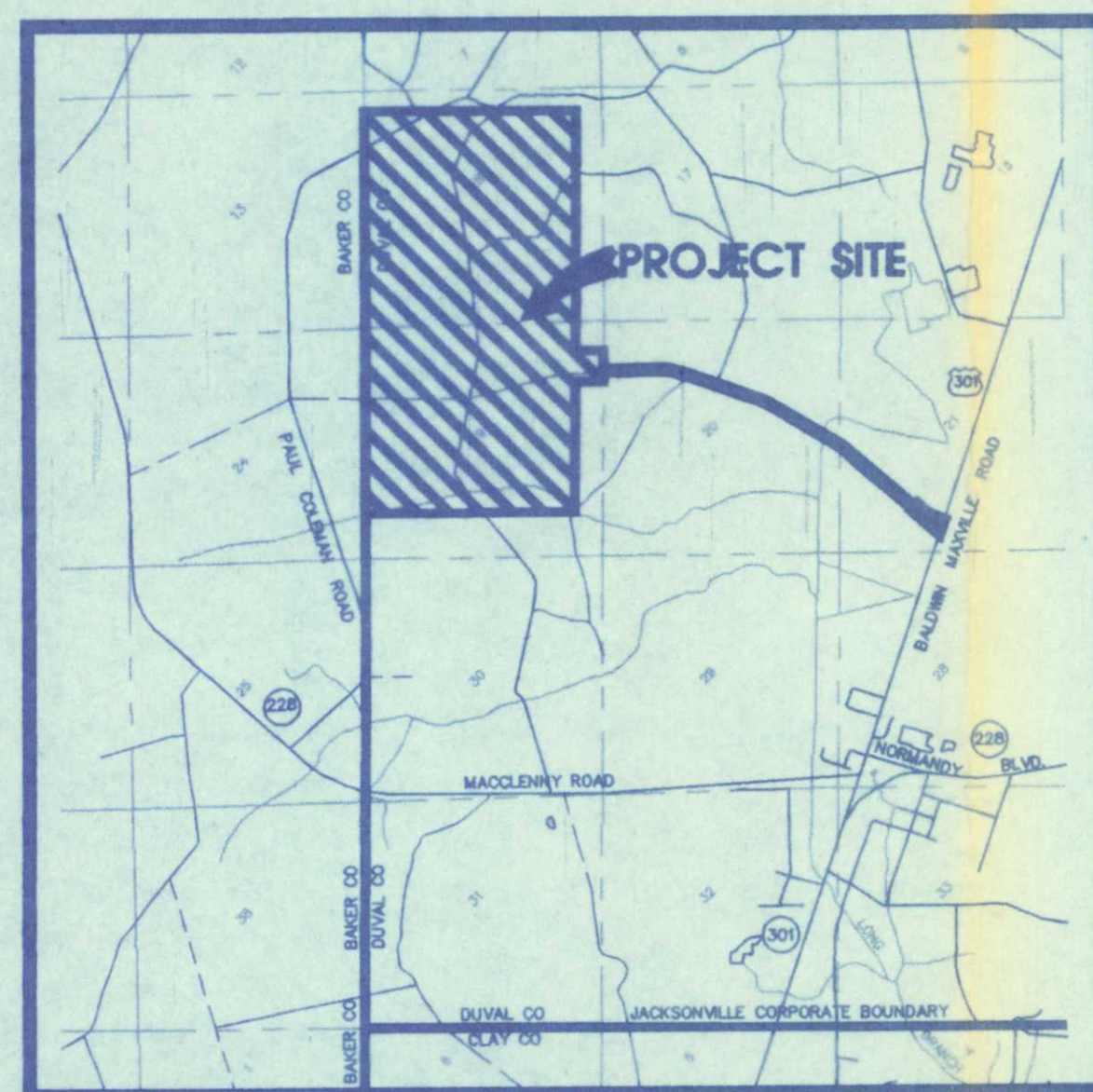


“AS - BUILTS” OF TRAIL RIDGE LANDFILL PHASES I, II AND IIIA FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



VICINITY MAP
SCALE : 1" = 4000'



SUNSHINE STATE SURVEYORS INC.

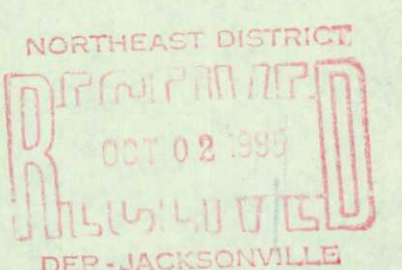
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH
JACKSONVILLE, FLORIDA 32216
(904) 642-8550

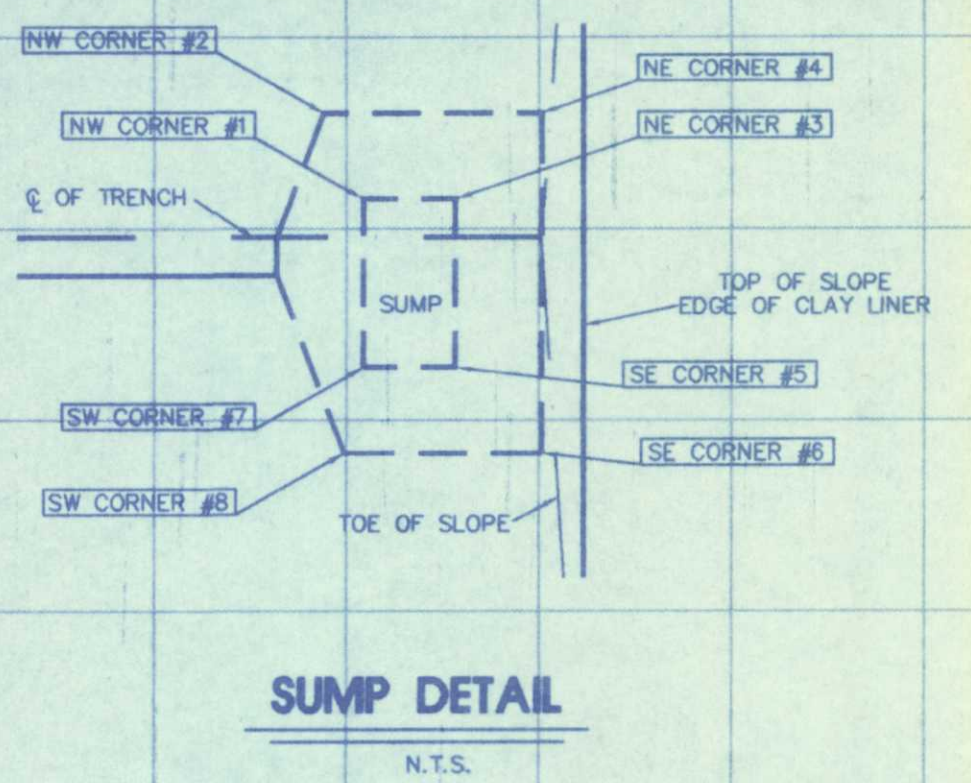
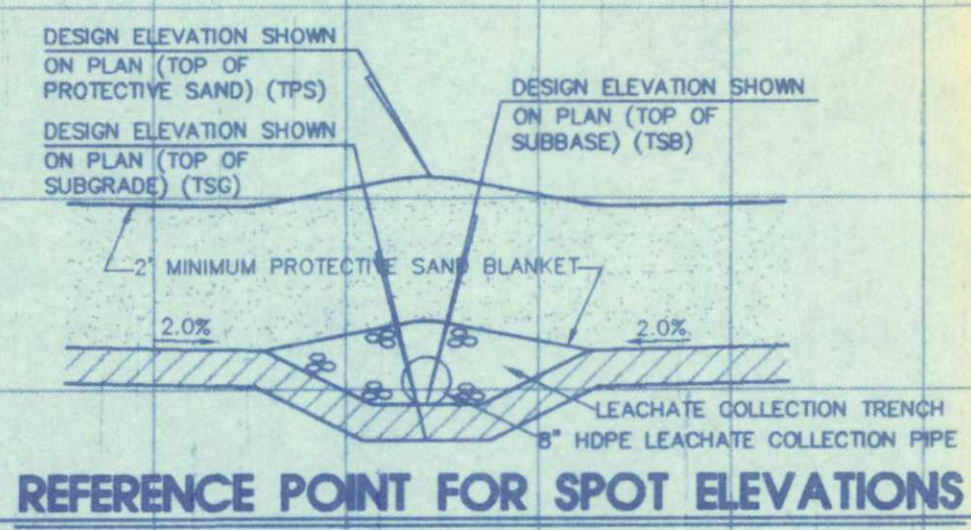
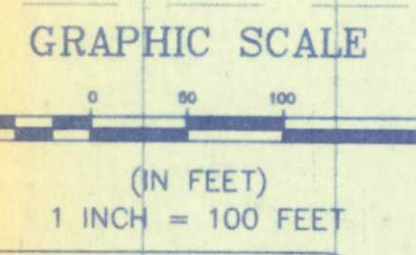
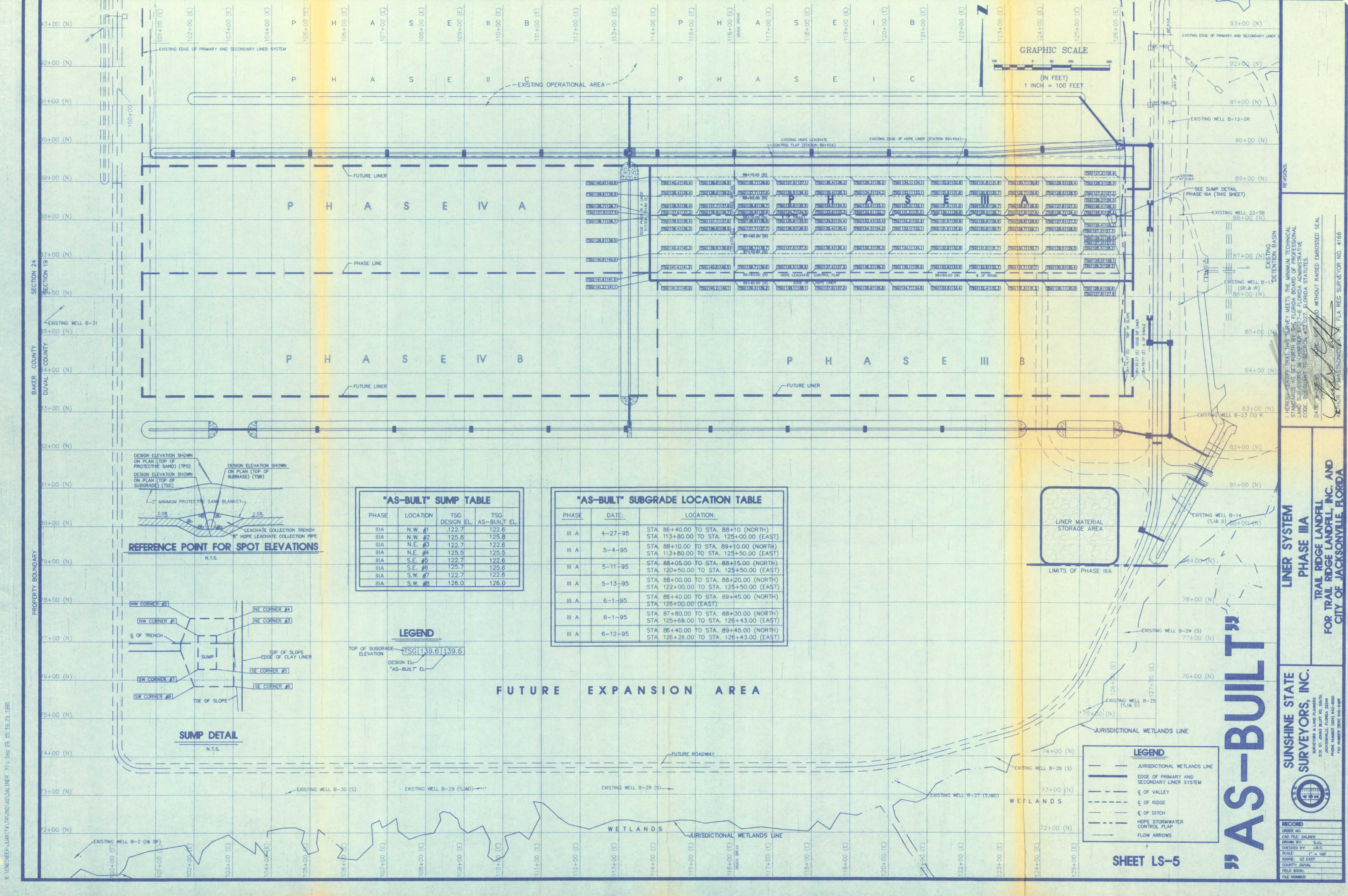
UPDATED, SEPTEMBER, 1995
UPDATED, JANUARY, 1993
UPDATED, DECEMBER, 1992
DATE, SEPTEMBER, 1992

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LINER SYSTEM	
LS-1	LINER SYSTEM - PHASES I AND II
LS-2	LINER SYSTEM - PHASES I AND II
LS-3	LINER SYSTEM - PHASES I AND II
LS-4	LINER SYSTEM - PHASE IIIA
LS-5	LINER SYSTEM - PHASE IIIA
LEACHATE SYSTEM	
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ELECTRICAL SYSTEM	
E-1	ELECTRICAL SYSTEM
E-2	ELECTRICAL SYSTEM
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L-1 THRU L-4	ANCILLARY FACILITIES BUILDINGS PROVIDED BY THE HASKELL COMPANY

Sunshine State Surveyors, Inc.
OCT 2 1995





"AS-BUILT" SUMP TABLE			
PHASE	LOCATION	TSG DESIGN EL.	TSG AS-BUILT EL.
IIIA	N.W. #1	122.7	122.6
IIIA	N.W. #2	125.8	125.8
IIIA	N.E. #3	122.7	122.6
IIIA	N.E. #4	125.5	125.5
IIIA	S.E. #5	122.7	122.6
IIIA	S.E. #6	125.7	125.6
IIIA	S.W. #7	122.7	122.6
IIIA	S.W. #8	126.0	126.0

"AS-BUILT" SUBGRADE LOCATION TABLE		
PHASE	DATE	LOCATION
III A	4-27-95	STA. 86+40.00 TO STA. 88+10 (NORTH) STA. 113+80.00 TO STA. 125+00.00 (EAST)
III A	5-4-95	STA. 88+10.00 TO STA. 89+10.00 (NORTH) STA. 113+80.00 TO STA. 125+50.00 (EAST)
III A	5-11-95	STA. 88+05.00 TO STA. 88+15.00 (NORTH) STA. 120+50.00 TO STA. 125+50.00 (EAST)
III A	5-13-95	STA. 88+00.00 TO STA. 88+20.00 (NORTH) STA. 122+00.00 TO STA. 125+50.00 (EAST)
III A	6-1-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH) STA. 126+00.00 (EAST)
III A	6-1-95	STA. 87+80.00 TO STA. 88+30.00 (NORTH) STA. 125+69.00 TO STA. 126+43.00 (EAST)
III A	6-12-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH) STA. 126+26.00 TO STA. 126+43.00 (EAST)

LEGEND	
TOP OF SUBGRADE ELEVATION	TSG 139.6 139.6
DESIGN EL. "AS-BUILT" EL.	

LEGEND	
---	JURISDICTIONAL WETLANDS LINE
---	EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
---	Ø OF VALLEY
---	Ø OF RIDGE
---	Ø OF DITCH
---	HDPE STORMWATER CONTROL FLAP
---	FLOW ARROWS

SECTION 24
SECTION 19
BAKER COUNTY
DUVAL COUNTY

PROPERTY BOUNDARY

DATE: 8-1-95
SCALE: AS SHOWN WITHOUT RAISED EMBOSSED SEAL
RETURN TO: JAS. HONICKA, P.E., FLA. REG. SURVEYOR NO. 4166

I HEREBY CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 6107-6, FLORIDA ADMINISTRATIVE CODE, PERTINENT TO SECTION 472.027, FLORIDA STATUTES.

SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS
3331 ST. JOHN BLVD. RD. SOUTH,
JACKSONVILLE, FLORIDA 32246
PHONE: (904) 744-4400
FAX: (904) 744-4400

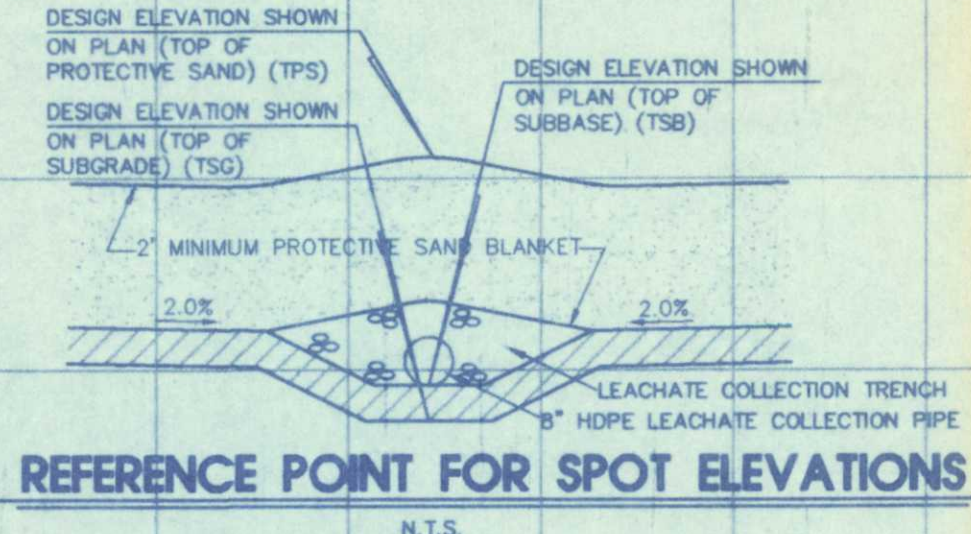
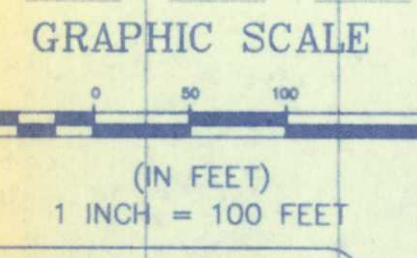
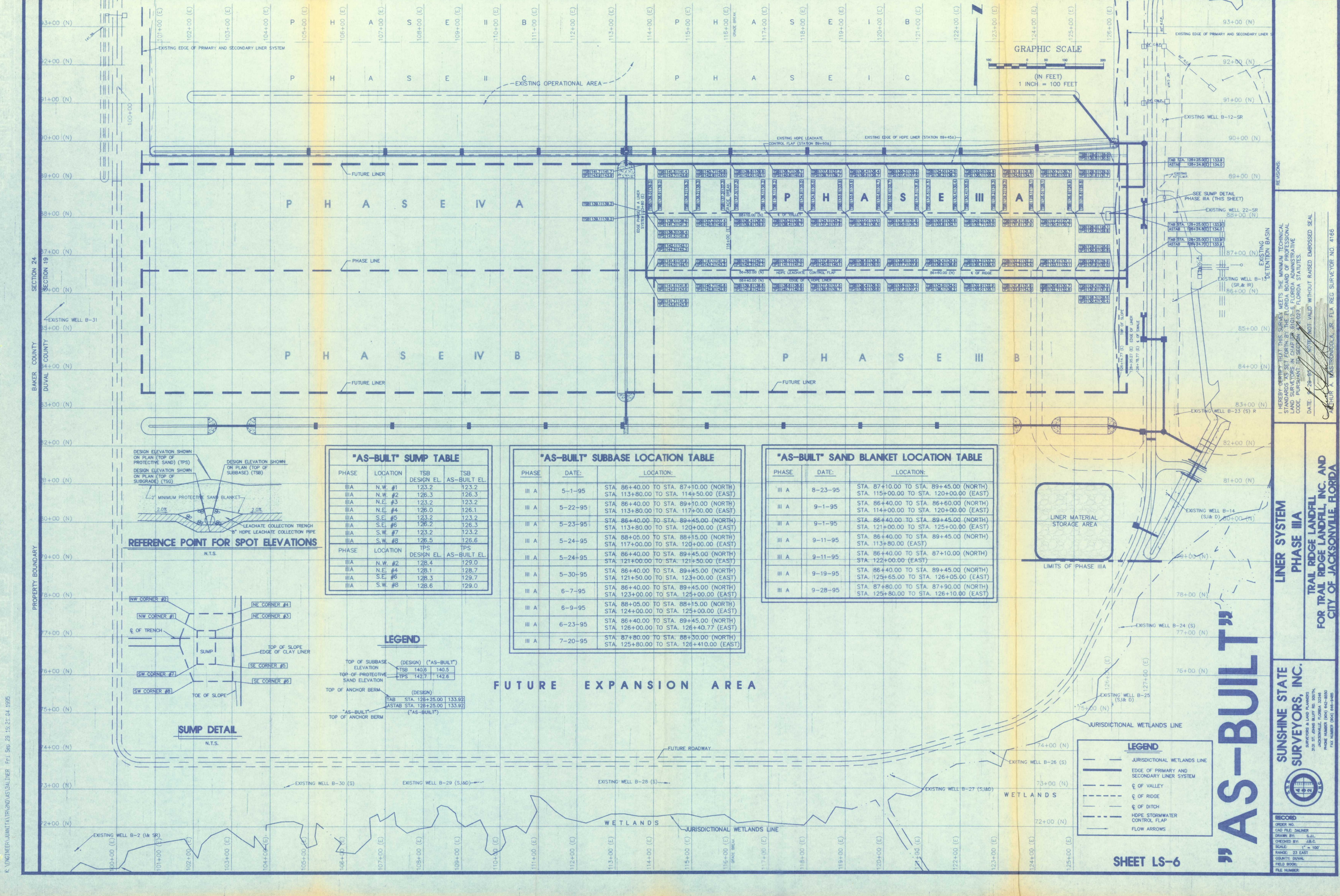
RECORD
ORDER NO.
DND FILE NUMBER
DRAWN BY: S.J.L.
CHECKED BY: J.B.C.
SCALE: 1" = 100'
RANGE: 23 EAST
COUNTY: DUVAL
FIELD BOOK:
FILE NUMBER:

TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA

LINER SYSTEM PHASE IIIA

"AS-BUILT"

