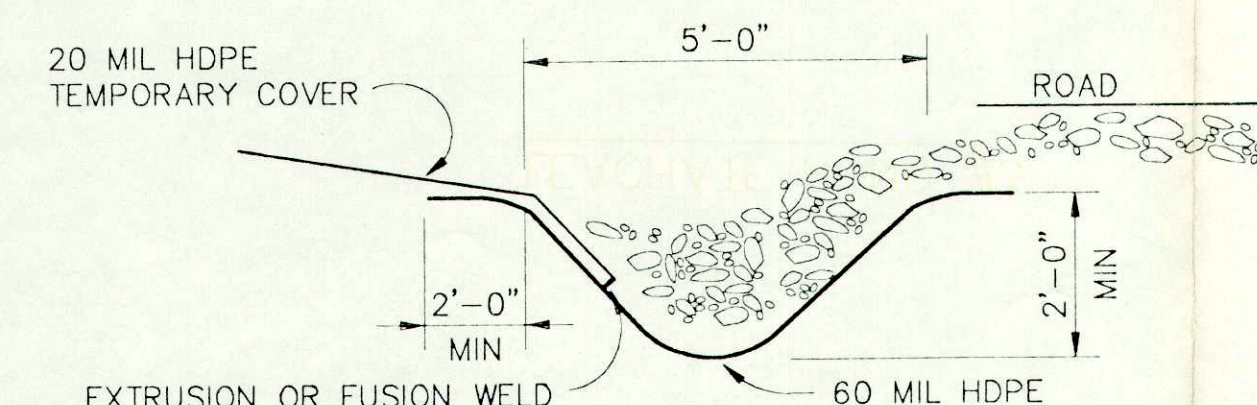
LEACHATE POND #3

NO SCALE



SECTION 
NO. SCALE

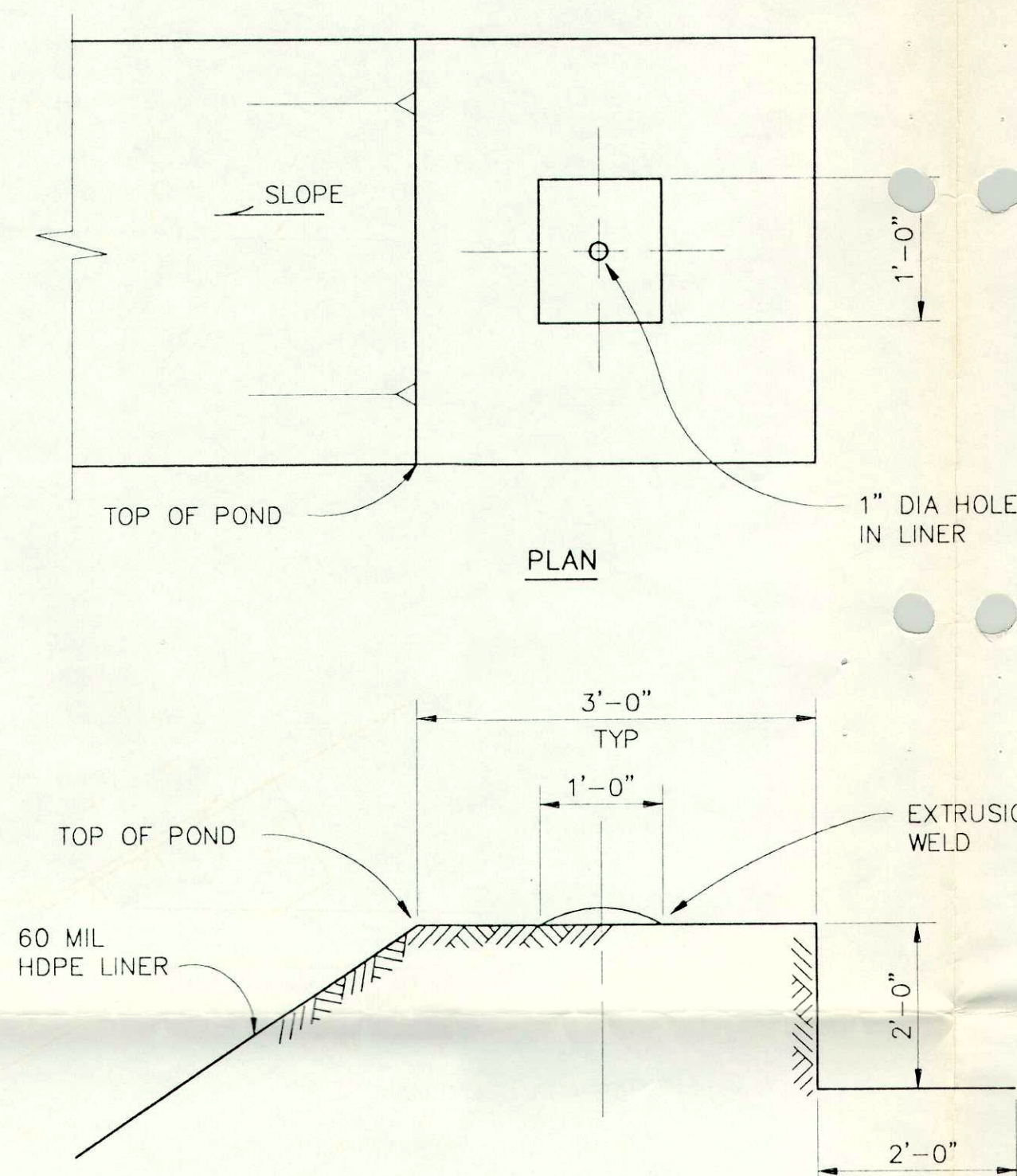
