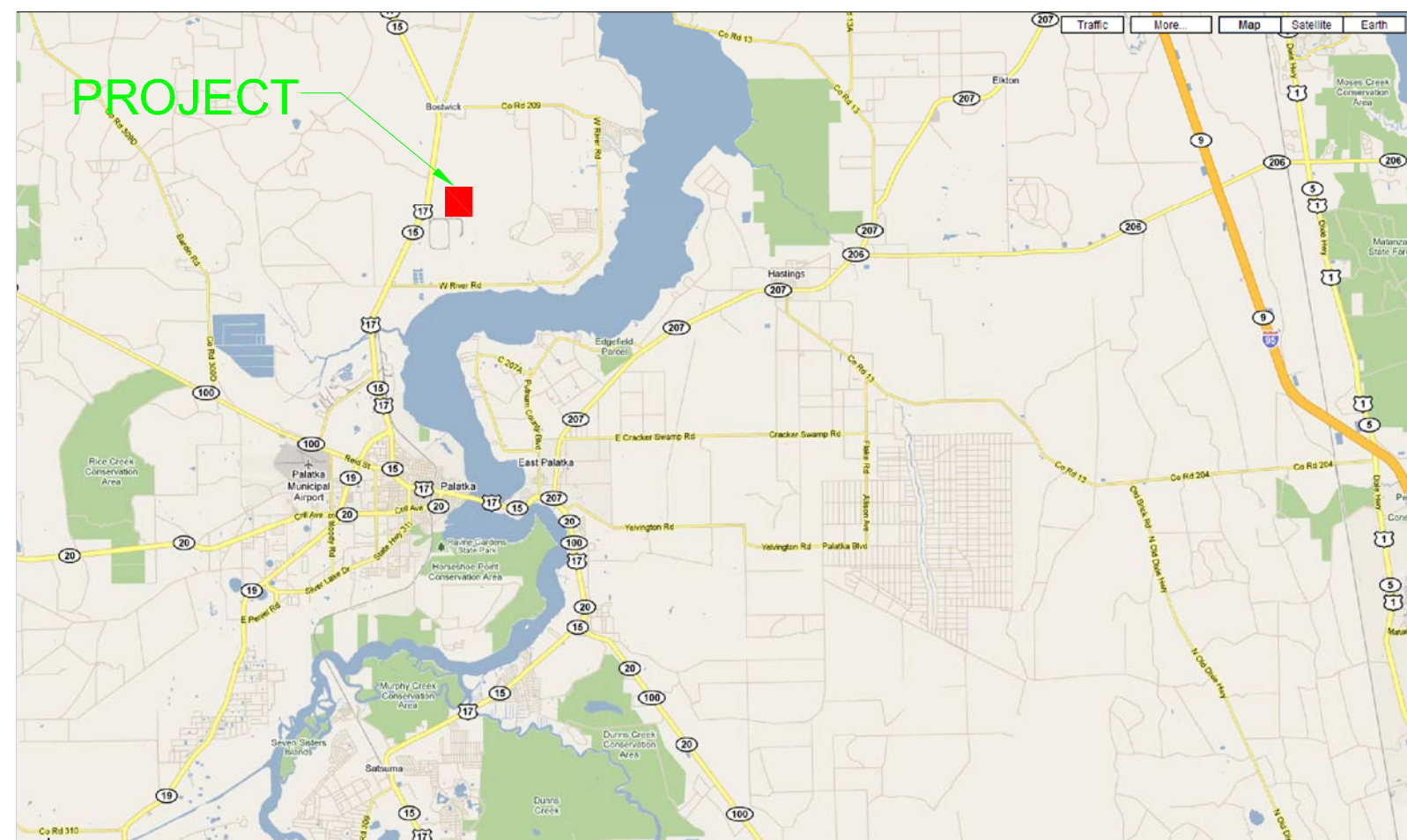


CONSTRUCTION DRAWINGS FOR INCREMENT 1 BUILDOUT AT SEMINOLE GENERATING STATION (SGS)



Seminole Generating Station ("SGS")
890 Highway 17 North
Palatka, Florida 32177

SECI BID NO. ____ - ____



16313 NORTH DALE MABRY HIGHWAY
TAMPA, FLORIDA 33618-1427

PLANS PREPARED BY:



An Employee - Owned Company

Consulting Engineers and Planners
482 South Keller Road
Orlando, Florida 32810
POST BUCKLEY, SCHUH & JERNIGAN, Inc.
d/b/a PBS&J
5300 West Cypress Street, Suite 200,
Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

LIST OF DRAWINGS

- C-1 COVER
- C-2 SITE PLAN
- C-3 EXISTING GRADE - OCTOBER 20, 2009
- C-4 LINER SUB-GRADE - GRADING PLAN
- C-4-A PHASE I LINER SUB-GRADE GRADING PLAN
- C-4-B PHASE I WEST TEMPORARY BERM GRADING PLAN AND SECTIONS
- C-4-C LINER INSTALLATION STAGES
- C-5 LANDFILL GEOMETRY
- C-6 CROSS SECTION A-A
- C-7 CROSS SECTION B-B
- C-8 CROSS SECTION C-C
- C-9 LINER - TYPICAL SECTIONS AND DETAILS
- C-10 LEACHATE COLLECTION PIPING SYSTEM - SHEET 1 OF 3
- C-11 LEACHATE COLLECTION PIPING SYSTEM - SHEET 2 OF 3
- C-12 LEACHATE COLLECTION PIPING SYSTEM - SHEET 3 OF 3
- C-13 STORMWATER POND B - FINAL GRADING PLAN
- C-14 STORMWATER POND B - SECTIONS AND DETAILS
- C-15 STORMWATER POND B - GEOMETRY PLAN 1
- C-16 STORMWATER POND B - GEOMETRY PLAN 2
- C-17 EROSION CONTROL DETAILS
- E-001 ELECTRICAL SYMBOLS, LEGEND AND GENERAL NOTES
- E-101 ELECTRICAL DEMOLITION PLAN
- E-102 ELECTRICAL POWER PLAN - AREA A
- E-103 ELECTRICAL POWER PLAN - AREA B
- E-104 ELECTRICAL POWER PLAN - AREA C

GENERAL NOTES

1. THE HORIZONTAL AND VERTICAL DATUM TO WHICH THE COORDINATES AND ELEVATIONS SHOWN ON THE DRAWINGS INCLUDING THE GROUNDWATER ELEVATIONS ARE REFERENCED IS THE FLORIDA STATE PLANE NORTHEAST ZONE NAD 27 NGVD 29.
2. THE INCREMENT 1 BUILDOUT LINER SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS, TECHNICAL SPECIFICATIONS AND CONSTRUCTION QUALITY ASSURANCE (CQA) PLAN AND WITH EPA DOCUMENT EPA/600/R-93/182.
3. THE QUALIFIED TESTING LABORATORY REQUIRED IN THE CQA PLAN FOR TESTING MATERIALS INCLUDING SOILS, GEOMEMBRANE SEAM SHEAR AND PEAL STRENGTH, INTERFACE SHEAR STRENGTH , ETC. SHALL BE INDEPENDENT OF THE LINER SYSTEM MANUFACTURER, LINER SYSTEM INSTALLER AND/OR THE CONTRACTOR.
4. THE QUALITY ASSURANCE ENGINEER SHALL OBSERVE ALL WORK, SAMPLING (I.E. SELECTION AND OBTAINMENT OF THE GEOMEMBRANE DESTRUCTIVE TEST SAMPLES, ETC.), AND FIELD TESTING ASSOCIATED WITH THIS PROJECT.
5. THE LINER SYSTEM FOR INCREMENT 1 BUILDOUT SHOWN ON THESE CONSTRUCTION DRAWINGS MAY BE INSTALLED IN STAGES.SEMINOLE ELECTRIC COOPERATIVE INC. (SECI) SHALL NOTIFY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 60 DAYS PRIOR TO STARTING THE INSTALLATION OF ANY NEW STAGE IN THE LINER SYSTEM. UPON COMPLETION OF EACH LINER STAGE, THE QUALITY ASSURANCE ENGINEER SHALL CERTIFY TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, SOLID WASTE SECTION OF THE NORTHEAST DISTRICT, ON FDEP FORM 62-701.900 (2) THAT THE STAGE HAS BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND CQA PLAN. INCLUDED WITH THE CERTIFICATION SHALL BE THE RECORD CONSTRUCTION DRAWINGS AND CONSTRUCTION QUALITY ASSURANCE REPORT.
6. NO DEWATERING IS ANTICIPATED FOR THIS PROJECT. IF THE CONTRACTOR FINDS IT NECESSARY TO DEWATER FOR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, NORTHEAST DISTRICT OFFICE, SOLID WASTE SECTION (PHONE # 904-807-3356) TO REQUEST AUTHORIZATION. NO WATER FROM DEWATERING ACTIVITIES MAY BE DISCHARGED TO SURFACE WATER WET DETENTION SYSTEMS. THE CONTRACTOR MAY DISCHARGE WATER FROM DEWATERING ACTIVITIES TO SECI WASTEWATER PONDS 3, OR 8.
7. PRIOR TO START OF CONSTRUCTION, SECI SHALL APPLY FOR A NPDES GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE APPLICATION MUST BE SUBMITTED TO DEP-NPDES NOTICES CENTER IN TALLAHASSEE.

SEPTEMBER 23, 2010

ENGINEER'S PROJECT NO. 100013496

Name: JOSEPH L. MILLER

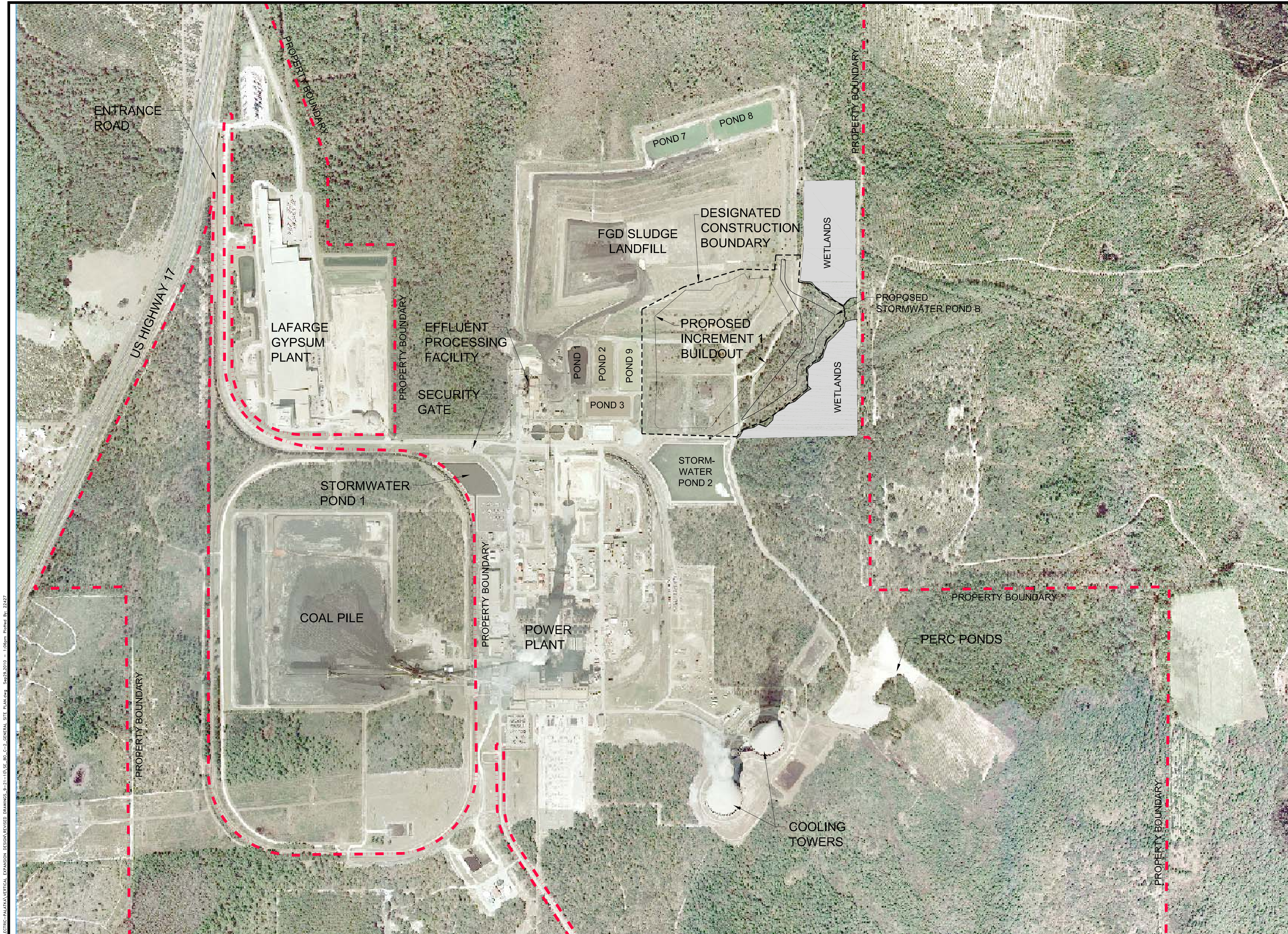
Florida P.E. No.: 39177

Signature

Date

C-1

SHEET 1 / 25



0 200 400 800
GRAPHIC SCALE
SCALE: 1" = 400'

