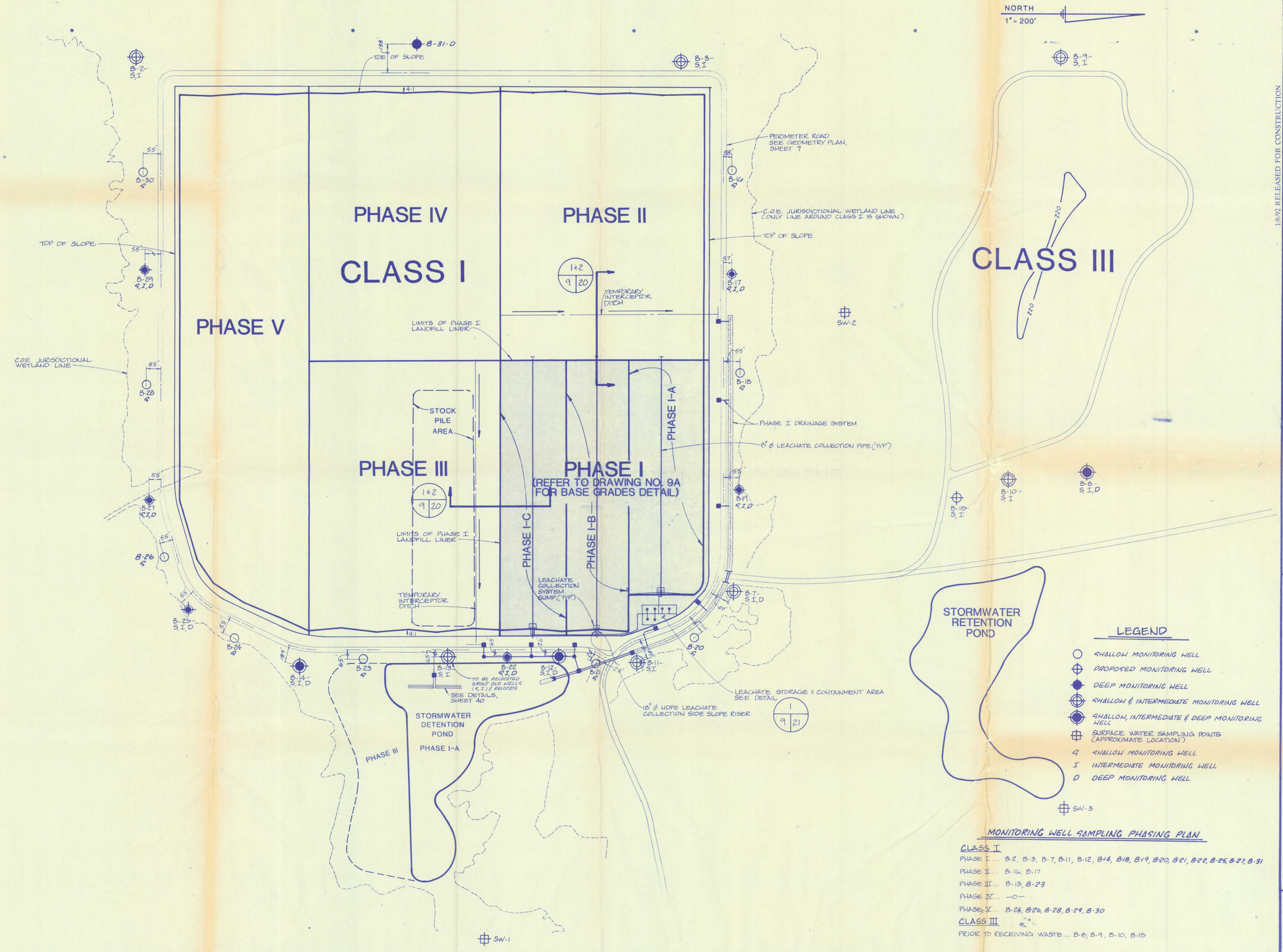


1/6/92 RELEASED FOR CONSTRUCTION

REVISIONS
1-15-91 CONTRACT DOCUMENTS
12-9-91 BID SET
12-19-91 REVISED TO SHOW PHASE I-A, I-B, & I-C
12-19-91 PROVIDED PHASING OF STORMWATER MANAGEMENT SYSTEM
1-14-92 REV. MONITORING WELL LOCATIONS & PHASING, PER DER PERMIT COND. No. 38

