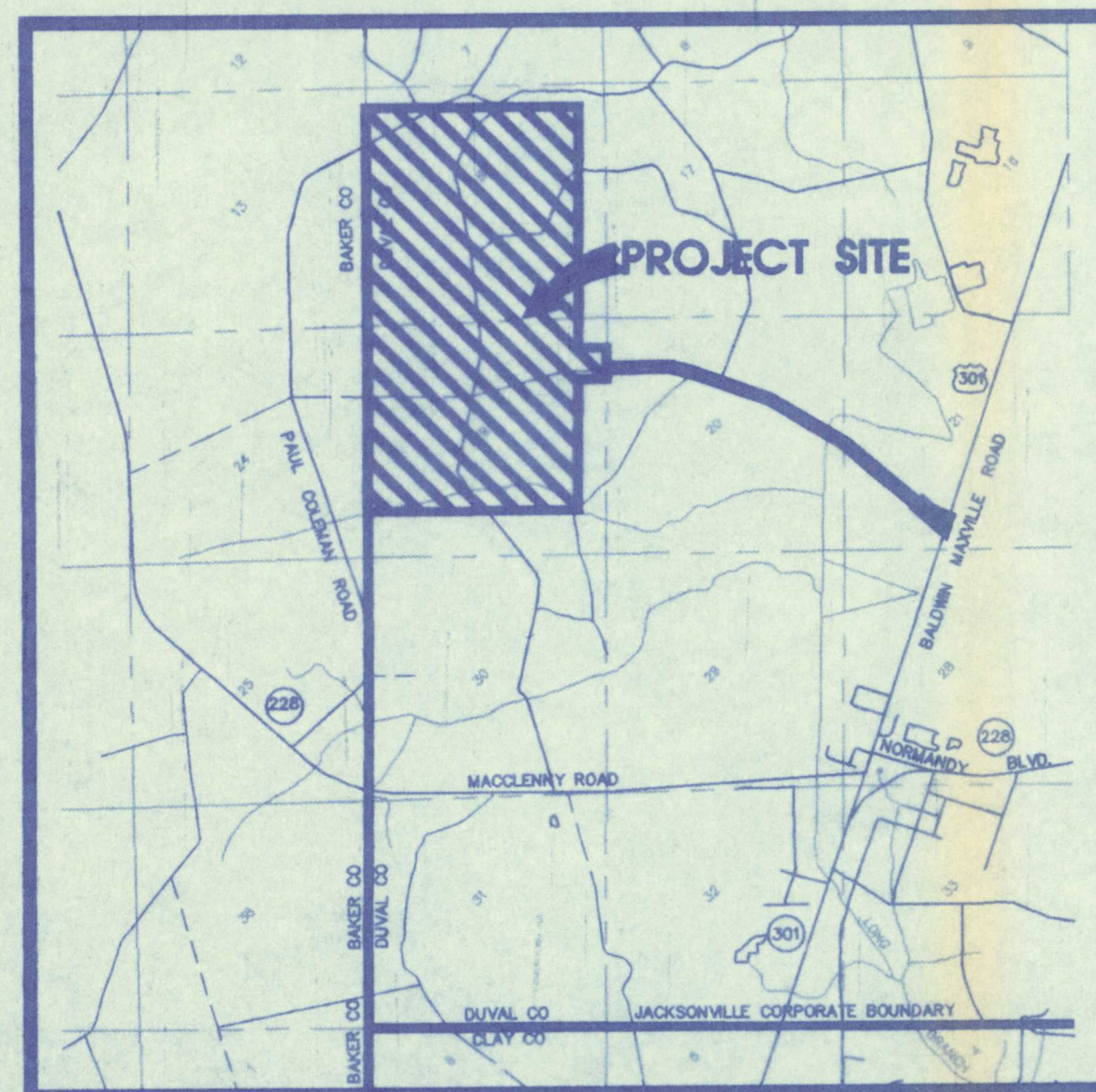
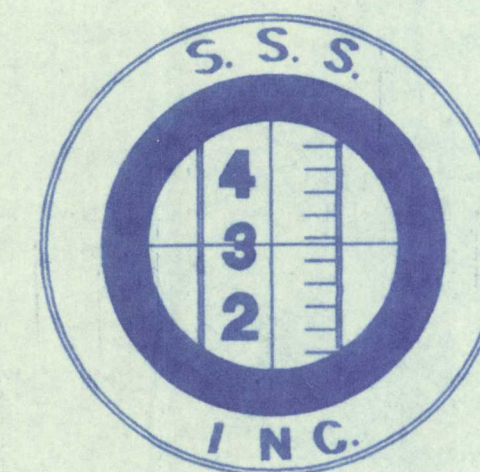