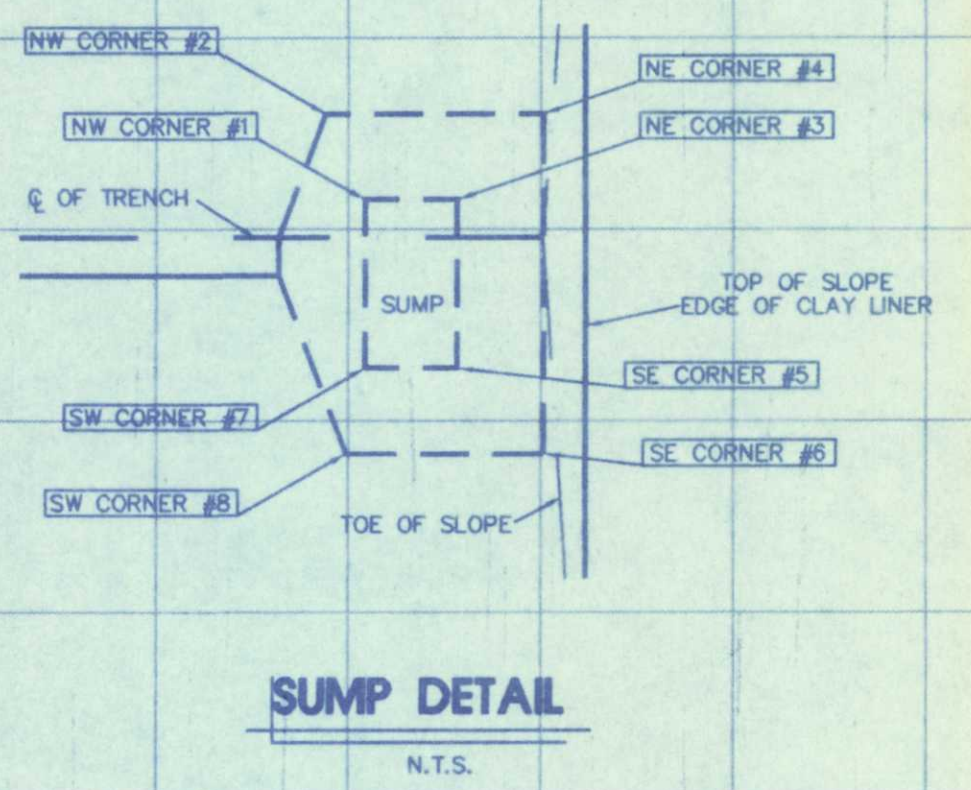
SHEET LS-5



"AS-BUILT" SUMP TABLE				
PHASE	LOCATION	TSB DESIGN EL.	TPS DESIGN EL.	AS-BUILT EL.
III A	N.W. #1	123.2	123.2	123.2
III A	N.W. #2	126.3	126.3	126.3
III A	N.E. #3	123.2	123.2	123.2
III A	N.E. #4	126.0	126.1	126.1
III A	S.E. #5	123.2	123.2	123.2
III A	S.E. #6	126.2	126.3	126.3
III A	S.W. #7	123.2	123.2	123.2
III A	S.W. #8	126.5	126.6	126.6
PHASE	LOCATION	TPS DESIGN EL.	TPS DESIGN EL.	AS-BUILT EL.
III A	N.W. #2	128.4	129.0	129.0
III A	N.E. #4	128.1	128.7	128.7
III A	S.E. #6	128.3	129.7	129.7
III A	S.W. #8	128.6	129.0	129.0

"AS-BUILT" SUBBASE LOCATION TABLE			
PHASE	DATE	LOCATION	
III A	5-1-95	STA. 86+40.00 TO STA. 87+10.00 (NORTH)	STA. 113+80.00 TO STA. 114+50.00 (EAST)
III A	5-22-95	STA. 86+40.00 TO STA. 89+10.00 (NORTH)	STA. 113+80.00 TO STA. 117+00.00 (EAST)
III A	5-23-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 113+80.00 TO STA. 120+00.00 (EAST)
III A	5-24-95	STA. 88+05.00 TO STA. 88+15.00 (NORTH)	STA. 117+00.00 TO STA. 120+00.00 (EAST)
III A	5-24-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 121+00.00 TO STA. 121+50.00 (EAST)
III A	5-30-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 121+50.00 TO STA. 123+00.00 (EAST)
III A	6-7-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 123+00.00 TO STA. 125+00.00 (EAST)
III A	6-9-95	STA. 88+05.00 TO STA. 88+15.00 (NORTH)	STA. 124+00.00 TO STA. 125+00.00 (EAST)
III A	6-23-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 126+00.00 TO STA. 126+40.77 (EAST)
III A	7-20-95	STA. 87+80.00 TO STA. 88+30.00 (NORTH)	STA. 125+80.00 TO STA. 126+410.00 (EAST)

"AS-BUILT" SAND BLANKET LOCATION TABLE			
PHASE	DATE	LOCATION	
III A	8-23-95	STA. 87+10.00 TO STA. 89+45.00 (NORTH)	STA. 115+00.00 TO STA. 120+00.00 (EAST)
III A	9-1-95	STA. 86+40.00 TO STA. 86+60.00 (NORTH)	STA. 114+00.00 TO STA. 120+00.00 (EAST)
III A	9-1-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 121+00.00 TO STA. 125+00.00 (EAST)
III A	9-11-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 113+80.00 (EAST)
III A	9-11-95	STA. 86+40.00 TO STA. 87+10.00 (NORTH)	STA. 122+00.00 (EAST)
III A	9-19-95	STA. 86+40.00 TO STA. 89+45.00 (NORTH)	STA. 125+65.00 TO STA. 126+05.00 (EAST)
III A	9-28-95	STA. 87+80.00 TO STA. 87+90.00 (NORTH)	STA. 125+80.00 TO STA. 126+10.00 (EAST)



LEGEND

TOP OF SUBBASE ELEVATION (DESIGN) ("AS-BUILT")	TSB 140.6	140.5
TOP OF PROTECTIVE SAND ELEVATION	TPS 142.7	142.6
TOP OF ANCHOR BERM (DESIGN)	TAB STA. 128+25.00	133.92
	ASTAB STA. 128+25.00	133.92
"AS-BUILT" TOP OF ANCHOR BERM ("AS-BUILT")		

FUTURE EXPANSION AREA

LEGEND

- JURISDICTIONAL WETLANDS LINE
- EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
- ☉ OF VALLEY
- ☉ OF RIDGE
- ☉ OF DITCH
- HOPE STORMWATER CONTROL FLAP
- FLOW ARROWS

SHEET LS-6

I HEREBY CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 81G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 81G17-6.02, FLORIDA STATUTES.

DATE: 04-29-95

NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL.

ARTHUR A. WASTRICH, JR., FLA REG SURVEYOR NO. 4166

LINER SYSTEM PHASE IIIA

TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA

SUNSHINE STATE SURVEYORS, INC.

SURVEYORS & LAND PLANNERS

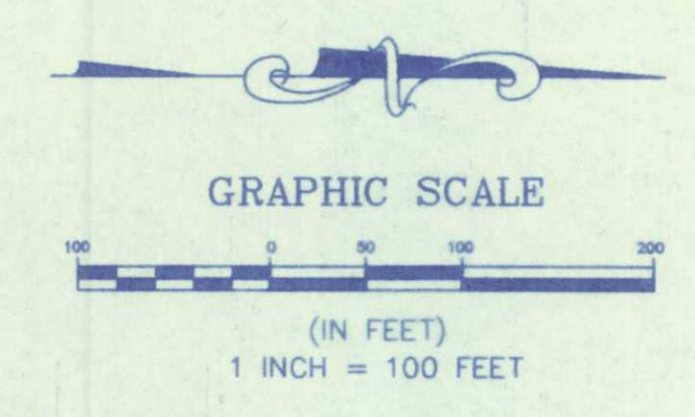
313 S. JOHNS BLUFF RD. SUITE 100
JACKSONVILLE, FLORIDA 32246

PHONE NUMBER (904) 442-8800
FAX NUMBER (904) 442-8848

RECORD

DRAWN BY: S.J.L.
CHECKED BY: J.B.C.
SCALE: 1" = 100'
RANGE: 23 EAST
COUNTY: DUVAL
FIELD BOOK:
FILE NUMBER:

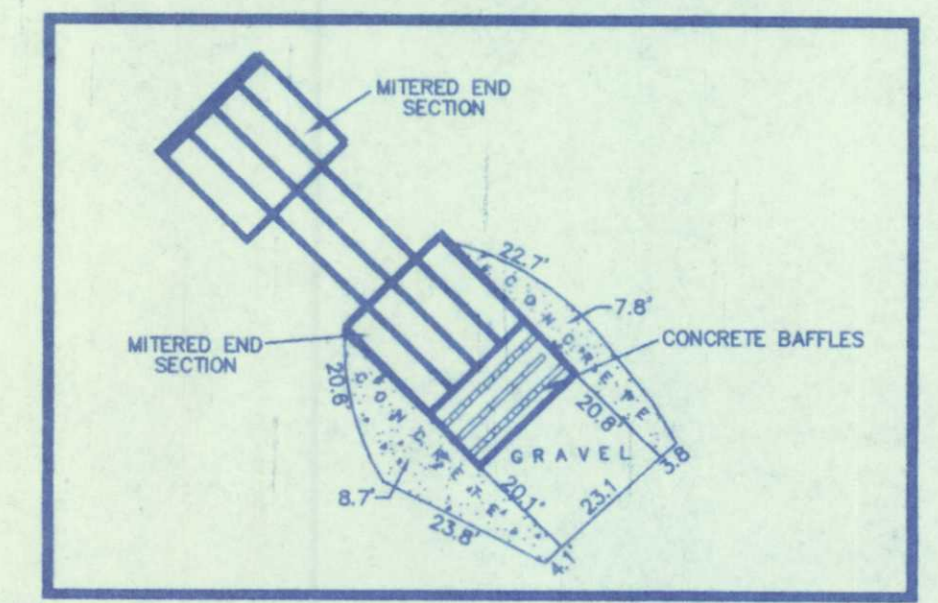
K. ENGINEER/PLANNING/REGISTRATION/SALES/GENERAL FRI Sep 20 15:21:04 1995



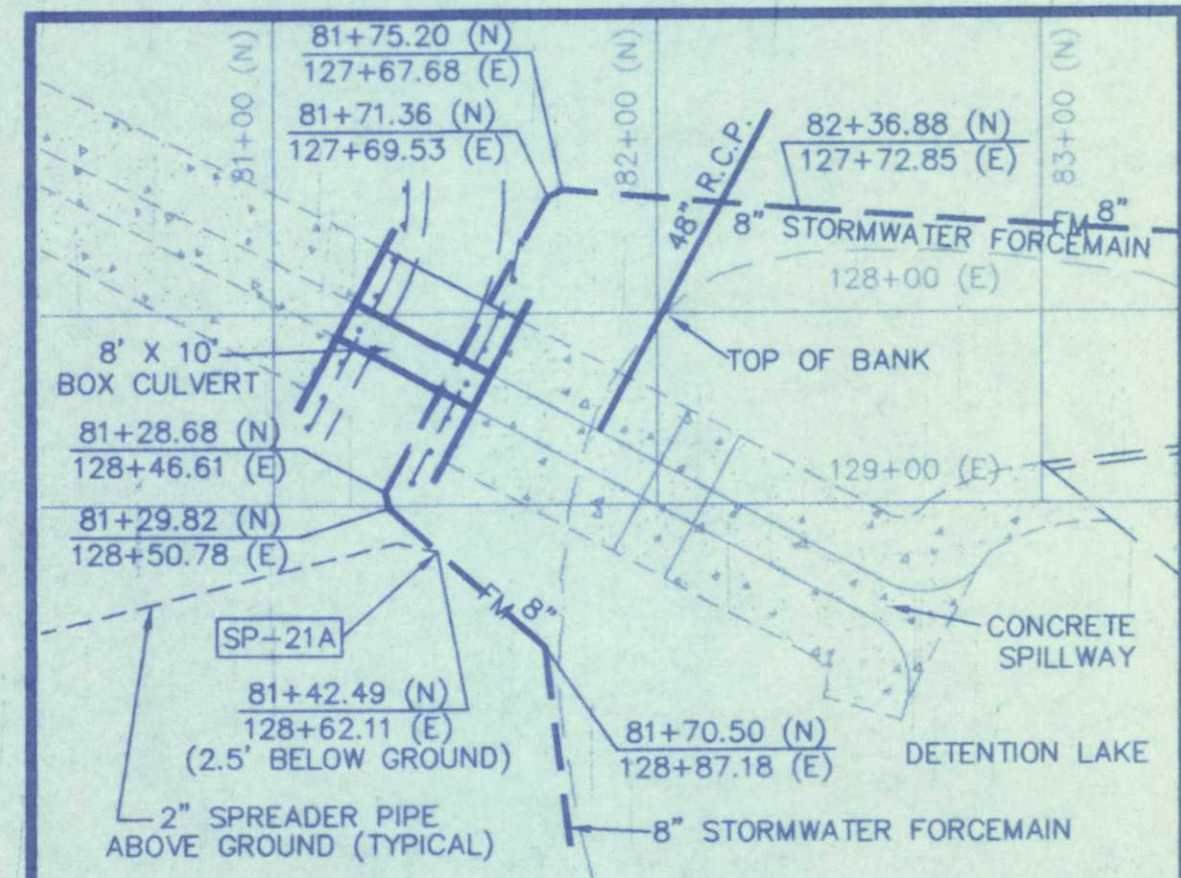
NOTE:
SEE SHEET D-1, D-6, A-1 AND A-2 FOR INVERTS, STATIONS AND OTHER AS-BUILT INFORMATION FOR THE STORMWATER DRAINAGE STRUCTURES, AND THE 8" P.V.C. SPREADER PIPE.

- LEGEND**
- 124.0 "AS-BUILT" SPOT ELEVATION
 - 150- DESIGN CONTOUR
 - AS-BUILT TOP OF BANK
 - S93 STRUCTURE NUMBER
 - AS-BUILT STORM INLET WITH PIPES
 - AS-BUILT STORM CULVERT
 - SP-13 SPREADER PIPE NUMBER
 - FM 8" "AS-BUILT" 8" P.V.C. STORMWATER FORCEMAIN
 - AS-BUILT 2" P.V.C. SPREADER PIPE

DITCH PAVING DETAIL



STORMWATER FORCEMAIN DETAIL



- NOTES:**
1. 8" STORMWATER FORCEMAIN RELOCATED AS SHOWN (AUGUST 1995)
 2. RELOCATION AS-BUILT COORDINATES AS PROVIDED BY J.B. COXWELL CONTRACTING, INC. AND MAPPED BY SUNSHINE STATE SURVEYORS, INC.

SHEET D-3

DATE:	COMMENTS
9-27-95	REVISED TO SHOW RELOCATION OF 8" FORCEMAIN
1-26-93	REVISED TO ADD TIRE STORAGE AREA, BYPASS ROAD AND OPERATIONS BUILDING AS-BUILTS.
12-12-92	REVISE AS-BUILT TOPO ALONG EAST END OF POND
11-24-92	DITCH PAVING AS-BUILT
9-11-92	PHASE IA AS-BUILT

I HEREBY CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 172.027, FLORIDA STATUTES.

NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL

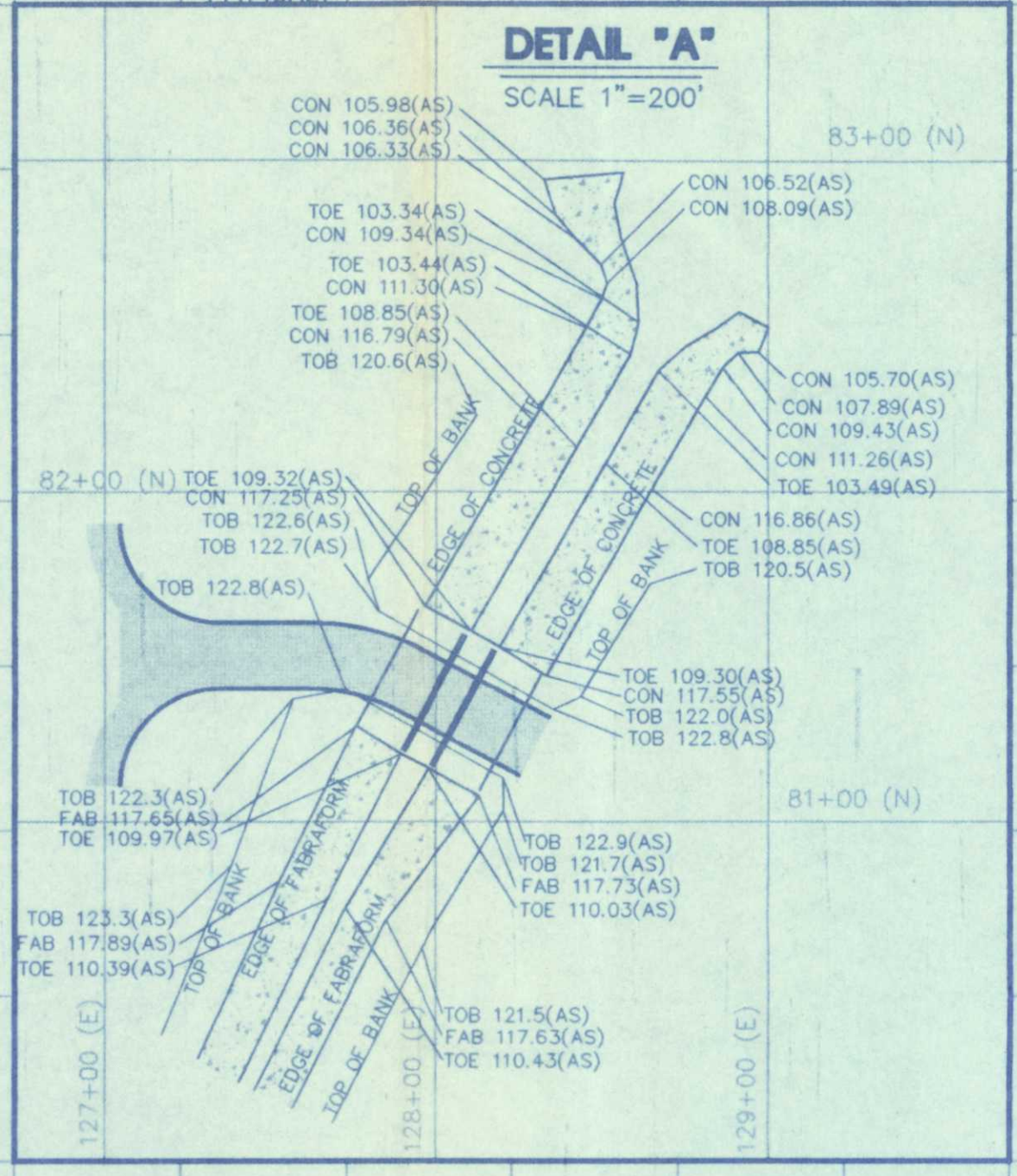
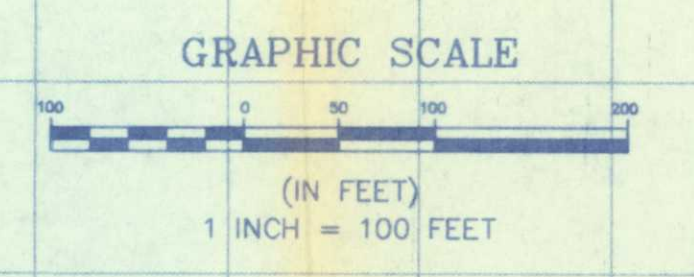
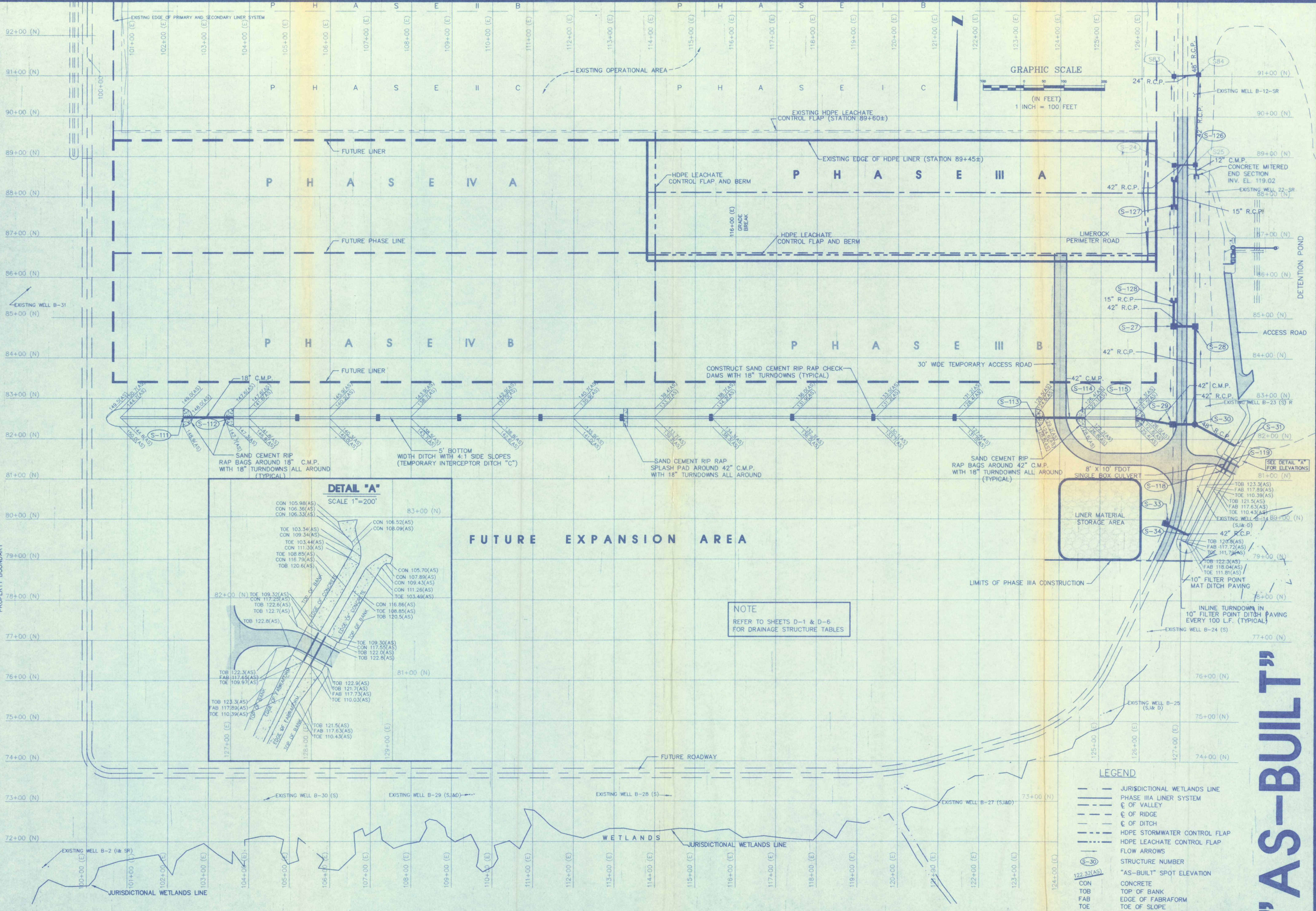
ARTHUR A. MASTRONICOLA JR. FLA. REG. SURVEYOR NO. 4166