E89-113-9
DRAWN BY: T.L.D.
CHECKED BY: S.A.W.
DATE: JULY 23, 1990

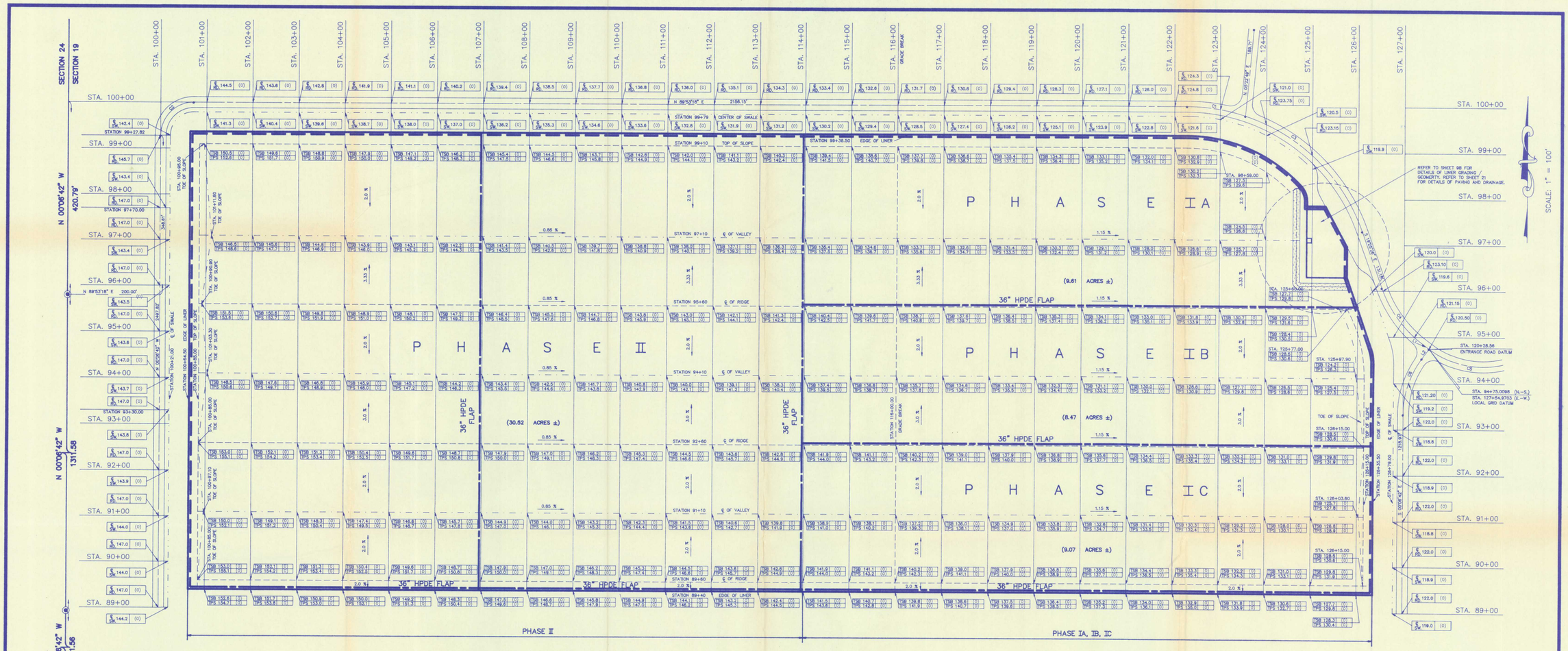
BOTTOM LINER PHASING PLAN

TRAIL RIDGE LANDFILL (PLAN A)

England-Thims & Miller, Inc.
Consulting & Design Engineers
JACKSONVILLE FLORIDA

DRAWING NO.
9

PROJ. NO. E89-113



CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	403.05'	128.39'	64.74'	127.85'	N 80°59'10" W	18°15'03"
C2	72.18'	113.38'	72.18'	102.07'	S 44°53'18" W	89°59'58"
C3	403.05'	368.87'	198.49'	356.13'	N 45°38'32" W	52°26'13"
C4	257.75'	154.88'	79.86'	152.56'	S 36°38'17" E	34°25'42"
C5	195.83'	169.19'	90.28'	163.97'	S 78°38'03" E	49°30'00"
C6	204.35'	129.32'	66.91'	127.17'	S 18°01'05" W	36°15'35"