“AS - BUILTS” OF TRAIL RIDGE LANDFILL PHASES I, II AND IIIA FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



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

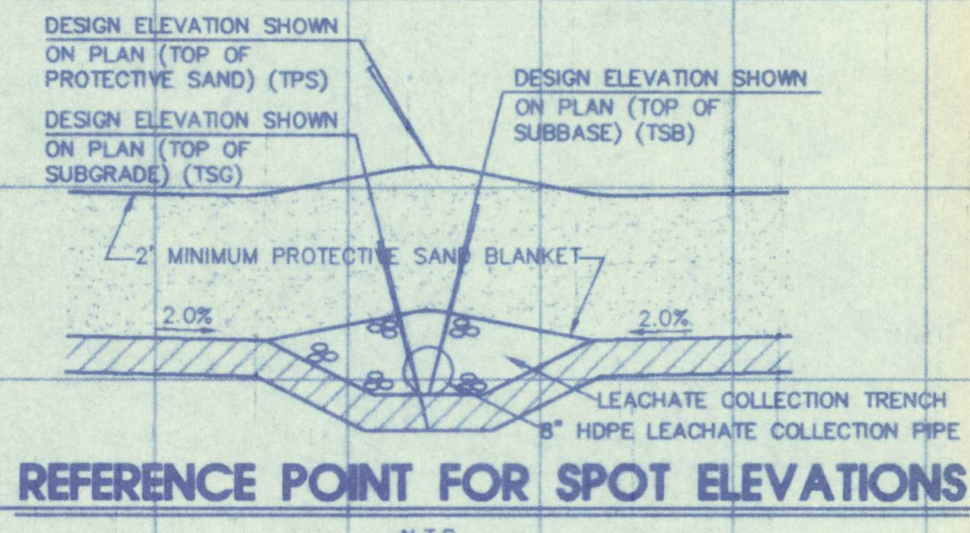
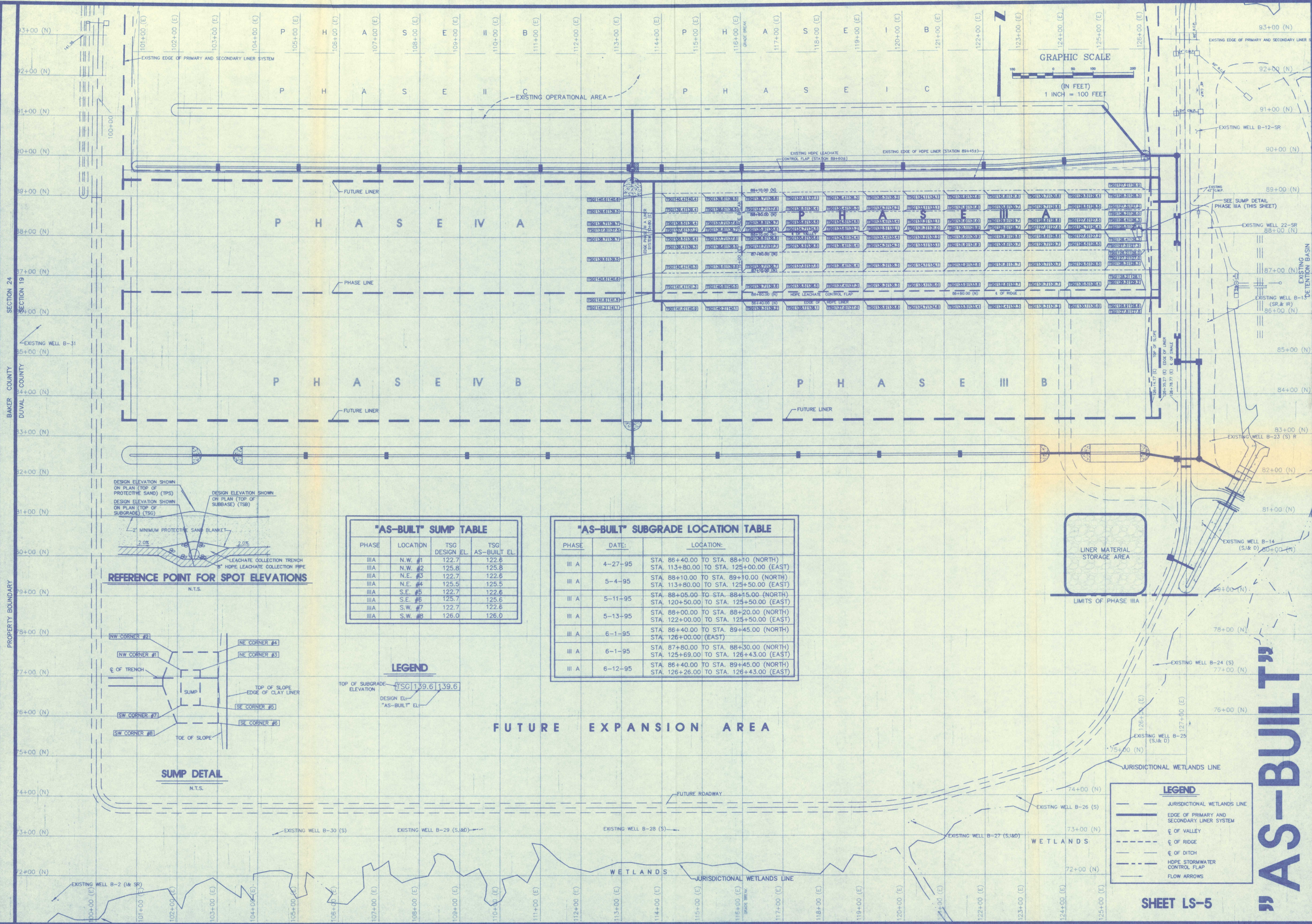
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LS-2	LINER SYSTEM - PHASES I AND II
LS-3	LINER SYSTEM - PHASES I AND II
LS-4	LINER SYSTEM - PHASE IIIA
LS-5	LINER SYSTEM - PHASE IIIA
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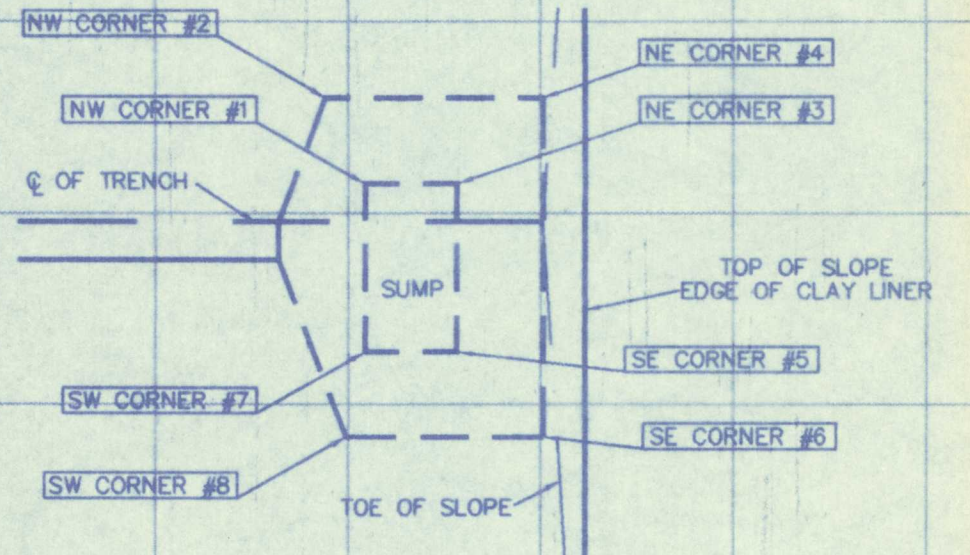
Sunshine State Surveyors, Inc.
OCT - 2 1995

COVER SHEET NO. 1

K:\ENGINEERING\JANITA\1020\45\34\INER.Fri Sep 29 15:19:23 1995



REFERENCE POINT FOR SPOT ELEVATIONS



SUMP DETAIL

"AS-BUILT" SUMP TABLE				
PHASE	LOCATION	TSG DESIGN EL.	TSG AS-BUILT EL.	
III A	N.W. #1	122.7	122.6	
III A	N.W. #2	125.8	125.8	
III A	N.E. #3	122.7	122.6	
III A	N.E. #4	125.5	125.5	
III A	S.E. #5	122.7	122.6	
III A	S.E. #6	125.7	125.6	
III A	S.W. #7	122.7	122.6	
III A	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+10.00 (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 TO STA. 126+43.00 (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	
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

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 461, F.S., AND THE ADMINISTRATIVE CODE, PURSUANT TO SECTION 402, F.S., AND CHAPTER 461, F.S.