"AS-BUILT"

DETENTION LAKE FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246
(904) 642-8550



FUTURE EXPANSION AREA

NOTE
REFER TO SHEETS D-1 & D-6
FOR DRAINAGE STRUCTURE TABLES

- LEGEND
- JURISDICTIONAL WETLANDS LINE
 - PHASE IIIA LINER SYSTEM
 - OF VALLEY
 - OF RIDGE
 - OF DITCH
 - HDPE STORMWATER CONTROL FLAP
 - HDPE LEACHATE CONTROL FLAP
 - FLOW ARROWS
 - STRUCTURE NUMBER
 - "AS-BUILT" SPOT ELEVATION
 - CON CONCRETE
 - TOB TOP OF BANK
 - FAB EDGE OF FABRAFORM
 - TOE TOE OF SLOPE

SHEET D-5

REVISIONS:
I HEREBY CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 471, F.S. AND THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 471.027, F.S. STATUTES.
DATE: 9-25-95
SCALE: NOT VALID WITHOUT RAISED EMBOSSED SEAL
ARTHUR A. MASSIMONICO, JR., FLA. REG. SURVEYOR NO. 4166

DRAINAGE STRUCTURES
PHASE IIIA
TRAIL RIDGE LANDFILL INC. AND
CITY OF JACKSONVILLE, FLORIDA

SUNSHINE STATE
SURVEYORS, INC.
SURVEYORS & LAND PLANNERS
3131 ST. JOHN BLVD. SOUTH
JACKSONVILLE, FLORIDA 32244
TEL: 904-744-4400
FAX: 904-744-4405

RECORD
ORDER NO. 95-04-4
CAD FILE: SA-ASBLT
DRAWN BY: F.T.E.
CHECKED BY: T.S.
SCALE: 1"=100'
RANGE: 23 EAST
COUNTY: DUNAL
FIELD BOOK: 477
FILE NUMBER: 950-4121

"AS-BUILT"

C:\V\AS\34-ASBLT Fr1 Sep 29 15:32:43 1995

C:\TR\AS\34-ASBLT.Fly Sep 29 15:25:13 1995

AS-BUILT STORM DRAINAGE DATA FOR PHASE IIIA

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT	DESIGN	ASBUILT
S-27	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	121.48	118.76 (S)	118.65 (S)	115.26 (30" HDPE W) 115.26 (42" R.C.P. E) 118.76 (15" R.C.P. N)	FUTURE 30" HDPE W 115.23 (42" R.C.P. E) 118.58 (15" R.C.P. N)	84+80.00 (N) 126+78.77 (E)	84+80.18 (N) 126+78.01 (E)
S-28	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	121.57	119.50 (N&S)	119.48 (N&S)	115.26 (42" R.C.P. W) 113.00 (42" R.C.P. S)	115.17 (42" R.C.P. W) 112.90 (42" R.C.P. S)	84+80.00 (N) 127+32.27 (E)	84+81.14 (N) 127+33.57 (E)
S-29	FDOT TYPE "E" INLET	121.50	121.52	118.76 (N&S)	118.77 (N&S)	116.26 (42" R.C.P. E) 116.26 (42" C.M.P. W)	116.46 (42" R.C.P. E) 116.50 (42" C.M.P. W)	82+37.00 (N) 126+77.27 (E)	82+37.03 (N) 126+78.89 (E)
S-30	FDOT TYPE "E" INLET W/ 7' TYPE J BOTTOM (ALTERNATE A)	121.50	121.53	120.00 (S)	120.09 (S)	116.26 (42" R.C.P. W) 110.96 (42" R.C.P. N) 110.46 (48" R.C.P. SE)	115.80 (42" R.C.P. W) 110.85 (42" R.C.P. N) 110.50 (48" R.C.P. SE)	82+37.00 (N) 127+32.27 (E)	82+45.61 (N) 127+32.12 (E)
S-31	CONST. 48" MITERED END INTO DITCH PAVING	---	---	---	---	109.10 (48" R.C.P. NW)	108.92 (48" R.C.P. NW)	81+84.60 (N) 128+30.89 (E)	81+84.78 (N) 128+31.13 (E)
S-33	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.75	121.74	118.76 (N&S)	118.68 (N) 118.66 (S)	115.00 (30" HDPE NW) 111.85 (42" R.C.P. SE)	FUTURE 30" HDPE NW 111.96 (42" R.C.P. SE)	79+91.26 (N) 126+60.49 (E)	80+03.41 (N) 126+65.38 (E)
S-34	CONST. MITERED END INTO DITCH PAVING	---	---	---	---	111.85 (42" R.C.P. NW)	111.94 (42" R.C.P. NW)	79+61.92 (N) 127+19.07 (E)	79+63.30 (N) 127+17.66 (E)
S-111	18" C.M.P.	---	---	---	---	143.70 (18" C.M.P. E)	143.64 (18" C.M.P. E)	82+52.50 (N) 102+37.50 (E)	82+51.82 (N) 102+37.63 (E)
S-112	18" C.M.P.	---	---	---	---	142.70 (18" C.M.P. W)	142.64 (18" C.M.P. W)	82+52.50 (N) 103+61.00 (E)	82+52.54 (N) 103+62.61 (E)
S-113	42" C.M.P.	---	---	---	---	123.80 (42" C.M.P. E)	123.76 (42" C.M.P. E)	82+52.50 (N) 123+39.00 (E)	82+52.55 (N) 123+38.09 (E)
S-114	42" C.M.P.	---	---	---	---	122.40 (42" C.M.P. W)	122.32 (42" C.M.P. W)	82+52.50 (N) 124+62.50 (E)	82+52.65 (N) 124+62.44 (E)
S-115	42" C.M.P.	---	---	---	---	121.00 (42" C.M.P. E)	120.95 (42" C.M.P. E)	82+52.50 (N) 125+87.00 (E)	82+52.57 (N) 125+87.11 (E)
S-118	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	---	---	---	---	110.00	110.07	81+18.72 (N) 128+01.47 (E)	81+18.84 (N) 128+01.15 (E)
S-119	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL	---	---	---	---	109.30	109.36	81+54.02 (N) 128+20.27 (E)	81+54.88 (N) 128+21.85 (E)
S-126	15" FDOT MITERED END SECTION	---	---	---	---	118.80 (15" R.C.P. S)	118.77 (15" R.C.P. S)	88+40.50 (N) 126+78.77 (E)	88+46.74 (N) 126+79.37 (E)
S-127	15" FDOT MITERED END SECTION	---	---	---	---	119.00 (15" R.C.P. N)	118.94 (15" R.C.P. N)	87+79.50 (N) 126+78.77 (E)	87+67.18 (N) 126+78.47 (E)
S-128	15" FDOT MITERED END SECTION	---	---	---	---	119.00 (15" R.C.P. N)	118.89 (15" R.C.P. N)	85+40.50 (N) 126+78.77 (E)	85+54.74 (N) 126+78.47 (E)

SHEET D-6

"AS-BUILT"

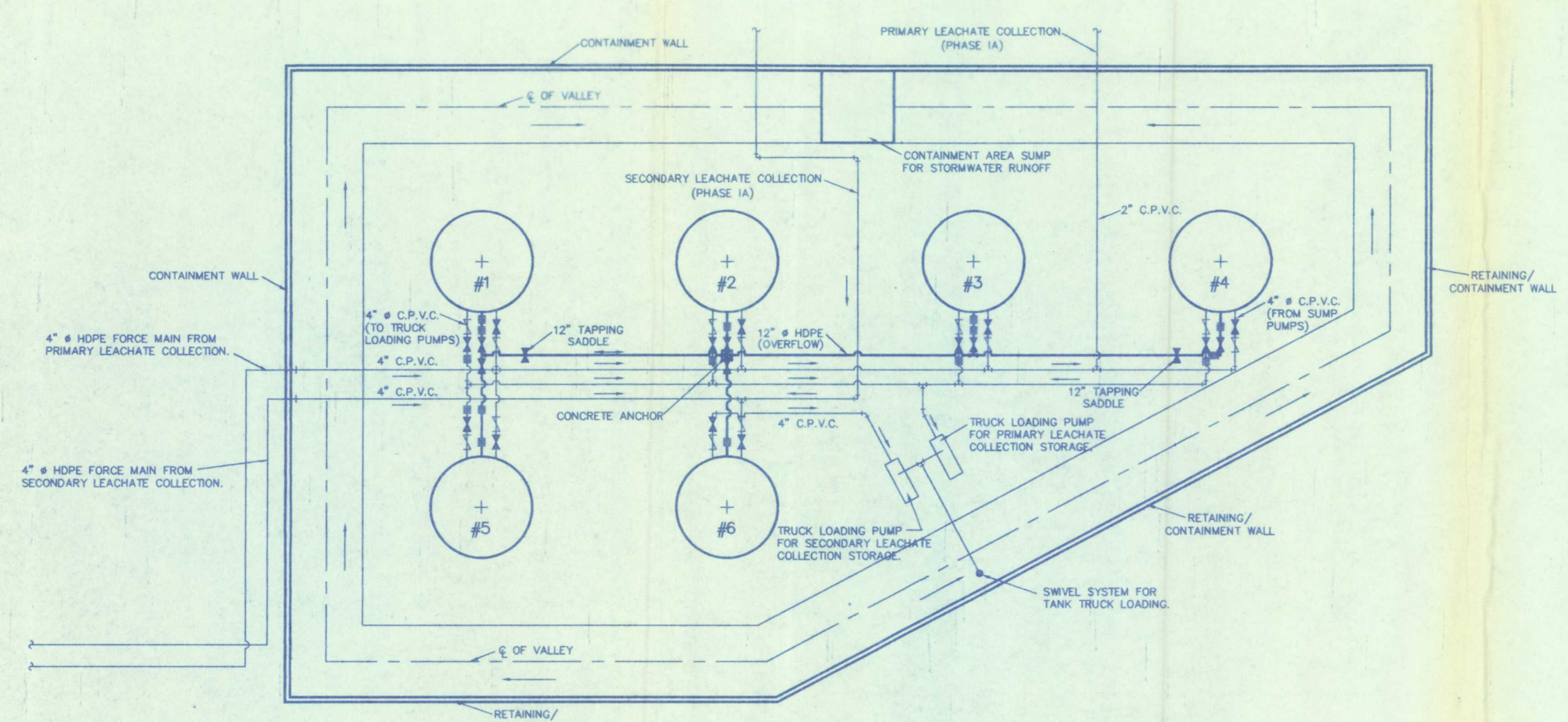
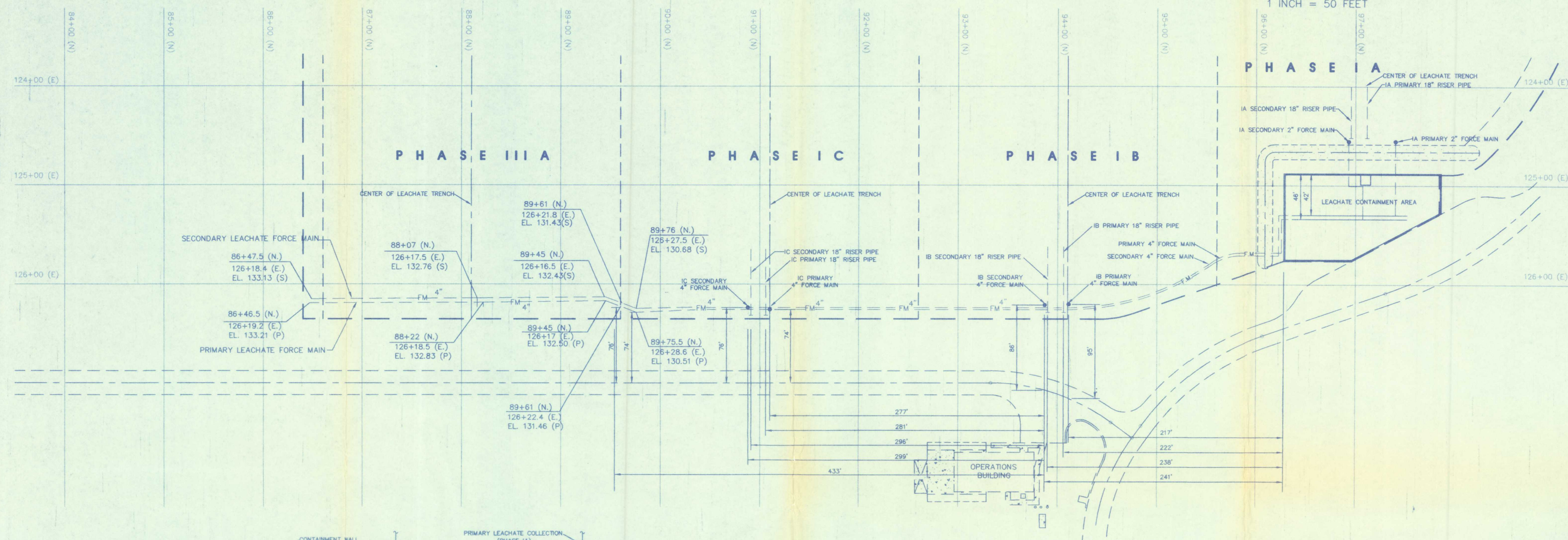
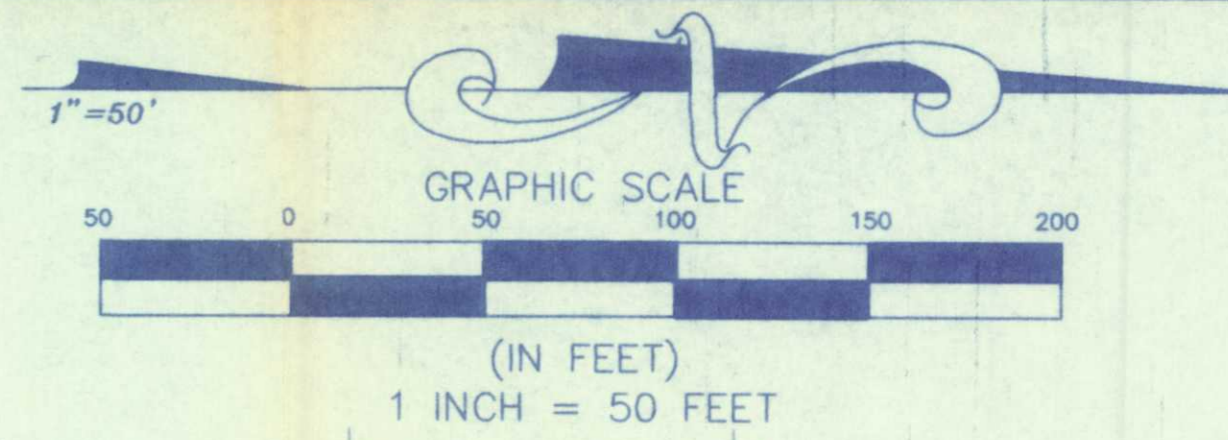
SUNSHINE STATE SURVEYORS, INC.
 SURVEYORS & LAND PLANNERS
 3131 ST. JOHN BLVD. RD. SOUTH,
 JACKSONVILLE, FLORIDA 32209
 PHONE NUMBER: (904) 944-2600
 FAX NUMBER: (904) 944-2605

**DRAINAGE STRUCTURE TABLE
PHASE IIIA**

**TRIAL RIDGE LANDFILL
FOR TRIAL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE, FLORIDA**

I HEREBY CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 473.007, FLORIDA STATUTES.
 DATE: 9-28-95
 NOTED AND APPROVED: [Signature]
 PROFESSIONAL LAND SURVEYOR NO. 4166

REVISIONS:



LEGEND

- ==FM== LEACHATE FORCE MAIN
- - - - LIMITS OF LINER SYSTEM
- - - - ϵ OF VALLEY
- - - - ϵ OF RIDGE
- - - - ϵ OF DITCH
- (P) PRIMARY LEACHATE FORCE MAIN
- (S) SECONDARY LEACHATE FORCE MAIN

NOTE:

- ALL DIMENSIONS SHOWN FOR PHASES I AND II WERE PROVIDED BY JAX. UTILITIES CONSTRUCTION.
- ALL COORDINATES SHOWN FOR PHASES IIIA WERE PROVIDED BY J.B. COXWELL CONTRACTING, INC.
- MAP PREPARED BY SUNSHINE STATE SURVEYORS, INC.

NOTE:
TANKS #1-#5 ARE FOR PRIMARY LEACHATE COLLECTION STORAGE, TANK #6 IS FOR SECONDARY LEACHATE COLLECTION STORAGE.

- |-|-|- EXPANSION COUPLING
- >->- SPRING LEVERED CPVC CHECK VALVE
- >->- CPVC BUTTERFLY VALVE

LEACHATE STORAGE, PUMPING AND CONTAINMENT

N.T.S.

REVISIONS:
PHASE IA AS-BUILT
ADDED EXPANSION JOINTS, CONCRETE ANCHOR, AND REMOVED
1-24-95
ADDED PHASE IIIA AS-BUILT
9-28-95

DATE: 9-11-92

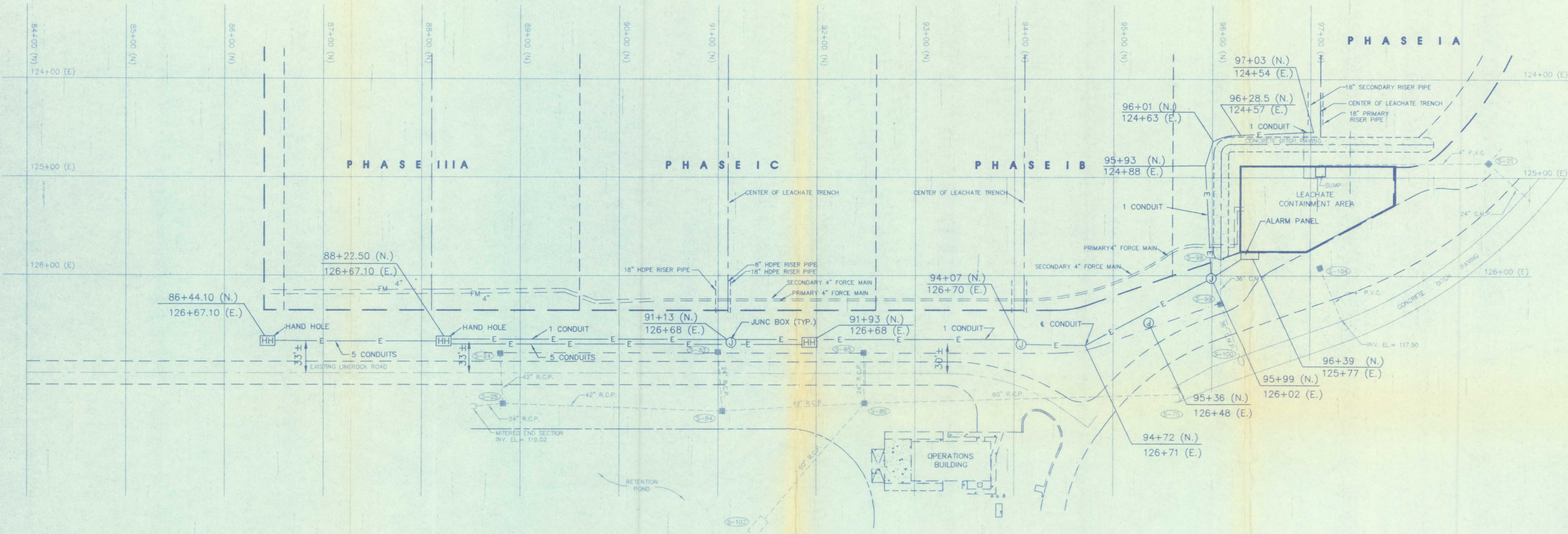
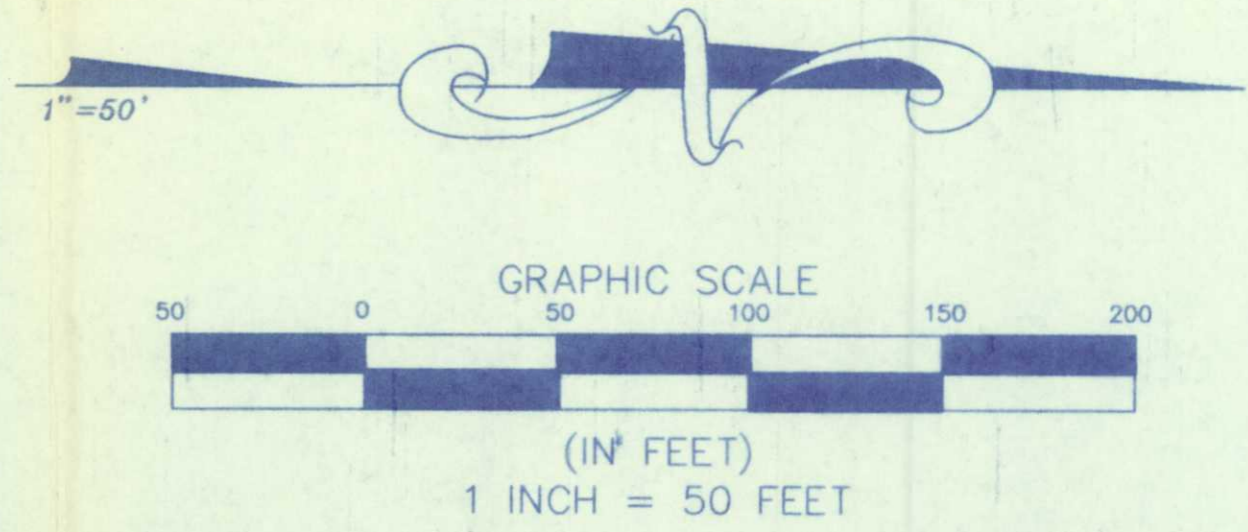
**LEACHATE FORCE MAIN
PRIMARY AND SECONDARY
TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL INC. AND
CITY OF JACKSONVILLE, FLORIDA**

**SUNSHINE STATE
SURVEYORS, INC.**
3331 W. STATE STREET, SUITE 100
JACKSONVILLE, FLORIDA 32206
PHONE NUMBER (904) 642-8500
FAX NUMBER (904) 642-9400

RECORD

ORDER NO.	
CAD FILE: ELEC-FM	
DRAWN BY: C.S.T.	
CHECKED BY: S.L.	
SCALE: 1" = 50'	
RANGE: 23 EAST	
COUNTY: DUVAL	
FIELD BOOK: 18/A	
FILE NUMBER:	

"AS-BUILT"



LEGEND

- HH HAND HOLE
- J JUNCTION BOX
- E PHASE III A ELECTRICAL CONDUIT
- LIMITS OF LINER SYSTEM
- - - - - ϕ OF VALLEY
- - - - - ϕ OF RIDGE
- - - - - ϕ OF DITCH

NOTE:

1. ALL DIMENSIONS SHOWN FOR PHASES I AND II WERE PROVIDED BY JAX. UTILITIES CONSTRUCTION.
2. ALL COORDINATES SHOWN FOR PHASES IIIA WERE PROVIDED BY J.B. COXWELL CONTRACTING, INC.
3. MAP PREPARED BY SUNSHINE STATE SURVEYORS, INC.

