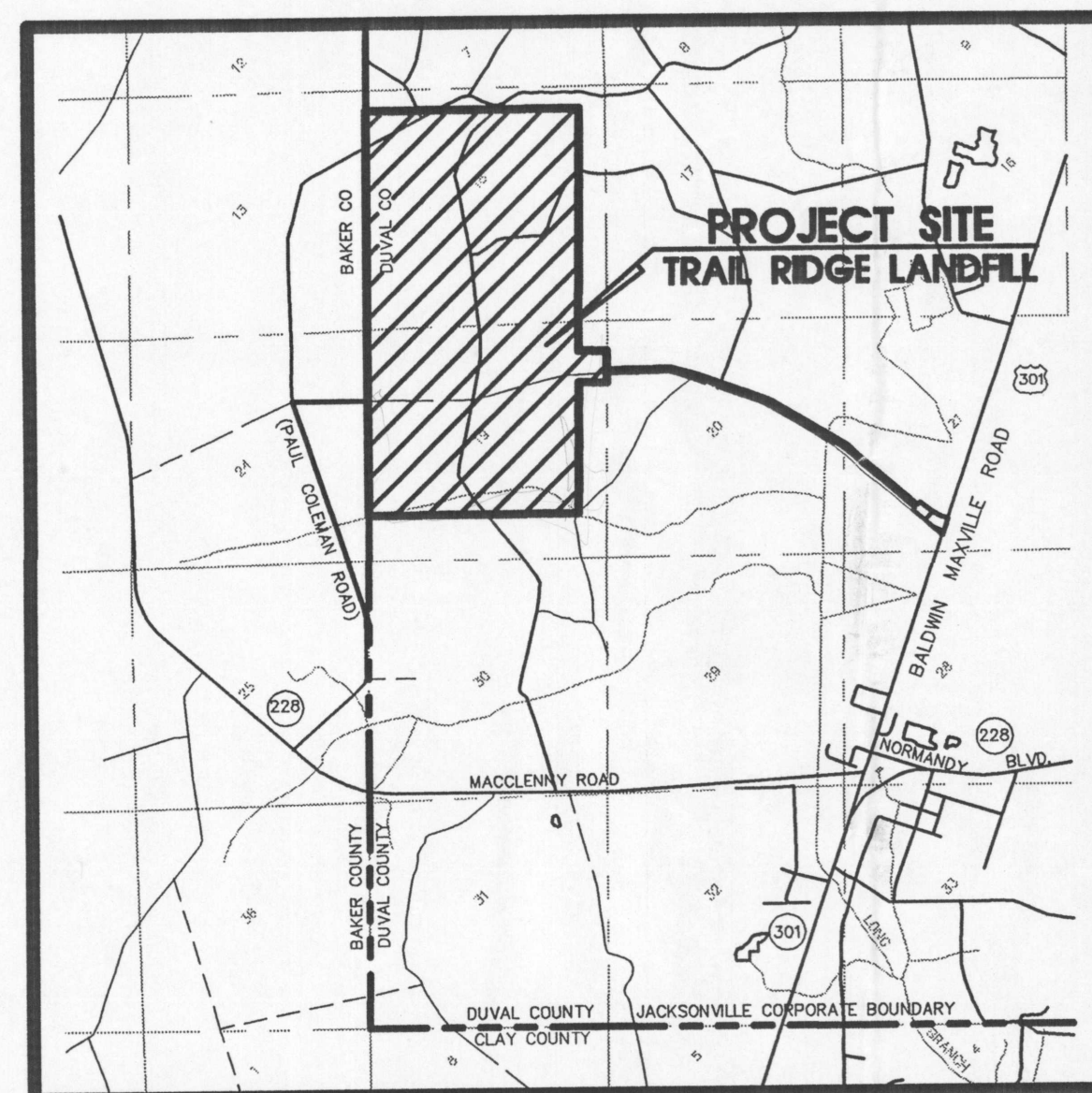
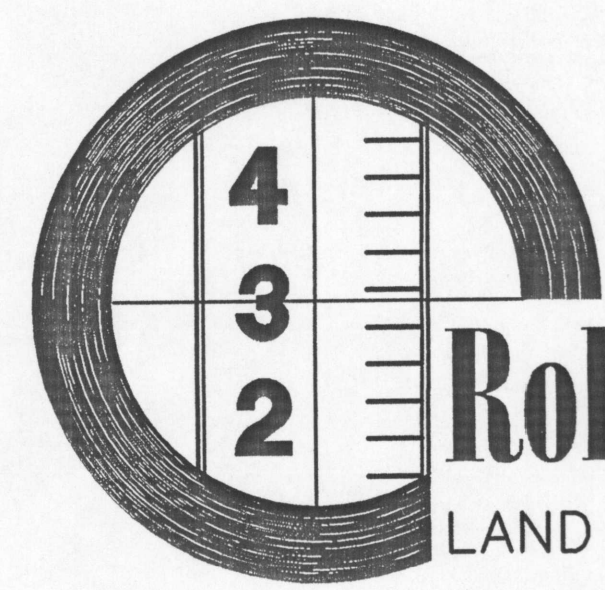


# “AS - BUILTS” OF TRAIL RIDGE LANDFILL PHASES I, II, IIIA, IIIB, IIIC, IVA, IVB AND IVC FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE, FLORIDA



VICINITY MAP



**Robert M. Angas Associates, inc.**

LAND SURVEYORS, PLANNERS AND CIVIL ENGINEERS  
SINCE 1924

14775 St. Augustine Road, Jacksonville, FL 32258

Telephone: (904) 642-8550 Fax: (904) 642-4165

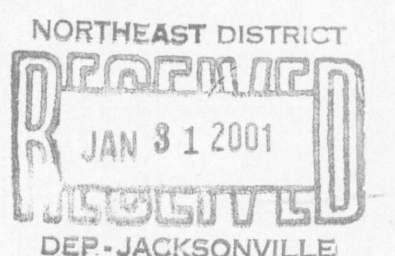
Certificate of Authorization No.: LB 3624

(FORMERLY SUNSHINE STATE SURVEYORS)

UPDATED, JANUARY, 2001  
UPDATED, DECEMBER, 2000  
UPDATED, DECEMBER, 1996  
UPDATED, SEPTEMBER, 1995  
UPDATED, JANUARY, 1993  
UPDATED, DECEMBER, 1992  
DATE, SEPTEMBER, 1992