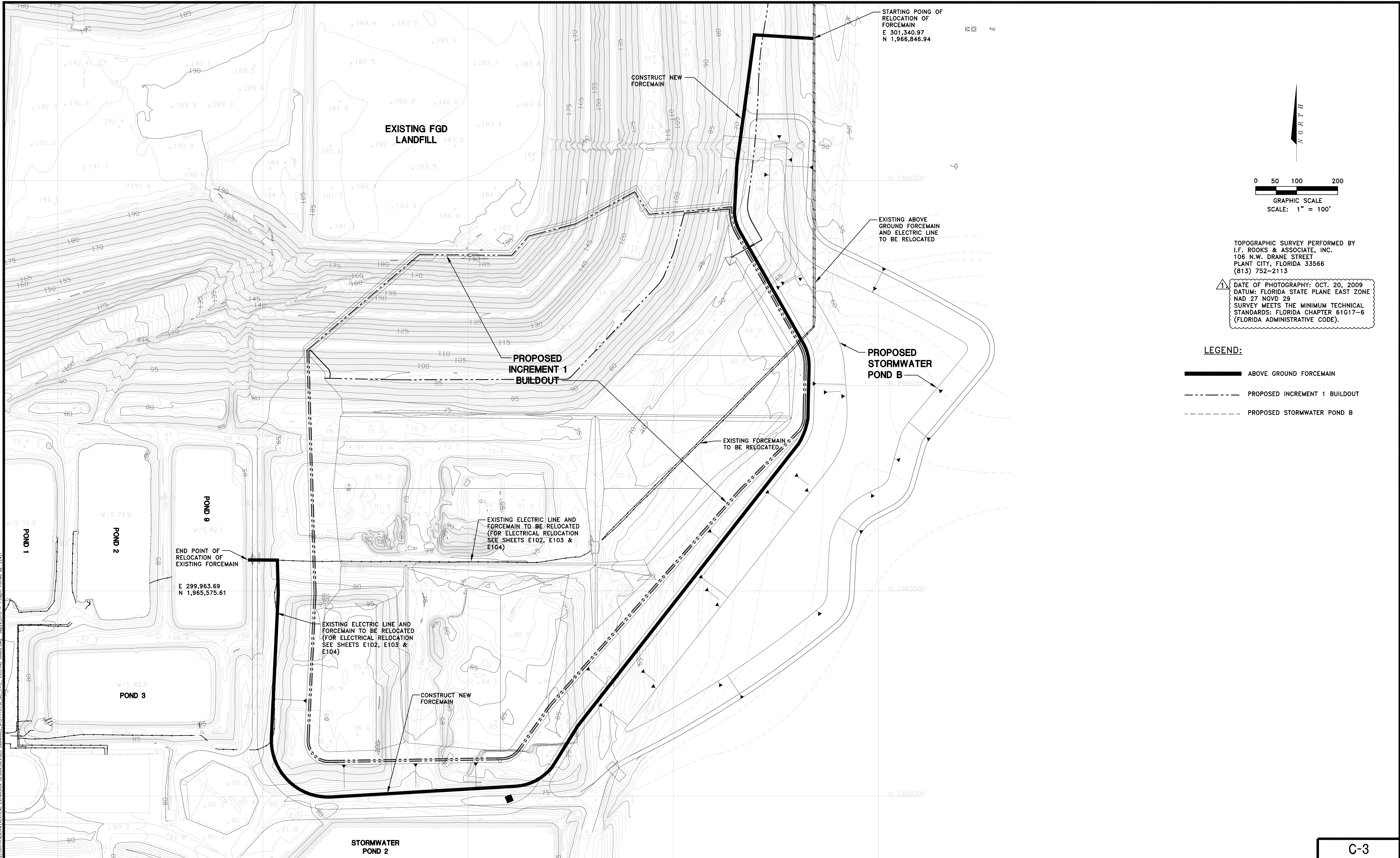
LEGEND:

- PROPERTY BOUNDARY
- PROPOSED INCREMENT 1 BUILDOUT
- PROPOSED STORMWATER POND B
- APPROXIMATE LIMITS OF DESIGNATED CONSTRUCTION AREA BOUNDARY WHERE EROSION CONTROLS HAVE TO BE IMPLEMENTED. A SILT FENCE SHALL BE USED ALONG THE CONSTRUCTION AREA BOUNDARY PER DETAILS 1-10 ON C-17

C-2

482 South Keller Road ORLANDO, FL 32810-6101 TEL. (407) 647-7275 FAX. (407) 647-0624 WWW.PBSJ.COM POST-BUCKLEY, SCHUH & JERNIGAN, Inc. 6750 West Cypress Street, Suite 200, Tampa, FL 33607 FBPR Certificate of Authorization No.: 24	CLIENT	PROJECT	TASK	ORIGINAL JULY 16, 2010 REVISIONS: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____	6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____	Name: JOSEPH L. MILLER Florida P.E. No.: 39177 Address: PBS&J 482 S. Keller Road Orlando, FL 32810-6101 Signature _____ Date _____	JOB NO.100013496 DRAWN _____ RGC DESIGN _____ RGC/JLM CHECKED _____ JLM Q.C. _____ DED
	SEMINOLE ELECTRIC COOPERATIVE, INC (SECI)	INCREMENT 1 BUILDOUT AT SEMINOLE GENERATING STATION (SGS)	SITE PLAN				
							SHEET 2 /25

U:\049-3\CONCORDIA WESTMAN\SEMINOLE ELECTRIC-PALATKA\VERTICAL EXPANSION DESIGN\REVISED DRAWINGS_9-21-10\USE-10-C-2-GENERAL SITE PLAN.dwg Sep 22, 2010 - 1:06pm Plotted By: 22427



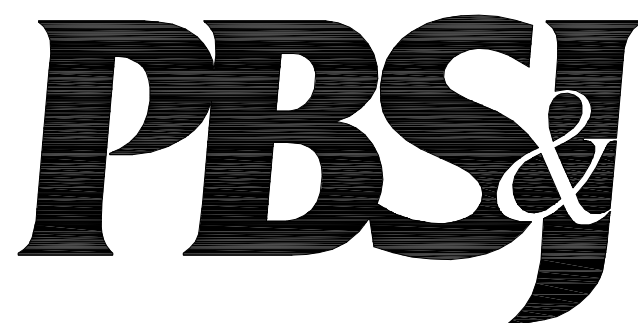
TOPOGRAPHIC SURVEY PERFORMED BY
I.F. ROOKS & ASSOCIATE, INC.
106 N.W. DRANE STREET
PLANT CITY, FLORIDA 33566
(813) 752-2113

DATE OF PHOTOGRAPHY: OCT. 20, 2009
DATUM: FLORIDA STATE PLANE EAST ZONE
NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
(FLORIDA ADMINISTRATIVE CODE).

LEGEND:

- ABOVE GROUND FORCEMAIN
- - - PROPOSED INCREMENT 1 BUILDOUT
- - - PROPOSED STORMWATER POND B

C-3



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ORLANDO, FL 32810-6101
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6750 G. PBS&J
5300 West Cypress Street, Suite 200,
Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

CLIENT
**SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)**

PROJECT
**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

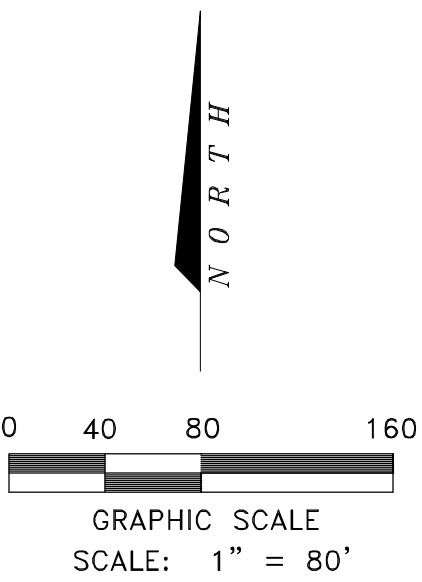
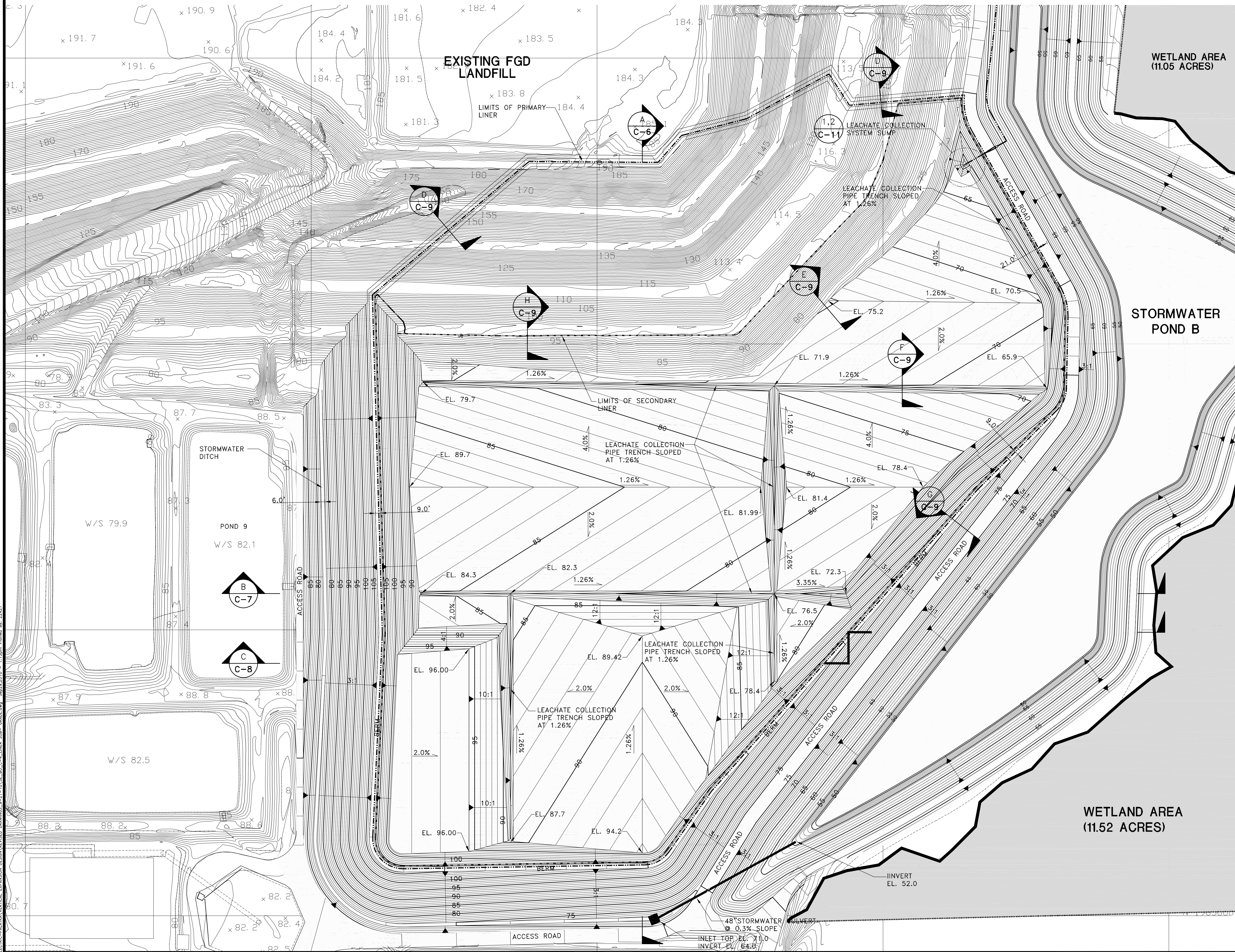
TASK
**EXISTING GRADE
OCTOBER 20, 2009**

ORIGINAL JULY 16, 2010
REVISIONS:
1. AUG. 26, 2010
2.
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4.
5.

6.
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11.
12.

Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO.100013496
DRAWN RGC
DESIGN RGC/JLM
CHECKED JLM
Q.C. DED
SHEET 3 / 25



TOPOGRAPHIC SURVEY PERFORMED BY
I.F. ROOKS & ASSOCIATE, INC.
106 N.W. DRANE STREET
PLANT CITY, FLORIDA 33566
(813) 752-2113

DATE OF PHOTOGRAPHY: OCT. 20, 2009
DATUM: FLORIDA STATE PLANE EAST ZONE
NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
(FLORIDA ADMINISTRATIVE CODE).

- LEGEND:
- LIMITS OF PRIMARY LINER
 - LIMITS OF SECONDARY LINER
 - SLOTTED TYPE "H" INLET FDOT INDEX #232 FOR 48" PIPE

NOTE:

1. CONSTRUCTION TOLERANCE $\pm 0.1'$, SURVEY TOLERANCE $\pm 0.01'$. ALL SLOPES SHOWN ARE MINIMUM SLOPES.
2. AFTER CONSTRUCTION OF LINER SUBGRADE, CONTRACTOR MUST SURVEY THE SUBGRADE USING A 50' ON CENTER GRID AND AT ALL SLOPE BREAKS, AND PROVIDE SURVEY NOTES TO COA ENGINEER FOR APPROVAL TO DOCUMENT THAT THE LINER SUBGRADE IS CONSTRUCTED TO THE PROPER ELEVATIONS AND SLOPES PRIOR TO PLACING THE GCL.
3. PURSUANT TO RULE 62-701.400(4) (C), F.A.C., THE APPLICANT WILL SURVEY (AND PROVIDE THE SURVEY) THE BOTTOM LINER SYSTEM SLOPES AFTER CONSTRUCTION COMPLETION USING A 50-FOOT GRID IN AREAS WHICH DRAIN TO LATERAL COLLECTION PIPES AND HEADER PIPES, AND AT 50-FOOT INTERVALS WHERE PIPES OF THE LEACHATE COLLECTION SYSTEM ARE TO BE INSTALLED.

—ALL LINER SUBGRADE SLOPES ARE MINIMUM SLOPE AND ARE SHOWN TO FIRST DECIMAL POINT.

—STORMWATER POND WAS MOVED ON THE WEST SIDE TO PROVIDE MORE VOLUME FOR THE WET POND.

—LANDFILL EAST BERM WAS REVISED TO ACCOMMODATE THE REVISED STORMWATER POND.