REVISIONS:

DATE: 9-28-95

ELECTRICAL

**TRAIL RIDGE LANDFILL
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE, FLORIDA**

**SUNSHINE STATE
SURVEYORS, INC.**
SURVEYORS & LAND PLANNERS
3131 ST. JAMES BLVD. SOUTH,
JACKSONVILLE, FLORIDA 32246
PHONE NUMBER (904) 642-3800
FAX NUMBER (904) 642-3800

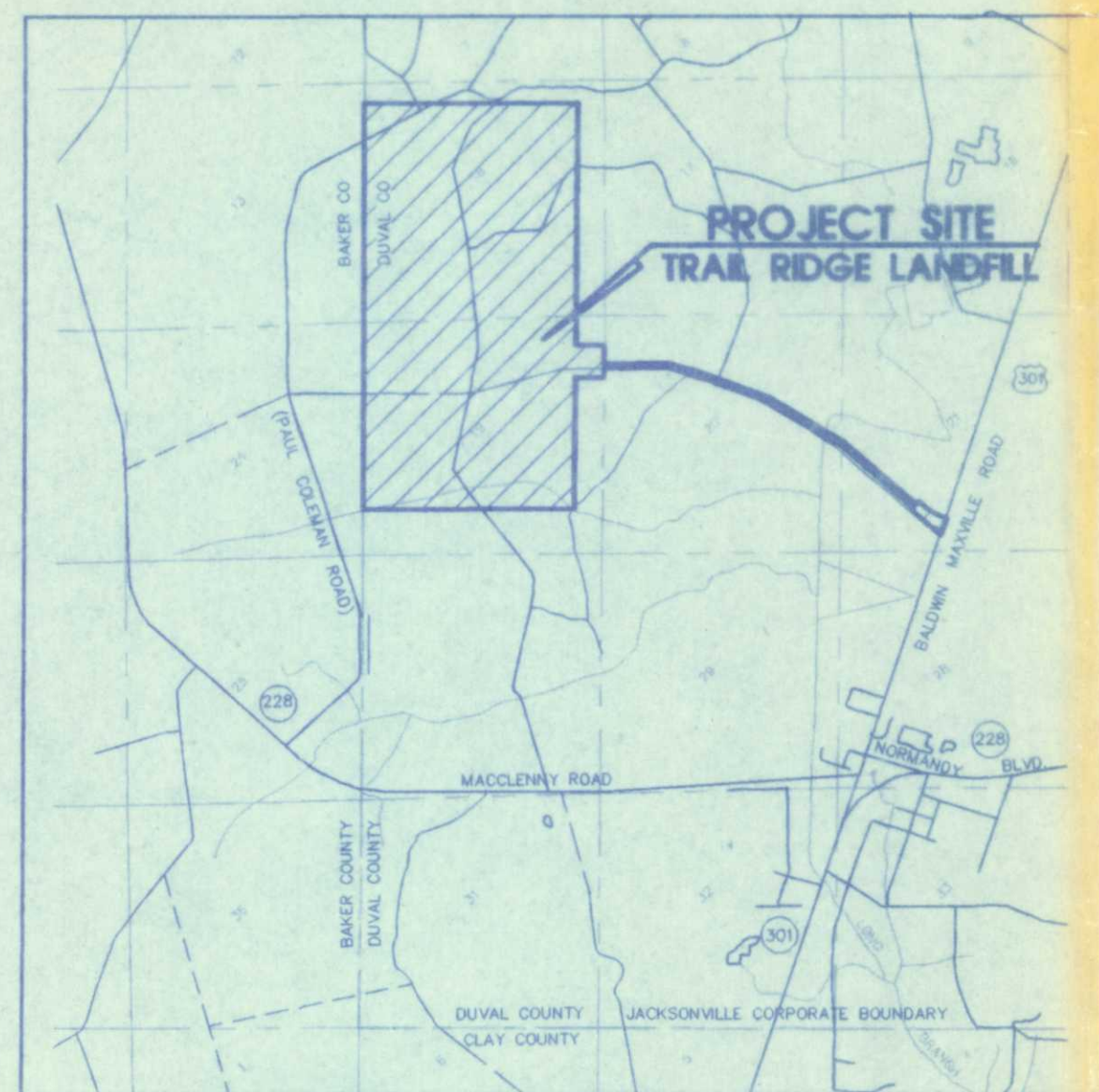


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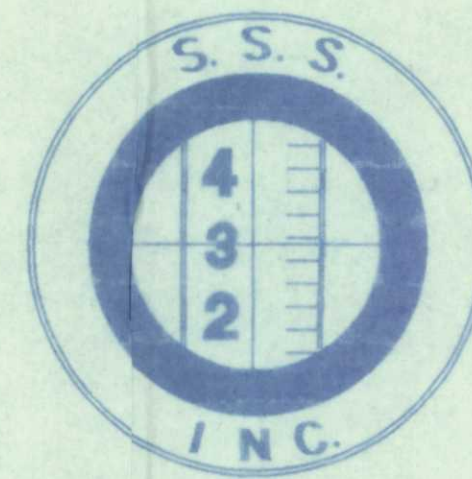
ORDER NO.	
CAD FILE	ELEC-FM
DRAWN BY	C.B.T.
CHECKED BY	S.J.L.
SCALE	1" = 50'
RANGE	33 EAST
COUNTY	DUVAL
FIELD BOOK	N.A.
FILE NUMBER	

"AS-BUILT"

“AS - BUILTS” OF TRAIL RIDGE LANDFILL PHASES I, II, III A&B, and IV A&B FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



VICINITY MAP



SUNSHINE STATE SURVEYORS INC.

SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH
JACKSONVILLE, FLORIDA 32216
(904) 642-8550

UPDATED: DECEMBER, 1996
UPDATED: SEPTEMBER, 1995
UPDATED: JANUARY, 1993
UPDATED: DECEMBER, 1992
DATE: SEPTEMBER, 1992

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
COVER SHEET NUMBER 1	COVER SHEET
GROUNDWATER WELLS	
GW-1	GROUNDWATER MONITORING WELLS
LINER SYSTEM	
LS-1	LINER SYSTEM - PHASES I AND II
LS-2	LINER SYSTEM - PHASES I AND II
LS-3	LINER SYSTEM - PHASES I AND II
LS-4	LINER SUBGRADE - PHASES IIIA, IIIB, IVA, IVB
LS-5	LINER SYSTEM - PHASES IIIA, IIIB, IVA, IVB
LS-6	LINER SYSTEM LOCATION - PHASES IIIA, IIIB, IVA, IVB
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LE-1	LEACHATE FORCE MAIN
ELECTRICAL SYSTEM	
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E-2	ELECTRICAL SYSTEM
DRAINAGE PLANS	
D-1	DRAINAGE STRUCTURE AND SPREADER PIPE DATA SHEET
D-2	PHASES I AND II DRAINAGE STRUCTURES
D-3	DETENTION LAKE
D-4	FILTER BED AREA
D-5	DRAINAGE STRUCTURES - PHASES IIIA, IIIB, IVA, IVB
D-6	DRAINAGE STRUCTURE TABLE - PHASES IIIA, IIIB, IVA, IVB
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A-2	ANCILLARY AREA FORCE MAIN, WATER MAIN AND STORM DRAINAGE
ENTRANCE ROAD	
ER-1	ENTRANCE ROAD STORM DRAINAGE
ER-2	ENTRANCE ROAD STORM DRAINAGE
ER-3	ENTRANCE ROAD STORM DRAINAGE
ER-4	ENTRANCE ROAD STORM DRAINAGE
ER-5	ENTRANCE ROAD STORM DRAINAGE
ER-6	ENTRANCE ROAD STORM DRAINAGE
ER-7	ENTRANCE ROAD STORM DRAINAGE
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P-1	CLASS I FIRE PUMP / HYDROTANK STORMWATER
WATER TREATMENT FACILITIES	
WT-1	WATER TREATMENT FACILITY
WT-2	WATER TREATMENT FACILITY
WT-3	WATER TREATMENT FACILITY
WT-4	WATER TREATMENT PLANT
ANCILLARY FACILITIES BUILDINGS	
201-711	ANCILLARY FACILITIES BUILDINGS PROVIDED BY THE HASKELL COMPANY
L-1 THRU L-4	ANCILLARY FACILITIES BUILDINGS PROVIDED BY THE HASKELL COMPANY

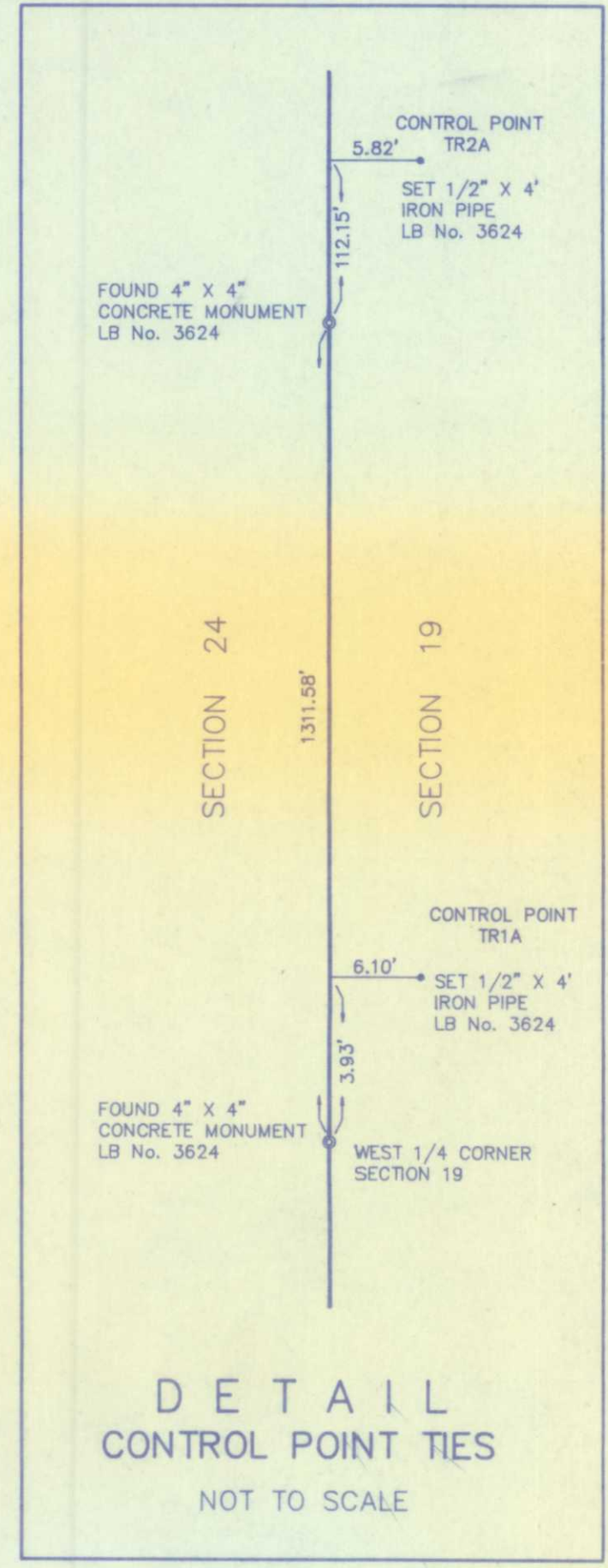
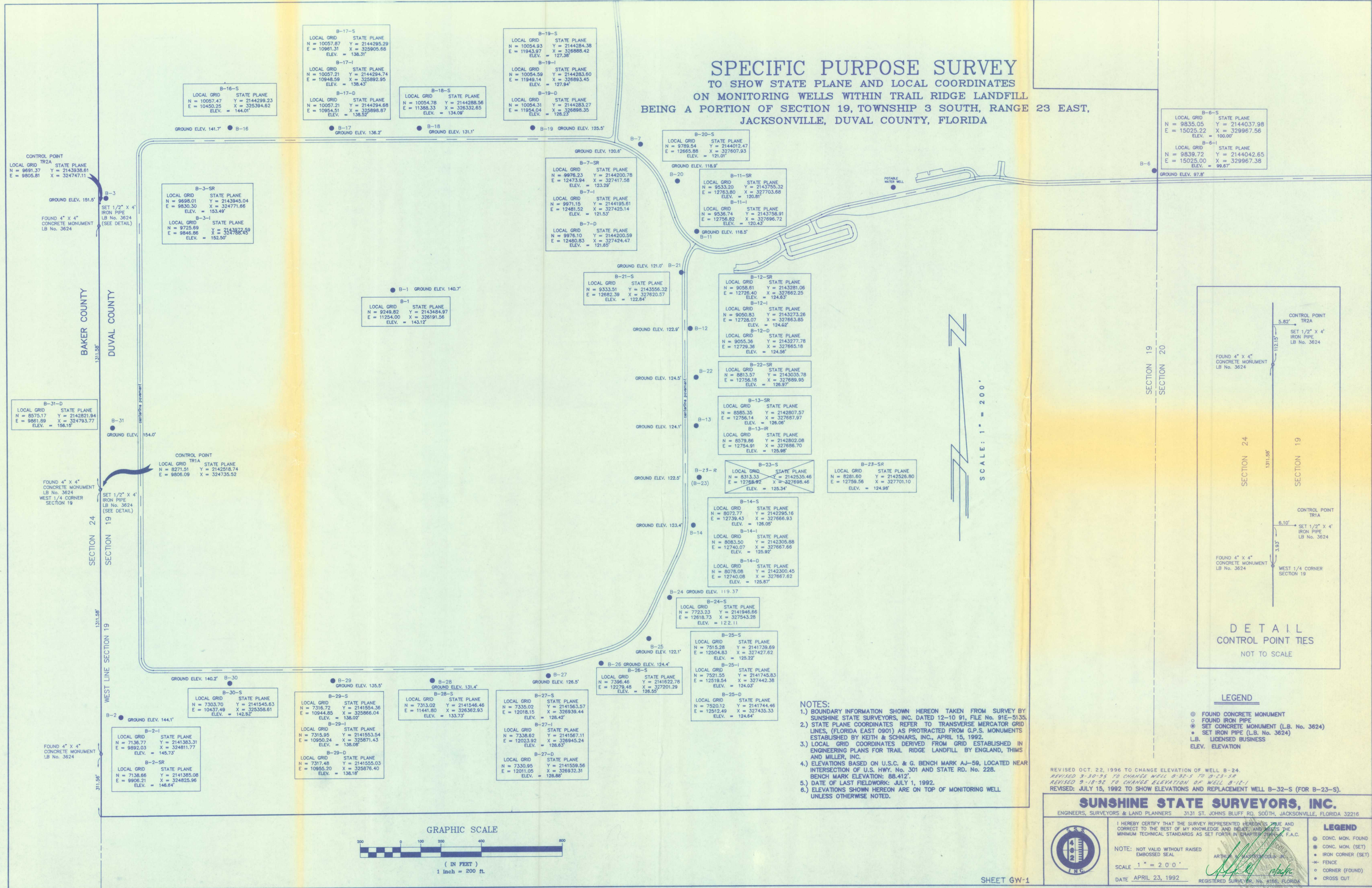
Sunshine State Surveyors, Inc.

DEC 23 1996

COVER SHEET NO. 1

SPECIFIC PURPOSE SURVEY

TO SHOW STATE PLANE AND LOCAL COORDINATES ON MONITORING WELLS WITHIN TRAIL RIDGE LANDFILL BEING A PORTION OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 23 EAST, JACKSONVILLE, DUVAL COUNTY, FLORIDA



- NOTES:**
- BOUNDARY INFORMATION SHOWN HEREON TAKEN FROM SURVEY BY SUNSHINE STATE SURVEYORS, INC. DATED 12-10-91, FILE NO. 91E-5135.
 - STATE PLANE COORDINATES REFER TO TRANSVERSE MERCATOR GRID LINES, (FLORIDA EAST 9901) AS PROTRACTED FROM G.P.S. MONUMENTS ESTABLISHED BY KEITH & SCHNARS, INC., APRIL 15, 1992.
 - LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS AND MILLER, INC.
 - ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. NO. 301 AND STATE RD. NO. 228. BENCH MARK ELEVATION: 88.412'.
 - DATE OF LAST FIELDWORK: JULY 1, 1992.
 - ELEVATIONS SHOWN HEREON ARE ON TOP OF MONITORING WELL UNLESS OTHERWISE NOTED.

REVISED OCT. 22, 1996 TO CHANGE ELEVATION OF WELL B-24.
 REVISED 3-30-95 TO CHANGE WELL B-32-S TO B-23-S.
 REVISED 9-18-92 TO CHANGE ELEVATION OF WELL B-11-1.
 REVISED: JULY 15, 1992 TO SHOW ELEVATIONS AND REPLACEMENT WELL B-32-S (FOR B-23-S).

SUNSHINE STATE SURVEYORS, INC.
 ENGINEERS, SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH IN CHAPTER 216, F.A.C.

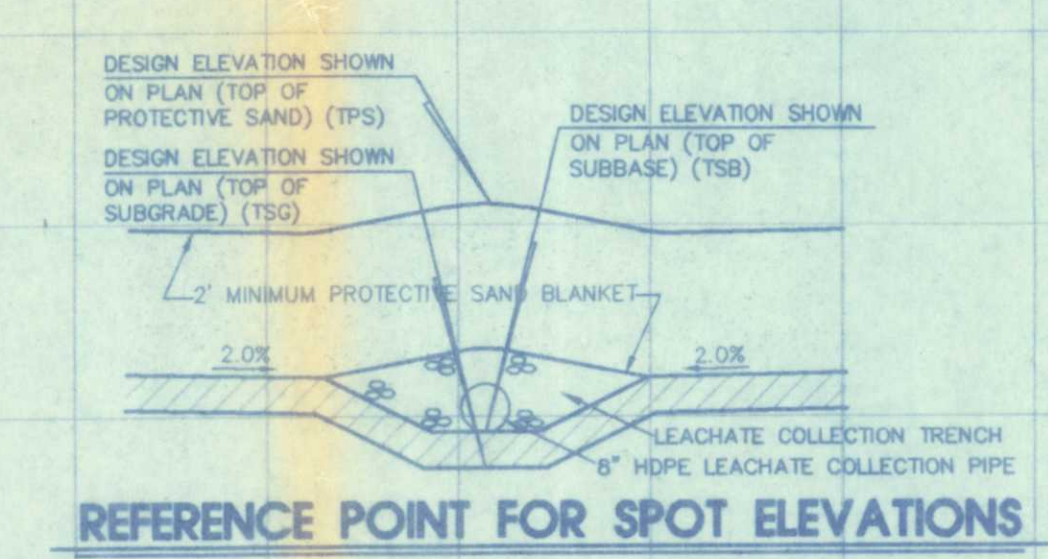
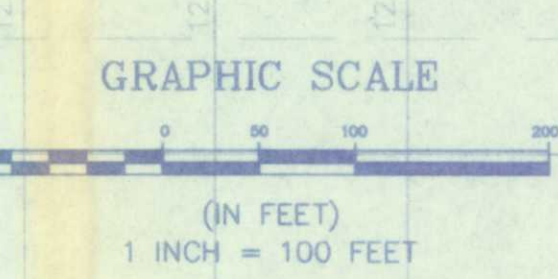
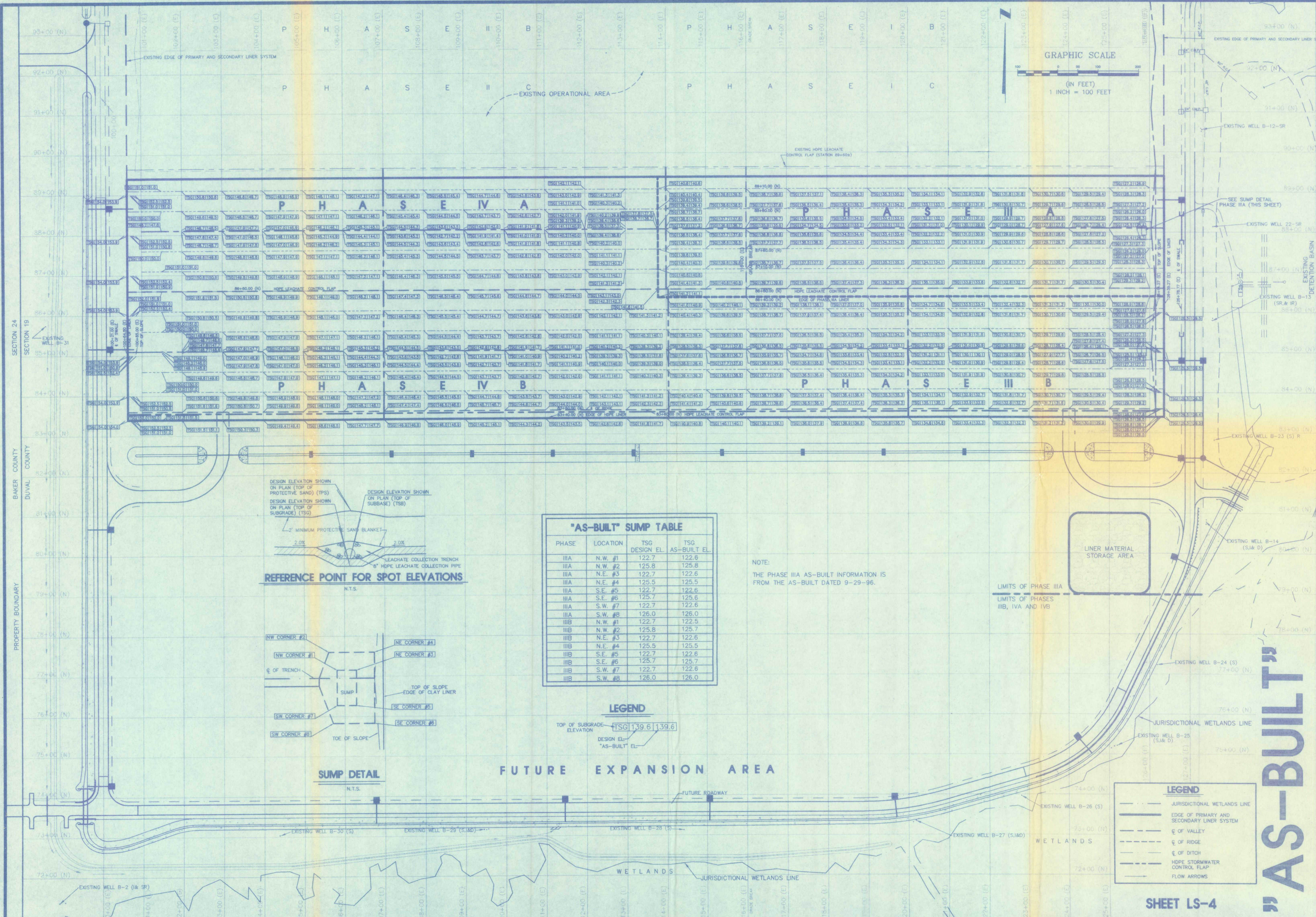
NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL