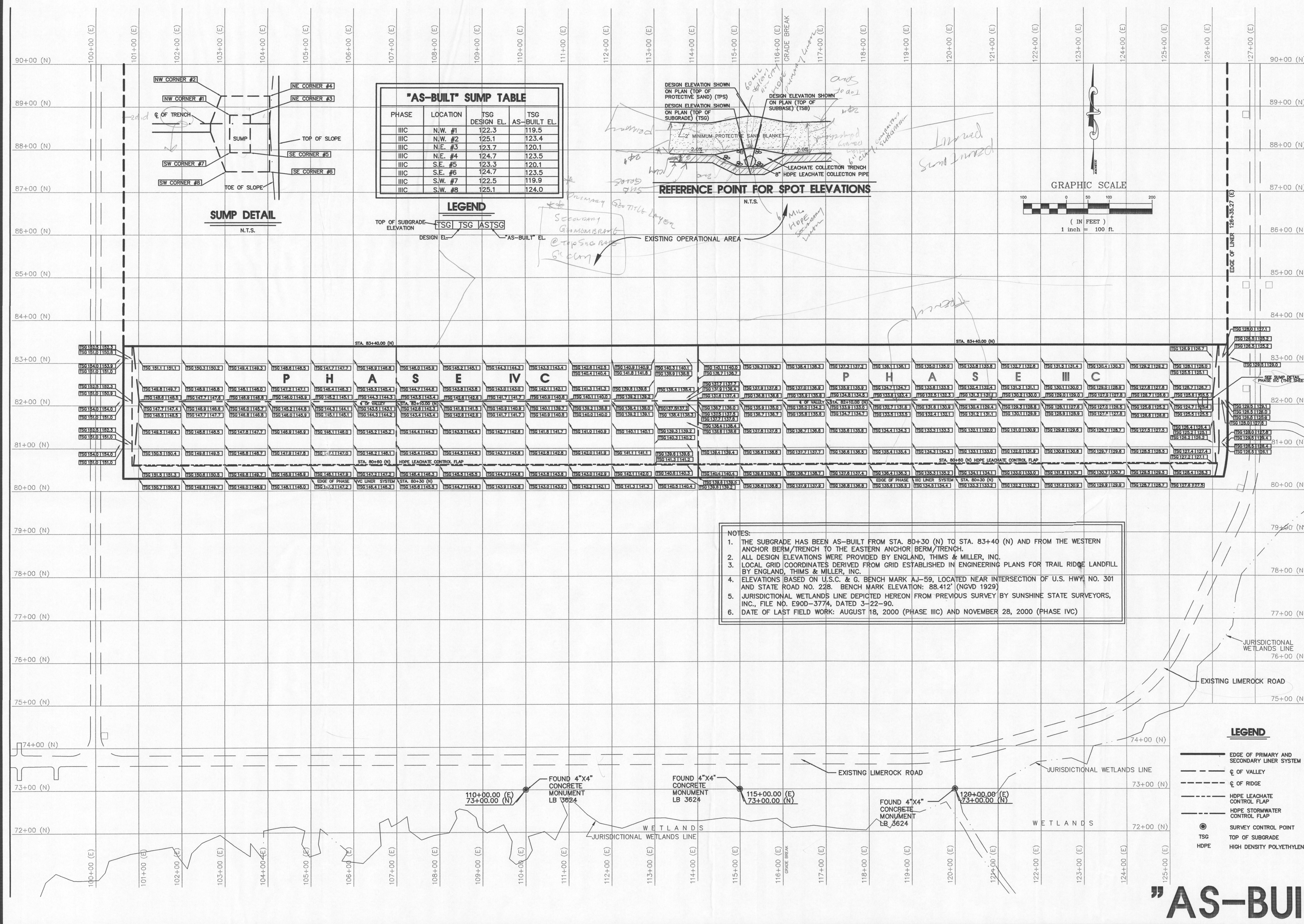
## INDEX OF DRAWINGS

| <u>SHEET NO.</u>                      | <u>DESCRIPTION</u>                                                  |
|---------------------------------------|---------------------------------------------------------------------|
| COVER SHEET NUMBER 1                  | COVER SHEET                                                         |
| <u>GROUNDWATER WELLS</u>              |                                                                     |
| GW-1                                  | GROUNDWATER MONITORING WELLS                                        |
| <u>LINER SYSTEM</u>                   |                                                                     |
| 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                 |
| LS-7                                  | LINER SUBGRADE - PHASES IIIC AND IVC                                |
| LS-8                                  | LINER SYSTEM - PHASE IIIC AND IVC                                   |
| LS-9                                  | LINER SYSTEM LOCATION - PHASE IIIC AND IVC                          |
| <u>LEACHATE SYSTEM</u>                |                                                                     |
| LE-1                                  | LEACHATE FORCE MAIN                                                 |
| LE-2                                  | LEACHATE FORCE MAIN - PHASE IIIC                                    |
| <u>ELECTRICAL SYSTEM</u>              |                                                                     |
| E-1                                   | ELECTRICAL SYSTEM                                                   |
| E-2                                   | ELECTRICAL SYSTEM                                                   |
| E-3                                   | ELECTRICAL SYSTEM                                                   |
| <u>DRAINAGE PLANS</u>                 |                                                                     |
| 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, IIIC, IVA, IVB & IVC       |
| D-6                                   | DRAINAGE STRUCTURE TABLE - PHASES IIIA, IIIB, IIIC, IVA, IVB, & IVC |
| <u>ANCILLARY FACILITIES</u>           |                                                                     |
| A-1                                   | ANCILLARY AREA FORCE MAIN,<br>WATER MAIN AND STORM DRAINAGE         |
| A-2                                   | ANCILLARY AREA FORCE MAIN,<br>WATER MAIN AND STORM DRAINAGE         |
| <u>ENTRANCE ROAD</u>                  |                                                                     |
| 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                                        |
| <u>FIRE PUMP</u>                      |                                                                     |
| P-1                                   | CLASS I FIRE PUMP / HYDROTANK STORMWATER                            |
| <u>WATER TREATMENT FACILITIES</u>     |                                                                     |
| WT-1                                  | WATER TREATMENT FACILITY                                            |
| WT-2                                  | WATER TREATMENT FACILITY                                            |
| WT-3                                  | WATER TREATMENT FACILITY                                            |
| WT-4                                  | WATER TREATMENT PLANT                                               |
| <u>ANCILLARY FACILITIES BUILDINGS</u> |                                                                     |
| 201-711                               | ANCILLARY FACILITIES BUILDINGS<br>PROVIDED BY THE HASKELL COMPANY   |
| L-1 THRU L-4                          | ANCILLARY FACILITIES BUILDINGS<br>PROVIDED BY THE HASKELL COMPANY   |