LINE DATA

LINE	BEARING	DISTANCE
L1	N 53°51'07" W	15.00'
L2	S 36°08'53" W	26.42'

LOCAL GRID DATUM

NORTHERLY LINE OF GRID: N. 89° 53' 18" E.
WESTERLY LINE OF GRID: N. 00° 06' 42" W.
REFERENCE STATIONS: 100+00.00 (N.–S)
100+00.00 (E.–W.) AT THE POINT OF INTERSECTIONS (P.I.) FOR CURVE NUMBER 2

LEGEND

- PHASE LINE
- 36" HPDE FLAP
- LINER
- ℄ OF VALLEY
- ℄ OF RIDGE
- ℄ OF DITCH
- FLOW ARROWS

TOP OF SUBBASE ELEV. — (DESIGN) ("AS-BUILT")
TSB 149.2
TOP OF PROTECTIVE SOIL ELEV. — TPS 151.3

LINER OPERATIONAL PHASING

PHASE IA (9.61 AC±) – 210 DAYS

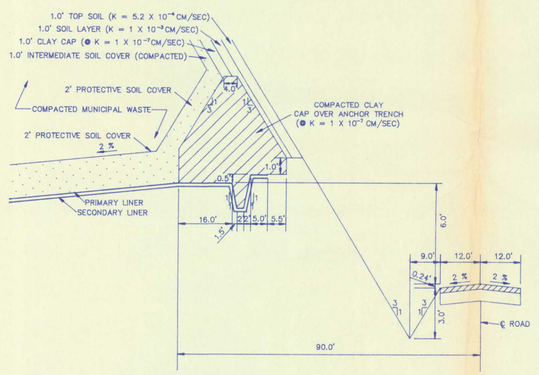
PHASE IB (8.47 AC±) – 270 DAYS

PHASE IC AND II (39.62 AC±) – 395 DAYS

NOTES:

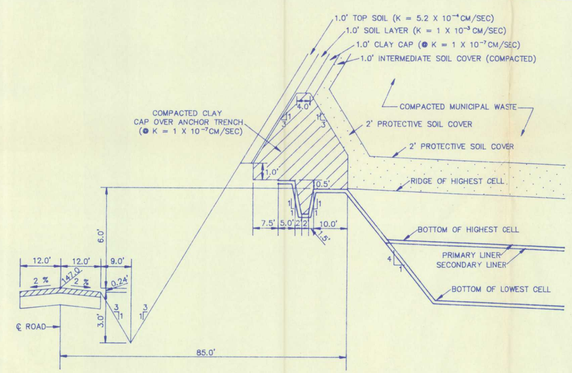
1. SEE DRAWING NUMBERS 8, AND 9 FOR PHASE III, PHASE IV, AND PHASE V.
2. REFER TO DRAWING NUMBER 17 FOR DETAILS OF LEACHATE COLLECTION SUMP.

1/6/92 RELEASED FOR CONSTRUCTION



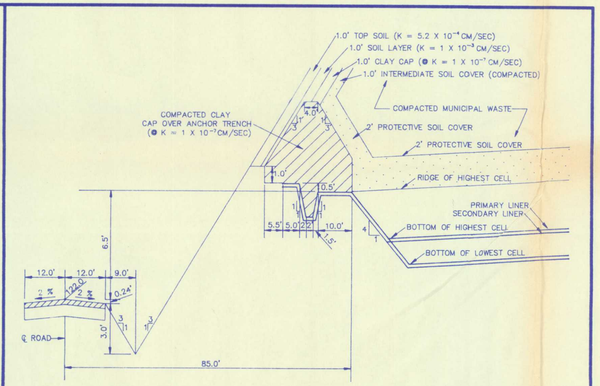
NORTH ANCHOR TRENCH

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



WEST ANCHOR TRENCH

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



EAST ANCHOR TRENCH

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

5 YEAR INCREMENT LINER PHASING PLAN

TRAIL RIDGE LANDFILL
(PLAN 'A')

England-Thims & Miller, Inc.
Consulting & Design Engineers
3131 St. Johns Bluff Road South, Jacksonville, Florida 32216
(904)-642-8990