NO SCALE



HDPE LINED SURFACE WATER DITCH

DETAIL 5
NO SCALE

NO SCALE



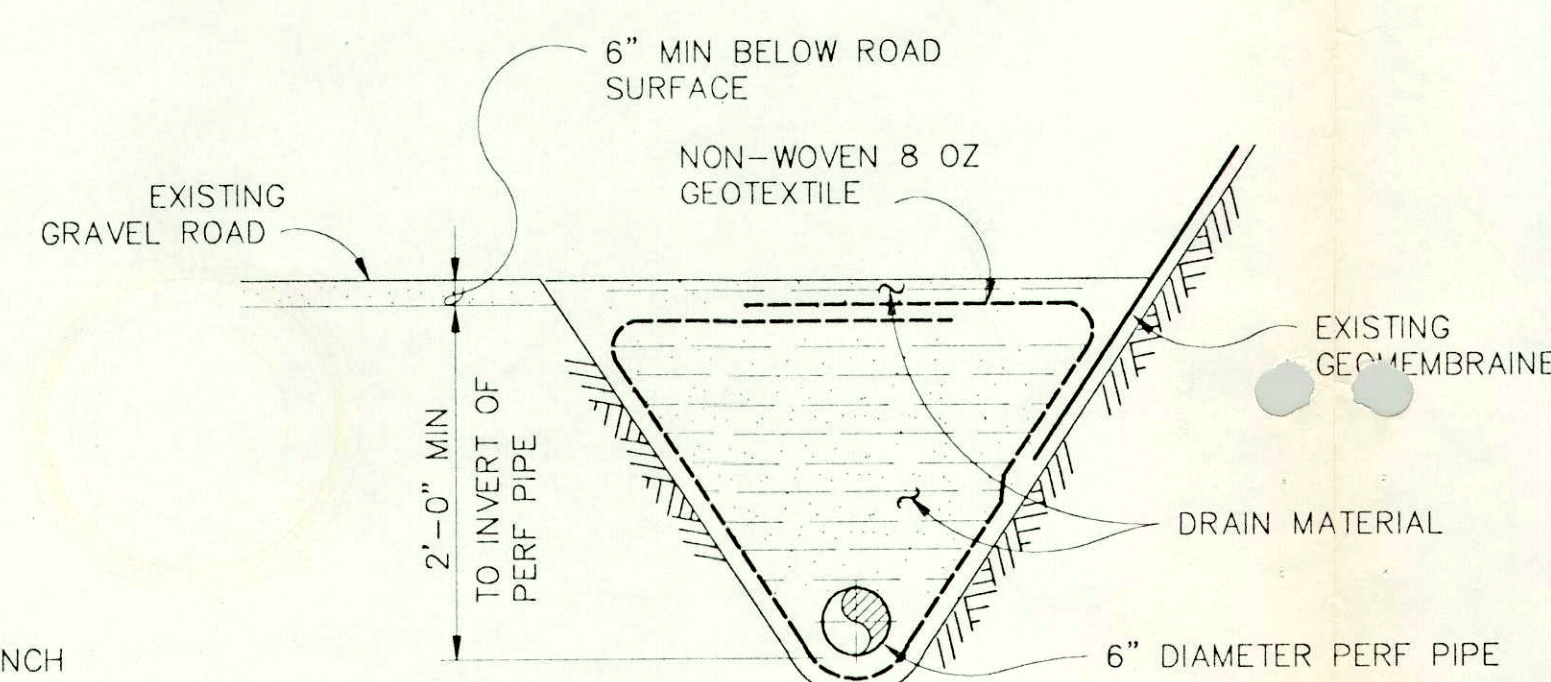
PLAN

1" DIA HOLE
IN LINER