C-4



482 South Keller Road
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6750 G. P.B.S. & J.
5300 West Cypress Street, Suite 200,
Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

CLIENT

SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)

PROJECT

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

TASK

LINER SUB-GRADE
GRADING PLAN

ORIGINAL JULY 16, 2010

REVISIONS:

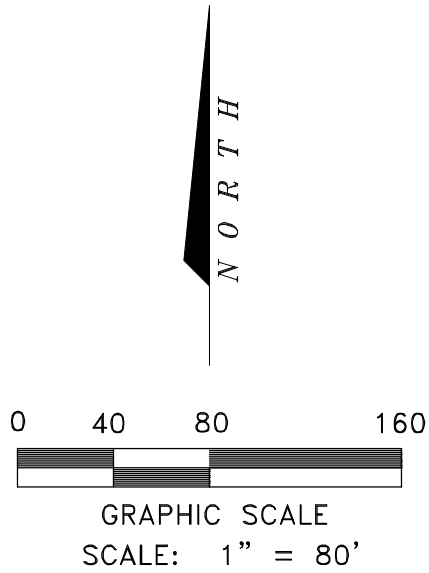
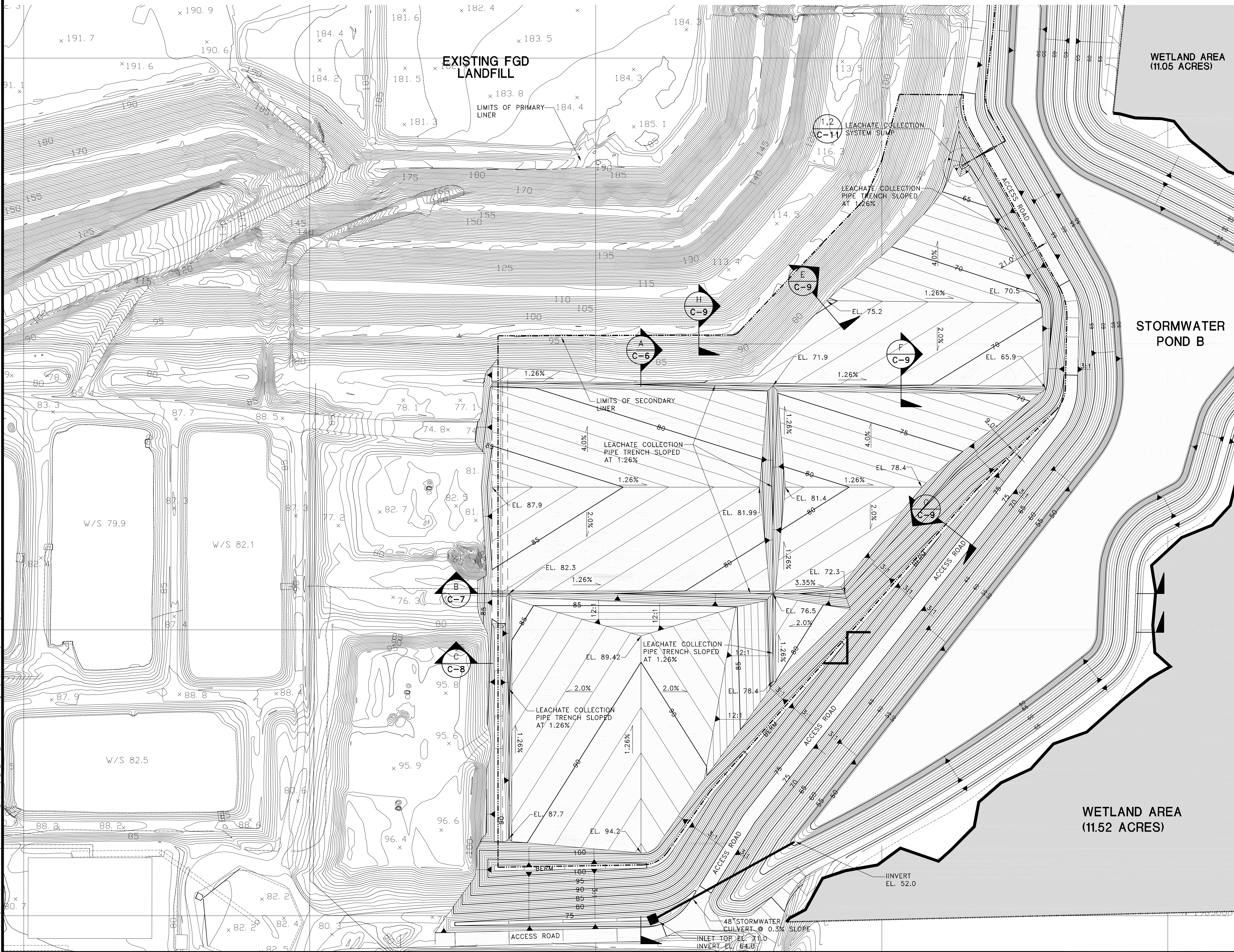
1. AUG. 26, 2010

2.
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Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN: RGC
DESIGN: RGC/JLM
CHECKED: JLM
Q.C.: DED
SHEET 4/25



TOPOGRAPHIC SURVEY PERFORMED BY
I.F. ROCKS & ASSOCIATE, INC.
106 N.W. DRANE STREET
PLANT CITY, FLORIDA 33566
(813) 752-2113

DATE OF PHOTOGRAPHY: OCT. 20, 2009
DATUM: FLORIDA STATE PLANE EAST ZONE
NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
(FLORIDA ADMINISTRATIVE CODE).

- LEGEND:
- LIMITS OF PRIMARY LINER
 - LIMITS OF SECONDARY LINER
 - SLOTTED TYPE "H" INLET FDOT INDEX #232 FOR 48" PIPE

- NOTE:
1. CONSTRUCTION TOLERANCE $\pm 0.1'$, SURVEY TOLERANCE $\pm 0.01'$. ALL SLOPES SHOWN ARE MINIMUM SLOPES.
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482 South Keller Road
ORLANDO, FL 32810-6101
TEL (407) 647-7275
FAX (407) 647-0624
WWW.PBSJ.COM

POST BUCKLEY, SCHUH & JERNIGAN, Inc.
6750 G. P.B.S. J.
5300 West Cypress Street, Suite 200,
Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

CLIENT

**SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)**

PROJECT

**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

TASK

**PHASE I LINER SUB-GRADE
GRADING PLAN**

ORIGINAL JULY 16, 2010
REVISIONS:

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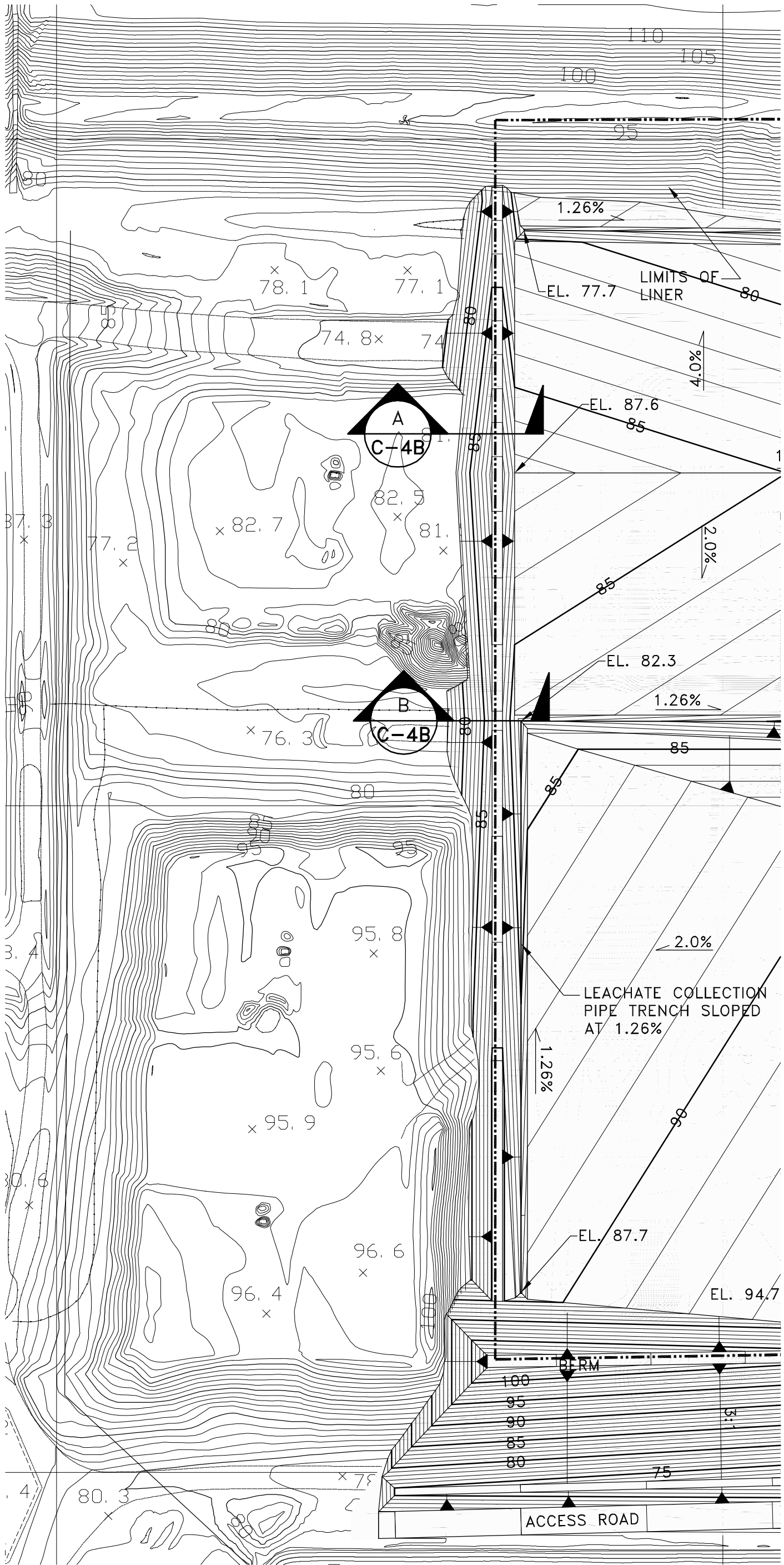
Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101

Signature _____ Date _____

JOB NO. 100013496
DRAWN RG
DESIGN RG/JLM
CHECKED JLM
Q.C. DED

SHEET 5/25

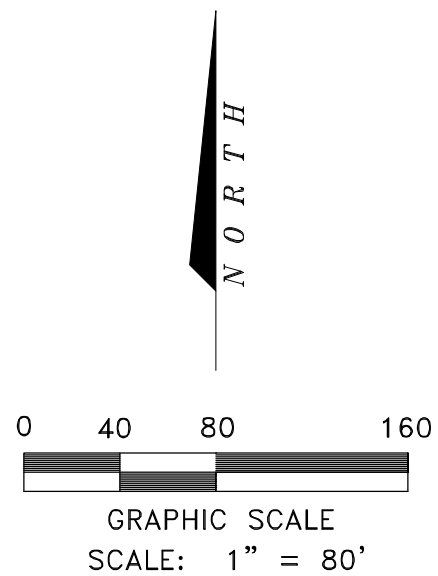
U:\0411-15\LANDOWN\WASTEWATER\SEMINOLE ELECTRIC-PALATKA\VERTICAL EXPANSION DESIGN\REVISED DRAWINGS-9-21-10\USE-180-C-4-B LINER SUB- GRADE.dwg Sep24,2010 1:12:30m Plotted By: 22427



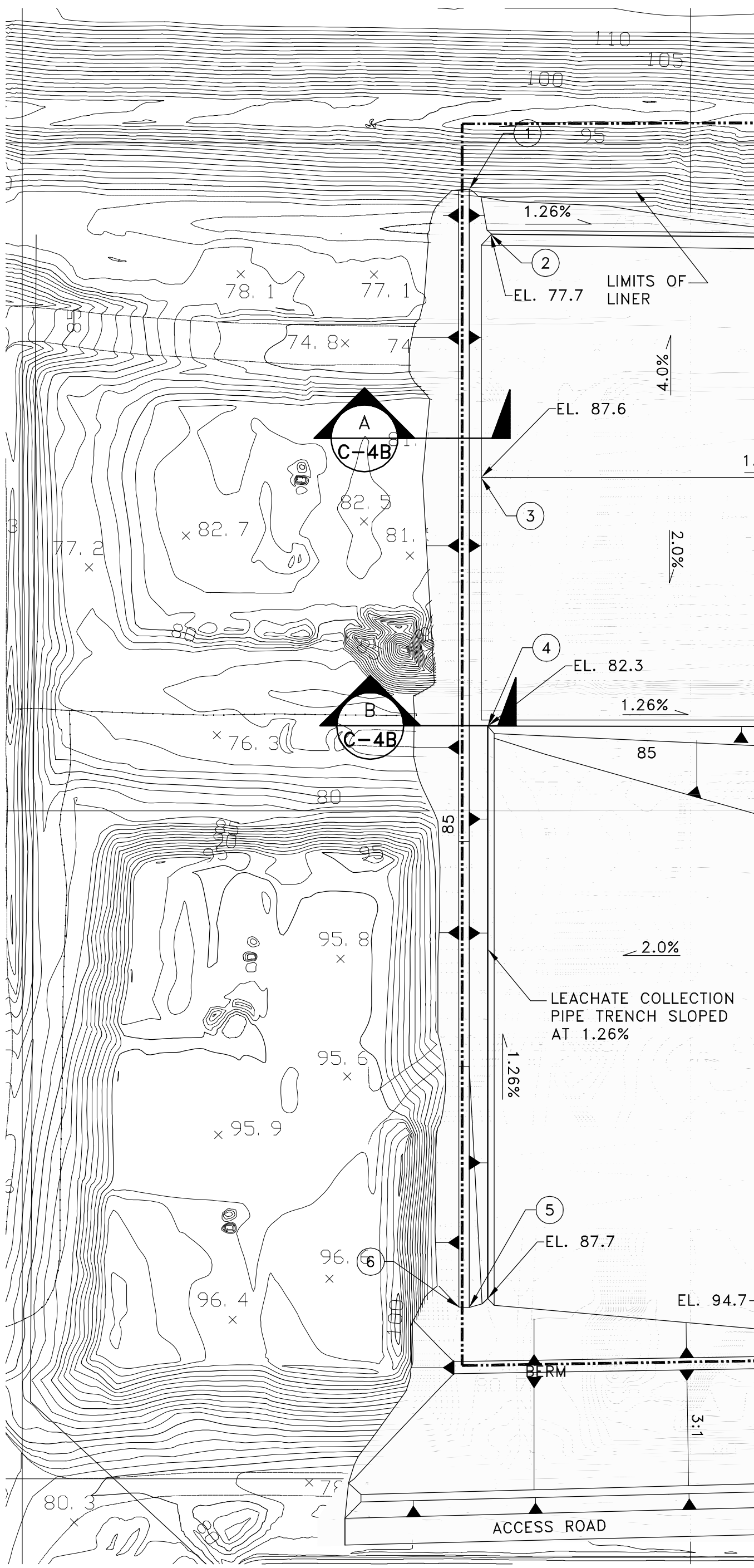
GRADING PLAN

TOPOGRAPHIC SURVEY PERFORMED BY
I.F. ROOKS & ASSOCIATE, INC.
106 N.W. DRANE STREET
PLANT CITY, FLORIDA 33566
(813) 752-2113

DATE OF PHOTOGRAPHY: OCT. 20, 2009
DATUM: FLORIDA STATE PLANE EAST ZONE
NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
(FLORIDA ADMINISTRATIVE CODE).