DATE: 9-29-95

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

LINER SYSTEM

PHASE IIIA

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

SUNSHINE STATE SURVEYORS, INC.

ORDER NO. 95-01

CHECKED BY: J.B.C.

SCALE: 1" = 100'

RANGE: 23 EAST

FILE NO. 95-01



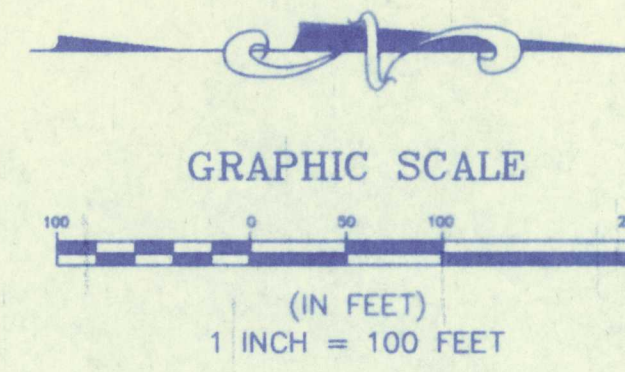
3331 ST. JOHN BLVD. SUITE 200 JACKSONVILLE, FLORIDA 32206

PHONE: 904/444-1400

FAX: 904/444-1400

TELETYPE: 904/444-1400

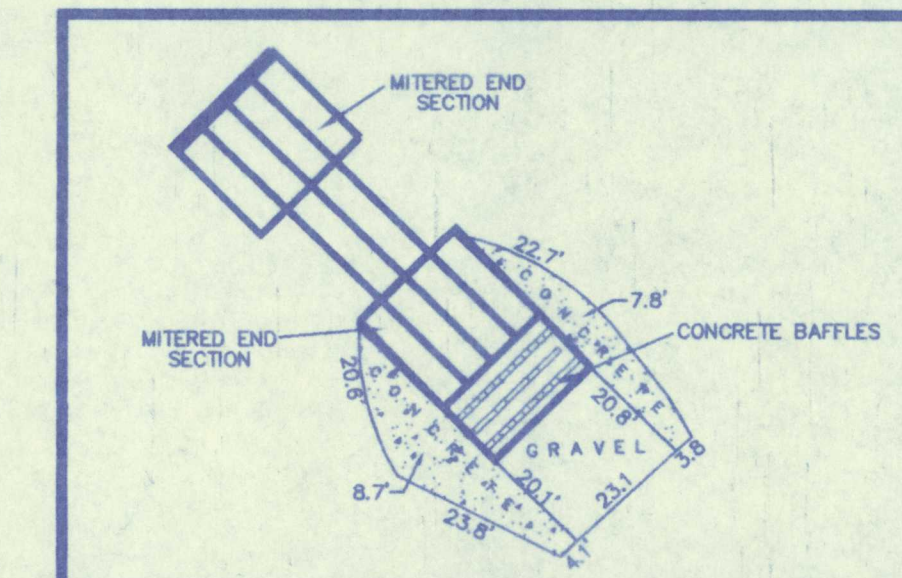
INTERNET: WWW.SUNSHINESTATE.SURVEYORS.COM