LEACHATE POND - GAS VENT DETAIL

DETAIL 1

NO SCALE

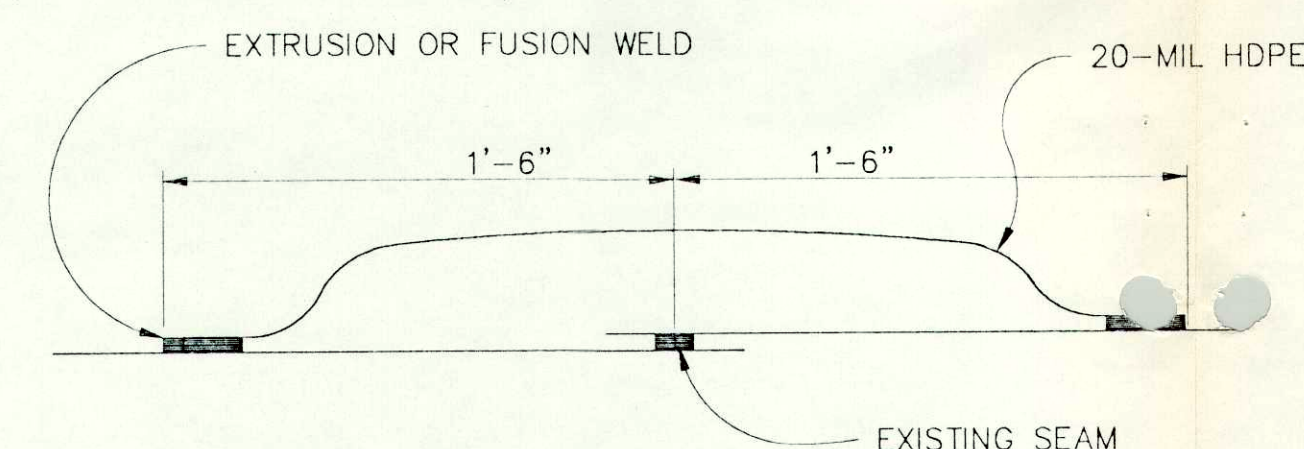


SEE NOTE 2

TYPICAL LEACHATE COLLECTION TRENCH