SCALE 1" = 200'

DATE APRIL 23, 1992

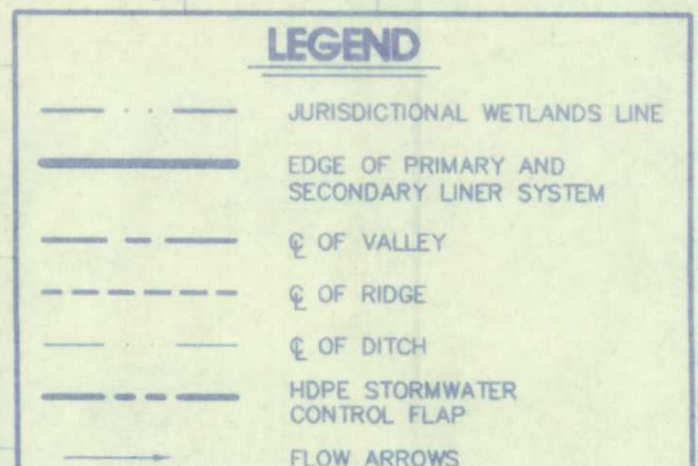
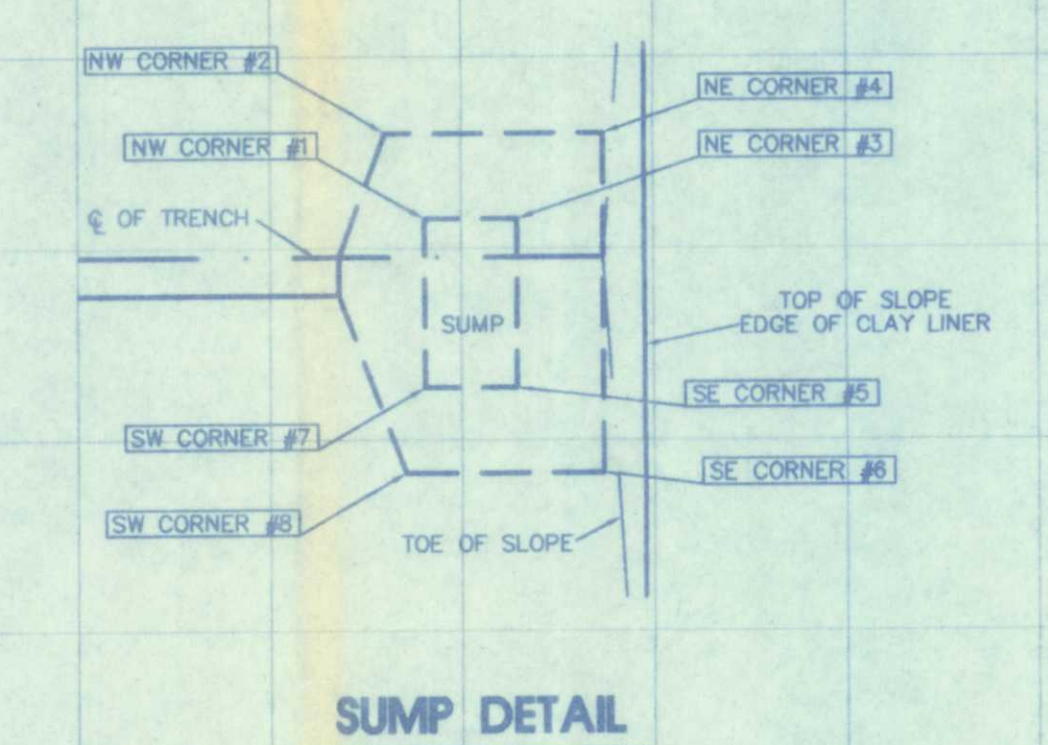
REGISTERED SURVEYOR, No. 4156, FLORIDA

C:\LANDFILL\TRAILRIDGE-BUILTUP-INC\BULLNER Thu Dec 19 21:17:33 1996



"AS-BUILT" SUMP TABLE			
PHASE	LOCATION	TSG DESIGN EL.	TSG AS-BUILT EL.
IIIA	N.W. #1	122.7	122.6
IIIA	N.W. #2	125.8	125.8
IIIA	N.E. #3	122.7	122.6
IIIA	N.E. #4	125.5	125.5
IIIA	S.E. #5	122.7	122.6
IIIA	S.E. #6	125.7	125.6
IIIA	S.W. #7	122.7	122.6
IIIA	S.W. #8	126.0	126.0
IIIB	N.W. #1	122.7	122.5
IIIB	N.W. #2	125.8	125.7
IIIB	N.E. #3	122.7	122.6
IIIB	N.E. #4	125.5	125.5
IIIB	S.E. #5	122.7	122.6
IIIB	S.E. #6	125.7	125.7
IIIB	S.W. #7	122.7	122.6
IIIB	S.W. #8	126.0	126.0

NOTE:
THE PHASE IIIA AS-BUILT INFORMATION IS FROM THE AS-BUILT DATED 9-29-96.



SHEET LS-4

REVISIONS:
12-10-96
AS-BUILT

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DATE: 12/19/96
SURVEYOR: [Signature]
AIR PHOTO: [Signature]

SECTION 19
SECTION 24
BAKER COUNTY
DUVAL COUNTY
PROPERTY BOUNDARY

EXISTING WELLS:
EXISTING WELL B-12-SR
EXISTING WELL B-22-SR
EXISTING WELL B-13 (SR & IR)
EXISTING WELL B-23 (S) R
EXISTING WELL B-14 (S) & (D)
EXISTING WELL B-24 (S)
EXISTING WELL B-25 (S) & (D)
EXISTING WELL B-26 (S)
EXISTING WELL B-27 (S) & (D)

WETLANDS
JURISDICTIONAL WETLANDS LINE

PHASES:
PHASE IIIA
PHASE IIIB
PHASE IVA
PHASE IVB

EXISTING HOPE LEACHATE CONTROL FLAP (STATION 89+60E)
HOPE LEACHATE CONTROL FLAP (STATION 88+700E)
HOPE LEACHATE CONTROL FLAP (STATION 87+210E)

EXISTING OPERATIONAL AREA

EXISTING EDGE OF PRIMARY AND SECONDARY LINER SYSTEM

EXISTING WELLS:
EXISTING WELL B-31
EXISTING WELL B-30 (S)
EXISTING WELL B-29 (S) & (D)
EXISTING WELL B-28 (S)

EXISTING WELLS:
EXISTING WELL B-2 (S) & (SR)
EXISTING WELL B-1 (S) & (SR)

EXISTING WELLS:
EXISTING WELL B-25 (S) & (D)
EXISTING WELL B-24 (S)
EXISTING WELL B-23 (S) & (D)
EXISTING WELL B-14 (S) & (D)
EXISTING WELL B-13 (SR & IR)
EXISTING WELL B-12-SR
EXISTING WELL B-22-SR

SEE SUMP DETAIL PHASE IIIA (THIS SHEET)

GRAPHIC SCALE
(IN FEET)
1 INCH = 100 FEET

LEGEND
JURISDICTIONAL WETLANDS LINE
EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
Ø OF VALLEY
Ø OF RIDGE
Ø OF DITCH
HOPE STORMWATER CONTROL FLAP
FLOW ARROWS

LEGEND
TOP OF SUBGRADE ELEVATION (TSG)
DESIGN EL. "AS-BUILT" EL.

LEGEND
TOP OF SLOPE
EDGE OF CLAY LINER
TOE OF SLOPE
NW CORNER #1
NE CORNER #3
SW CORNER #7
SE CORNER #5

DESIGN ELEVATION SHOWN ON PLAN (TOP OF PROTECTIVE SAND) (TPS)
DESIGN ELEVATION SHOWN ON PLAN (TOP OF SUBGRADE) (TSG)
2" MINIMUM PROTECTIVE SAND BLANKET
LEACHATE COLLECTION TRENCH 6" HOPE LEACHATE COLLECTION PIPE

"AS-BUILT" SUMP TABLE

NOTE:
THE PHASE IIIA AS-BUILT INFORMATION IS FROM THE AS-BUILT DATED 9-29-96.

LEGEND
TOP OF SUBGRADE ELEVATION (TSG) 139.6 | 139.6
DESIGN EL. "AS-BUILT" EL.

LEGEND
JURISDICTIONAL WETLANDS LINE
EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
Ø OF VALLEY
Ø OF RIDGE
Ø OF DITCH
HOPE STORMWATER CONTROL FLAP
FLOW ARROWS

SHEET LS-4

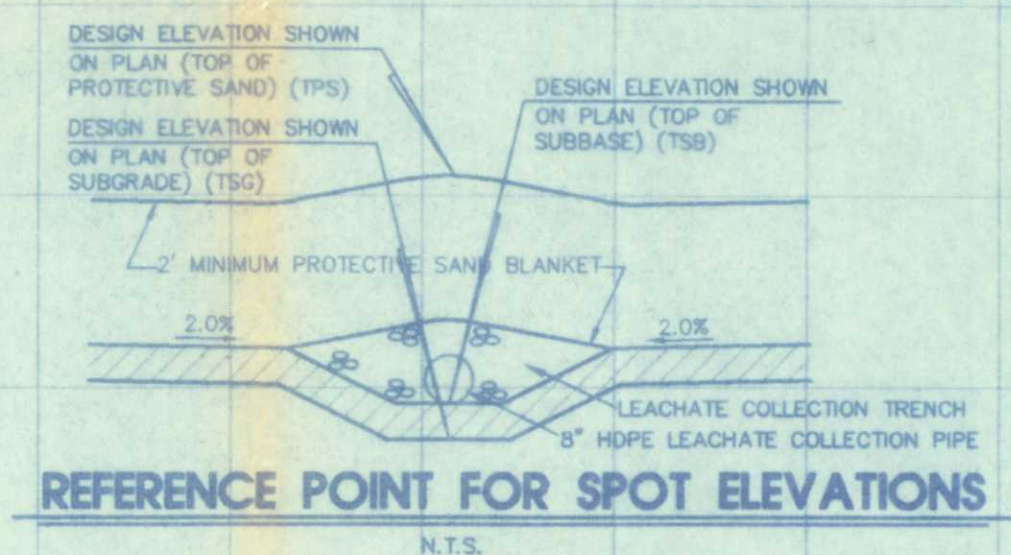
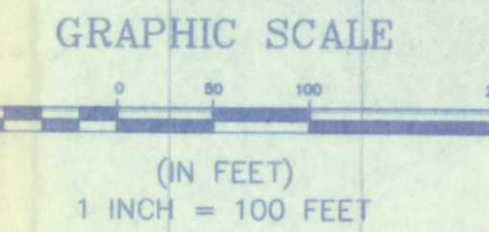
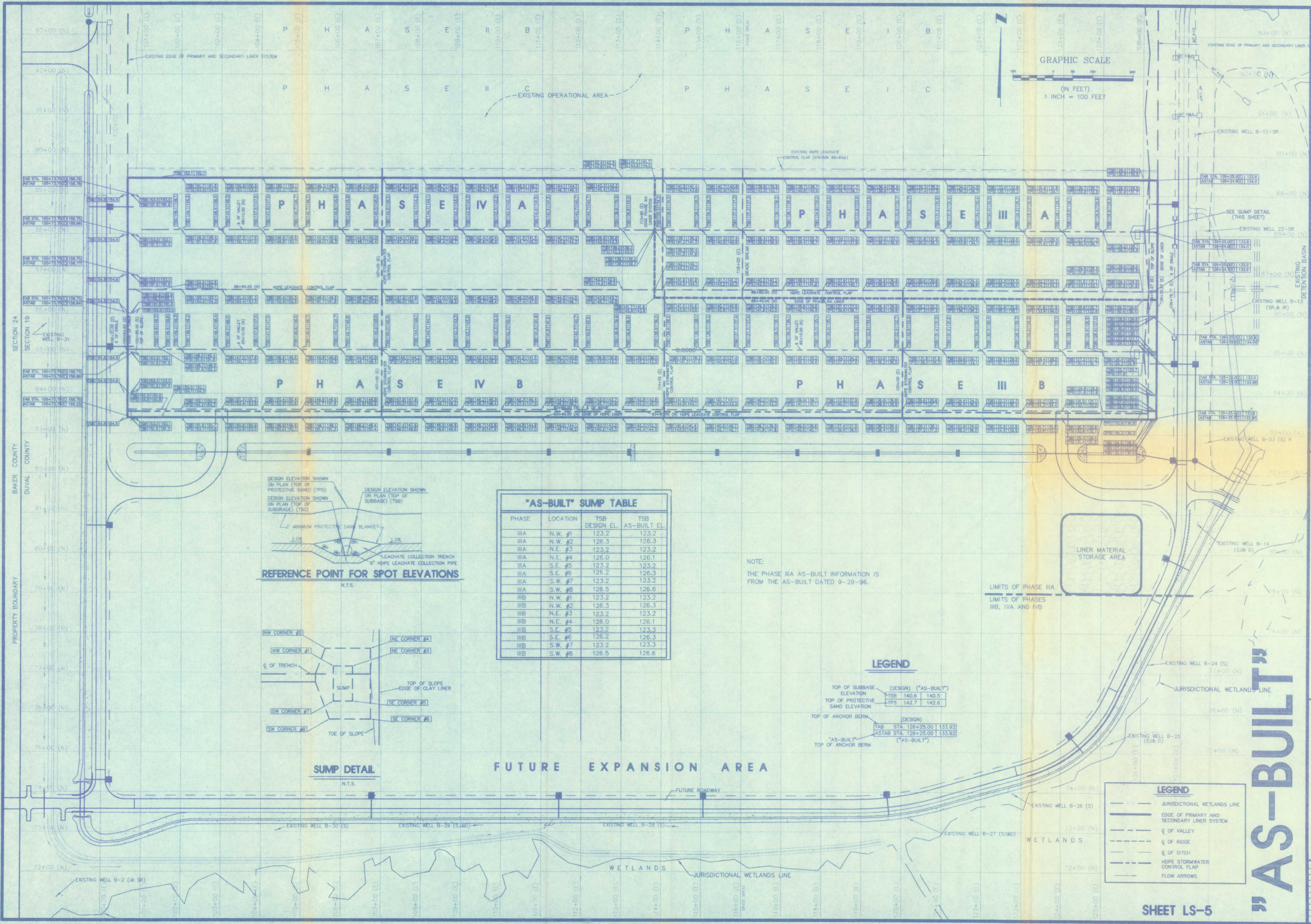
SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS
4131 ST. JOHN BLVD. SUITE 200
JACKSONVILLE, FLORIDA 32216
PHONE NUMBER (904) 442-8800
FAX NUMBER (904) 442-9488

RECORD
JOB NO.
DRAWN BY: SULL
CHECKED BY: A.A.M.
SCALE: 1" = 100'
RANGE: 33 EAST
COUNTY: DUVAL
FIELD BOOK:
FILE NUMBER:

LINER SYSTEM - SUBGRADE PHASES IIIA, IIIB, IVA AND IVB FOR TRAIL RIDGE LANDFILL INC. AND CITY OF JACKSONVILLE, FLORIDA

"AS-BUILT"

C:\LANDFILL\TRAIL AS-BUILT\DWG-INC\3ALINER Mod Dec. 18.23.17.22.1996



"AS-BUILT" SUMP TABLE			
PHASE	LOCATION	TSB DESIGN EL.	TSB AS-BUILT EL.
IIIA	N.W. #1	123.2	123.2
IIIA	N.W. #2	126.3	126.3
IIIA	N.E. #3	123.2	123.2
IIIA	N.E. #4	126.0	126.1
IIIA	S.E. #5	123.2	123.2
IIIA	S.E. #6	126.2	126.3
IIIA	S.W. #7	123.2	123.2
IIIA	S.W. #8	126.5	126.6
IIIB	N.W. #1	123.2	123.2
IIIB	N.W. #2	126.3	126.3
IIIB	N.E. #3	123.2	123.2
IIIB	N.E. #4	126.0	126.1
IIIB	S.E. #5	123.2	123.3
IIIB	S.E. #6	126.2	126.3
IIIB	S.W. #7	123.2	123.3
IIIB	S.W. #8	126.5	126.6

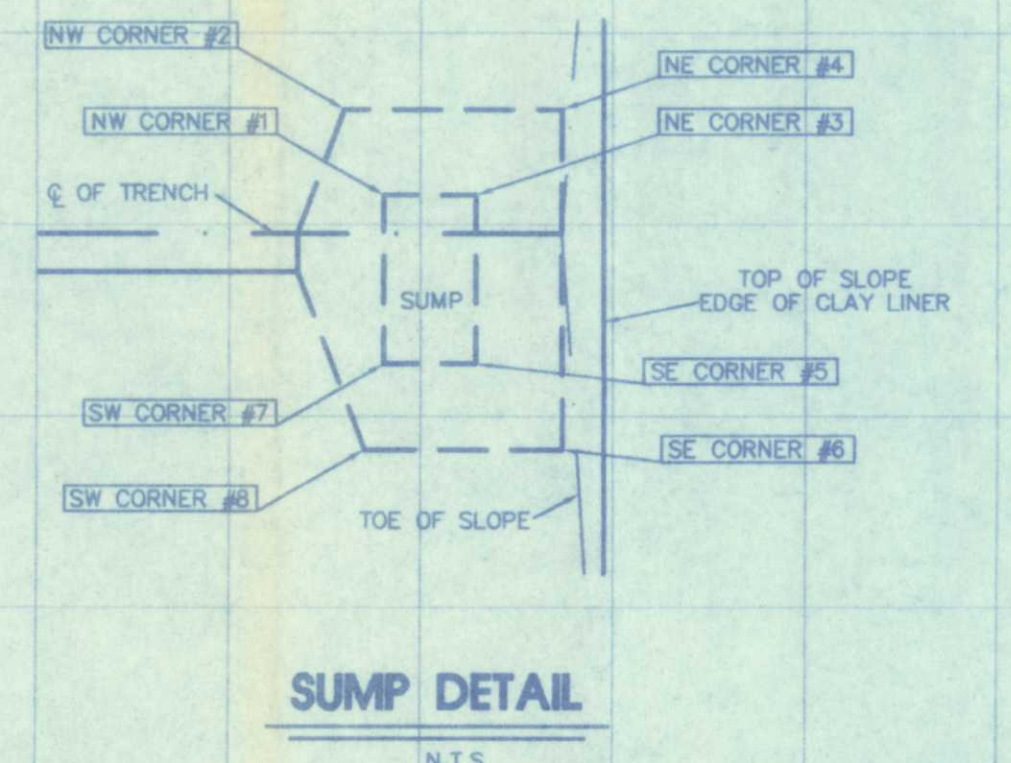
NOTE:
THE PHASE IIIA AS-BUILT INFORMATION IS FROM THE AS-BUILT DATED 9-29-96.

LEGEND

- TOP OF SUBBASE ELEVATION (DESIGN) ("AS-BUILT") TSB 140.6 140.5
- TOP OF PROTECTIVE SAND ELEVATION TPS 142.7 142.6
- TOP OF ANCHOR BERM (DESIGN) TAB STA. 126+25.00 133.92
- "AS-BUILT" TOP OF ANCHOR BERM ASTAB STA. 126+25.00 133.92

LEGEND

- JURISDICTIONAL WETLANDS LINE
- EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
- € OF VALLEY
- € OF RIDGE
- € OF DITCH
- HIDE STORMWATER CONTROL FLAP
- FLOW ARROWS



FUTURE EXPANSION AREA

REVISIONS:
12-16-96 ADDED THE PHASE IIIA, IVA & IVB AS-BUILTS AND RENUMBERED THE SHEET.