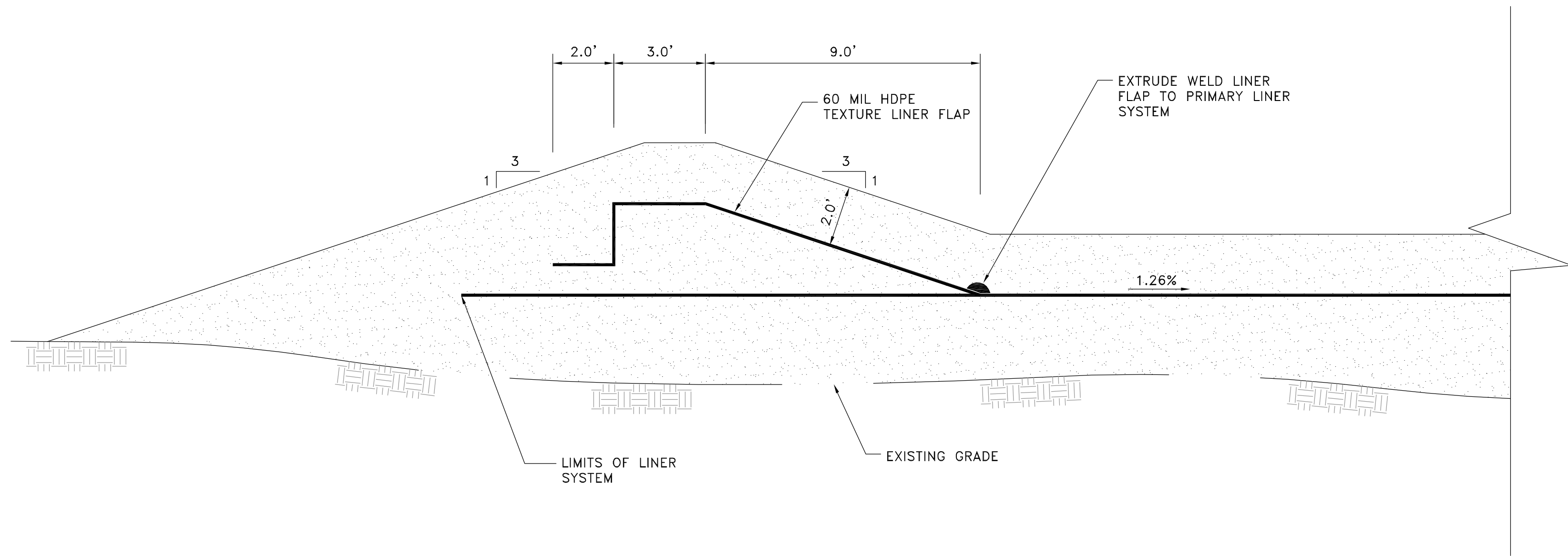
LEGEND:
----- LIMITS OF PRIMARY LINER



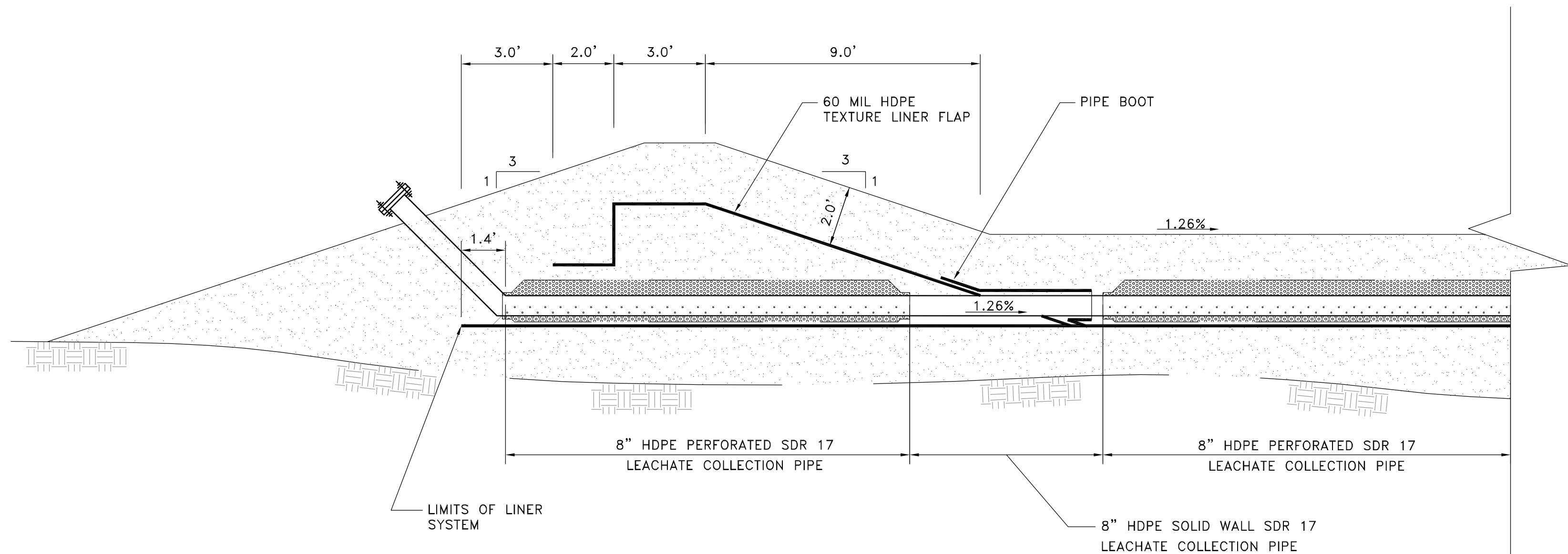
GEOMETRY

NUM.	EASTING	NORTHING	ELEV	DESCRIPTION
1	300,334.63	1,965,965.15	81.9	TOP OF TEMP. BERM
2	300,351.42	1,965,931.68	77.7	COLLECTION PIPE
3	300,343.63	1,965,749.43	87.6	CELL BOTTOM
4	300,348.38	1,965,563.30	82.3	COLLECTION PIPE
5	300,334.63	1,965,128.21	90.4	TOP OF TEMP. BERM
6	300,326.63	1,965,128.41	90.1	TOP OF TEMP. BERM

- NOTE:
- CONSTRUCTION TOLERANCE $\pm 0.1'$, SURVEY TOLERANCE $\pm 0.01'$. ALL SLOPES SHOWN ARE MINIMUM SLOPES.
 - AFTER CONSTRUCTION OF LINER SUBGRADE, CONTRACTOR MUST SURVEY THE SUBGRADE USING A 50' ON CENTER GRID AND AT ALL SLOPE BREAKS, AND PROVIDE SURVEY NOTES TO CQA ENGINEER FOR APPROVAL TO DOCUMENT THAT THE LINER SUBGRADE IS CONSTRUCTED TO THE PROPER ELEVATIONS AND SLOPES PRIOR TO PLACING THE GCL.
 - PURSUANT TO RULE 62-701.400(4) (C), F.A.C., THE APPLICANT WILL SURVEY (AND PROVIDE THE SURVEY) THE BOTTOM LINER SYSTEM SLOPES AFTER CONSTRUCTION COMPLETION USING A 50-FOOT GRID IN AREAS WHICH DRAIN TO LATERAL COLLECTION PIPES AND HEADER PIPES, AND AT 50-FOOT INTERVALS WHERE PIPES OF THE LEACHATE COLLECTION SYSTEM ARE TO BE INSTALLED.



SECTION A
SCALE: N.T.S.



SECTION B
SCALE: N.T.S.

C-4-B



482 South Keller Road
ORLANDO, FL 32810-6101
TEL. (407) 647-7275
FAX. (407) 647-0624
WWW.PBSJ.COM
POST BUCKLEY, SCHUH & JERNIGAN, Inc.
6750/a PBS&J
5300 West Cypress Street, Suite 200,
Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

CLIENT
**SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)**

PROJECT
**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

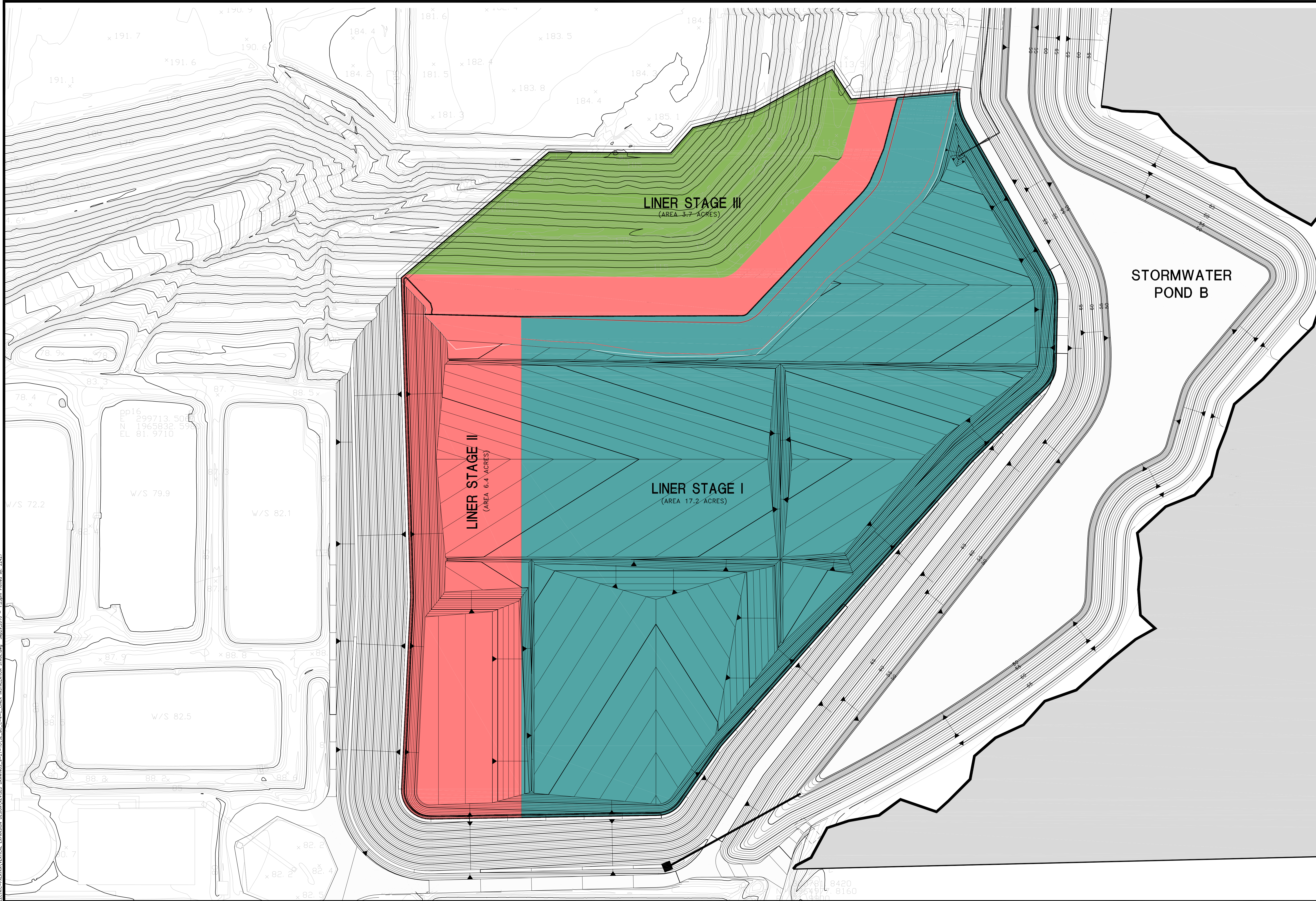
TASK
**PHASE I
WEST TEMPORARY BERM
GRADING PLAN AND SECTIONS**

ORIGINAL JULY 16, 2010
REVISIONS:
1. _____
2. _____
3. _____
4. _____
5. _____

6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN RG
DESIGN RG
CHECKED JLM
Q.C. DED
SHEET 6/25



TOPOGRAPHIC SURVEY PERFORMED BY
I.F. ROOKS & ASSOCIATE, INC.
106 N.W. DRANE STREET
PLANT CITY, FLORIDA 33566
(813) 752-2113

DATE OF PHOTOGRAPHY: OCT. 20, 2009
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NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
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C-4-C



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5300 West Cypress Street, Suite 200,
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FBPR Certificate of Authorization No.: 24

CLIENT

SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)

PROJECT

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

TASK

LINER INSTALLATION STAGES

ORIGINAL JULY 16, 2010
REVISIONS:

1. _____
2. _____
3. _____
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6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN: RGC
DESIGN: RGC/JLM
CHECKED: JLM
Q.C.: DED
SHEET 7/25

3. PURSUANT TO RULE 62-701.400(4) (C), F.A.C., THE APPLICANT WILL SURVEY (AND PROVIDE THE SURVEY) THE BOTTOM-LINER SYSTEM SLOPES AFTER CONSTRUCTION COMPLETION USING A 50-FOOT GRID IN AREAS WHICH DRAIN TO LATERAL COLLECTION PIPES AND HEADER PIPES AND AT 50-FOOT INTERVALS WHERE PIPES OF THE LEACHATE COLLECTION SYSTEM ARE TO BE INSTALLED.