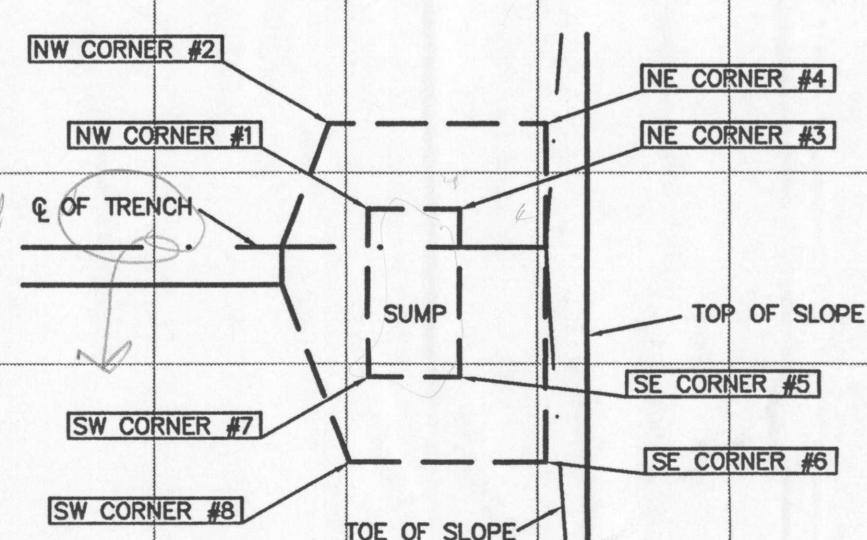
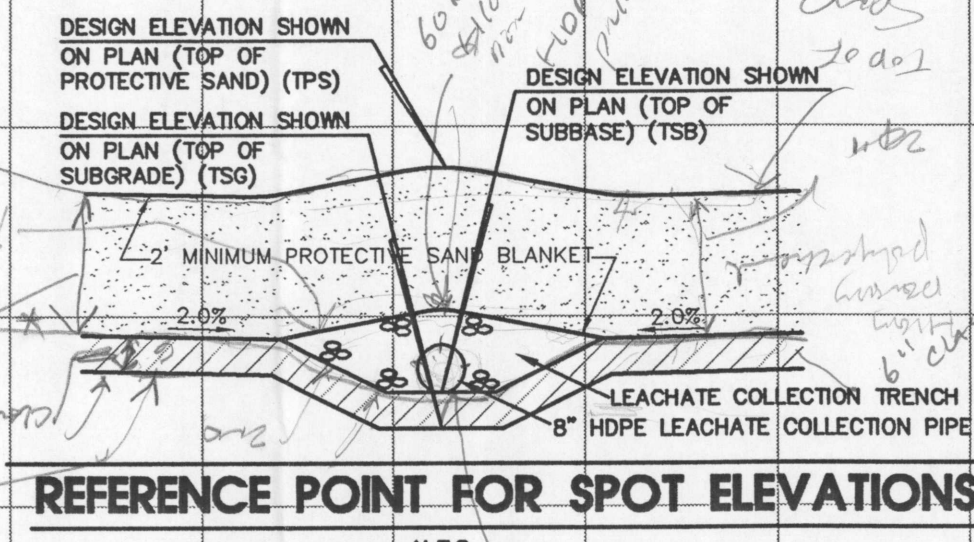


COVER SHEET NO. 1

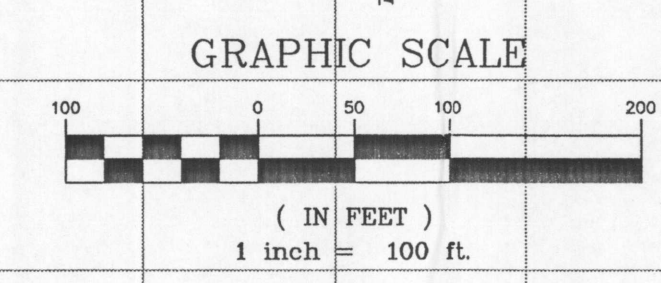




| "AS-BUILT" SUMP TABLE |          |                |                  |  |
|-----------------------|----------|----------------|------------------|--|
| PHASE                 | LOCATION | TSG DESIGN EL. | TSG AS-BUILT EL. |  |
| IIIC                  | N.W. #1  | 122.3          | 119.5            |  |
| IIIC                  | N.W. #2  | 125.1          | 123.4            |  |
| IIIC                  | N.E. #3  | 123.7          | 120.1            |  |
| IIIC                  | N.E. #4  | 124.7          | 123.5            |  |
| IIIC                  | S.E. #5  | 123.3          | 120.1            |  |
| IIIC                  | S.E. #6  | 124.7          | 123.5            |  |
| IIIC                  | S.W. #7  | 122.5          | 119.9            |  |
| IIIC                  | S.W. #8  | 125.1          | 124.0            |  |



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



- NOTES:
1. THE SUBGRADE HAS BEEN AS-BUILT FROM STA. 80+30 (N) TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR BERM/TRENCH TO THE EASTERN ANCHOR BERM/TRENCH.
  2. ALL DESIGN ELEVATIONS WERE PROVIDED BY ENGLAND, THIMS & MILLER, INC.
  3. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS & MILLER, INC.
  4. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. NO. 301 AND STATE ROAD NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
  5. JURISDICTIONAL WETLANDS LINE DEPICTED HEREON FROM PREVIOUS SURVEY BY SUNSHINE STATE SURVEYORS, INC., FILE NO. E90D-3774, DATED 3-22-90.
  6. DATE OF LAST FIELD WORK: AUGUST 18, 2000 (PHASE IIIC) AND NOVEMBER 28, 2000 (PHASE IVC)

| LEGEND |                                            |
|--------|--------------------------------------------|
| —      | EDGE OF PRIMARY AND SECONDARY LINER SYSTEM |
| - - -  | Q OF VALLEY                                |
| - - -  | Q OF RIDGE                                 |
| - - -  | HDPE LEACHATE CONTROL FLAP                 |
| - - -  | HDPE STORMWATER CONTROL FLAP               |
| ●      | SURVEY CONTROL POINT                       |
| ○      | TSG                                        |
| ○      | HDPE                                       |
| ○      | HIGH DENSITY POLYETHYLENE                  |