ENG. PROJ. NO. E. 91-1265-2	REVISIONS:	DRAWING NO.
DRAWN BY: S.J.L.	12-20-91 REVISED TO ADD PHASE I AND II 36" HPDE FLAPS	9A
CHECKED BY: D.C.M.	1-6-92 REVISED EAST – WEST STATIONING	
DATE: 12-19-91		

TSB 126.5
TPS 128.6

TSB 129.5
TPS 131.6

STATION 96+28.00
BEGIN TOE OF SLOPE

TSB 124.5
TPS 126.6

STATION 97+86.00
BEGIN TOE OF SLOPE

STATION 98+59.00
TOP OF SLOPE

TSB 127.5
TPS 129.6

STA. 124+00

STATION 124+17.60
TOE OF SLOPE

TSB 127.0
TPS 129.1

TOE OF SLOPE

TSB 124.3
TPS 126.4

TSB 125.7
TPS 127.8

STATION 124+23.00
TOP OF SLOPE
EDGE OF CLAY LINER

TRANISTION FROM SOUTH
CONTAINMENT AREA ANCHOR
TRENCH TO WEST CONTAINMENT
AREA ANCHOR

TRANSITION FROM WEST
CONTAINMENT AREA ANCHOR
TO NORTH ANCHOR TRENCH

TOP OF CLAY ANCHOR

STATION 95+60
℄ OF RIDGE
EDGE OF CLAY ANCHOR

℄ OF SWALE

LIMITS OF CLAY

℄ OF CONC DITCH

SCALE: 1" = 20'

TSB 125.4
TPS 127.5

TSB 128.4
TPS 130.5

STATION 124+88.00

EXTERIOR OF CONTAINMENT WALL

TSB 126.3
BOC 127.4

STA. 125+00

STATION 96+28.00 EXTERIOR OF CONTAINMENT WALL

TSB 127.6
BOC 129.9

TSB 126.4
BOC 129.9

40.0'

STATION 97+86.00
EXTERIOR OF
CONTAINMENT/
RETAINING WALL

TSB 126.8
BOC 129.9

℄
RD. 123.15

LIMITS OF CLAY

STATION 125+60.00
TOE OF SLOPE

TPS 127.7
TSB 129.8

TSB 128.5
BOC 129.9

TSB 127.4
BOC 129.9

68.0'

CONTAINMENT/ RETAINING WALL

TRANSITION FROM EAST ANCHOR
TRENCH TO SOUTH CONTAINMENT
AREA ANCHOR TRENCH

REFER TO SHEET 21
FOR DETAILS OF PAVEMENT
GRADING IN THIS AREA.

STATION 125+76.00
EXTERIOR OF CONTAINMENT/
RETAINING WALL

STATION 125+97.90
TOE OF SLOPE

TSB 124.2
TPS 126.3

STA. 126+00

TSB 128.5
TPS 130.6

STATION 125+77.00
TOP OF SLOPE

TPS 128.5
TSB 130.6

STATION 126+15.00
TOP OF SLOPE

131.15'

S 19°25'26" E

STATION 126+35.50
EDGE OF LINER

STA. 94+00

STA. 95+00

℄ OF SWALE

STA. 96+00

STA. 97+00

STA. 98+00

STA. 99+00

LEGEND

- LIMITS OF CLAY LINER
- LINER
- ℄ OF VALLEY
- ℄ OF RIDGE
- ℄ OF DITCH
- FLOW ARROWS

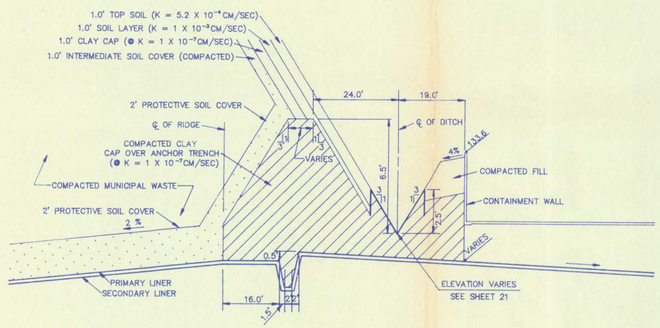
TOP OF SUBBASE ELEV. — (DESIGN) ("AS-BUILT")
TSB 126.0
TPS 128.1

TOP OF PROTECTIVE SOIL ELEV.