DATE OF PHOTOGRAPHY: OCT. 20, 2009
DATUM: FLORIDA STATE PLANE EAST ZONE
NAD 27 NGVD 29
SURVEY MEETS THE MINIMUM TECHNICAL
STANDARDS: FLORIDA CHAPTER 61G17-6
(FLORIDA ADMINISTRATIVE CODE).

LIMITS OF SECONDARY LINER

482 South Keller Road
ORLANDO, FL 32810-6101
TEL. (407) 647-7275
FAX. (407) 647-0624
WWW.PBSJ.COM

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d/b/a PBS&J
5300 West Cypress Street, Suite 200,
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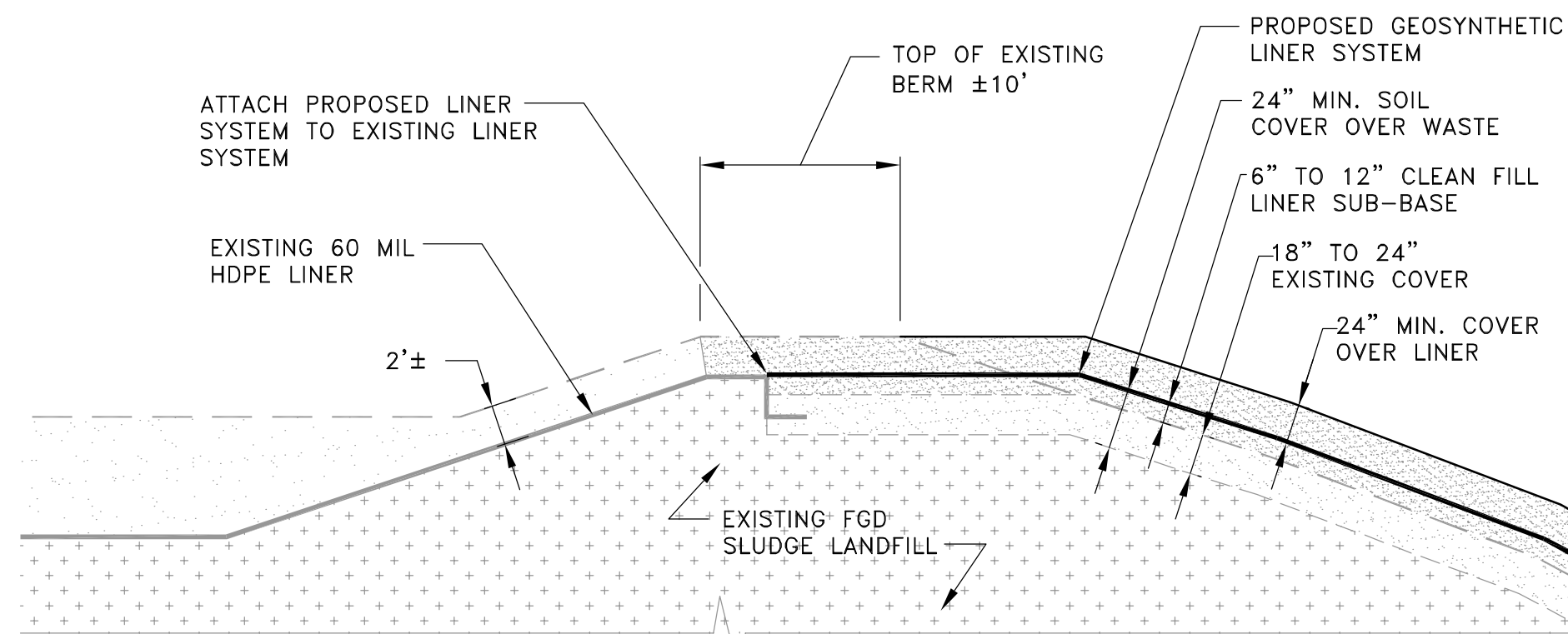
**SEMINOLE ELECTRIC
COOPERATIVE, INC
(SEC)**

**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

LANDFILL GEOMETRY

5. _____

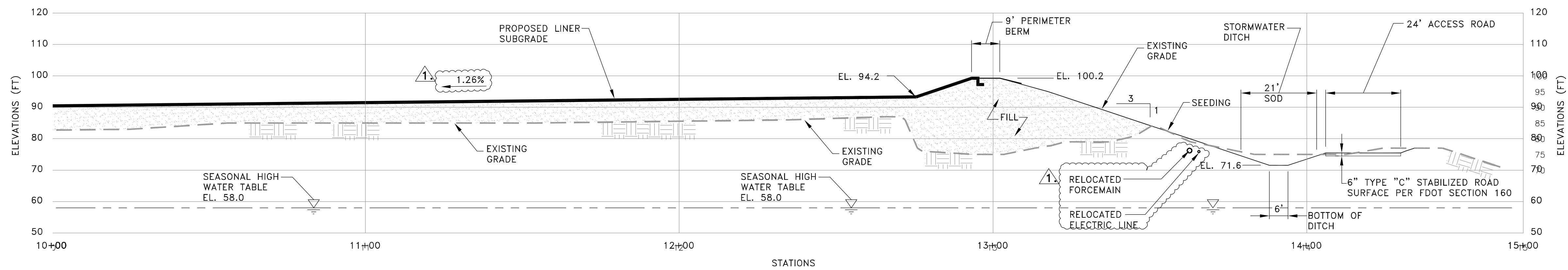
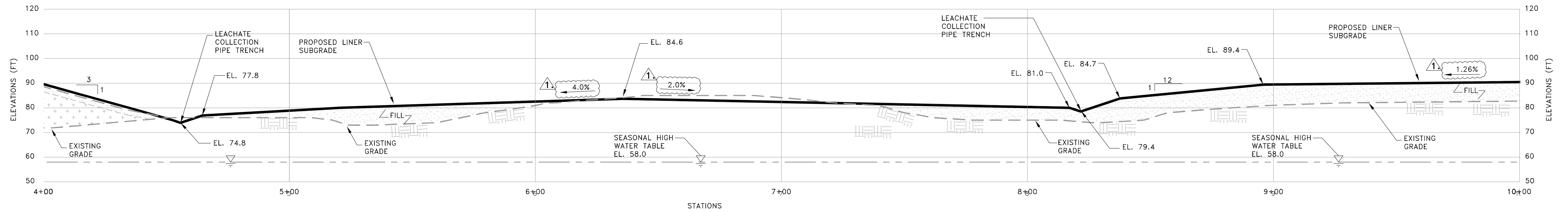
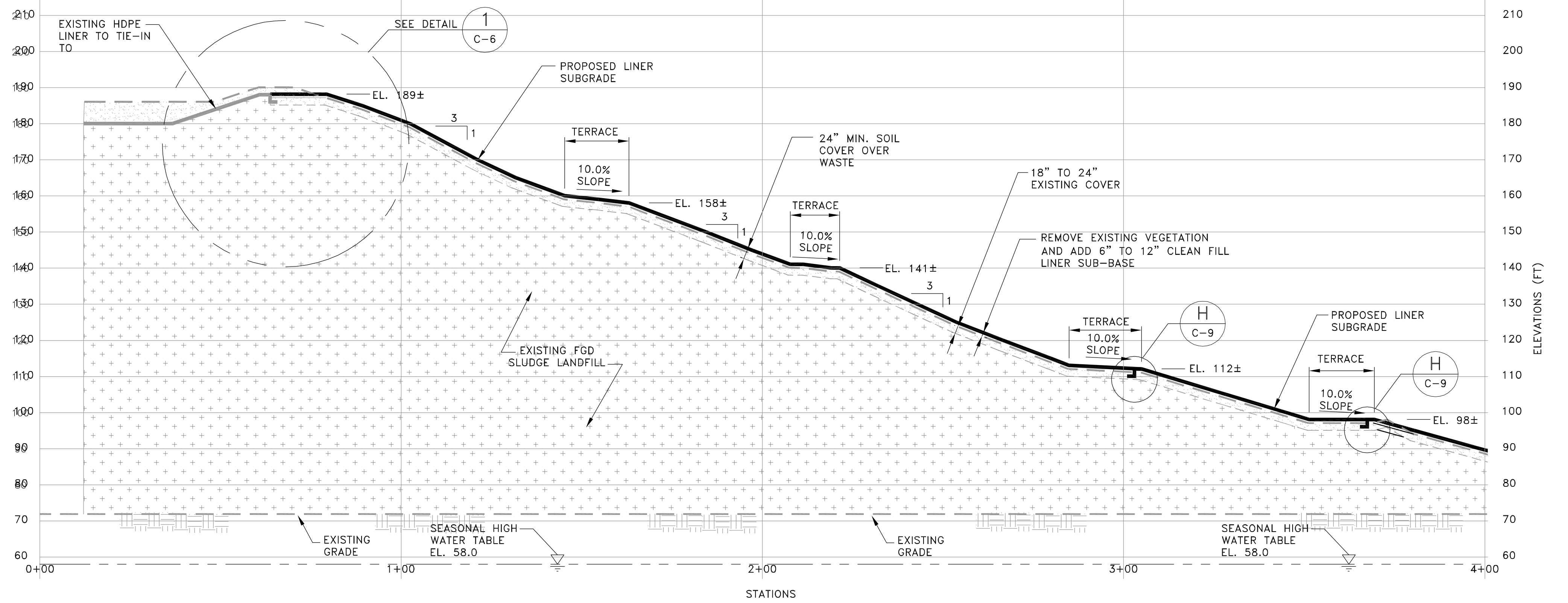
U:\049-15\CONCRETE\WATERMAIN\SEMINOLE ELECTRIC-PALATKA\VERTICAL EXPANSION DESIGN\REVISED DRAWINGS-9-21-10\USE-10-C-6-C-7-C-8 CROSS SECTIONS.dwg Sep28,2010 - 1:35pm Plotted By: 22427



GEOMEMBRANE TIE-IN TO EXISTING LINER SECTION

SCALE: 1"= 20'

1
C-6

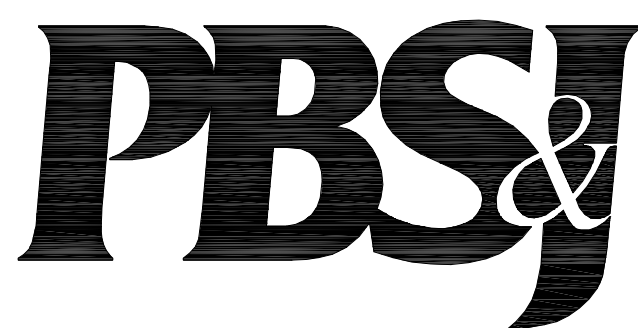


SECTION

SCALE: 1"= 20'

A
C-4

C-6



482 South Keller Road
ORLANDO, FL 32810-6101
TEL. (407) 647-7275
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CLIENT

SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)

PROJECT

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

TASK

CROSS SECTION
A-A

ORIGINAL JULY 16, 2010

REVISIONS:

1. AUG. 26, 2010

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Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101