LINER SYSTEM - SUBGRADE  
PHASES IIIC AND IVC  
FOR TRAIL RIDGE LANDFILL, INC. AND  
CITY OF JACKSONVILLE

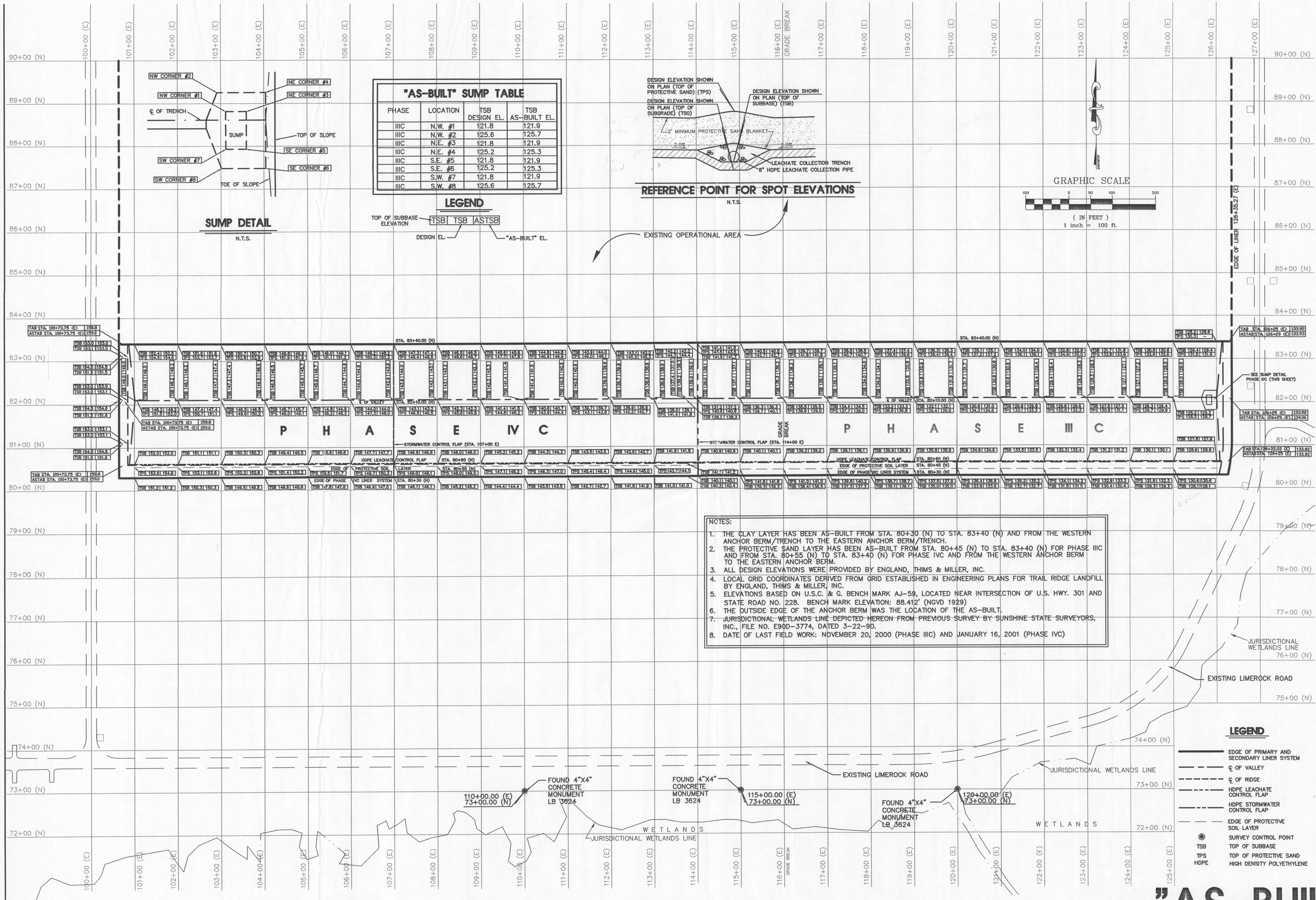
Robert M. Angas Associates, Inc.  
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14775 St. Augustine Road, Jacksonville, FL 32258  
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Certificate of Authorization No.: LB 3624

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

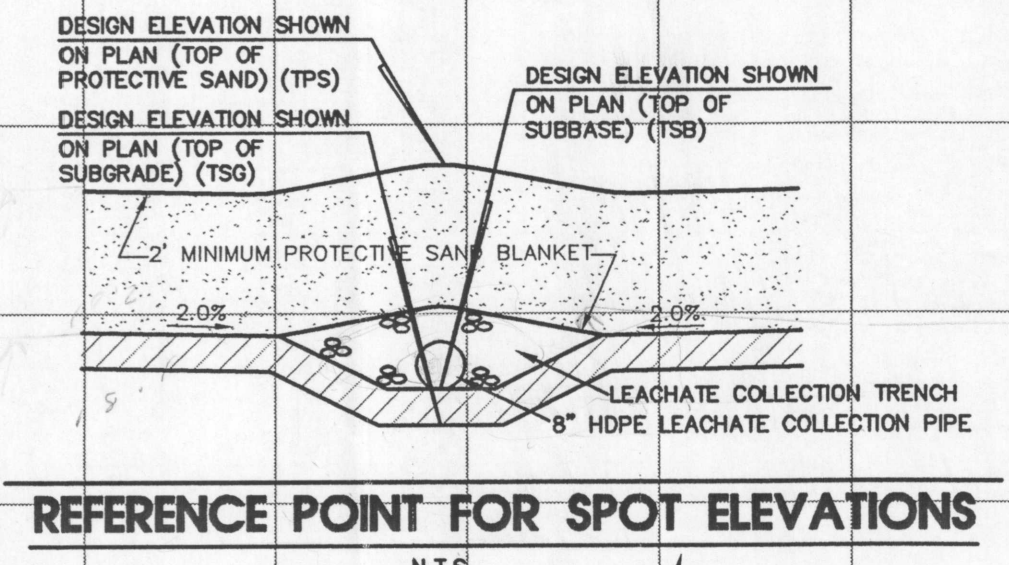
JOSEPH LESLIE REYNOLDS III  
PROFESSIONAL SURVEYOR AND MAPPER  
STATE OF FLORIDA, L.S. No. 5517



Maximum 0.25 in. Elevation for 744  
Total Error = 350.6 in. SL



| "AS-BUILT" SUMP TABLE |          |                |                  |
|-----------------------|----------|----------------|------------------|
| PHASE                 | LOCATION | TSB DESIGN EL. | TSB AS-BUILT EL. |
| IIC                   | N.W. #1  | 121.8          | 121.9            |
| IIC                   | N.W. #2  | 125.6          | 125.7            |
| IIC                   | N.E. #3  | 121.8          | 121.9            |
| IIC                   | N.E. #4  | 125.2          | 125.3            |
| IIC                   | S.E. #5  | 121.8          | 121.9            |
| IIC                   | S.E. #6  | 125.2          | 125.3            |
| IIC                   | S.W. #7  | 121.8          | 121.9            |
| IIC                   | S.W. #8  | 125.6          | 125.7            |



SUMP DETAIL  
N.T.S.

LEGEND  
TOP OF SUBBASE ELEVATION  
DESIGN EL.  
"AS-BUILT" EL.

- NOTES:
1. THE CLAY LAYER HAS BEEN AS-BUILT FROM STA. 80+30 (N) TO STA. 83+40 (N) AND FROM THE WESTERN ANCHOR BERM/TRENCH TO THE EASTERN ANCHOR BERM/TRENCH.
  2. THE PROTECTIVE SAND LAYER HAS BEEN AS-BUILT FROM STA. 80+45 (N) TO STA. 83+40 (N) FOR PHASE IIC AND FROM STA. 80+55 (N) TO STA. 83+40 (N) FOR PHASE IVC AND FROM THE WESTERN ANCHOR BERM TO THE EASTERN ANCHOR BERM.
  3. ALL DESIGN ELEVATIONS WERE PROVIDED BY ENGLAND, THIMS & MILLER, INC.
  4. LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS & MILLER, INC.
  5. ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. 301 AND STATE ROAD NO. 228. BENCH MARK ELEVATION: 88.412' (NGVD 1929)
  6. THE OUTSIDE EDGE OF THE ANCHOR BERM WAS THE LOCATION OF THE AS-BUILT.
  7. JURISDICTIONAL WETLANDS LINE DERIVED HEREON FROM PREVIOUS SURVEY BY SUNSHINE STATE SURVEYORS, INC., FILE NO. E900-3774, DATED 5-22-90.
  8. DATE OF LAST FIELD WORK: NOVEMBER 20, 2000 (PHASE IIC) AND JANUARY 16, 2001 (PHASE IVC)

- LEGEND
- EDGE OF PRIMARY AND SECONDARY LINER SYSTEM
  - Q OF VALLEY
  - Q OF RIDGE
  - HDPE LEACHATE CONTROL FLAP
  - HDPE STORMWATER CONTROL FLAP
  - EDGE OF PROTECTIVE SOIL LAYER
  - SURVEY CONTROL POINT
  - TSB
  - TPS
  - HDPE
  - TOP OF SUBBASE
  - TOP OF PROTECTIVE SAND
  - HIGH DENSITY POLYETHYLENE