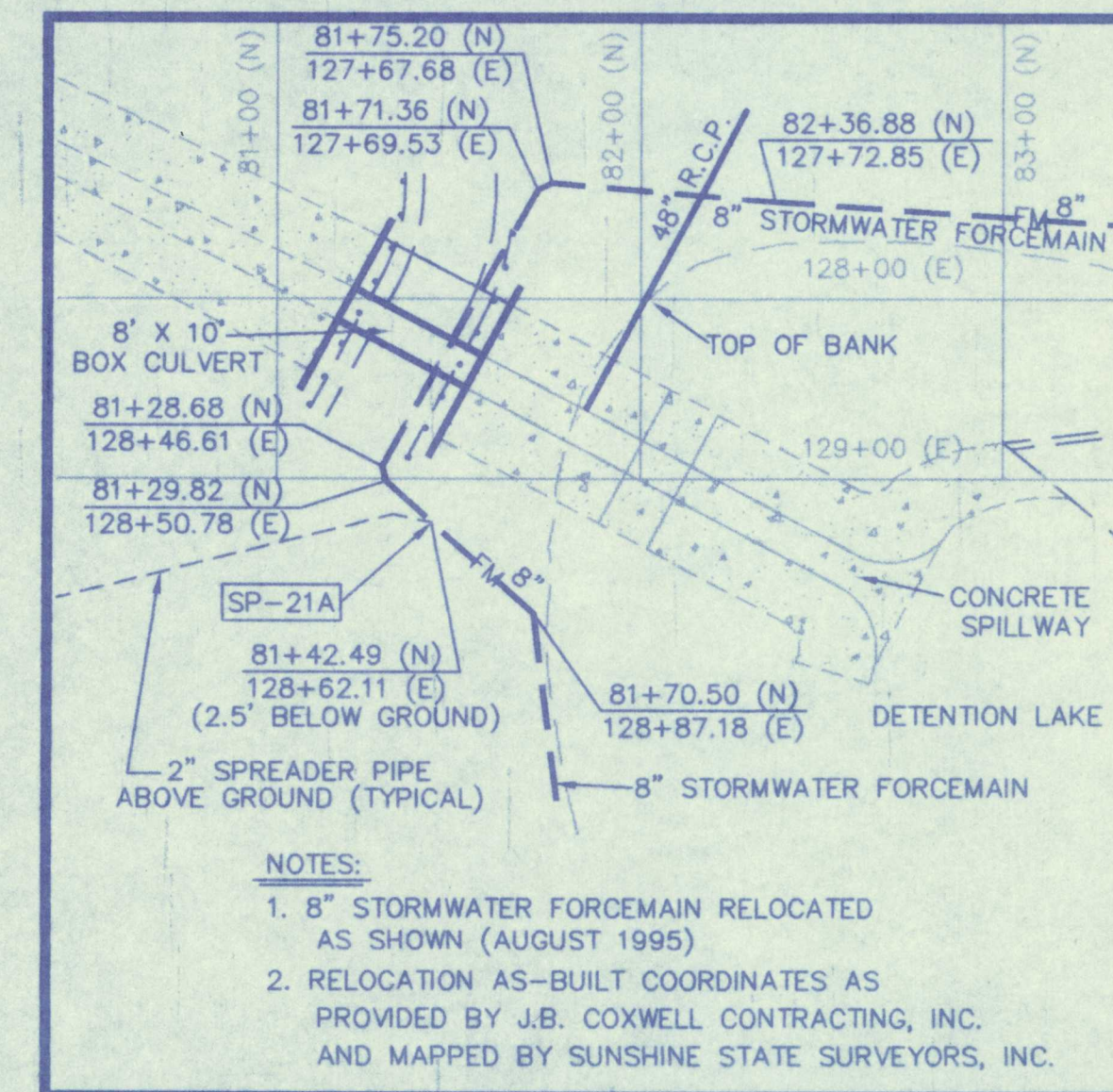
NOTE:
SEE SHEET D-1, D-6, A-1 AND A-2 FOR INVERTS, STATIONS AND OTHER AS-BUILT INFORMATION FOR THE STORMWATER DRAINAGE STRUCTURES, AND THE 8" P.V.C. SPREADER PIPE.

- LEGEND**
- 124.0
-150- "AS-BUILT" SPOT ELEVATION
 - 150- DESIGN CONTOUR
 - 150- "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
 - 2" "AS-BUILT" 2" P.V.C. SPREADER PIPE

DITCH PAVING DETAIL



STORMWATER FORCEMAIN DETAIL



SHEET D-3

"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

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 1A 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 51G17-6 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.02, FLORIDA STATUTES.

NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL

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

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+76.89 (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+18.07 (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+79.47 (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)

"AS-BUILT"



SUNSHINE STATE
SURVEYORS, INC.