Signature _____ Date _____

JOB NO. 100013496

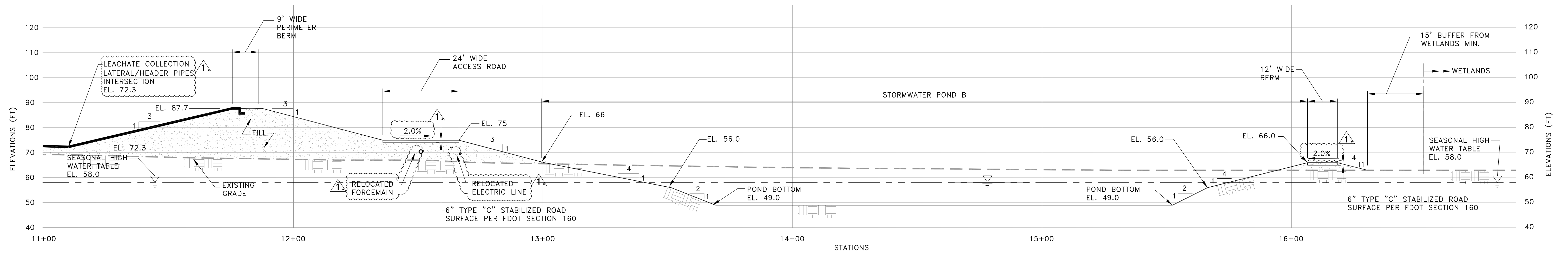
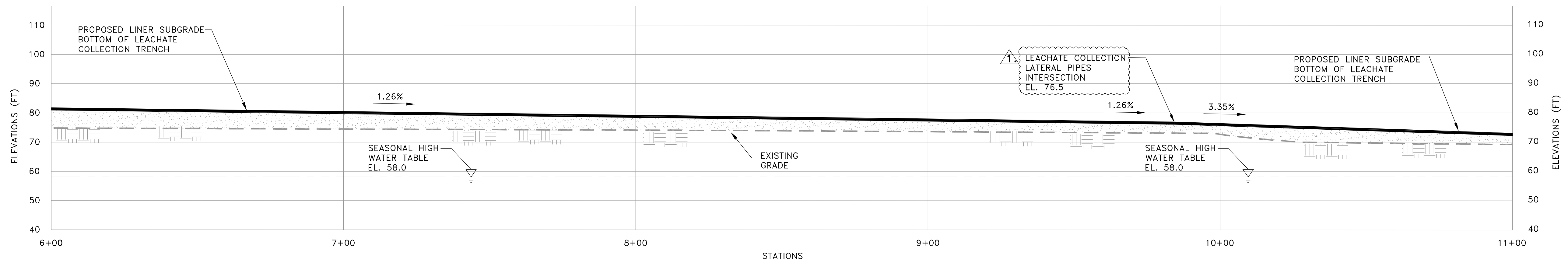
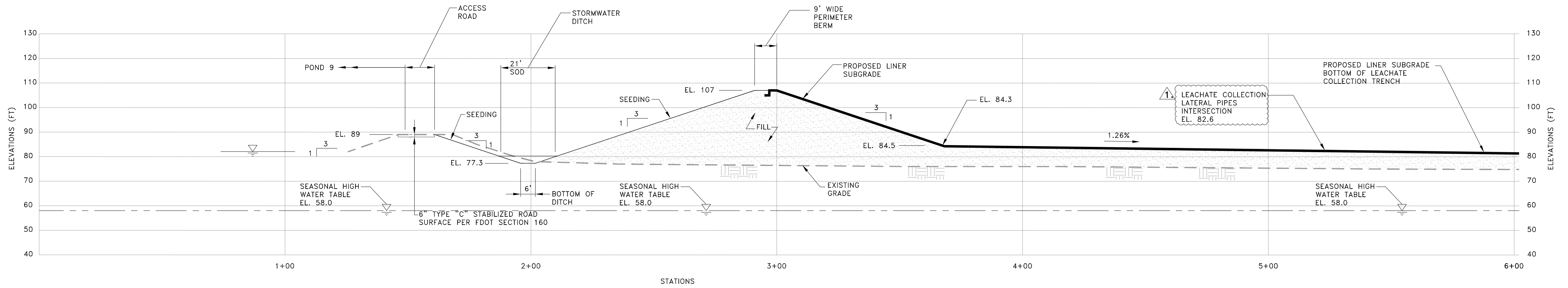
DRAWN RGC

DESIGN RGC/JLM

CHECKED JLM

Q.C. DED

SHEET 9 / 25



SECTION B
SCALE: 1"= 20'

C-7



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**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

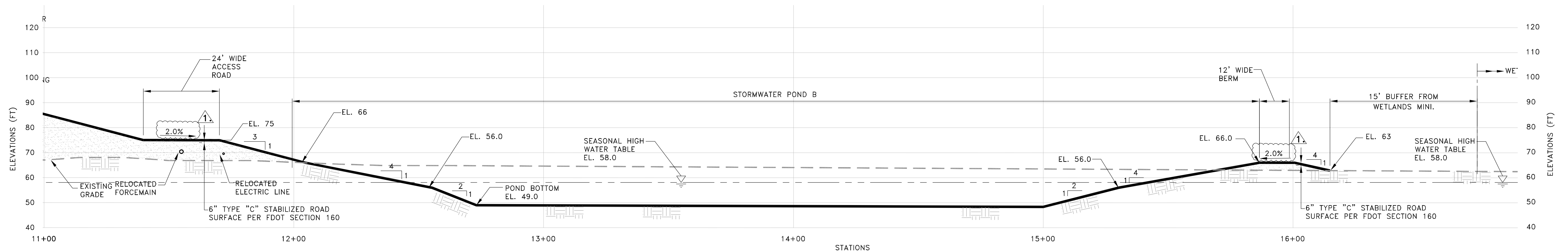
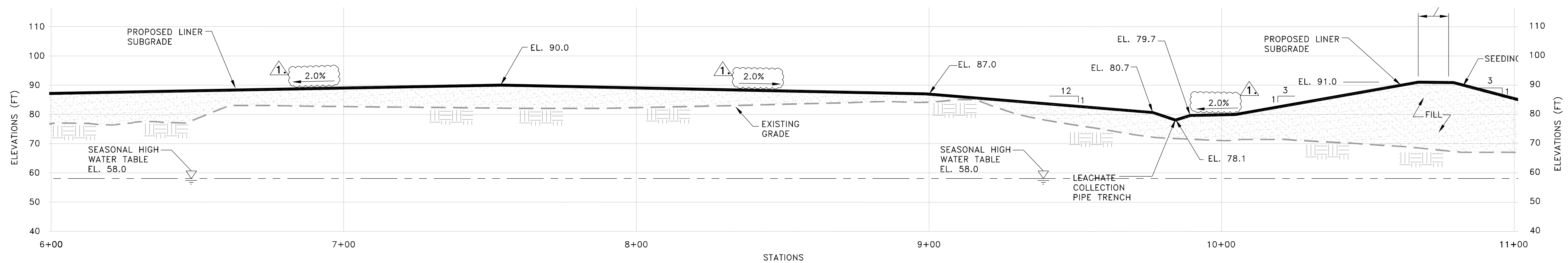
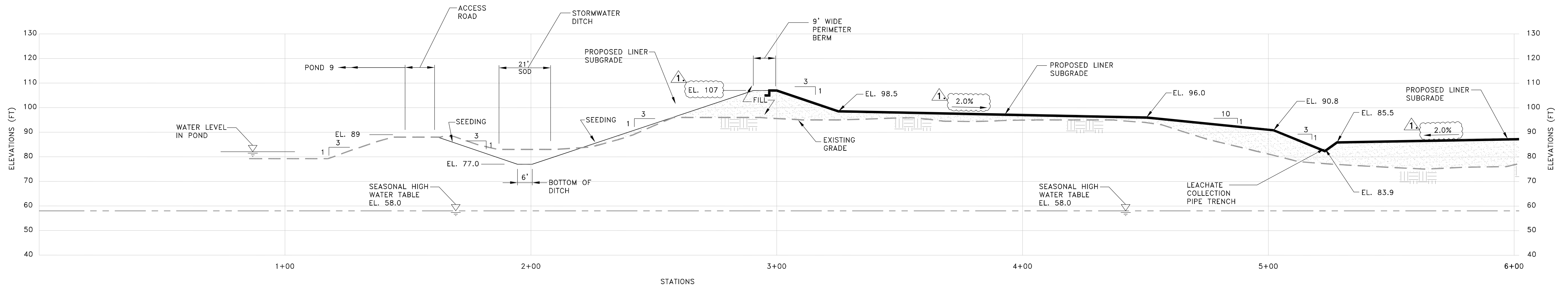
TASK
**CROSS SECTION
B-B**

ORIGINAL JULY 16, 2010
REVISIONS:
1. AUG. 26, 2010
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Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN RGC
DESIGN RGC/JLM
CHECKED JLM
Q.C. DED
SHEET 10/25



SECTION C
SCALE: 1"= 20'