TOP OF SUBBASE ELEV. — (DESIGN) ("AS-BUILT")
TSB 127.2
BOC 129.3

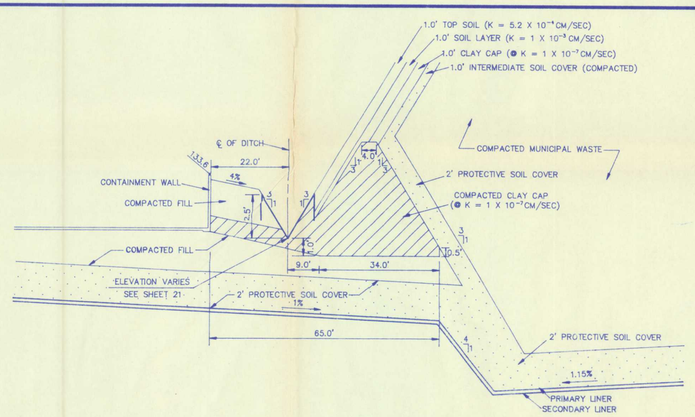
BOTTOM OF 8" CONRETE SLAB ELEV.

NOTES:
1. REFER TO SHEET 17 FOR DETAILS OF LEACHATE COLLECTION SUMP.
2. STATIONING SHOWN HEREON BASED ON LOCAL GRID SHOWN ON DRAWING NUMBER 9A.



SOUTH CONTAINMENT AREA
ANCHOR TRENCH DETAIL

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



WEST CONTAINMENT AREA SECTION

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

1/6/92 RELEASED FOR CONSTRUCTION

CONTAINMENT AREA LINER GRADING DETAILS

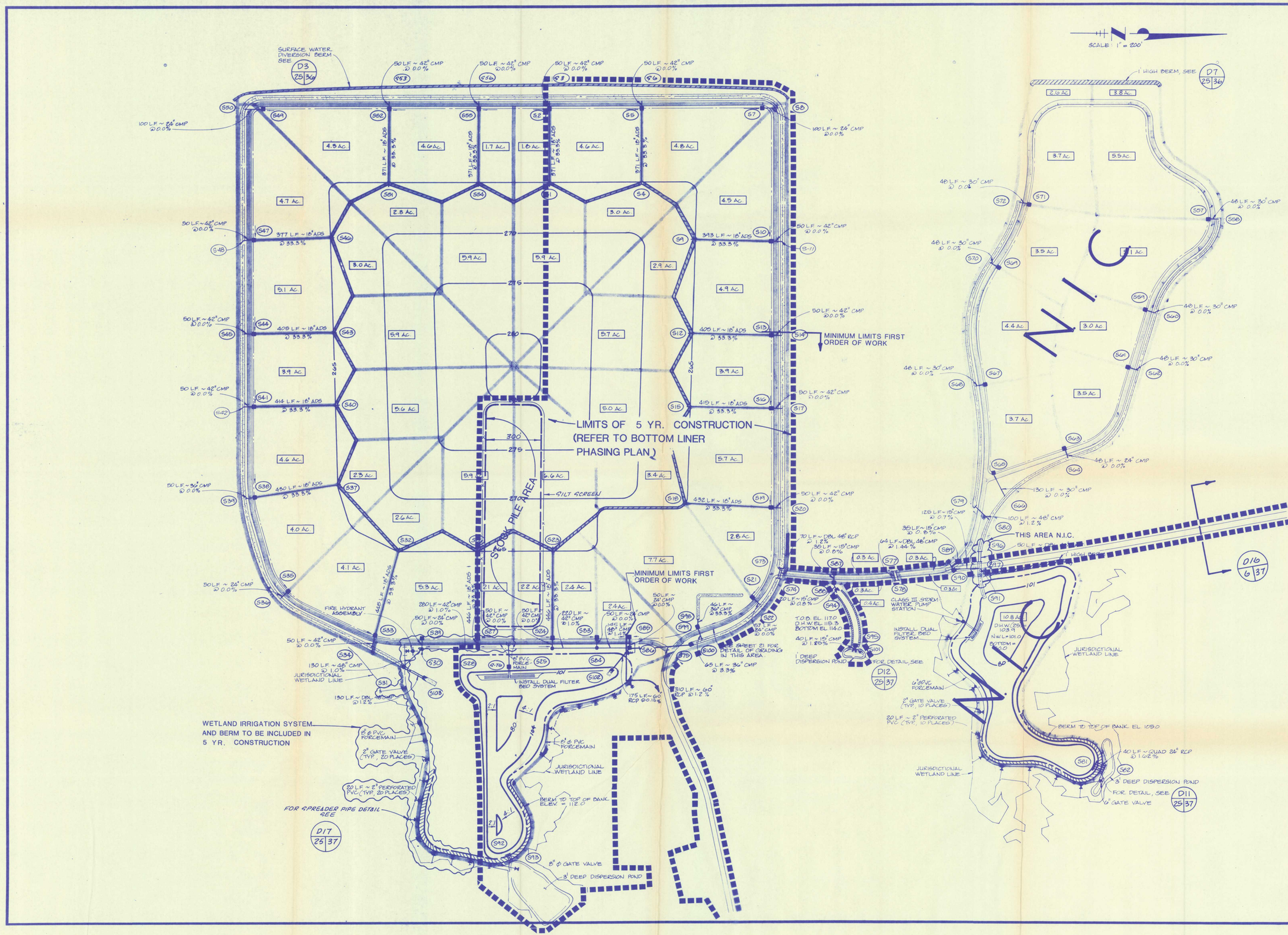
TRAIL RIDGE LANDFILL
(PLAN A)