SURVEYORS & LAND PLANNERS

3131 ST. JAMES BLVD. RD. SOUTH,
JACKSONVILLE, FLORIDA 32246

PHONE NUMBER (904) 642-5500
FAX NUMBER (904) 642-5495

RECORD

ORDER NO. 95-04-4

CAD FILE: 3A-ASBLT

DRAWN BY: F.T.

CHECKED BY: T.S.

SCALE: 1"=100'

RANGE: 23 EAST

COUNTY: DUVAL

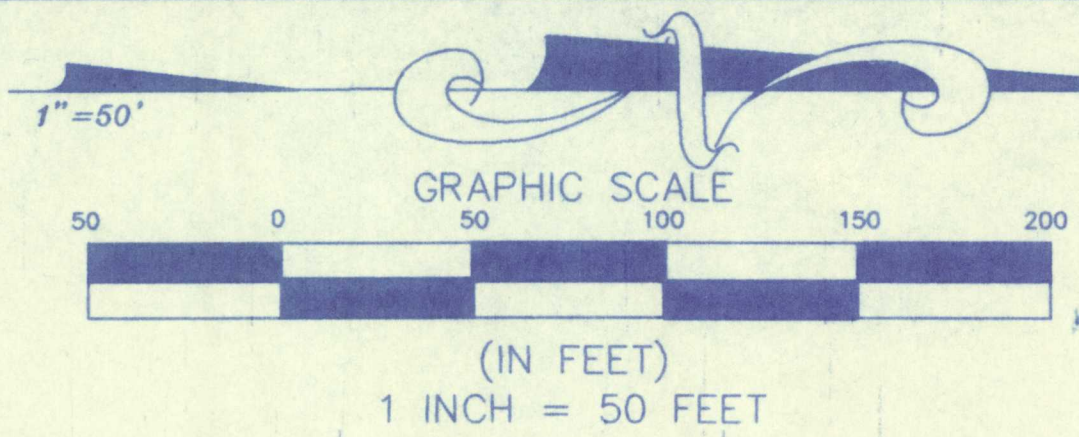
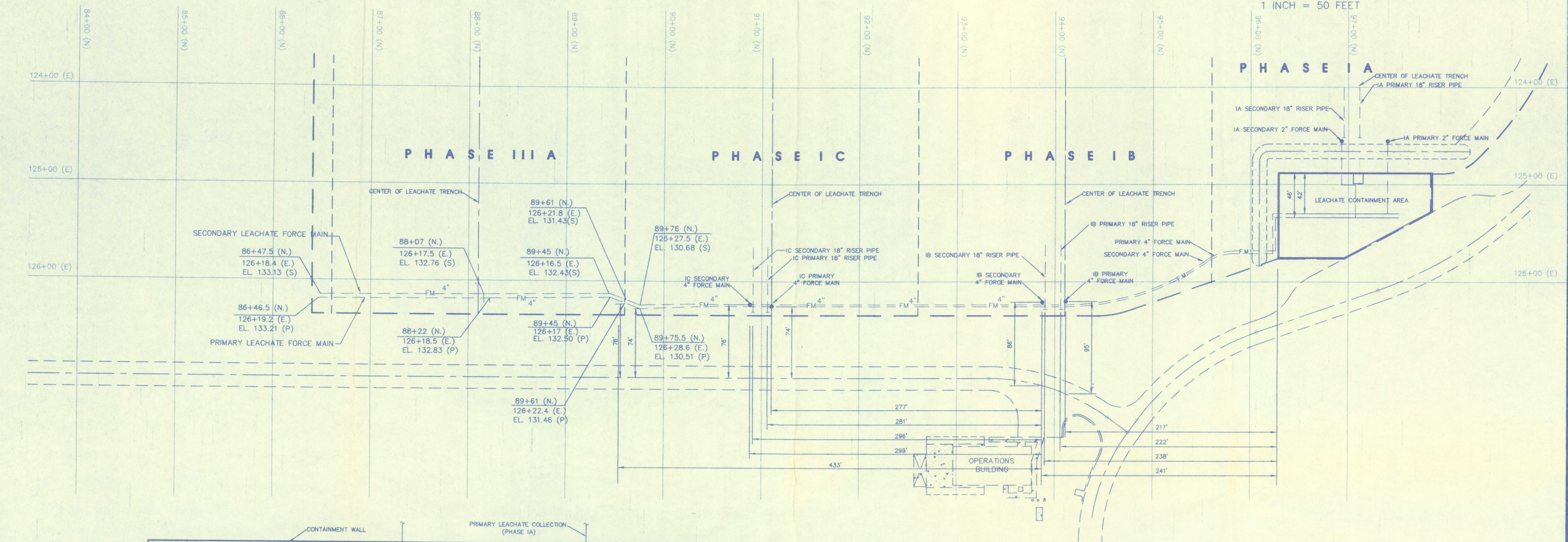
FIELD BOOK: 477