C-8



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(SECI)**

PROJECT
**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

TASK
**CROSS SECTION
C-C**

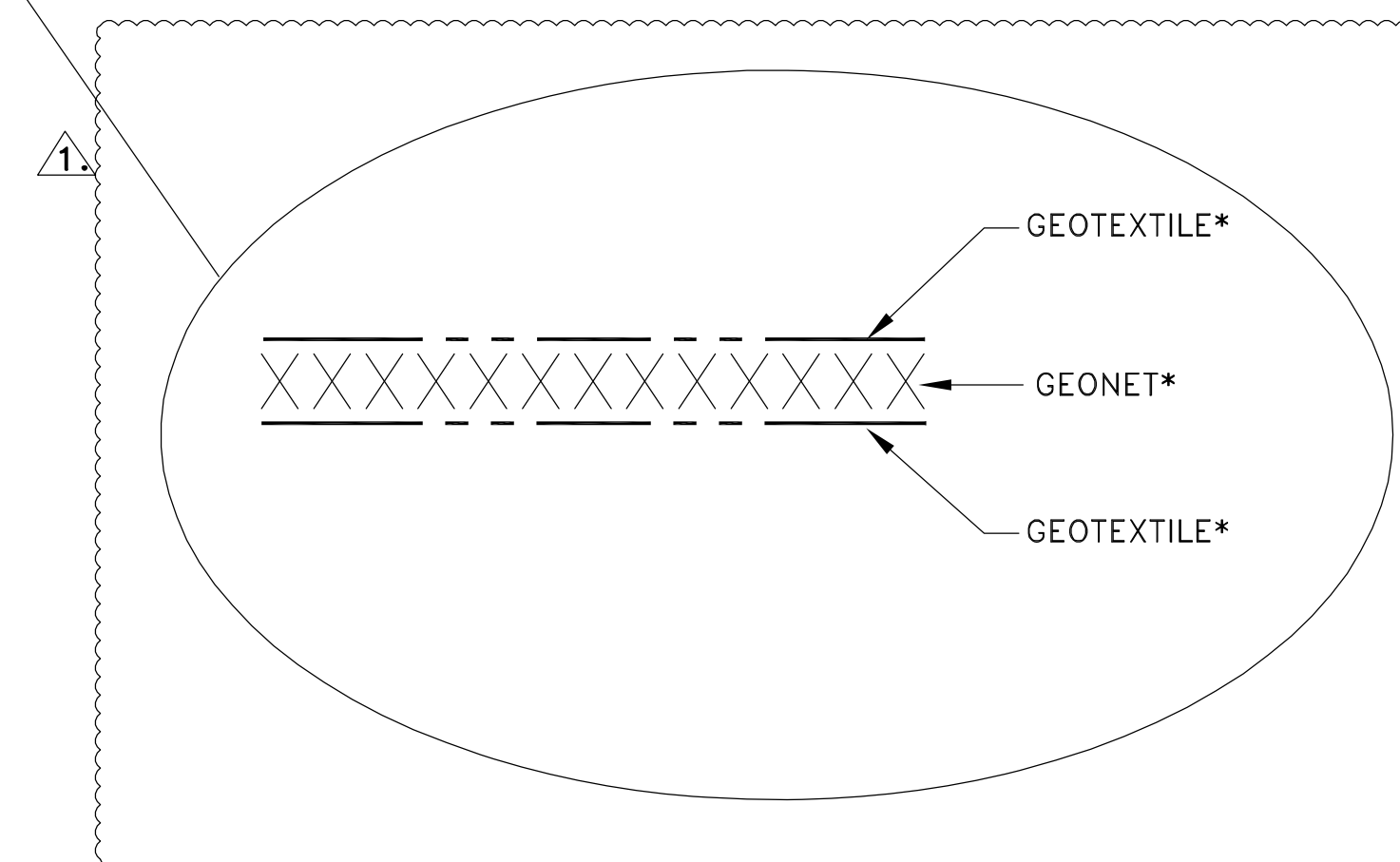
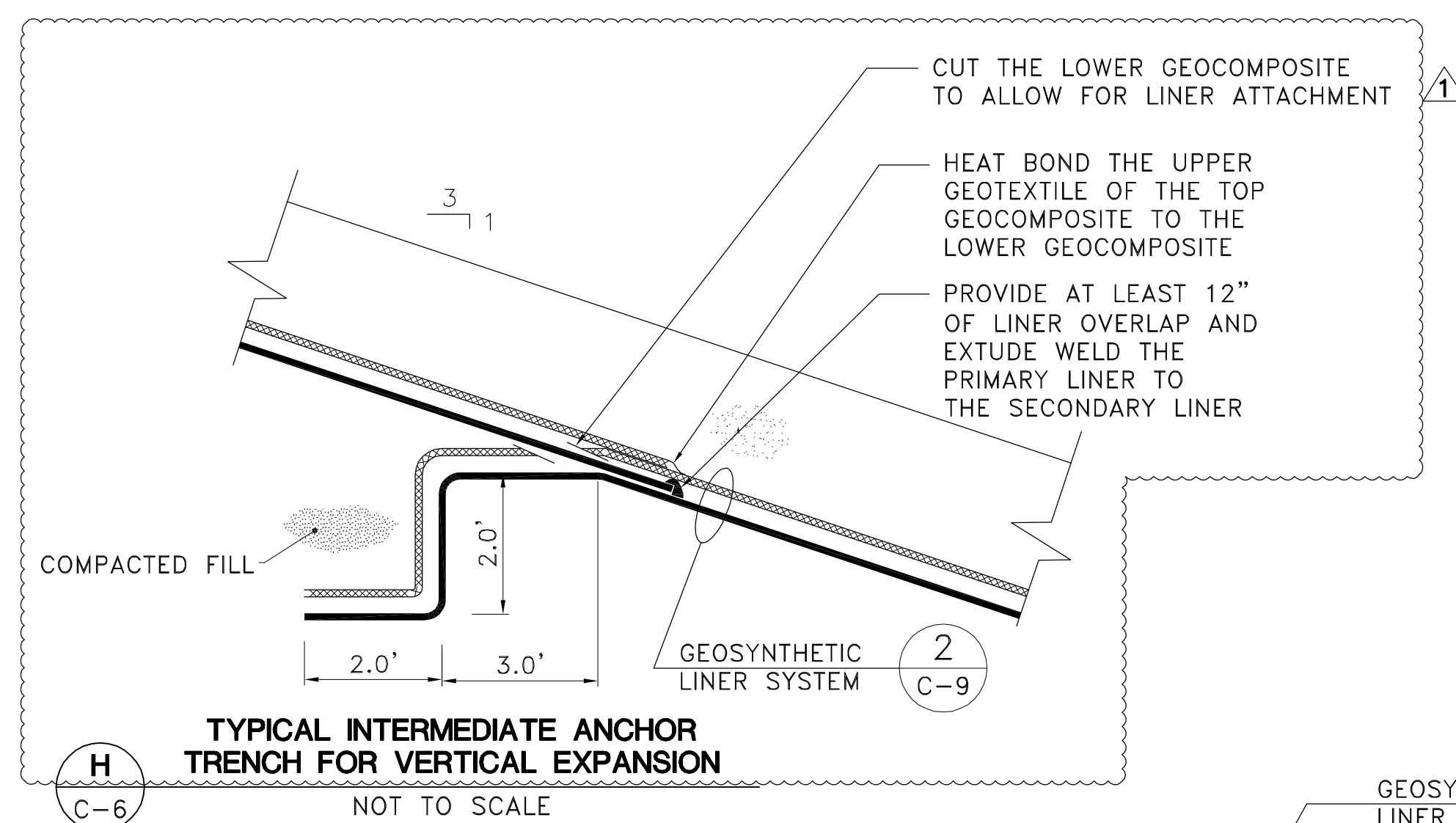
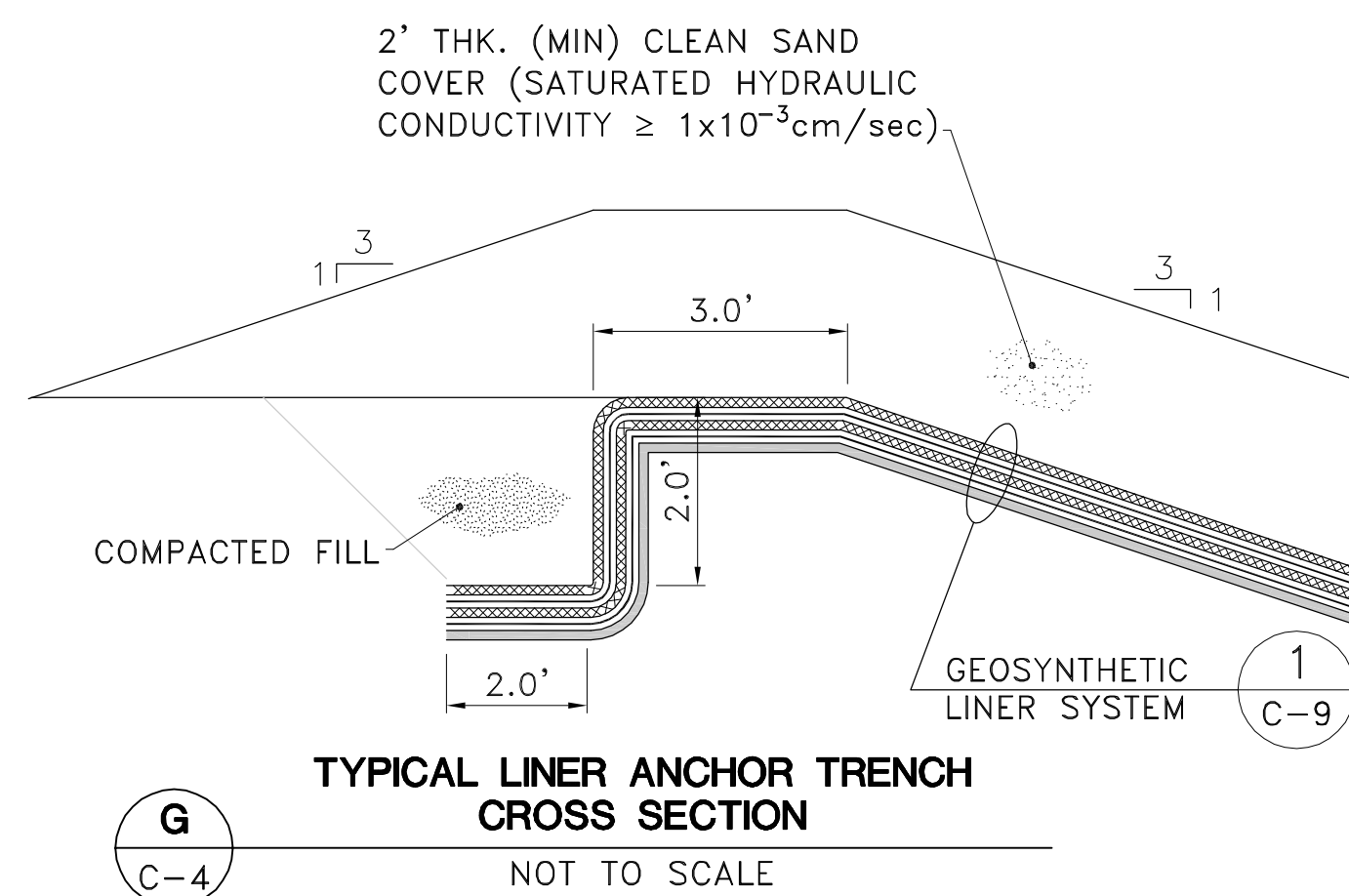
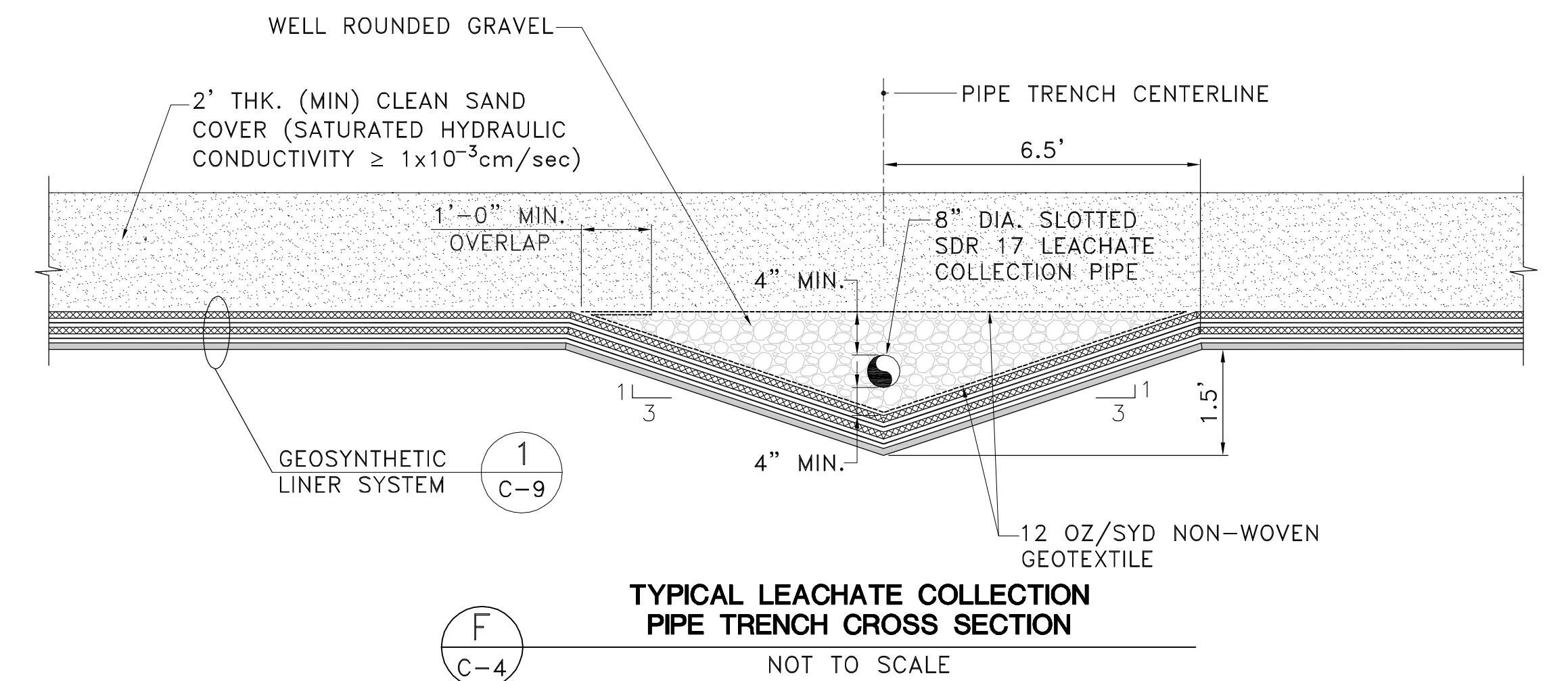
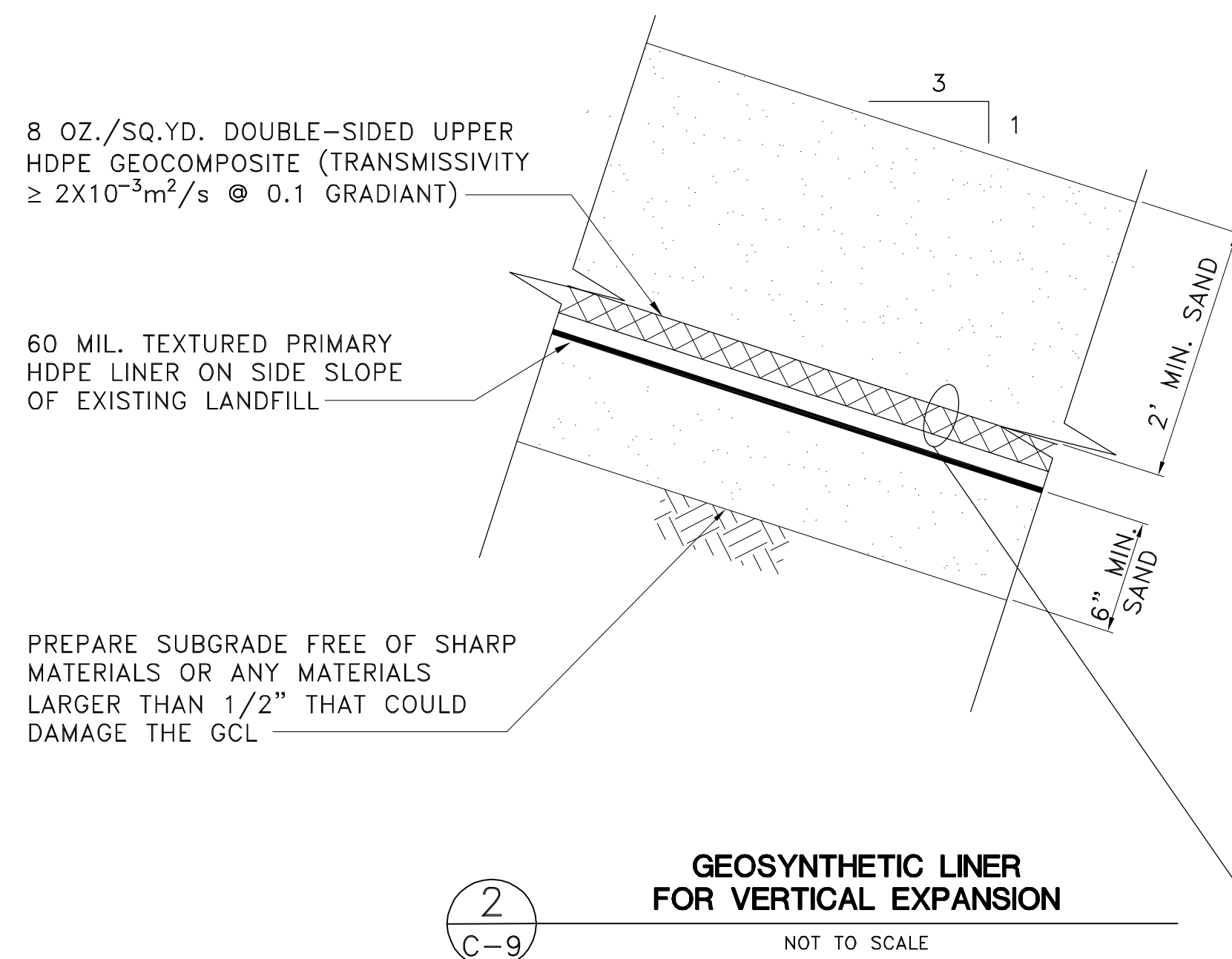
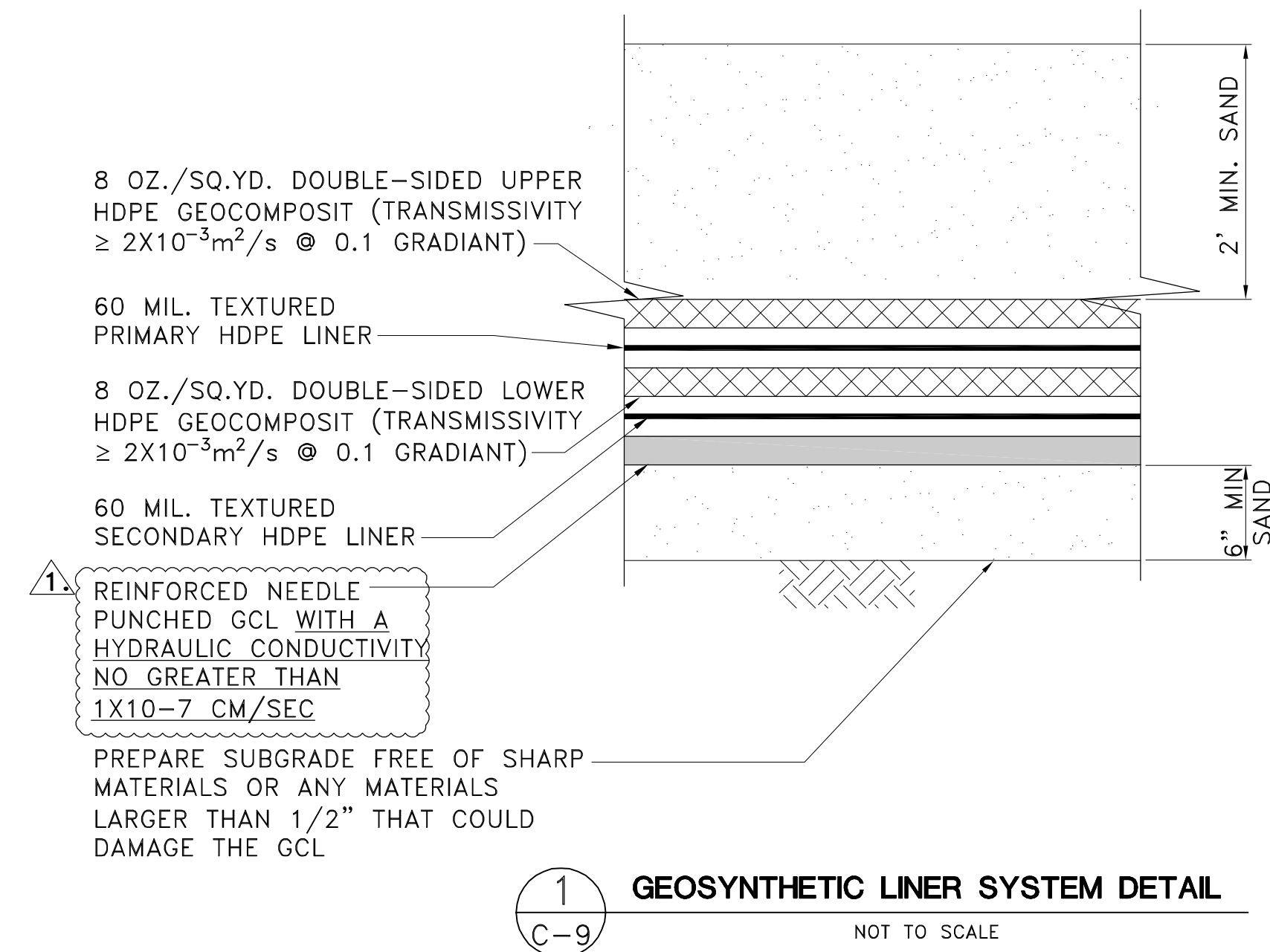
ORIGINAL JULY 16, 2010
REVISIONS:
1. AUG. 26, 2010
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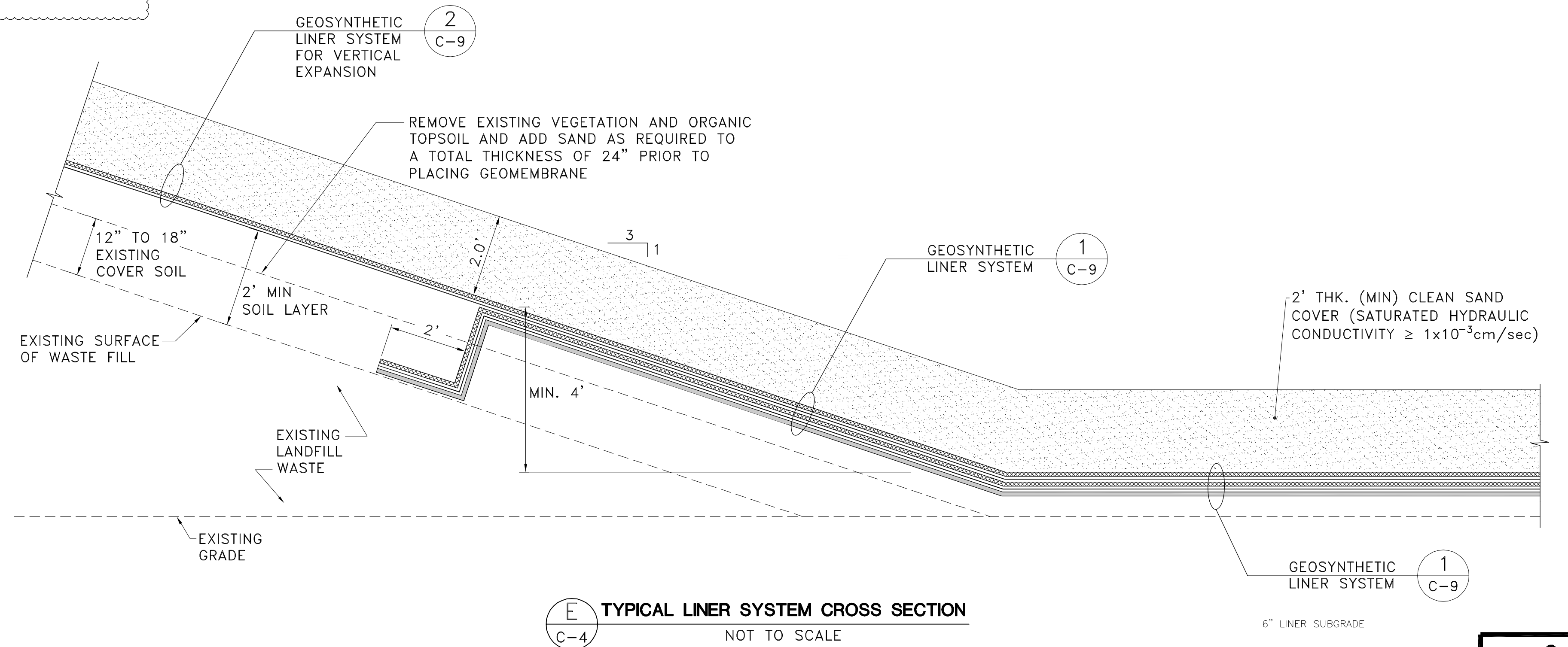
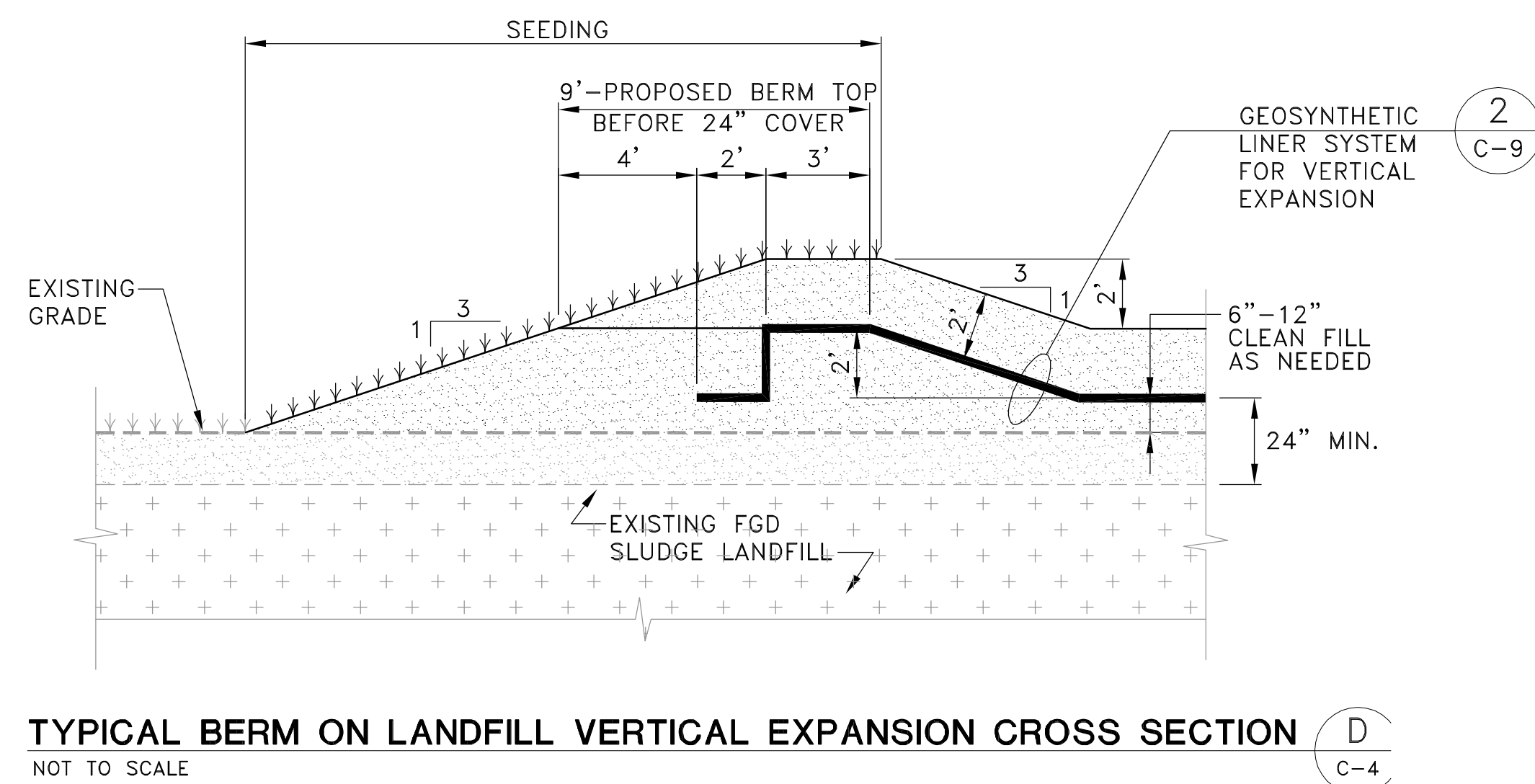
Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN RG
DESIGN RG
CHECKED JLM
Q.C. DED
SHEET 11/25