"AS-BUILT"

SHEET LS-8

LINER SYSTEM - CLAY & SAND  
PHASES IIC AND IVC  
TRAIL RIDGE LANDFILL  
FOR TRAIL RIDGE LANDFILL, INC. AND  
CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)

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SINCE 1924  
14775 St. Augustine Road, Jacksonville, FL 32235  
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Certificate of Authorization No: LB 3624

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

JOSEPH LESLIE REYNOLDS III  
PROFESSIONAL SURVEYOR AND MAPPER  
STATE OF FLORIDA LS No. 5517

REVISIONS:  
1-02-01 ADDED AS-BUILTS FOR PHASE IVC AND UPDATED SURVEY NOTES.



| "AS-BUILT" SUBGRADE LOCATION TABLE |          |                                                                                   |
|------------------------------------|----------|-----------------------------------------------------------------------------------|
| PHASE                              | DATE:    | LOCATION:                                                                         |
| IIIC                               | 07-11-00 | STA. 80+60.00 TO STA. 81+60.00 (NORTH)<br>STA. 114+00.00 TO STA. 115+00.00 (EAST) |
| IIIC                               | 07-17-00 | STA. 80+60.00 TO STA. 82+10.00 (NORTH)<br>STA. 115+50.00 TO STA. 121+00.00 (EAST) |
| IIIC                               | 07-21-00 | STA. 80+30.00 TO STA. 82+10.00 (NORTH)<br>STA. 114+00.00 TO STA. 125+50.00 (EAST) |
| IIIC                               | 07-31-00 | STA. 82+02.50 TO STA. 82+17.50 (NORTH)<br>STA. 114+00.00 TO STA. 125+50.00 (EAST) |
| IIIC                               | 08-01-00 | STA. 82+00.50 TO STA. 82+16.50 (NORTH)<br>STA. 114+24.00 TO STA. 125+50.00 (EAST) |
| IIIC                               | 08-04-00 | STA. 82+15.50 TO STA. 83+10.00 (NORTH)<br>STA. 114+00.00 TO STA. 120+00.00 (EAST) |
| IIIC                               | 08-08-00 | STA. 82+15.50 TO STA. 83+39.00 (NORTH)<br>STA. 114+00.00 TO STA. 125+50.00 (EAST) |
| IIIC                               | 08-10-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 113+60.00 TO STA. 126+01.73 (EAST) |
| IIIC                               | 08-14-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 126+00.00 TO STA. 126+40.77 (EAST) |
| IIIC                               | 08-15-00 | STA. 80+30.00 TO STA. 82+60.00 (NORTH)<br>STA. 126+00.00 TO STA. 126+34.77 (EAST) |
| IIIC                               | 08-18-00 | STA. 79+75.00 TO STA. 80+22.00 (NORTH)<br>STA. 119+00.00 TO STA. 123+50.00 (EAST) |
| IVC                                | 09-01-00 | STA. 80+60.00 TO STA. 82+60.00 (NORTH)<br>STA. 101+00.00 TO STA. 104+00.00 (EAST) |
| IVC                                | 09-05-00 | STA. 80+30.00 TO STA. 83+35.00 (NORTH)<br>STA. 101+00.00 TO STA. 108+00.00 (EAST) |
| IVC                                | 09-06-00 | STA. 80+30.00 TO STA. 83+35.00 (NORTH)<br>STA. 104+50.00 TO STA. 108+50.00 (EAST) |
| IVC                                | 09-12-00 | STA. 82+05.10 TO STA. 82+14.60 (NORTH)<br>STA. 109+00.00 TO STA. 113+00.00 (EAST) |
| IVC                                | 09-13-00 | STA. 80+30.00 TO STA. 83+35.00 (NORTH)<br>STA. 100+57.00 TO STA. 100+99.00 (EAST) |
| IVC                                | 09-15-00 | STA. 80+30.00 TO STA. 83+35.00 (NORTH)<br>STA. 107+50.00 TO STA. 112+50.00 (EAST) |
| IVC                                | 09-15-00 | STA. 80+30.00 TO STA. 83+35.00 (NORTH)<br>STA. 107+50.00 TO STA. 112+50.00 (EAST) |
| IVC                                | 10-19-00 | STA. 82+10.00 TO STA. 83+37.00 (NORTH)<br>STA. 112+70.60 TO STA. 113+54.90 (EAST) |
| IVC                                | 11-28-00 | STA. 80+30.00 TO STA. 82+16.00 (NORTH)<br>STA. 113+00.00 TO STA. 113+50.00 (EAST) |

| "AS-BUILT" SUBBASE LOCATION TABLE |          |                                                                                   |
|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| PHASE                             | DATE:    | LOCATION:                                                                         |
| IIIC                              | 08-17-00 | STA. 82+06.40 TO STA. 83+40.00 (NORTH)<br>STA. 113+75.00 TO STA. 116+00.00 (EAST) |
| IIIC                              | 08-18-00 | STA. 80+30.00 TO STA. 82+12.50 (NORTH)<br>STA. 113+75.00 TO STA. 116+00.00 (EAST) |
| IIIC                              | 08-22-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 113+75.00 TO STA. 117+00.00 (EAST) |
| IIIC                              | 08-23-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 116+50.00 TO STA. 120+00.00 (EAST) |
| IIIC                              | 08-25-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 120+00.00 TO STA. 121+00.00 (EAST) |
| IIIC                              | 08-26-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 121+50.00 TO STA. 125+00.00 (EAST) |
| IIIC                              | 09-26-00 | STA. 82+06.50 TO STA. 83+40.00 (NORTH)<br>STA. 124+60.00 TO STA. 125+50.00 (EAST) |
| IIIC                              | 09-27-00 | STA. 82+60.00 TO STA. 83+40.00 (NORTH)<br>STA. 126+00.00 TO STA. 126+37.27 (EAST) |
| IIIC                              | 09-28-00 | STA. 80+60.00 TO STA. 82+32.41 (NORTH)<br>STA. 125+62.96 TO STA. 126+34.77(EAST)  |
| IIIC                              | 10-04-00 | STA. 80+30.00 TO STA. 81+60.00 (NORTH)<br>STA. 126+04.31 TO STA. 126+35.75 (EAST) |
| IIIC                              | 11-10-00 | STA. 80+60.00 TO STA. 83+40.00 (NORTH)<br>STA. 126+21.00 TO STA. 126+25.00 (EAST) |
| IIIC                              | 11-28-00 | STA. 80+60.00 TO STA. 83+40.00 (NORTH)<br>STA. 126+25.00 TO STA. 126+29.00 (EAST) |
| IVC                               | 10-06-00 | STA. 80+60.00 TO STA. 83+40.00 (NORTH)<br>STA. 101+00.00 TO STA. 106+00.00 (EAST) |
| IVC                               | 10-09-00 | STA. 80+60.00 TO STA. 80+30.00 (NORTH)<br>STA. 106+50.00 TO STA. 109+00.00 (EAST) |
| IVC                               | 10-10-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 100+63.40 TO STA. 112+00.00 (EAST) |
| IVC                               | 12-01-00 | STA. 80+30.00 TO STA. 83+40.00 (NORTH)<br>STA. 112+50.00 TO STA. 113+50.00 (EAST) |