England-Thimy & Miller, Inc.
Consulting & Design Engineers
3131 St. Johns Bluff Road South
(904)-642-8990
Jacksonville, Florida 32216

ENG. PROJ. NO.	E 91-126-2
DRAWN BY:	S.J.L.
CHECKED BY:	D.C.M.
DATE:	12-19-91

REVISIONS:
12-23-91 ADDED COMPACTED FILL TO WEST CONTAINMENT AREA SECTION
1-6-92 REVISED EAST – WEST STATIONING

DRAWING NO. 9B



1/6/92 RELEASED FOR CONSTRUCTION

REVISIONS
4-16-90 ADDED WETLAND LINE
1-15-91 CONTRACT DOCUMENTS
1-3-91 65 PSF CITY COMMENTS
12-6-91 DELETED SPREADER DETAIL
12-3-91 RELOCATED STRUCTURES 285, 286, & 102
12-9-91 REVISED PIPE LENGTH BETWEEN 5-32 & 5-34

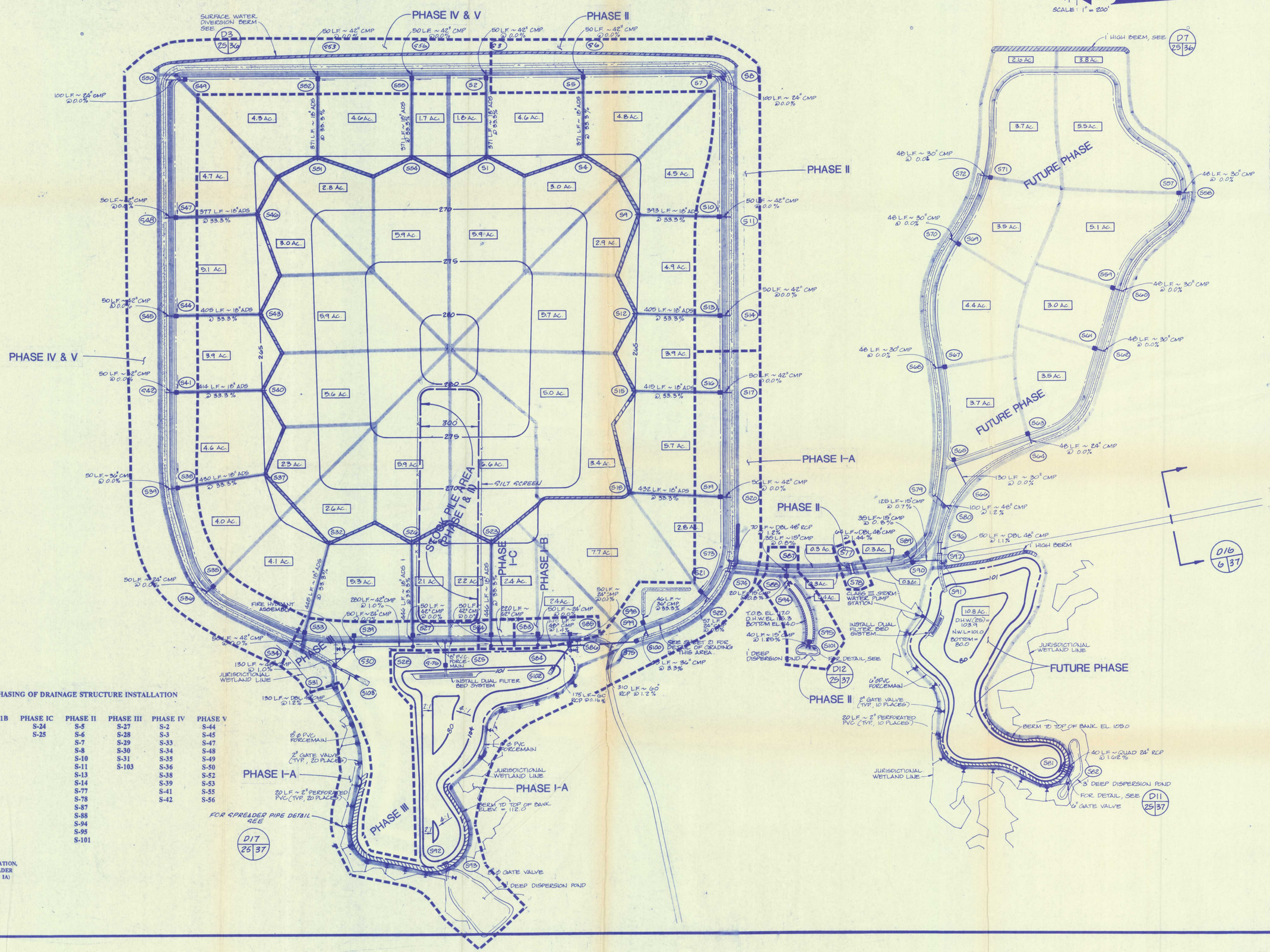
ENG. PROJ. NO. 89-113-9
DRAWN BY: TLD
CHECKED BY: SAH
DATE: JUNE 18, 1990