DETAIL 3

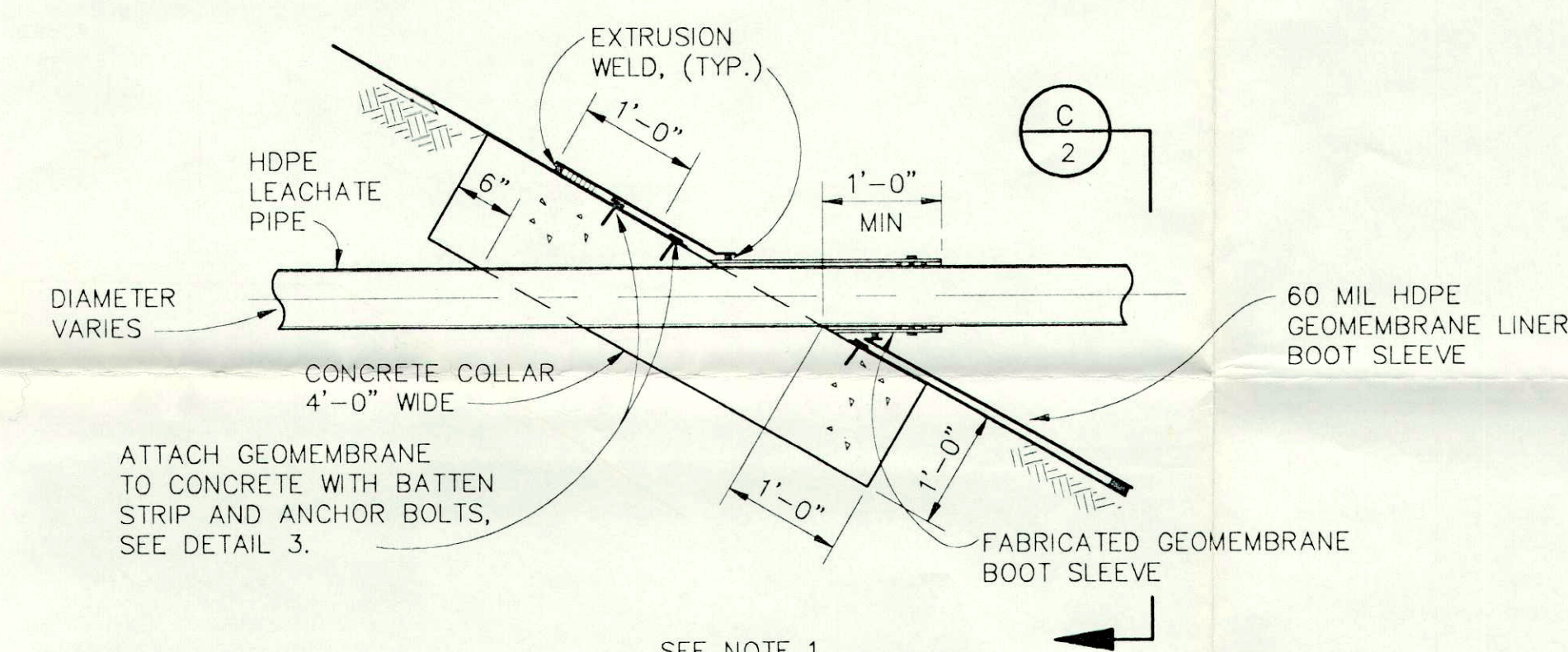
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SEAM REPAIR - CAP STRIP