FILE NUMBER: 950-6121

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 PROFESSIONAL
LAND SURVEYING BOARD AND THE FLORIDA PROFESSIONAL
SURVEYING BOARD ADMINISTRATIVE
CODE, PARS 12-13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 67-68, 69-70, 71-72, 73-74, 75-76, 77-78, 79-80, 81-82, 83-84, 85-86, 87-88, 89-90, 91-92, 93-94, 95-96, 97-98, 99-100, 101-102, 103-104, 105-106, 107-108, 109-110, 111-112, 113-114, 115-116, 117-118, 119-120, 121-122, 123-124, 125-126, 127-128, 129-130, 131-132, 133-134, 135-136, 137-138, 139-140, 141-142, 143-144, 145-146, 147-148, 149-150, 151-152, 153-154, 155-156, 157-158, 159-160, 161-162, 163-164, 165-166, 167-168, 169-170, 171-172, 173-174, 175-176, 177-178, 179-180, 181-182, 183-184, 185-186, 187-188, 189-190, 191-192, 193-194, 195-196, 197-198, 199-200, 201-202, 203-204, 205-206, 207-208, 209-210, 211-212, 213-214, 215-216, 217-218, 219-220, 221-222, 223-224, 225-226, 227-228, 229-230, 231-232, 233-234, 235-236, 237-238, 239-240, 241-242, 243-244, 245-246, 247-248, 249-250, 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C:\VTRAS\ELC-FM Mon Oct 2 09:18:34 1995



REVISIONS:
9-11-92 PHASE I AS-BUILT
1-24-93 PHASE II AS-BUILT
9-28-95 PHASE III AS-BUILT

DATE: 9-11-92

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

SUNSHINE STATE
SURVEYORS, INC.
SURVEYORS & LAND PLANNERS
3131 ST. JOHN BLVD. RD. SOUTH,
JACKSONVILLE, FLORIDA 32246
PHONE NUMBER (904) 642-5500
FAX NUMBER (904) 642-5505



RECORD
ORDER NO.
CAD FILE: ELEC-FM
DRAWN BY: C.B.T.
CHECKED BY: S.J.L.
SCALE: 1\"/>

SHEET LE-1

"AS-BUILT"