STORMWATER MANAGEMENT PLAN
TRAIL RIDGE LANDFILL
(PLAN A)

England-Thims & Miller, Inc.
Consulting & Design Engineers
JACKSONVILLE, FLORIDA

DRAWING NO. 25

PROJ. NO. 89-113-9



PHASING OF DRAINAGE STRUCTURE INSTALLATION

PHASE IA	PHASE 1B	PHASE IC	PHASE II	PHASE III	PHASE IV	PHASE V
S-16	S-83	S-24	S-5	S-27	S-2	S-44
S-17	S-84	S-25	S-6	S-28	S-3	S-45
S-19	S-85		S-7	S-29	S-33	S-47
S-20			S-8	S-30	S-34	S-48
S-21			S-10	S-31	S-35	S-49
S-22			S-11	S-103	S-36	S-50
S-73			S-13		S-38	S-52
S-74			S-14		S-39	S-53
S-75			S-77		S-41	S-55
S-86			S-78		S-42	S-56
S-92			S-87			
S-93			S-88			
S-98			S-94			
S-99			S-95			
S-100			S-101			
S-102						

(DUAL FILTER BED, STORMWATER PUMP STATION, FORCE MAIN AND SPREADER PIPE INCLUED IN PHASE 1A)

16692 RELEASED FOR CONSTRUCTION

1-6-91 CHANGED PIPE LENGTH BETWEEN 5-75 & 5-86

REVISIONS	
1-15-91	ADDED WETLAND LINE
1-15-91	CONTRACT DOCUMENTS
1-13-91	AS PER CITY COMMENTS
12-9-91	BID SET
12-6-91	DELINEATED SPREADER DETAIL
12-19-91	PROVIDED PHASING OF STORMWATER MANAGEMENT SYSTEM
1-2-91	DELOCATED STRUCTURES S-56, S-24, S-25

ENG PROJ. NO.	89-113-9
DRAWN BY	TAD
CHECKED BY	SAH
DATE	JUNE 18, 1990

STORMWATER MANAGEMENT PHASING PLAN
TRAIL RIDGE LANDFILL
(PLAN A)

England-Thims & Miller, Inc.
Consulting & Design Engineers
JACKSONVILLE, FLORIDA

DRAWING NO.
25A

RELEASED FOR CONSTRUCTION

PROJ NO. 89-113-9