DETAIL 6

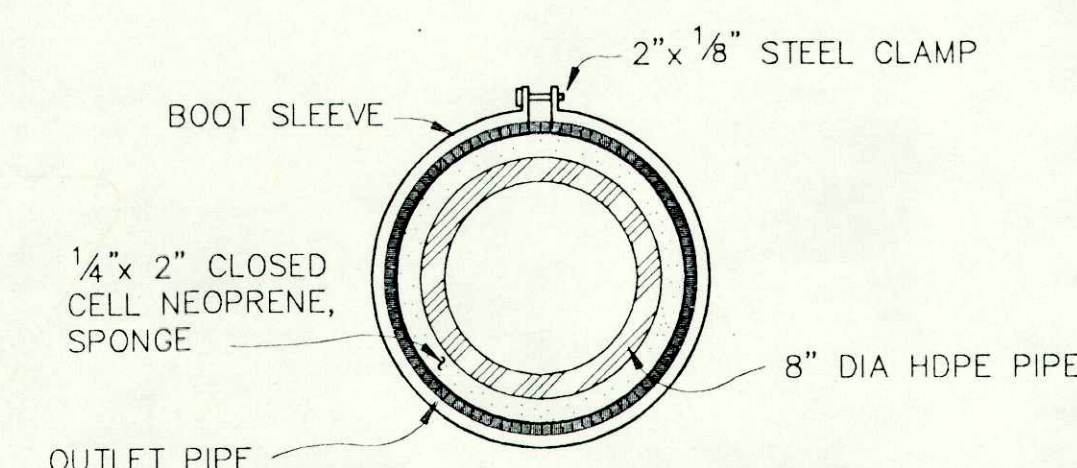
NO SCALE



TYPICAL LINER PENETRATION

DETAIL 2

NO SCALE

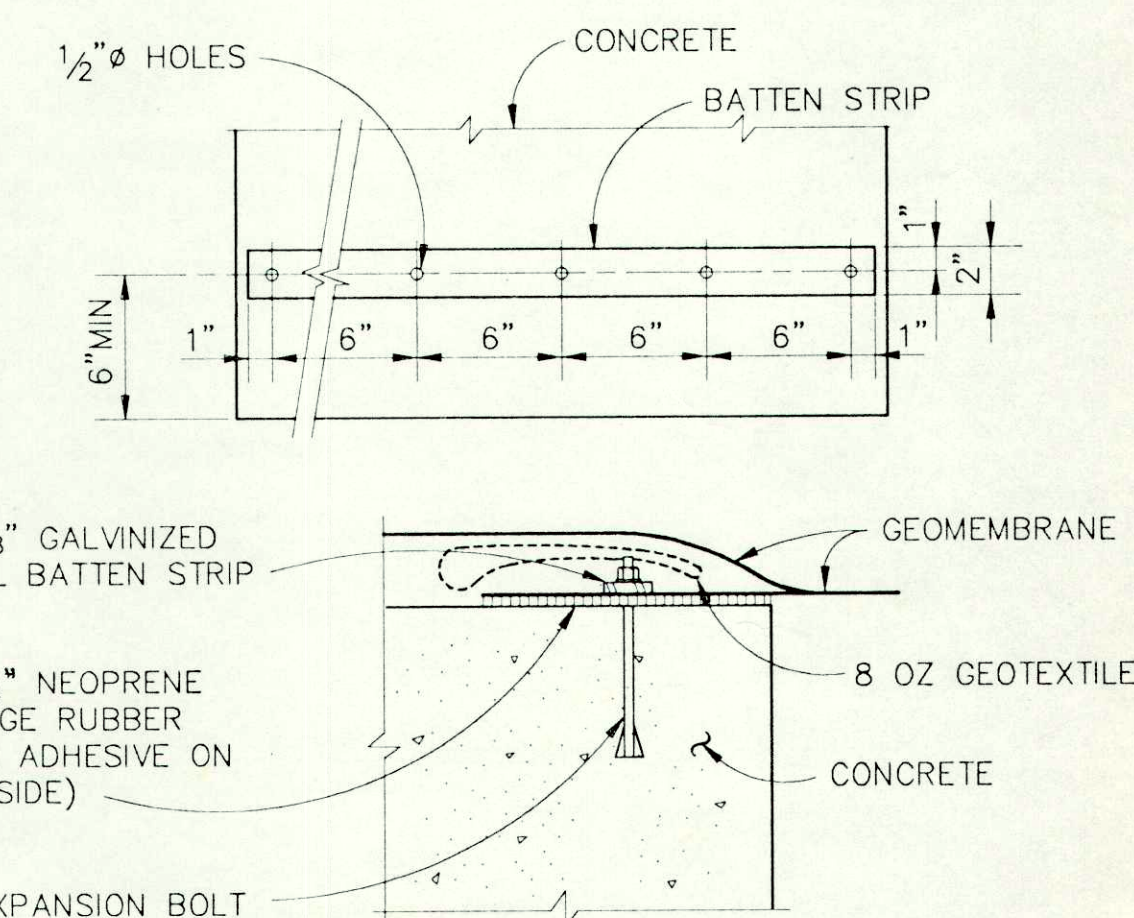


SECTION C

NO SCALE

2

NO SCALE



BATTEN STRIP AND ANCHOR BOLT

DETAIL 4

NO SCALE

[illegible]