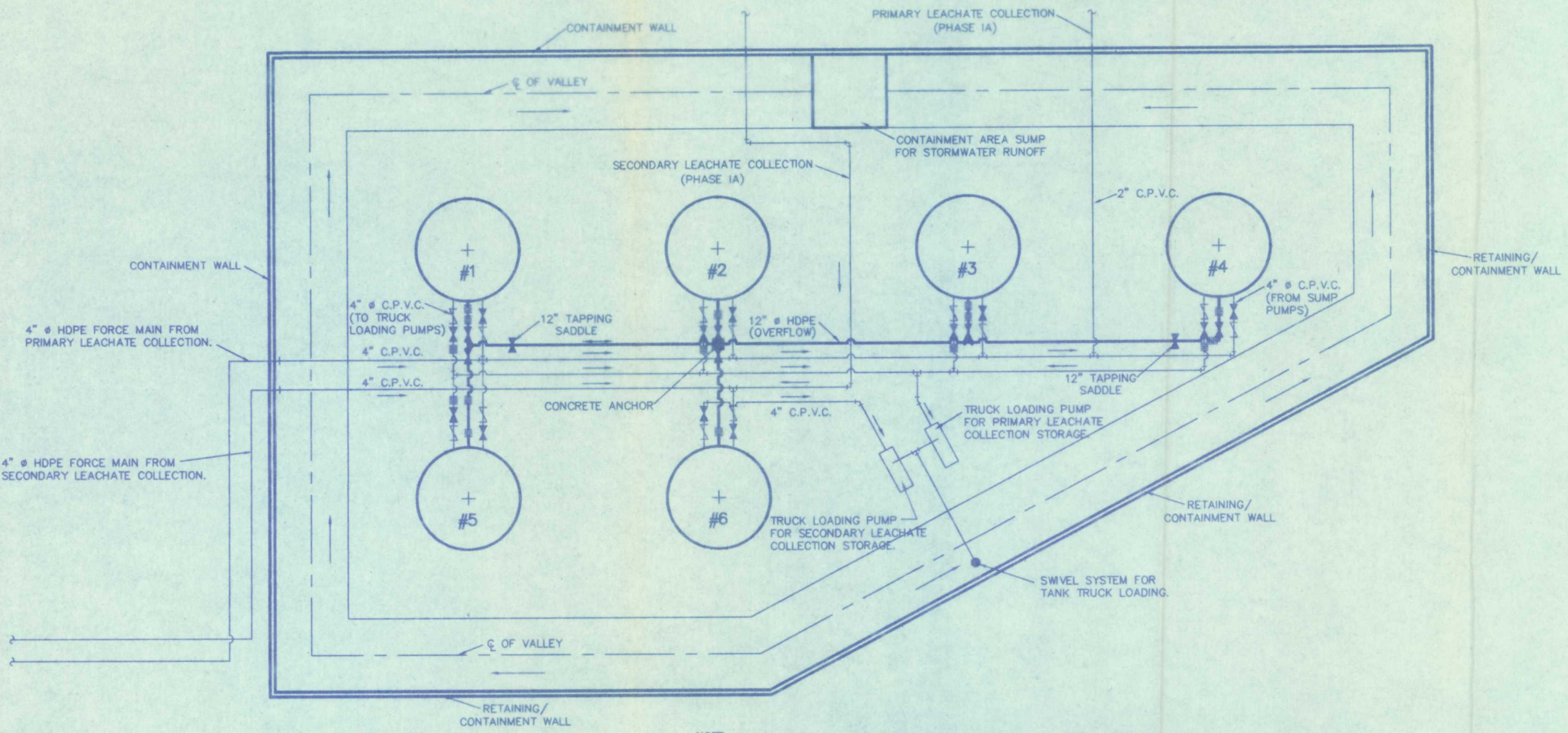
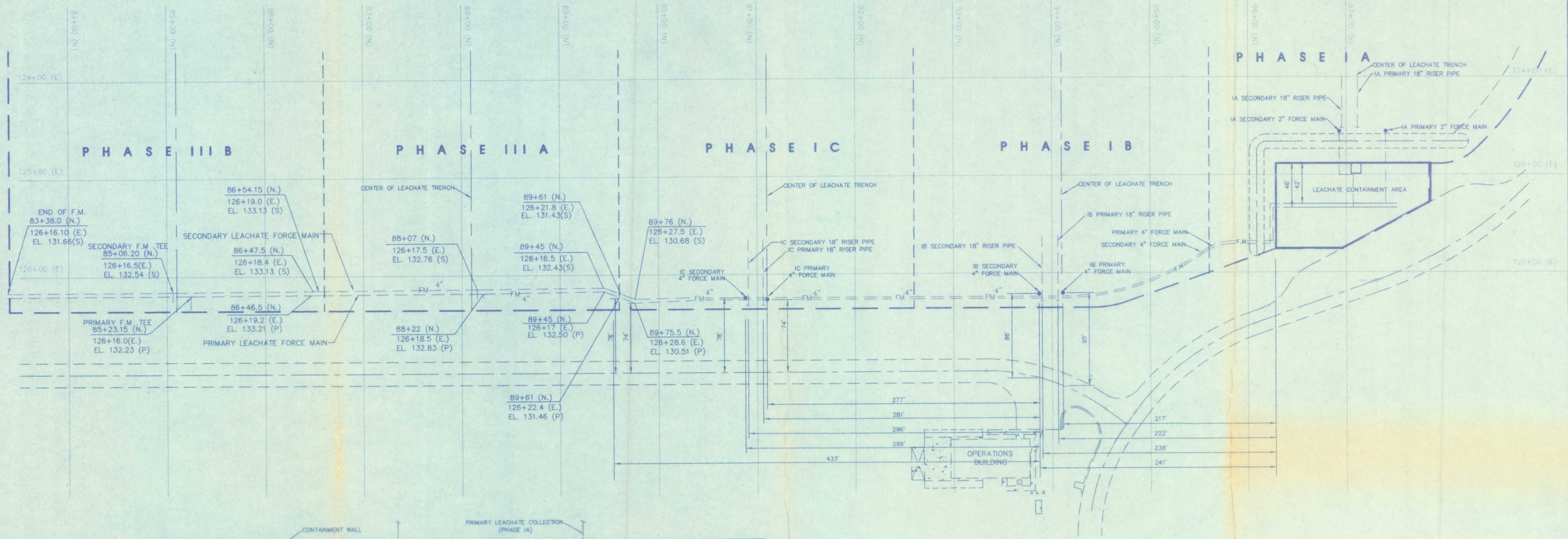
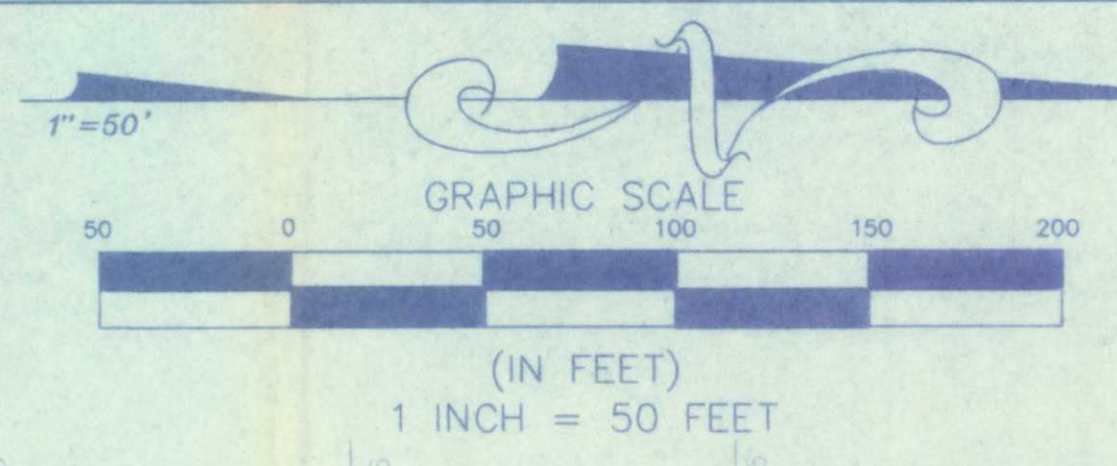
NOT VALID WITHOUT THE SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
DATE: 12/16/96
AR TH: [Signature]
FLA REG SURVEYOR NO. 4166

SUNSHINE STATE SURVEYORS, INC.
BRANDON & LARRY PLANNERS
313 ST. JOHN BLVD. SUITE 100
JACKSONVILLE, FLORIDA 32248
PHONE NUMBER (904) 942-8800
FAX NUMBER (904) 942-4400

RECORD
ORDER NO.
CAD FILE: 3ALINER
DRAWN BY: S.A.L.
CHECKED BY: A.A.M.
SCALE: 1" = 100'
RANGE: 23 EAST
COUNTY: DUVAL
FIELD BOOK:
FILE NUMBER:

"AS-BUILT"

LINER SYSTEM - CLAY & SAND PHASES IIIA, IIIB, IVA AND IVB
TRAIL RIDGE LANDFILL FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



LEGEND

—FM—	4"	LEACHATE FORCE MAIN
- - -		LIMITS OF LINER SYSTEM
—		℄ OF VALLEY
—		℄ OF RIDGE
—		℄ OF DITCH
(P)		PRIMARY LEACHATE FORCE MAIN
(S)		SECONDARY LEACHATE FORCE MAIN

NOTE:
 1. ALL DIMENSIONS SHOWN FOR PHASES I AND II WERE PROVIDED BY JAX. UTILITIES CONSTRUCTION.
 2. ALL DIMENSIONS SHOWN FOR PHASES IIIA AND IIIB WERE PROVIDED BY J.B. COXWELL CONTRACTING, INC.
 3. MAPPING DONE BY SUNSHINE STATE SURVEYORS, INC. WAS NOT FIELD SURVEYED.

NOTE:
 TANKS #1-#5 ARE FOR PRIMARY LEACHATE COLLECTION STORAGE, TANK #6 IS FOR SECONDARY LEACHATE COLLECTION STORAGE.
 —|—|—|— EXPANSION COUPLING
 —|—|—|— SPRING LEVERED CPVC CHECK VALVE
 —|—|—|— CPVC BUTTERFLY VALVE

LEACHATE STORAGE, PUMPING AND CONTAINMENT

N.T.S.

REVISIONS:
 1-24-93 PHASE IA AS-BUILT
 1-24-93 ADDED EXPANSION JOINTS, CONCRETE ANCHOR, AND REMOVED
 9-26-95 ADDED PHASE IIIA AS-BUILTS
 12-16-96 ADDED PHASE IIIB AS-BUILTS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DATE: *12/16/96*

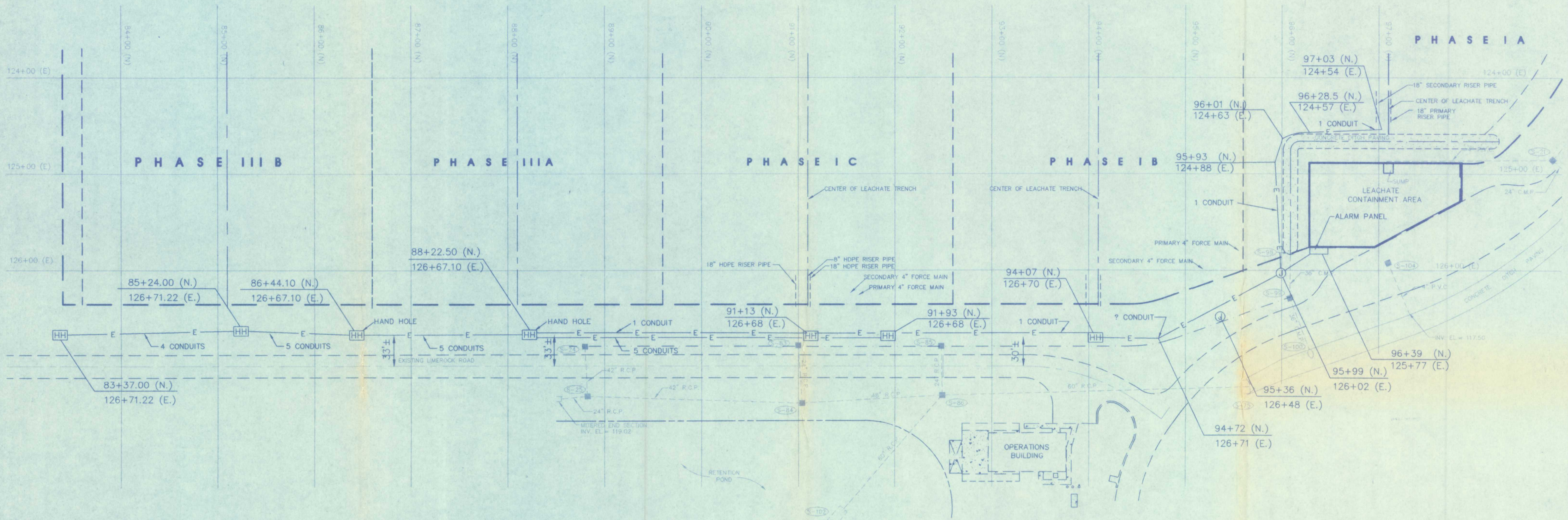
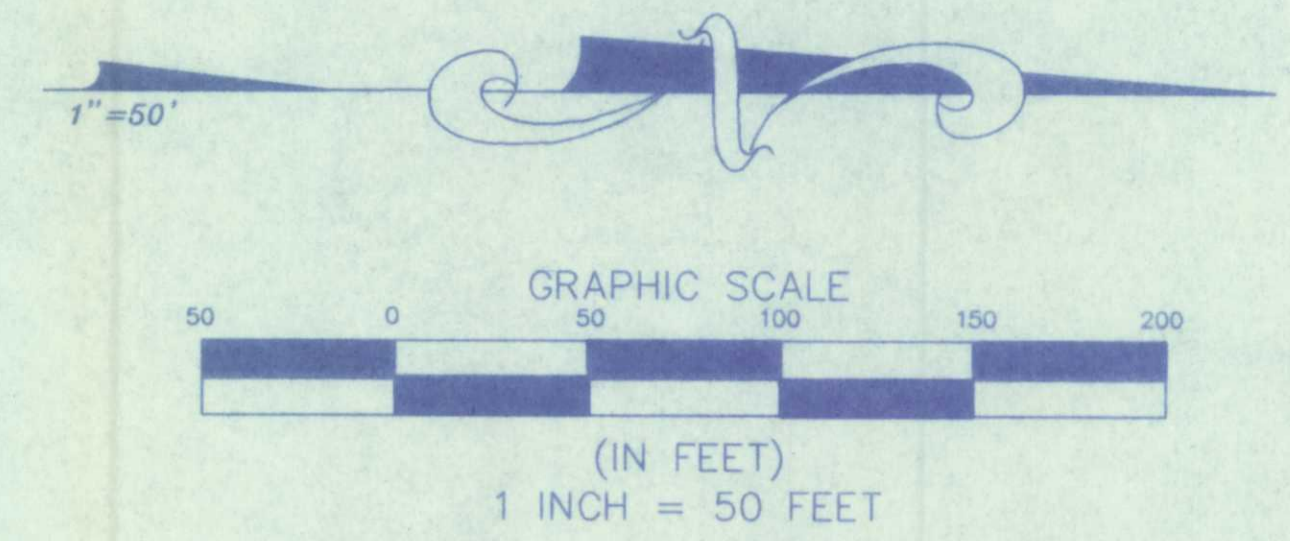
**LEACHATE FORCE MAIN
 PRIMARY AND SECONDARY**
**TRAIL RIDGE LANDFILL
 FOR TRAIL RIDGE LANDFILL INC. AND
 CITY OF JACKSONVILLE, FLORIDA**

**SUNSHINE STATE
 SURVEYORS, INC.**
 SURVEYORS & LAND PLANNERS
 2831 ST. JOHN'S BLVD. #200
 JACKSONVILLE, FLORIDA 32246
 PHONE NUMBER (904) 642-6800
 FAX NUMBER (904) 646-1485



RECORD
 ORDER NO. 95-285-07
 CAD FILE: ELEC-FM
 DRAWN BY: S.E.H.
 CHECKED BY: A.A.M.
 SCALE: 1" = 50'
 RANGE: 23 EAST
 COUNTY: DUVAL
 FIELD BOOK: N/A
 FILE NUMBER:

"AS-BUILT"



LEGEND

- HH HAND HOLE
- J JUNCTION BOX
- E — PHASE III A ELECTRICAL CONDUIT
- — — — — LIMITS OF LINER SYSTEM
- — — — — ϕ OF VALLEY
- — — — — ϕ OF RIDGE
- — — — — ϕ OF DITCH

NOTE:

1. ALL DIMENSIONS SHOWN FOR PHASES I AND II WERE PROVIDED BY JAX UTILITIES CONSTRUCTION.
2. ALL COORDINATES SHOWN FOR PHASES IIIA WERE PROVIDED BY J.B. COXWELL CONTRACTING, INC.
3. MAP PREPARED BY SUNSHINE STATE SURVEYORS, INC.

REVISIONS:
12/16/96 ADDED PHASE III-B AS-BUILTS

DATE: 9-28-95

ELECTRICAL
TRAIL RIDGE LANDFILL, INC. AND
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE, FLORIDA

SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS
3331 ST. JOHN'S BLUFF RD. SOUTH,
JACKSONVILLE, FLORIDA 32246
PHONE NUMBER: (904) 944-8550
FAX NUMBER: (904) 944-7448

ORDER NO.	
CAD FILE:	ELEC-FW
DRAWN BY:	CST
CHECKED BY:	S.J.L.
SCALE:	1" = 50'
RANGE:	23 EAST
COUNTY:	DUVAL
FIELD BOOK:	N.A.
FILE NUMBER:	

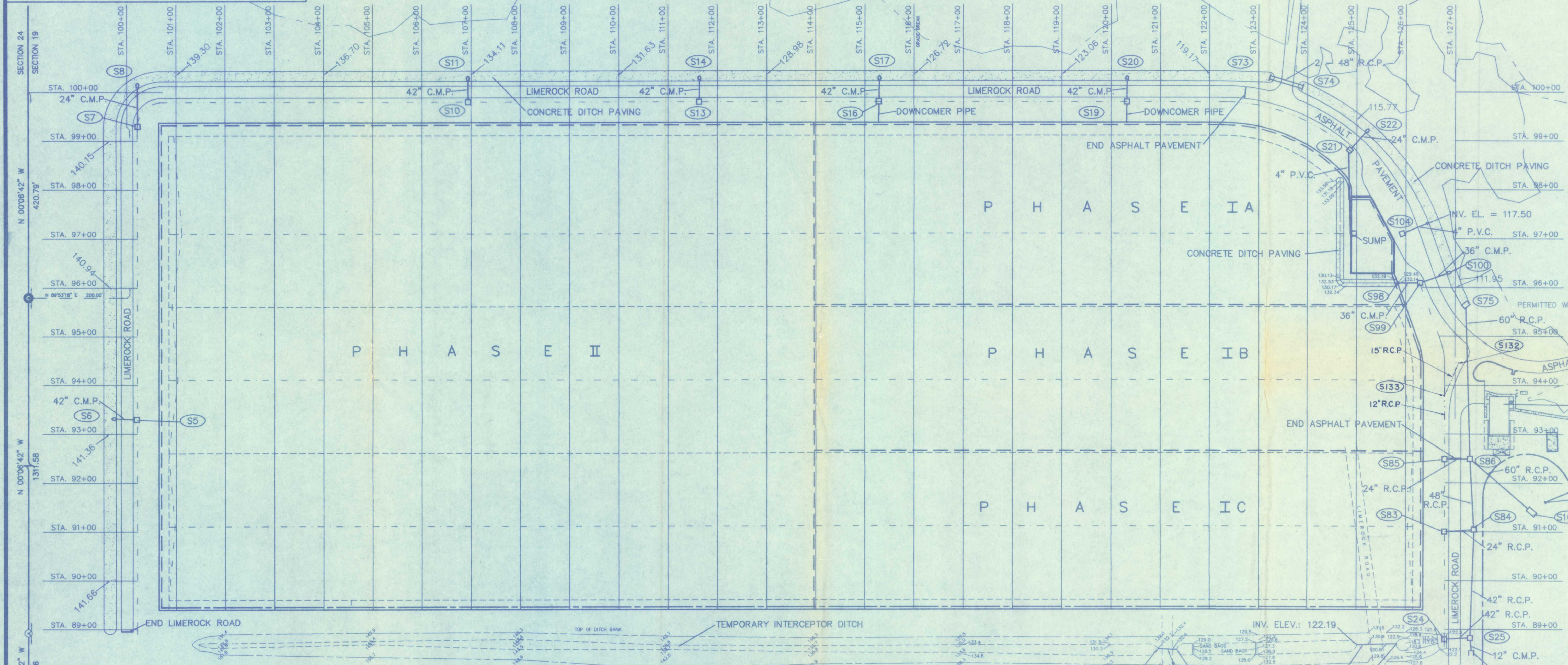
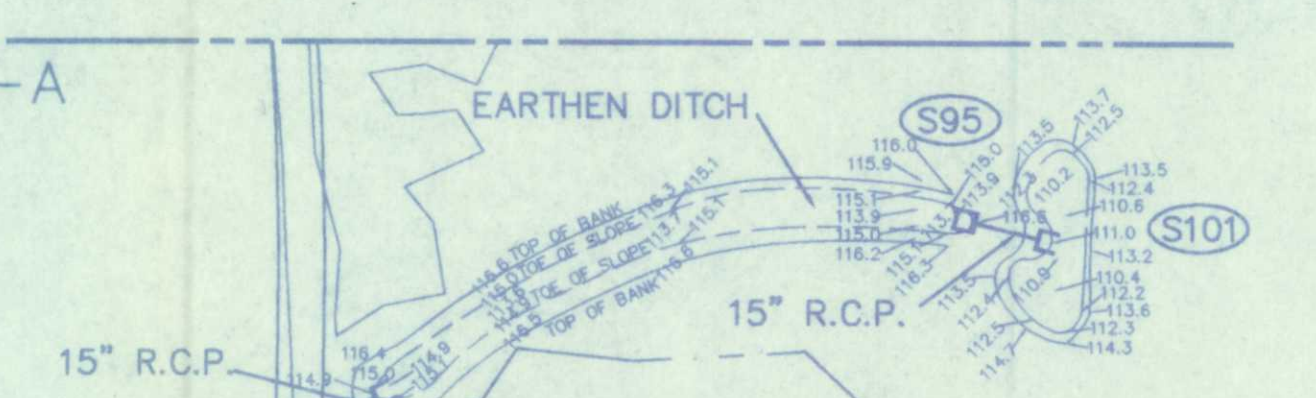
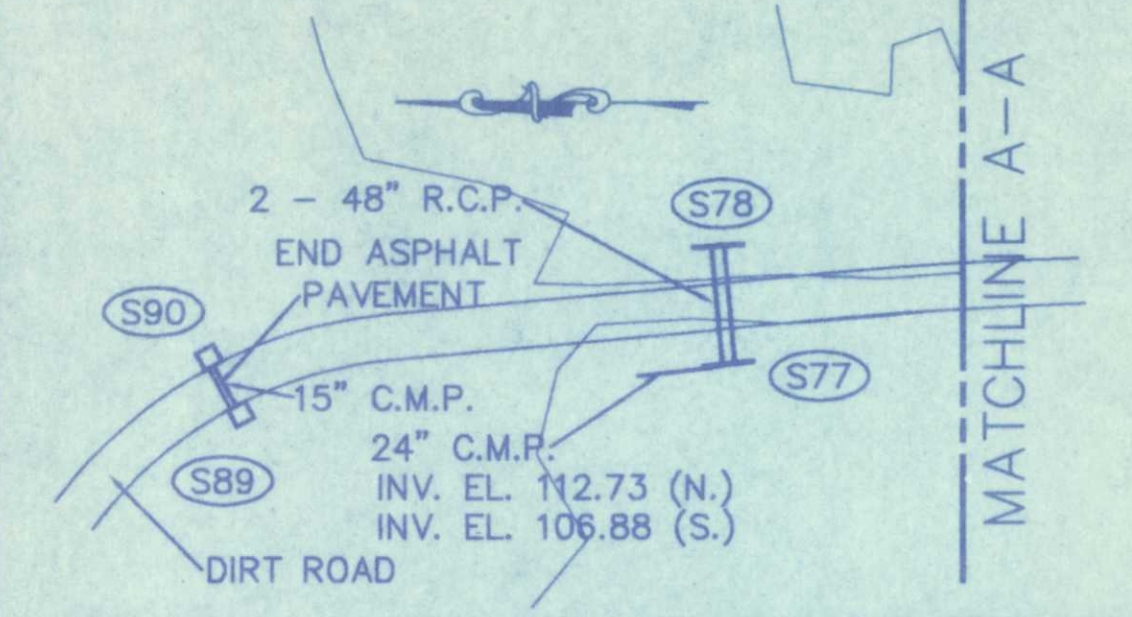
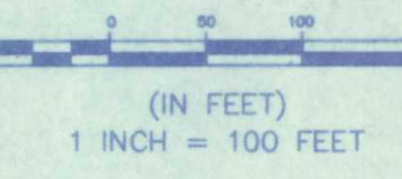
SHEET E-2