| "AS-BUILT" SAND BLANKET LOCATION TABLE |          |                                                                                   |
|----------------------------------------|----------|-----------------------------------------------------------------------------------|
| PHASE                                  | DATE:    | LOCATION:                                                                         |
| IIIC                                   | 11-13-00 | STA. 81+10.00 TO STA. 83+40.00 (NORTH)<br>STA. 115+00.00 TO STA. 117+50.00 (EAST) |
| IIIC                                   | 11-14-00 | STA. 80+45.00 TO STA. 83+40.00 (NORTH)<br>STA. 118+00.00 TO STA. 123+50.00 (EAST) |
| IIIC                                   | 11-15-00 | STA. 80+45.00 TO STA. 83+40.00 (NORTH)<br>STA. 124+00.00 TO STA. 125+50.00 (EAST) |
| IIIC                                   | 11-20-00 | STA. 80+68.00 TO STA. 83+40.00 (NORTH)<br>STA. 114+00.00 (EAST)                   |
| IIIC                                   | 12-01-00 | STA. 80+05.00 TO STA. 82+15.00 (NORTH)<br>STA. 114+00.00 (EAST)                   |
| IVC                                    | 12-06-00 | STA. 80+55.00 TO STA. 80+65.00 (NORTH)<br>STA. 101+00.00 TO STA. 110+00.00 (EAST) |
| IVC                                    | 12-13-00 | STA. 80+60.00 TO STA. 83+40.00 (NORTH)<br>STA. 100+73.75 (EAST)                   |
| IVC                                    | 01-03-01 | STA. 80+55.00 TO STA. 80+65.00 (NORTH)<br>STA. 110+00.00 TO STA. 113+00.00 (EAST) |
| IVC                                    | 01-04-01 | STA. 81+10.00 TO STA. 83+40.00 (NORTH)<br>STA. 100+86.50 TO STA. 106+50.00 (EAST) |
| IVC                                    | 01-08-01 | STA. 80+55.00 TO STA. 83+40.00 (NORTH)<br>STA. 100+87.60 TO STA. 113+50.00 (EAST) |
| IVC                                    | 01-15-01 | STA. 81+10.00 TO STA. 83+40.00 (NORTH)<br>STA. 107+50.00 TO STA. 110+00.00 (EAST) |
| IVC                                    | 01-16-01 | STA. 81+10.00 TO STA. 83+40.00 (NORTH)<br>STA. 110+50.00 TO STA. 113+50.00 (EAST) |

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

JOSEPH LESLIE REYNOLDS, III  
PROFESSIONAL SURVEYOR AND MAPPER  
STATE OF FLORIDA LS No. 5517

REVISIONS:  
1-03-01 ADDED AS-BUILTS FOR PHASE IVC

AS-BUILT LOCATION TABLE  
PHASES IIIA, IIIB, IIIC, IVA, IVB AND IVC

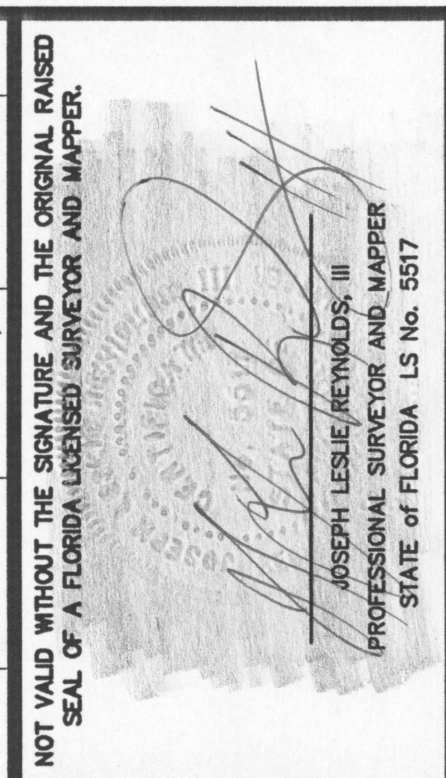
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Certificate of Authorization No. LS 3024





|            |          |                                                      |
|------------|----------|------------------------------------------------------|
| REVISIONS: | 12/16/96 | ADDED DRAINAGE STRUCTURES FOR PHASES IIIB, IVA, IVB. |
|            | 12/20/00 | ADDED DRAINAGE STRUCTURE S-152 FOR PHASE IIIC.       |
|            | 01/05/01 | ADDED DRAINAGE STRUCTURE S-151 FOR PHASE IVIC.       |