LEACHATE STORAGE, PUMPING AND CONTAINMENT

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

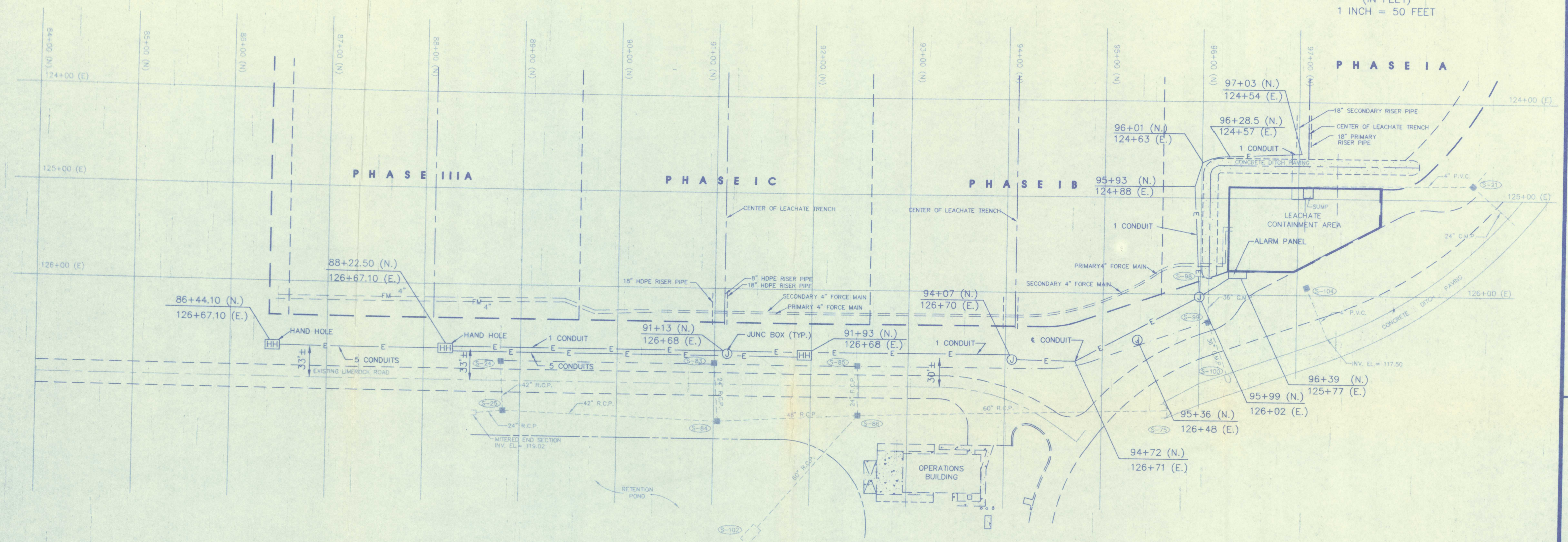
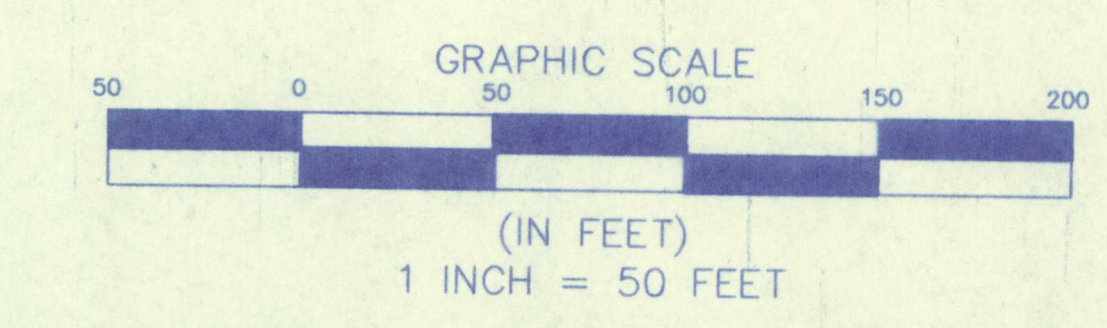
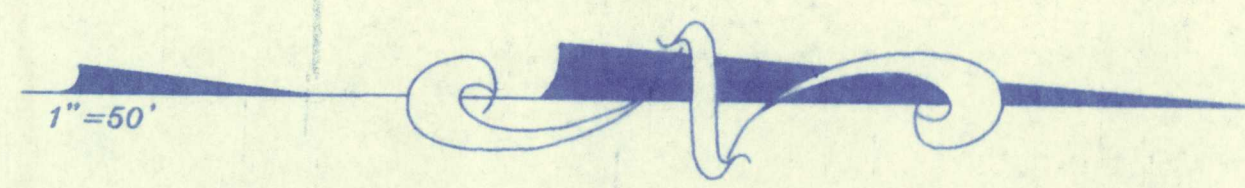
N.T.S.

LEGEND

- ==FM== LEACHATE FORCE MAIN
- LIMITS OF LINER SYSTEM
- OF VALLEY
- OF RIDGE
- 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.



LEGEND

HH HAND HOLE

J JUNCTION BOX

—E— PHASE III A ELECTRICAL CONDUIT

— LIMITS OF LINER SYSTEM

— C OF VALLEY

— C OF RIDGE

— C 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.

"AS-BUILT"

SHEET E-2

SUNSHINE STATE SURVEYORS, INC.

3315 ST. JOHN BLVD. SUITE 100
JACKSONVILLE, FLORIDA 32246
PHONE NUMBER (904) 842-8850
FAX NUMBER (904) 842-8495

RECORD

ORDER NO. _____

DRAWN BY: ELEC-FM

CHECKED BY: C.D.T.

SCALE: 1" = 50'

RANGE: 23 EAST

COUNTY: DUVAL

FILE NUMBER: _____

ELECTRICAL

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

DATE: 9-28-95