"AS-BUILT"

I:\Survey\SUNSHINE\TRAILRIDGE\ELEC-FW Mon Dec 23 23:05:17 1996

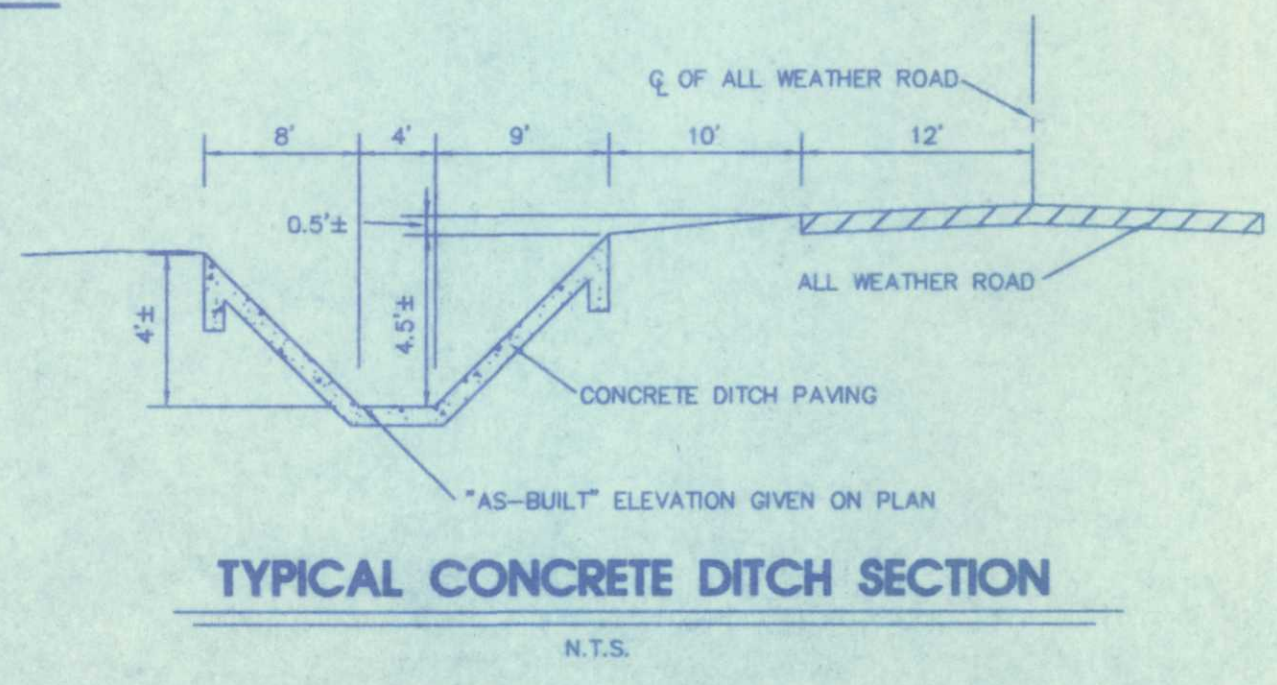
MATCHLINE A-A

GRAPHIC SCALE



"AS-BUILT"

SHEET D-2



NOTE: SEE SHEET D1 FOR INVERTS, STATIONS, AND OTHER AS-BUILT INFORMATION FOR THE STORMWATER DRAINAGE STRUCTURES.

- LEGEND**
- *AS-BUILT* SPOT ELEVATION
 - PHASE LINE
 - EDGE OF LINER
 - C/L OF VALLEY
 - C/L OF RIDGE
 - C/L OF DITCH
 - *AS-BUILT* STORM STRUCTURE WITH PIPES
 - *AS-BUILT* MITERED END SECTION WITH STORM PIPES
 - STRUCTURE NUMBER

DATE:	COMMENTS:
12-16-96	ADDED STRUCTURES No. S132 & S133
1-12-93	RESHOT N.W. CONCRETE DITCH PAVING ELEVATIONS DUE TO CONCRETE DITCH REPLACEMENT
9-11-92	PHASE IA AS-BUILT

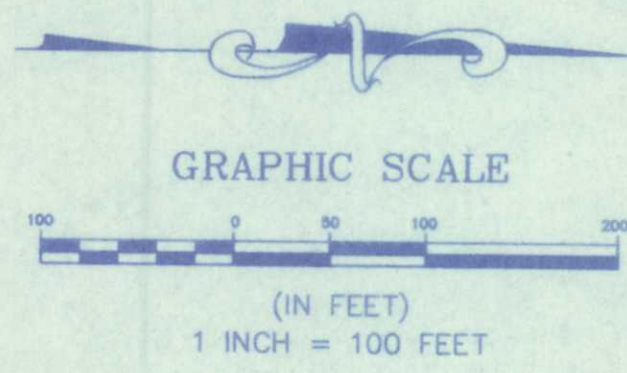
I HEREBY CERTIFY THAT THE CONCRETE DITCH PAVING, EARTHEN DITCH, DETENTION POND AND DRAINAGE STRUCTURES AS SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21-HFS FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

ARTHUR PASARONICOLA JR., FLA. REG. SURVEYOR NO. 4166

DRAINAGE STRUCTURE AS-BUILT PHASE I AND PHASE II FOR TRAIL RIDGE LANDFILL JACKSONVILLE, DUVAL COUNTY, FLORIDA



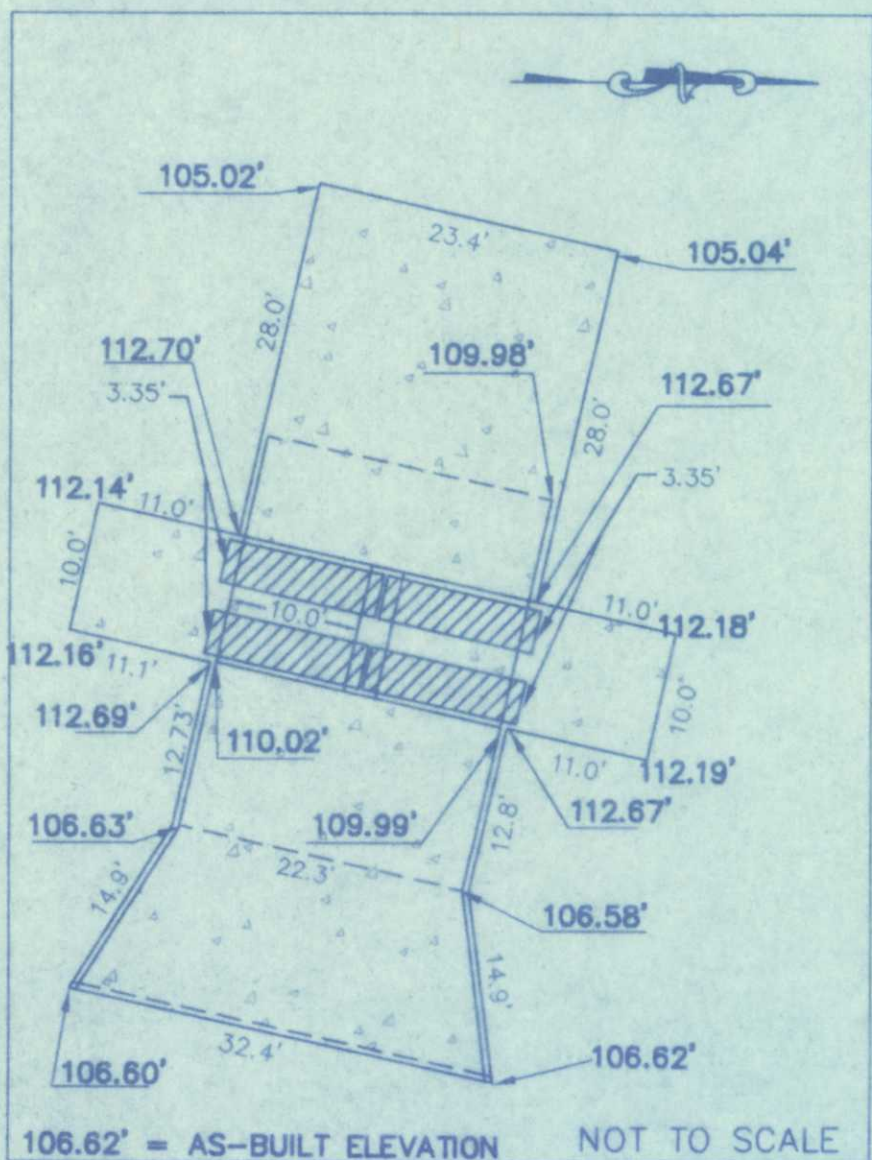
SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246
(904) 642-8550



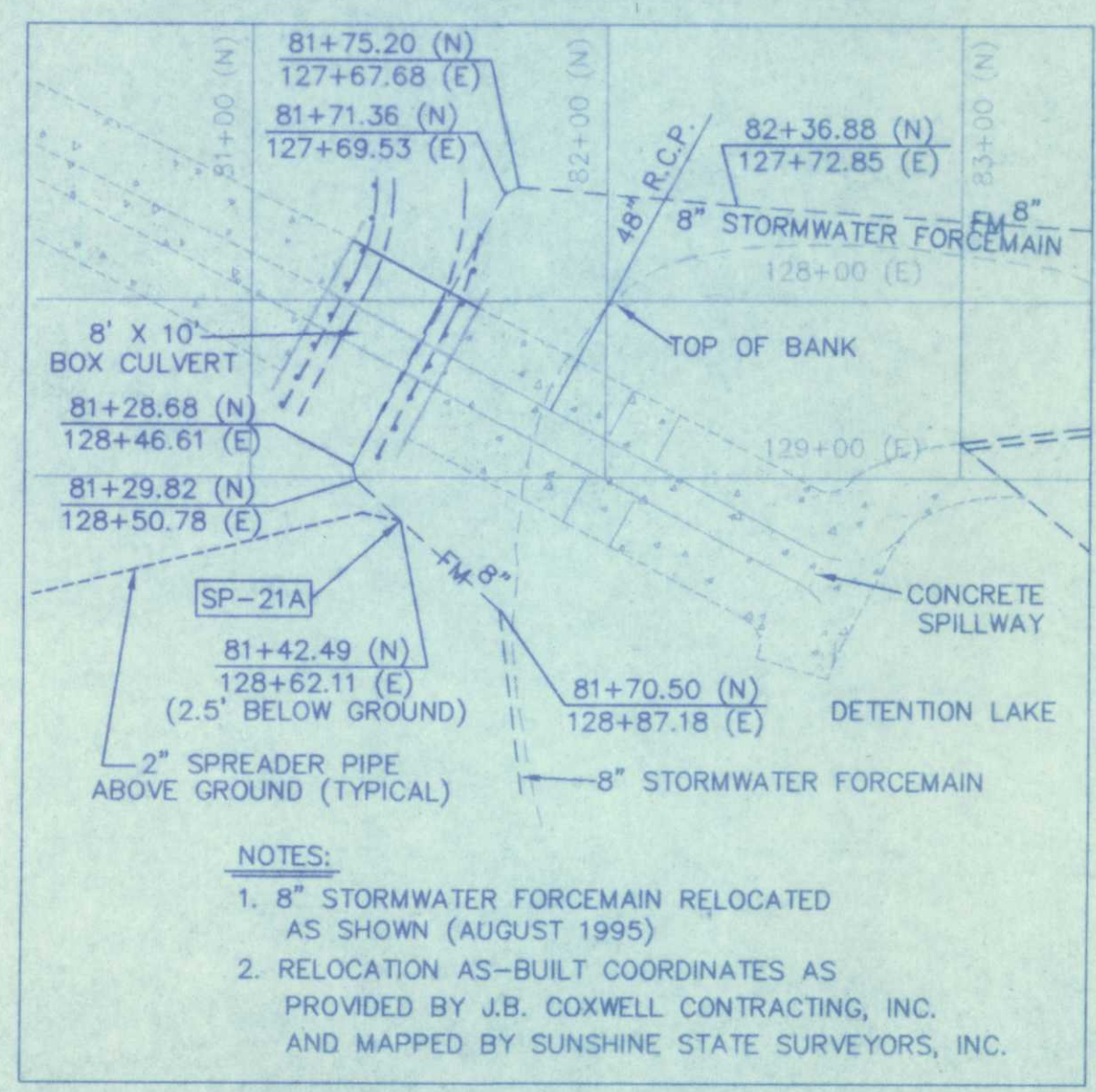
NOTE:
SEE SHEET D-1, D-6, A-1 AND A-2 FOR INVERTS, STATIONS AND OTHER AS-BUILT INFORMATION FOR THE STORMWATER DRAINAGE STRUCTURES, AND THE 8" P.V.C. SPREADER PIPE.

- LEGEND**
- 124.0 "AS-BUILT" SPOT ELEVATION
 - 150- DESIGN CONTOUR
 - S93 "AS-BUILT" TOP OF BANK STRUCTURE NUMBER
 - AS-BUILT STORM INLET WITH PIPES
 - AS-BUILT STORM CULVERT
 - SP-13 SPREADER PIPE NUMBER
 - FM 8" "AS-BUILT" 8" P.V.C. STORMWATER FORCEMAIN
 - AS-BUILT 2" P.V.C. SPREADER PIPE

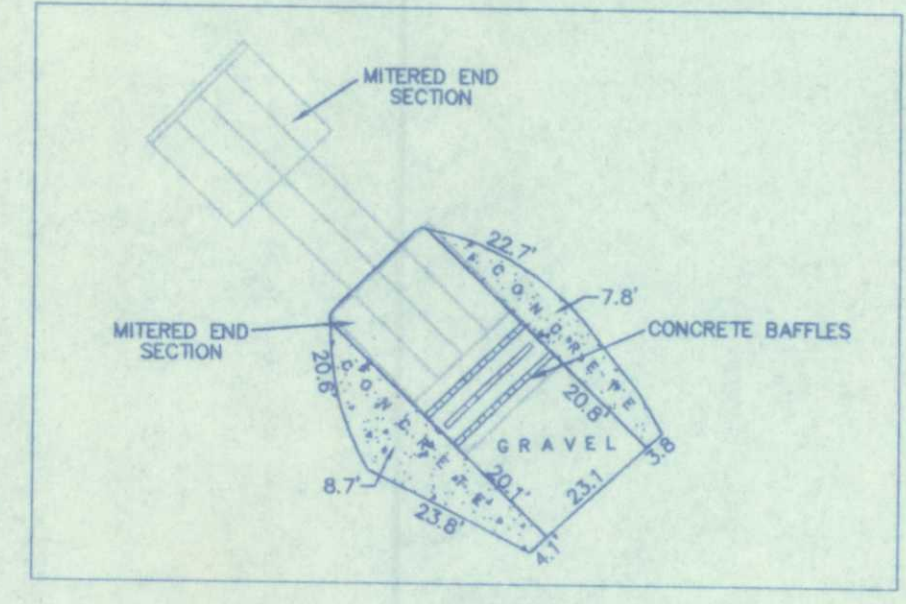
EMERGENCY SPILLWAY DETAIL



STORMWATER FORCEMAIN DETAIL



DITCH PAVING DETAIL



SHEET D-3

DATE:	COMMENTS
12-16-96	REVISED TO SHOW EMERGENCY SPILLWAY
9-27-95	REVISED TO SHOW RELOCATION OF 8" FORCEMAIN
1-26-93	REVISED TO ADD TIRE STORAGE AREA, BYPASS ROAD AND OPERATIONS BUILDING AS-BUILTS.
12-12-92	REVISE AS-BUILT TOPO ALONG EAST END OF POND
11-24-92	DITCH PAVING AS-BUILT
9-11-92	PHASE IA AS-BUILT

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

ARTHUR A. MASTRONICOLA JR., FLA. REG. SURVEYOR NO. 4156

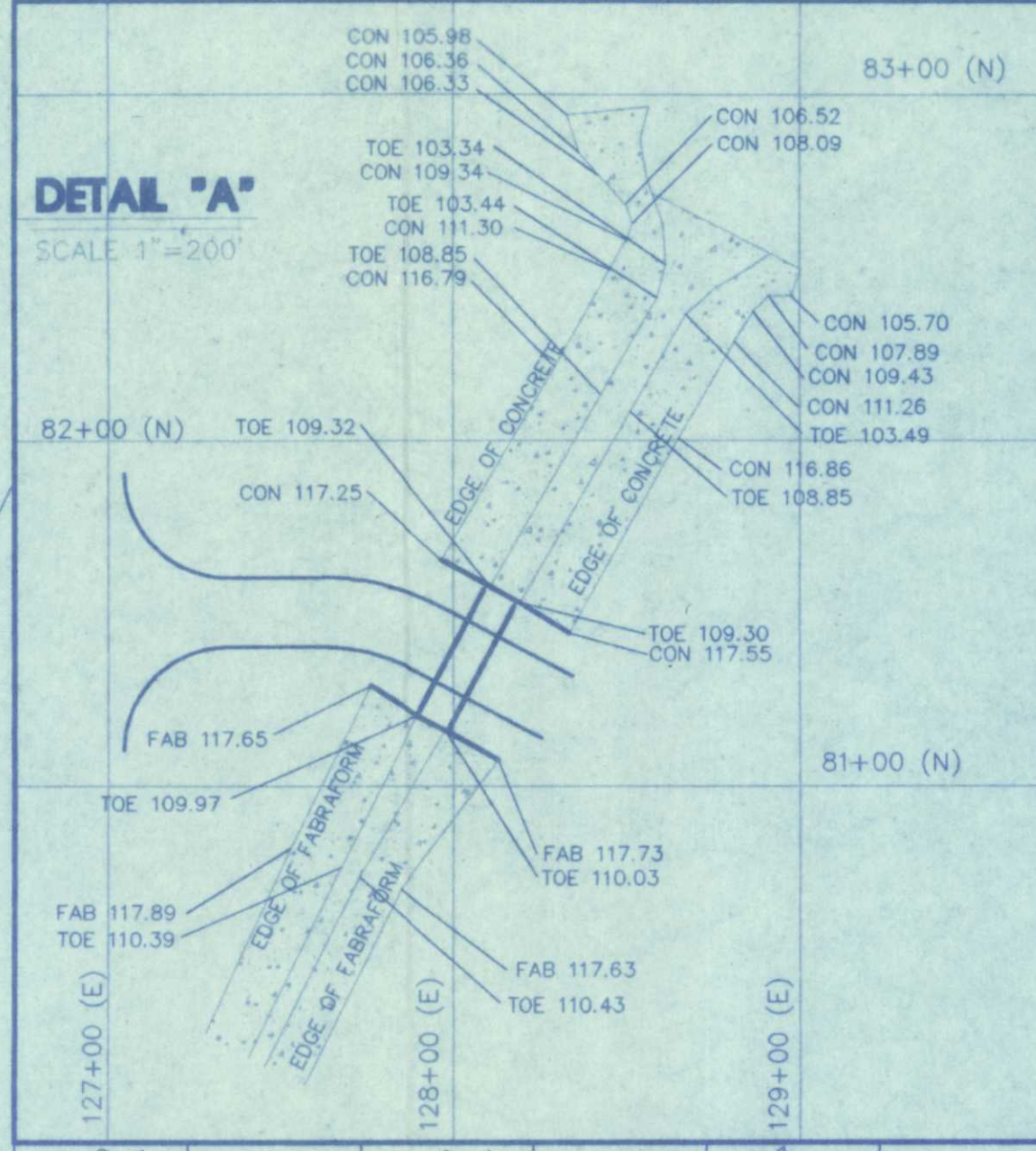
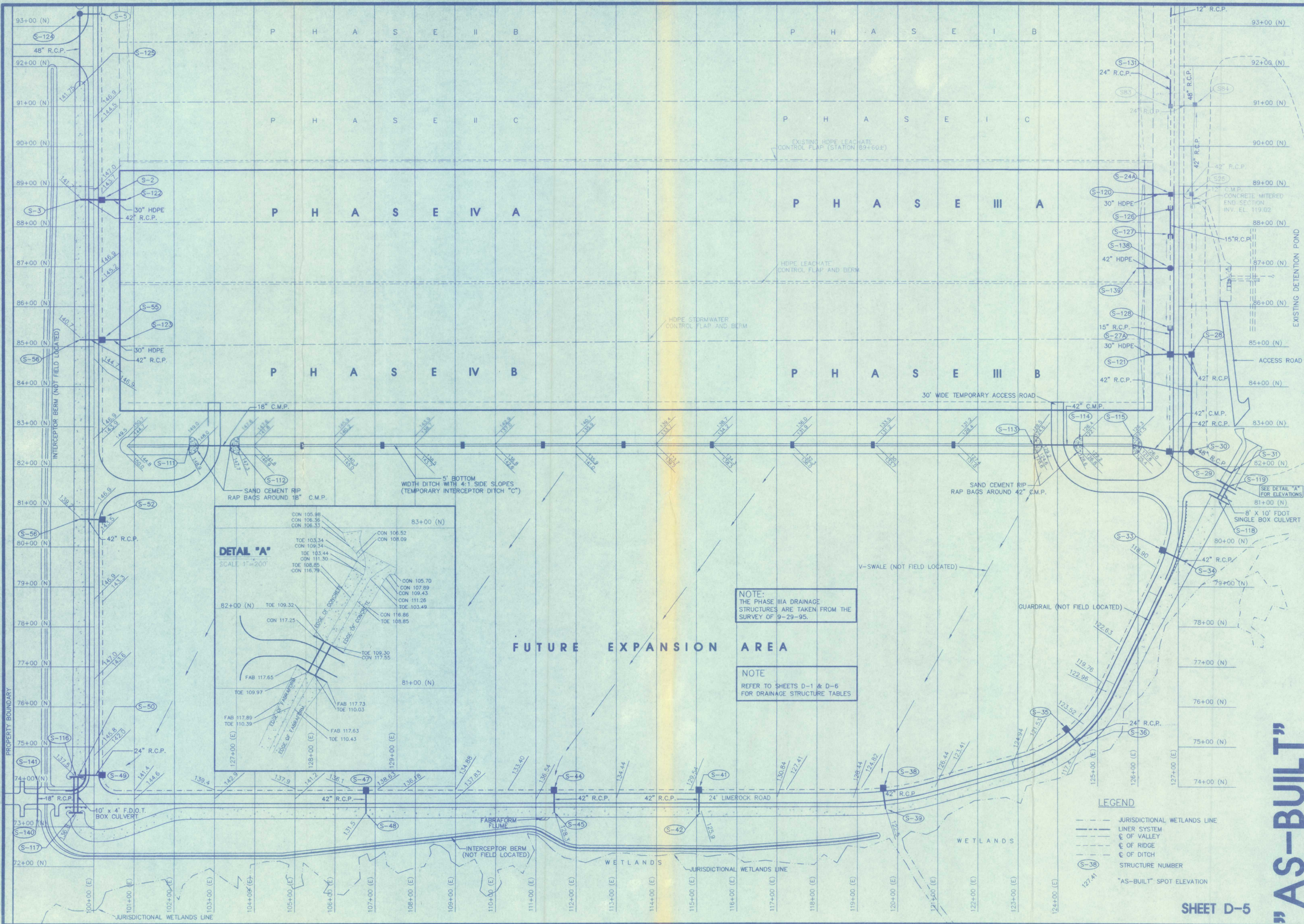
"AS-BUILT"

DETENTION LAKE FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



SUNSHINE STATE SURVEYORS, INC.
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246
(904) 642-8550

1:\Survey\Sunshine\TrailRidge\3ASTRCS Mod.Dwg 23.14.02.02.1995



NOTE:
THE PHASE IIIA DRAINAGE
STRUCTURES ARE TAKEN FROM THE
SURVEY OF 9-29-95.