**DRAINAGE STRUCTURES  
PHASES IIIA, IIIB, IIIC, IVA, IVB AND IVC**

**TRAIL RIDGE LANDFILL  
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**SHEET D-5**

FILE NO.: **115F-20**



AS-BUILT DRAINAGE STRUCTURE TABLE

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 B)                       | 121.50        | 121.48  | 118.76 (S)     | 118.65 (S)               | 115.28 (30" HDPE W)<br>115.28 (42" R.C.P. W)<br>118.78 (15" R.C.P. N)    | FUTURE 30" HDPE W<br>115.23 (42" R.C.P. E)<br>118.58 (15" R.C.P. N)      | 84+80.00 (N)<br>126+78.01 (E)     | 84+80.18 (N)<br>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)             | 115.28 (42" R.C.P. W)<br>113.00 (42" R.C.P. S)                           | 115.17 (42" R.C.P. W)<br>112.90 (42" R.C.P. S)                           | 84+80.00 (N)<br>127+33.57 (E)     | 84+81.14 (N)<br>127+33.57 (E)     |
| S-29             | FDOT TYPE "E" INLET                                       | 121.50        | 121.52  | 118.76 (N&S)   | 118.77(N&S)              | 118.28 (42" R.C.P. E)<br>116.28 (42" C.M.P. W)                           | 118.48 (42" R.C.P. E)<br>116.50 (42" C.M.P. W)                           | 82+37.00 (N)<br>126+77.27 (E)     | 82+37.03 (N)<br>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)               | 118.28 (42" R.C.P. W)<br>110.96 (42" R.C.P. N)<br>110.48 (48" R.C.P. SE) | 115.80 (42" R.C.P. W)<br>110.85 (42" R.C.P. N)<br>110.50 (48" R.C.P. SE) | 82+37.00 (N)<br>127+32.27 (E)     | 82+45.61 (N)<br>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)<br>129+30.88 (E)     | 81+84.78 (N)<br>129+31.13 (E)     |
| S-33             | MOD. FDOT TYPE "E" INLET (DETAIL A)                       | 121.75        | 121.74  | 118.76 (N&S)   | 118.68 (N)<br>118.66 (S) | 115.00 (30" HDPE NW)<br>111.85 (42" R.C.P. SE)                           | FUTURE 30" HDPE NW<br>111.95 (42" R.C.P. SE)                             | 79+91.26 (N)<br>129+80.49 (E)     | 80+03.41 (N)<br>129+80.38 (E)     |
| S-34             | CONST. MITERED END INTO DITCH PAVING                      | —             | —       | —              | —                        | 111.85 (42" R.C.P. NW)                                                   | 111.94 (42" R.C.P. NW)                                                   | 79+81.92 (N)<br>127+19.07 (E)     | 79+83.30 (N)<br>127+17.68 (E)     |
| S-111            | -16" C.M.P.-                                              | —             | —       | —              | —                        | -143.70 (-16" C.M.P.-E)                                                  | -143.64 (-16" C.M.P.-E)                                                  | -82+58.59 (-N)<br>-109+37.59 (-E) | -82+58.82 (-N)<br>-109+37.63 (-E) |
| S-112            | -16" C.M.P.-                                              | —             | —       | —              | —                        | -142.70 (-16" C.M.P.-W)                                                  | -142.64 (-16" C.M.P.-W)                                                  | -82+58.59 (-N)<br>-103+91.09 (-E) | -82+58.54 (-N)<br>-103+90.91 (-E) |
| S-113            | -42" C.M.P.-                                              | —             | —       | —              | —                        | -103.80 (-42" C.M.P.-E)                                                  | -103.76 (-42" C.M.P.-E)                                                  | -82+58.59 (-N)<br>-103+39.09 (-E) | -82+58.55 (-N)<br>-103+38.09 (-E) |
| S-114            | -42" C.M.P.-                                              | —             | —       | —              | —                        | -102.40 (-42" C.M.P.-W)                                                  | -102.32 (-42" C.M.P.-W)                                                  | -82+58.59 (-N)<br>-104+80.60 (-E) | -82+58.05 (-N)<br>-104+80.44 (-E) |
| S-115            | -42" C.M.P.-                                              | —             | —       | —              | —                        | -101.00 (-42" C.M.P.-E)                                                  | -100.95 (-42" C.M.P.-E)                                                  | -82+58.59 (-N)<br>-105+87.00 (-E) | -82+58.07 (-N)<br>-105+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)<br>128+01.47 (E)     | 81+18.84 (N)<br>128+01.15 (E)     |
| S-119            | 10' X 8' BOX CULVERT BOX CULVERT WITH 9.75' X 54' ENDWALL | —             | —       | —              | —                        | 109.30                                                                   | 108.36                                                                   | 81+54.02 (N)<br>129+20.27 (E)     | 81+54.88 (N)<br>129+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)<br>126+78.77 (E)     | 88+40.74 (N)<br>126+78.37 (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)<br>126+78.77 (E)     | 87+87.18 (N)<br>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)<br>126+78.77 (E)     | 85+54.74 (N)<br>126+78.47 (E)     |

PHASES IIIB, IVA AND IVB

| STRUCTURE NUMBER | STRUCTURE DESCRIPTION                                 | TOP ELEVATION |              | SLOT ELEVATION |                          | INVERT ELEVATION                                    |                                              | STATION                       |                                  |
|------------------|-------------------------------------------------------|---------------|--------------|----------------|--------------------------|-----------------------------------------------------|----------------------------------------------|-------------------------------|----------------------------------|
|                  |                                                       | DESIGN        | ASBUILT      | DESIGN         | ASBUILT                  | DESIGN                                              | ASBUILT                                      | DESIGN                        | ASBUILT                          |
| S-2              | MOD. FDOT TYPE "E" INLET (DETAIL B)                   | 148.50        | 148.68       | 143.76 (N&S)   | 143.89 (N&S)             | 141.28 (30" HDPE E)<br>141.28 (42" R.C.P. W)        | 141.28 (42" R.C.P. W)                        | 88+87.00 (N)<br>100+21.00 (E) | 88+87.08 (N)<br>100+20.88 (E)    |
| S-3              | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 141.28 (42" R.C.P. E)                               | 141.37 (42" R.C.P. E)                        | 88+87.00 (N)<br>99+68.00 (E)  | 88+88.68 (N)<br>99+68.45 (E)     |
| S-24A            | MOD. FDOT TYPE "E" INLET (DETAIL A)                   | 121.50        | 121.45       | 118.76 (N&S)   | 118.71 (N)<br>118.67 (S) | 116.87 (30" HDPE W)<br>116.87 (42" R.C.P. E)        | 118.78 (30" HDPE W)<br>118.78 (42" R.C.P. E) | 88+80.00 (N)<br>129+78.77 (E) | 15701.7482 (N)<br>22530.5721 (E) |
| S-35             | FDOT TYPE "E" INLET                                   | 123.00        | 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)<br>124+21.39 (E) | 75+47.14 (N)<br>12418.7858 (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)<br>124+56.68 (E) | 75+01.83 (N)<br>12458.4795(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 W)<br>122.36 (42" R.C.P. S) | 122.31 (42" R.C.P. S)                        | 73+95.00 (N)<br>119+84.40 (E) | 73+94.27 (N)<br>119+82.94 (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)<br>119+70.00 (E) | 73+42.84 (N)<br>119+70.35 (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)<br>125.80 (42" R.C.P. S) | 125.89 (42" R.C.P. S)                        | 73+91.00 (N)<br>119+08.00 (E) | 73+91.32 (N)<br>115+06.72 (E)    |
| S-42             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 125.80 (42" R.C.P. N)                               | 125.89 (42" R.C.P. N)                        | 73+36.28 (N)<br>115+06.00 (E) | 73+35.38 (N)<br>115+05.96 (E)    |
| S-44             | MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-44) | 135.00        | 135.34       | 132.30 (W)     | 132.49 (W)               | 128.27 (FUTURE 30" HDPE N)<br>128.27 (42" R.C.P. S) | 128.22 (42" R.C.P. S)                        | 73+91.00 (N)<br>111+45.00 (E) | 73+91.04 (N)<br>111+45.22 (E)    |
| S-45             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 128.27 (42" R.C.P. N)                               | 128.33 (42" R.C.P. N)                        | 73+34.65 (N)<br>111+45.00 (E) | 73+34.77 (N)<br>111+45.64 (E)    |
| S-47             | MOD. FDOT TYPE "E" INLET (DETAIL B) (SEE DETAIL S-47) | 139.00        | 139.07       | 136.35 (W)     | 138.42 (W)               | 131.46 (FUTURE 30" HDPE N)<br>131.46 (42" R.C.P. S) | 130.73 (42" R.C.P. S)                        | 73+91.00 (N)<br>106+77.00 (E) | 73+90.82 (N)<br>106+77.11 (E)    |
| S-48             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 131.46 (42" R.C.P. N)                               | 131.54 (42" R.C.P. N)                        | 73+33.35 (N)<br>106+77.00 (E) | 73+33.46 (N)<br>106+76.98 (E)    |
| S-49             | FDOT TYPE "E" INLET (SEE DETAIL S-47)                 | 145.00        | 145.02       | 142.36 (N)     | 142.41 (N)               | 136.73 (24" R.C.P. W)<br>BOTTOM OF BOX              | 138.09 (24" R.C.P. W)                        | 74+30.00 (N)<br>100+21.00 (E) | 74+28.17 (N)<br>100+20.10 (E)    |
| S-50             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 136.73 (24" R.C.P. E)                               | 136.74 (24" R.C.P. E)                        | 74+30.00 (N)<br>99+60.00 (E)  | 74+29.82 (N)<br>99+60.39 (E)     |
| S-52             | MOD. FDOT TYPE "E" INLET (DETAIL B)                   | 148.50        | 148.59       | 143.76 (N&S)   | 143.83 (N)<br>143.80 (S) | 138.74 (FUTURE 30" HDPE E)<br>138.74 (42" R.C.P. W) | 138.13 (42" R.C.P. W)                        | 80+88.00 (N)<br>100+21.00 (E) | 80+87.27 (N)<br>100+20.68 (E)    |
| S-53             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 138.74 (42" R.C.P. E)                               | 138.70 (42" R.C.P. E)                        | 80+88.00 (N)<br>99+83.00 (E)  | 80+89.06 (N)<br>99+84.43 (E)     |
| S-55             | MOD. FDOT TYPE "E" INLET (DETAIL B)                   | 146.50        | 146.58       | 143.76 (N&S)   | 143.82 (N)<br>143.86 (S) | 140.13 (30" HDPE E)<br>140.13 (42" R.C.P. W)        | 140.28 (42" R.C.P. W)                        | 85+17.00 (N)<br>100+21.00 (E) | 85+17.28 (N)<br>100+20.49 (E)    |
| S-56             | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 140.13 (42" R.C.P. E)                               | 140.32 (42" R.C.P. E)                        | 85+17.00 (N)<br>99+85.74 (E)  | 85+19.10 (N)<br>99+86.77 (E)     |
| S-116            | 10' X 4' FDOT BOX CULVERT WITH 5.75' X 48' ENDWALL    | —             | 142.50       | —              | —                        | 136.71                                              | 136.94                                       | 74+24.15 (N)<br>99+55.00 (E)  | 74+24.71 (N)<br>99+56.87 (E)     |
| S-117            | 10' X 4' FDOT BOX CULVERT WITH 5.75' X 48' ENDWALL    | —             | 142.22       | —              | —                        | 136.42                                              | 136.36                                       | 73+36.15 (N)<br>99+55.00 (E)  | 73+35.68 (N)<br>99+54.78 (E)     |
| S-121            | 30" HDPE PIPE                                         | —             | —            | —              | —                        | 134.28 (30" HDPE E)                                 | 133.02 (30" HDPE E)                          | 84+80.00 (N)<br>126+19.57 (E) | 84+80.43 (N)<br>126+19.43 (E)    |
| S-122            | 30" HDPE PIPE                                         | —             | —            | —              | —                        | 159.00 (30" HDPE W)                                 | 159.00 (30" HDPE W)                          | 88+87.00 (N)<br>100+79.89 (E) | 88+87.68 (N)<br>100+79.89 (E)    |
| S-123            | 30" HDPE PIPE                                         | —             | —            | —              | —                        | 159.00 (30" HDPE W)                                 | 159.00 (30" HDPE W)                          | 88+17.00 (N)<br>100+79.40 (E) | 85+17.43 (N)<br>100+79.78 (E)    |
| S-124            | J-1-D MANHOLE                                         | 146.50        | 147.31 N. RM | —              | —                        | 141.42 EXIST 42"C.M.P.<br>141.42 (48" R.C.P. S)     | 141.51 (48" R.C.P. S)                        | 93+31.00 (N)<br>99+67.00 (E)  | 93+29.86 (N)<br>99+66.74 (E)     |
| S-125            | CONST. MITERED END INTO DITCH PAVING                  | —             | —            | —              | —                        | 141.30 (48" R.C.P. N)                               | 141.21 (48" R.C.P. N)                        | 91+46.00 (N)<br>99+67.00 (E)  | 91+51.62 (N)<br>99+68.37 (E)     |
| S-131            | 15" FDOT MITERED END SECTION                          | —             | —            | —              | —                        | 118.75 (15" R.C.P. S)                               | 118.01 (15" R.C.P. S)                        | 91+80.00 (N)<br>126+78.77 (E) | 91+85.87 (N)<br>126+78.61 (E)    |
| S-132            | 15" FDOT MITERED END SECTION                          | —             | —            | —              | —                        | 118.40 (15" R.C.P. S)                               | 119.40 (15" R.C.P. S)                        | 94+40.00 (N)<br>126+78.77 (E) | 94+44.48 (N)<br>127+07.76 (E)    |
| S-133            | 15" FDOT MITERED END SECTION                          | —             | —            | —              | —                        | 118.15 (15" R.C.P. N)                               | 119.34 (15" R.C.P. N)                        | 93+80.00 (N)<br>126+78.77 (E) | 93+76.83 (N)<br>126+83.58 (E)    |
| S-138            | J-1-C MANHOLE                                         | 127.50        | —            | —              | —                        | 118.76 (42" C.M.P. W)<br>118.76 (42" C.M.P. S)      | 119.54 (42" C.M.P. S)                        | 86+94.81 (N)<br>126+78.77 (E) | 87+02.72 (N)<br>127+81.43 (E)    |
| S-139            | 42" C.M.P.                                            | —             | —            | —              | —                        | 135.00 (42" C.M.P. E)                               | 135.29 (42" C.M.P. E)                        | 86+94.61 (N)<br>126+00.00 (E) | 87+05.29 (N)<br>128+64.01 (E)    |

PHASES IIIC AND IVC

| STRUCTURE NUMBER | STRUCTURE DESCRIPTION        | TOP ELEVATION |         | SLOT ELEVATION |         | INVERT ELEVATION   |                    | STATION                       |                               |
|------------------|------------------------------|---------------|---------|----------------|---------|--------------------|--------------------|-------------------------------|-------------------------------|
|                  |                              | DESIGN        | ASBUILT | DESIGN         | ASBUILT | DESIGN             | ASBUILT            | DESIGN                        | ASBUILT                       |
| S-152            | 18" FDOT MITERED END SECTION | —             | —       | —              | —       | 118.9 (18" R.C.P.) | 118.9 (18" R.C.P.) | 81+70.82 (N)<br>126+78.77 (E) | 81+70.83 (N)<br>126+78.48 (E) |
| S-151            | 30" HDPE PIPE                | —             | —       | —              | —       | 159.0 (30" HDPE W) | 159.1 (30" HDPE W) | 80+68.00 (N)<br>100+78.40 (E) | 80+68.90 (N)<br>100+78.80 (E) |

REVISIONS:  
12/16/96  
12/20/00  
01/05/01

ADDED DRAINAGE STRUCTURES FOR PHASES IIIB, IVA AND IVB.  
ADDED DRAINAGE STRUCTURE DATA FOR PHASE IIIC.  
ADDED DRAINAGE STRUCTURE DATA FOR PHASE IVC.

DRAINAGE STRUCTURE TABLES  
PHASES IIIA, IIIB, IIIC, IVA, IVB AND IVC  
FOR TRAIL RIDGE LANDFILL, INC. AND CITY OF JACKSONVILLE

(FORMERLY SUNSHINE STATE SURVEYORS)  
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"AS-BUILT"

SHEET D-6