NOTE
REFER TO SHEETS D-1 & D-6
FOR DRAINAGE STRUCTURE TABLES

- LEGEND**
- JURISDICTIONAL WETLANDS LINE
 - LINER SYSTEM
 - OF VALLEY
 - OF RIDGE
 - OF DITCH
 - (S-38) STRUCTURE NUMBER
 - "AS-BUILT" SPOT ELEVATION

REVISIONS:
12/16/99 ADDED DRAINAGE STRUCTURES FOR PHASES IIIA, IIB, IVA, IVB.
NOT VALID WITHOUT THE SURVEYOR'S SEAL AND THE ORIGINAL RAISED SEAL OF A LICENSED SURVEYOR AND MAPPER.
DATE: *12/16/99*
ARTHUR A. WASHINGTON, JR., P.L.L.C. REG. SURVEYOR NO. 4166

**DRAINAGE STRUCTURES
PHASES IIIA, IIB, IVA AND IVB
FOR TRAIL RIDGE LANDFILL, INC. AND
CITY OF JACKSONVILLE, FLORIDA**

**SUNSHINE STATE
SURVEYORS, INC.**
SURVEYORS & LAND PLANNERS
331 ST. JOHN BELLY RD. SOUTH,
JACKSONVILLE, FLORIDA 32248
PHONE NUMBER (904) 642-1000
FAX NUMBER (904) 642-1005

RECORD
ORDER NO. 95-285-07
CAD FILE: BALNER
DRAWN BY: SEHL
CHECKED BY: A.A.M.
SCALE: 1" = 100'
RANGE: 23 EAST
COUNTY: DUVAL
FIELD BOOK:
FILE NUMBER:

SHEET D-5

"AS-BUILT"

DRAINAGE STRUCTURE TABLE						
STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.		SLOT EL.		STATION
		AS-BUILT	DESIGN	AS-BUILT	DESIGN	
S-2	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	141.26 (30" HDPE E)	141.26 (30" HDPE E)	88+87.00 (N) 100+21.00 (E)
S-3	CONST. MITERED END INTO DITCH PAVING	-	-	141.26 (42" R.C.P. E)	141.26 (42" R.C.P. E)	88+87.00 (N) 99+63.00 (E)
S-24A	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	118.76 (N&S)	116.87 (30" HDPE W)	116.87 (30" HDPE W)	89+80.00 (N) 128+78.77 (E)
S-27	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	118.76 (S)	115.26 (30" HDPE W)	115.26 (30" HDPE W)	84+80.00 (N) 126+78.77 (E)
S-28	FDOT TYPE "E" INLET W/ 7" TYPE J BOTTOM (ALTERNATE A)	121.50	119.50 (N&S)	115.26 (42" R.C.P. W)	115.26 (42" R.C.P. W)	84+80.00 (N) 127+32.27 (E)
S-29	FDOT TYPE "E" INLET	121.50	118.76 (N&S)	116.26 (42" R.C.P. E)	116.26 (42" R.C.P. E)	82+37.00 (N) 126+77.27 (E)
S-30	FDOT TYPE "E" INLET W/ 7" TYPE J BOTTOM (ALTERNATE A)	121.50	120.00 (S)	116.26 (42" R.C.P. W)	116.26 (42" R.C.P. W)	82+37.00 (N) 127+32.27 (E)
S-31	CONST. 48" MITERED END INTO DITCH PAVING	-	-	109.10 (48" R.C.P. NW)	109.10 (48" R.C.P. NW)	81+84.60 (N) 128+30.89 (E)
S-33	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.75	118.76 (N&S)	115.00 (FUTURE 30" HDPE NW)	115.00 (FUTURE 30" HDPE NW)	79+91.28 (N) 126+60.49 (E)
S-34	CONST. MITERED END INTO DITCH PAVING	-	-	111.85 (42" R.C.P. NW)	111.85 (42" R.C.P. NW)	79+81.92 (N) 127+19.07 (E)
S-35	FDOT TYPE "E" INLET	123.00	120.48 (SW)	117.20 (24" R.C.P. SE)	117.20 (24" R.C.P. SE)	75+43.59 (N) 124+21.39 (E)
S-36	CONST. MITERED END INTO DITCH PAVING	-	-	117.20 (24" R.C.P. NW)	117.20 (24" R.C.P. NW)	75+01.85 (N) 124+56.65 (E)
S-38	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-38)	126.80	124.26 (W)	122.36 (FUTURE 30" HDPE N)	122.36 (FUTURE 30" HDPE N)	73+95.00 (N) 119+64.40 (E)
S-39	CONST. MITERED END INTO DITCH PAVING	-	-	122.36 (42" R.C.P. N)	122.36 (42" R.C.P. N)	73+43.30 (N) 119+70.00 (E)
S-41	MOD. FDOT TYPE "E" INLET (DETAIL B)	132.00	129.31 (W)	125.80 (FUTURE 30" HDPE N)	125.80 (FUTURE 30" HDPE N)	73+91.00 (N) 115+06.00 (E)
S-42	CONST. MITERED END INTO DITCH PAVING	-	-	125.80 (42" R.C.P. N)	125.80 (42" R.C.P. N)	73+36.09 (N) 115+06.00 (E)
S-44	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-44)	135.00	132.30 (W)	128.27 (FUTURE 30" HDPE N)	128.27 (FUTURE 30" HDPE N)	73+91.00 (N) 111+45.00 (E)
S-45	CONST. MITERED END INTO DITCH PAVING	-	-	128.27 (42" R.C.P. N)	128.27 (42" R.C.P. N)	73+34.65 (N) 111+45.00 (E)
S-47	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-47)	139.00	136.35 (W)	131.48 (FUTURE 30" HDPE N)	131.48 (FUTURE 30" HDPE N)	73+91.00 (N) 106+77.00 (E)
S-48	CONST. MITERED END INTO DITCH PAVING	-	-	131.48 (42" R.C.P. N)	131.48 (42" R.C.P. N)	73+33.35 (N) 106+77.00 (E)
S-49	FDOT TYPE "E" INLET (SEE DETAIL S-47)	145.00	142.36 (N)	136.73 (24" R.C.P. W)	136.73 (24" R.C.P. W)	74+30.00 (N) 100+21.00 (E)
S-50	CONST. MITERED END INTO DITCH PAVING	-	-	136.73 (24" R.C.P. E)	136.73 (24" R.C.P. E)	74+30.00 (N) 99+60.00 (E)

AS-BUILT STORM DRAINAGE DATA FOR PHASE IIIA

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	AS-BUILT	DESIGN	AS-BUILT	DESIGN	AS-BUILT	DESIGN	AS-BUILT
S-27	MOD. FDOT TYPE "E" INLET (DETAIL B)	121.50	121.48	118.76 (S)	118.85 (S)	115.26 (30" HDPE W)	115.26 (30" HDPE W)	84+80.00 (N)	84+80.16 (N)
S-28	FDOT TYPE "E" INLET W/ 7" TYPE J BOTTOM (ALTERNATE A)	121.50	121.57	118.00 (N&S)	118.00 (N&S)	115.26 (42" R.C.P. W)	115.26 (42" R.C.P. W)	84+80.00 (N)	84+81.14 (N)
S-29	FDOT TYPE "E" INLET	121.50	121.52	118.76 (N&S)	118.77 (N&S)	116.26 (42" R.C.P. E)	116.26 (42" R.C.P. E)	82+37.00 (N)	82+37.03 (N)
S-30	FDOT TYPE "E" INLET W/ 7" TYPE J BOTTOM (ALTERNATE A)	121.50	121.53	120.00 (S)	120.09 (S)	116.26 (42" R.C.P. W)	116.26 (42" R.C.P. W)	82+37.00 (N)	82+37.03 (N)
S-31	CONST. 48" MITERED END INTO DITCH PAVING	-	-	-	-	109.10 (48" R.C.P. NW)	109.10 (48" R.C.P. NW)	81+84.60 (N)	81+84.78 (N)
S-33	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.75	121.74	118.76 (N&S)	118.80 (N)	115.00 (30" HDPE NW)	115.00 (30" HDPE NW)	79+91.28 (N)	79+91.31 (N)
S-34	CONST. MITERED END INTO DITCH PAVING	-	-	-	-	111.85 (42" R.C.P. NW)	111.84 (42" R.C.P. NW)	79+81.92 (N)	79+81.92 (N)
S-111	18" C.M.P.	-	-	-	-	143.70 (18" C.M.P. E)	143.64 (18" C.M.P. E)	82+52.50 (N)	82+52.50 (N)
S-112	18" C.M.P.	-	-	-	-	142.70 (18" C.M.P. W)	142.64 (18" C.M.P. W)	82+52.50 (N)	82+52.50 (N)
S-113	42" C.M.P.	-	-	-	-	123.80 (42" C.M.P. E)	123.76 (42" C.M.P. E)	82+52.50 (N)	82+52.50 (N)
S-114	42" C.M.P.	-	-	-	-	122.40 (42" C.M.P. W)	122.32 (42" C.M.P. W)	82+52.50 (N)	82+52.50 (N)
S-115	42" C.M.P.	-	-	-	-	121.00 (42" C.M.P. E)	120.95 (42" C.M.P. E)	82+52.50 (N)	82+52.50 (N)
S-118	10' X 8' BOX CULVERT BOX CULVERT WITH 5.75' X 5.4' ENDWALL	-	-	-	-	110.00	110.07	81+18.72 (N)	81+18.84 (N)
S-119	10' X 8' BOX CULVERT BOX CULVERT WITH 5.75' X 5.4' ENDWALL	-	-	-	-	109.30	109.36	81+54.02 (N)	81+54.06 (N)
S-126	15" FDOT MITERED END SECTION	-	-	-	-	118.80 (15" R.C.P. S)	118.77 (15" R.C.P. S)	88+40.50 (N)	88+40.50 (N)
S-127	15" FDOT MITERED END SECTION	-	-	-	-	119.00 (15" R.C.P. N)	118.94 (15" R.C.P. N)	87+79.50 (N)	87+79.47 (N)
S-128	15" FDOT MITERED END SECTION	-	-	-	-	119.00 (15" R.C.P. N)	118.89 (15" R.C.P. N)	85+40.50 (N)	85+40.50 (N)

DRAINAGE STRUCTURE TABLE						
STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.		SLOT EL.		STATION
		AS-BUILT	DESIGN	AS-BUILT	DESIGN	
S-52	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	138.74 (FUTURE 30" HDPE E)	138.74 (FUTURE 30" HDPE E)	80+88.00 (N) 100+21.00 (E)
S-53	CONST. MITERED END INTO DITCH PAVING	-	-	138.74 (42" R.C.P. E)	138.74 (42" R.C.P. E)	80+88.00 (N) 99+63.00 (E)
S-55	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	143.76 (N&S)	140.13 (30" HDPE E)	140.13 (30" HDPE E)	85+17.00 (N) 100+21.00 (E)
S-56	CONST. MITERED END INTO DITCH PAVING	-	-	140.13 (42" R.C.P. E)	140.13 (42" R.C.P. E)	85+17.00 (N) 99+63.00 (E)
S-105	J-1-C MANHOLE	127.50	-	118.76 (42" C.M.P. W)	118.76 (42" C.M.P. W)	89+94.61 (N) 126+78.77 (E)
S-106	42" C.M.P.	-	-	135.00 (42" C.M.P. E)	135.00 (42" C.M.P. E)	89+94.61 (N) 126+00.00 (E)
S-107	36" C.M.P.	-	-	145.50 (36" C.M.P. S)	145.50 (36" C.M.P. S)	89+71.00 (N) 113+27.50 (E)
S-108	36" C.M.P.	-	-	145.50 (36" C.M.P. N)	145.50 (36" C.M.P. N)	89+35.00 (N) 113+27.50 (E)
S-109	42" C.M.P.	-	-	135.10 (42" C.M.P. S)	135.10 (42" C.M.P. S)	83+35.00 (N) 113+27.50 (E)
S-110	42" C.M.P.	-	-	135.00 (42" C.M.P. N)	135.00 (42" C.M.P. N)	82+55.00 (N) 113+27.50 (E)
S-111	18" C.M.P.	-	-	143.70 (18" C.M.P. E)	143.70 (18" C.M.P. E)	82+52.50 (N) 102+37.50 (E)
S-112	18" C.M.P.	-	-	142.70 (18" C.M.P. W)	142.70 (18" C.M.P. W)	82+52.50 (N) 103+61.00 (E)
S-113	42" C.M.P.	-	-	123.80 (42" C.M.P. E)	123.80 (42" C.M.P. E)	82+52.50 (N) 123+38.00 (E)
S-114	42" C.M.P.	-	-	122.40 (42" C.M.P. W)	122.40 (42" C.M.P. W)	82+52.50 (N) 124+62.50 (E)
S-115	42" C.M.P.	-	-	121.00 (42" C.M.P. E)	121.00 (42" C.M.P. E)	82+52.50 (N) 125+87.00 (E)
S-116	10' X 4' FDOT BOX CULVERT WITH 5.75' X 4.6' ENDWALL	-	-	136.71	136.71	74+24.15 (N) 99+55.00 (E)
S-117	10' X 4' FDOT BOX CULVERT WITH 5.75' X 4.6' ENDWALL	-	-	136.42	136.42	73+36.15 (N) 99+55.00 (E)
S-118	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 5.4' ENDWALL	-	-	110.00	110.00	81+18.72 (N) 128+01.47 (E)
S-119	10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 5.4' ENDWALL	-	-	109.30	109.30	81+54.02 (N) 128+20.27 (E)
S-120	30" HDPE PIPE	-	-	134.28 (30" HDPE E)	134.28 (30" HDPE E)	88+80.00 (N) 126+19.57 (E)
S-121	30" HDPE PIPE	-	-	134.28 (30" HDPE E)	134.28 (30" HDPE E)	84+80.00 (N) 126+19.57 (E)
S-122	30" HDPE PIPE	-	-	159.00 (30" HDPE W)	159.00 (30" HDPE W)	88+87.00 (N) 100+79.40 (E)

DRAINAGE STRUCTURE TABLE						
STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP EL.		SLOT EL.		STATION
		AS-BUILT	DESIGN	AS-BUILT	DESIGN	
S-123	30" HDPE PIPE	-	-	159.00 (30" HDPE W)	159.00 (30" HDPE W)	85+17.00 (N) 100+79.40 (E)
S-124	J-1-D MANHOLE	146.50	-	141.42 EXIST 42" C.M.P.	141.42 (48" R.C.P. S)	93+31.00 (N) 99+67.00 (E)
S-125	CONST. MITERED END INTO DITCH PAVING	-	-	141.30 (48" R.C.P. N)	141.30 (48" R.C.P. N)	91+49.00 (N) 99+67.00 (E)
S-126	15" FDOT MITERED END SECTION	-	-	118.80 (15" R.C.P. S)	118.80 (15" R.C.P. S)	88+40.50 (N) 126+78.77 (E)
S-127	15" FDOT MITERED END SECTION	-	-	119.00 (15" R.C.P. N)	119.00 (15" R.C.P. N)	87+79.50 (N) 126+78.77 (E)
S-128	15" FDOT MITERED END SECTION	-	-	119.00 (15" R.C.P. N)	119.00 (15" R.C.P. N)	85+40.50 (N) 126+78.77 (E)
*S-129	QUADRUPLE 54" R.C.P.# W/ CITY STANDARD ENDWALL	-	-	140.50 (54" R.C.P.#)	140.50 (54" R.C.P.#)	*
*S-130	QUADRUPLE 54" R.C.P.# W/ CITY STANDARD ENDWALL	-	-	140.50 (54" R.C.P.#)	140.50 (54" R.C.P.#)	*
S-131	15" FDOT MITERED END SECTION	-	-	118.75 (15" R.C.P. S)	118.75 (15" R.C.P. S)	91+60.00 (N) 126+78.77 (E)
S-132	15" FDOT MITERED END SECTION	-	-	118.40 (15" R.C.P. S)	118.40 (15" R.C.P. S)	94+40.00 (N) 126+78.77 (E)
S-133	15" FDOT MITERED END SECTION	-	-	118.15 (15" R.C.P. N)	118.15 (15" R.C.P. N)	93+80.00 (N) 126+78.77 (E)
S-134	30" HDPE PIPE	-	-	184.00 (30" HDPE S)	184.00 (30" HDPE S)	113+27.50 (N) 91+20.58 (E)
S-135	30" HDPE PIPE	-	-	145.7 (30" HDPE N)	145.7 (30" HDPE N)	113+27.50 (N) 89+78.00 (E)
S-136	30" HDPE PIPE	-	-	171.80 (30" HDPE S)	171.80 (30" HDPE S)	124+95.15 (N) 91+20.58 (E)
S-137	30" HDPE PIPE	-	-	135.00 (30" HDPE N)	135.00 (30" HDPE N)	125+96.46 (N) 89+95.62 (E)
S-138	J-1-C MANHOLE	127.50	-	118.76 (42" C.M.P. W)	118.76 (42" C.M.P. W)	86+94.61 (N) 126+78.77 (E)
S-139	42" C.M.P.	-	-	135.00 (42" C.M.P. E)	135.00 (42" C.M.P. E)	86+94.61 (N) 126+00.00 (E)
S-140	18" FDOT MITERED END SECTION	-	-	144.40 (18" R.C.P. N)	144.40 (18" R.C.P. N)	73+34.00 (N) 98+60.00 (E)
S-141	18" FDOT MITERED END SECTION	-	-	144.80 (18" R.C.P. S)	144.80 (18" R.C.P. S)	74+06.00 (N) 98+60.00 (E)
*S-142	DOUBLE 36" R.C.P.	-	-	144.40 (36" R.C.P.#)	144.40 (36" R.C.P.#)	*
*S-143	DOUBLE 36" R.C.P.	-	-	144.80 (36" R.C.P.#)	144.80 (36" R.C.P.#)	*

AS-BUILT DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE DESCRIPTION	TOP ELEVATION		SLOT ELEVATION		INVERT ELEVATION		STATION	
		DESIGN	AS-BUILT	DESIGN	AS-BUILT	DESIGN	AS-BUILT	DESIGN	AS-BUILT
S-2	MOD. FDOT TYPE "E" INLET (DETAIL B)	146.50	146.68	143.76 (N&S)	143.89 (N&S)	141.26 (30" HDPE E)	141.26 (30" HDPE E)	88+87.00 (N)	88+87.08 (N)
S-3	CONST. MITERED END INTO DITCH PAVING	-	-	-	-	141.26 (42" R.C.P. E)	141.27 (42" R.C.P. E)	88+87.00 (N)	88+86.88 (N)
S-24A	MOD. FDOT TYPE "E" INLET (DETAIL A)	121.50	121.45	118.76 (N&S)	118.71 (N)	116.87 (30" HDPE W)	116.78 (30" HDPE W)	89+80.00 (N)	12701.7482 (N)
S-35	FDOT TYPE "E" INLET	122.83	122.83	120.48 (SW)	120.81 (SW)	117.20 (24" R.C.P. SE)	117.19 (24" R.C.P. SE)	75+43.58 (N)	124+21.39 (E)
S-36	CONST. MITERED END INTO DITCH PAVING	-	-	-	-	117.20 (24" R.C.P. NW)	117.28 (24" R.C.P. NW)	75+01.85 (N)	124+56.65 (E)
S-38	MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-38)	126.80	127.04	124.26 (W)	124.39 (W)	122.36 (FUTURE 30" HDPE N)	122.36 (FUTURE 30" HDPE N)	73+95.00 (N)	119+62.94 (E)
S-39	CONST. MITERED END INTO DITCH PAVING	-	-	-	-	122.36 (42" R.C.P. N)	122.46 (42" R.C.P. N)	73+43.30 (N)	119+70.30 (E)
S-41	MOD. FDOT TYPE "E" INLET (DETAIL B)	132.00	132.19	129.31 (W)	129.57 (W)	125.80 (FUTURE 30" HDPE N)	125.80 (FUTURE 30" HDPE N)	73+91.00 (N)	115+06.72 (E)
S-42	CONST. MIT								