U:\01041-3\LANDFILL WASTE MANAGEMENT\SEMINOLE ELECTRIC-PALATKA\VERTICAL EXPANSION DESIGN\REVISED DRAWINGS-9-21-10\SE-IBD-C-9 LINER DETAILS.dwg Sep23,2010 1:14pm Printed By: 22427



*NOTE: GEOTEXTILES ARE BONDED TO THE GEONET



C-9

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SEMINOLE ELECTRIC COOPERATIVE, INC (SECI)

PROJECT
INCREMENT 1 BUILDOUT AT SEMINOLE GENERATING STATION (SGS)

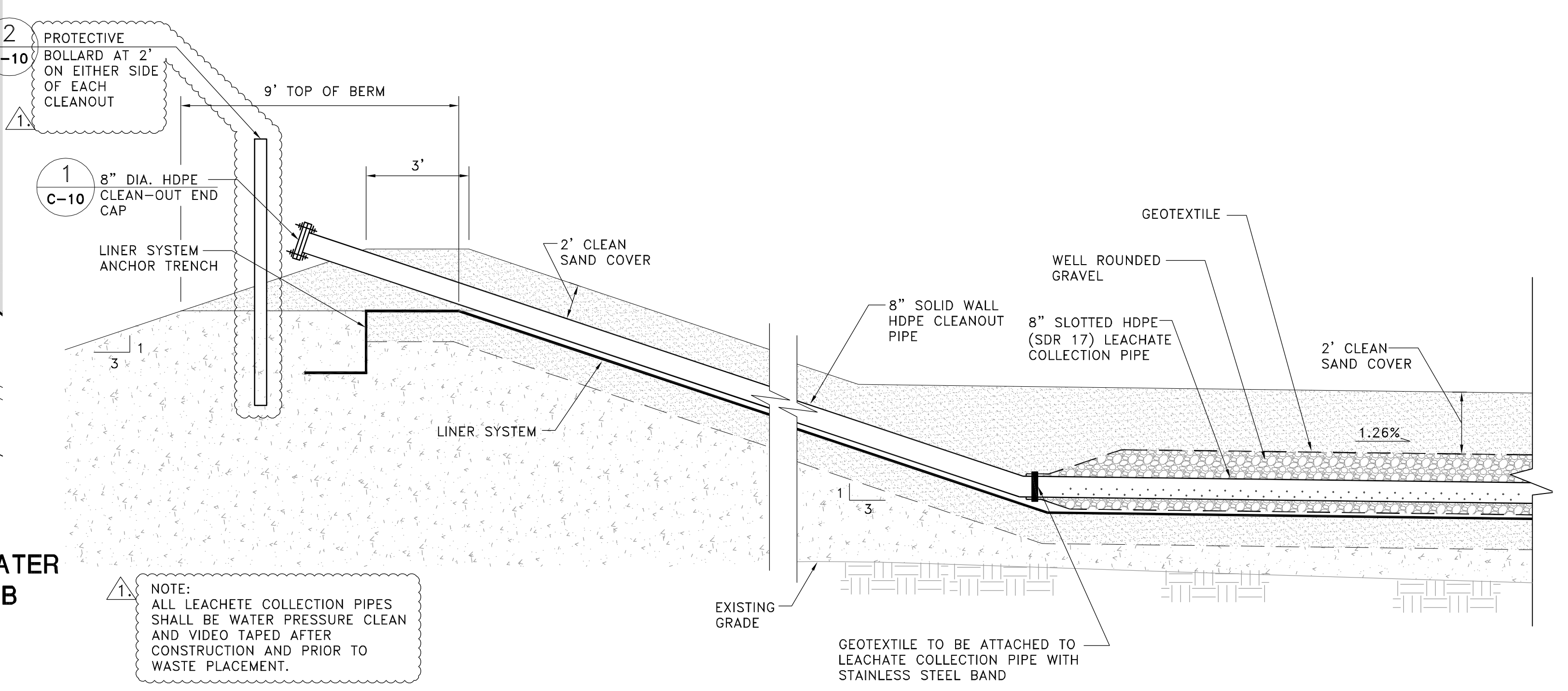
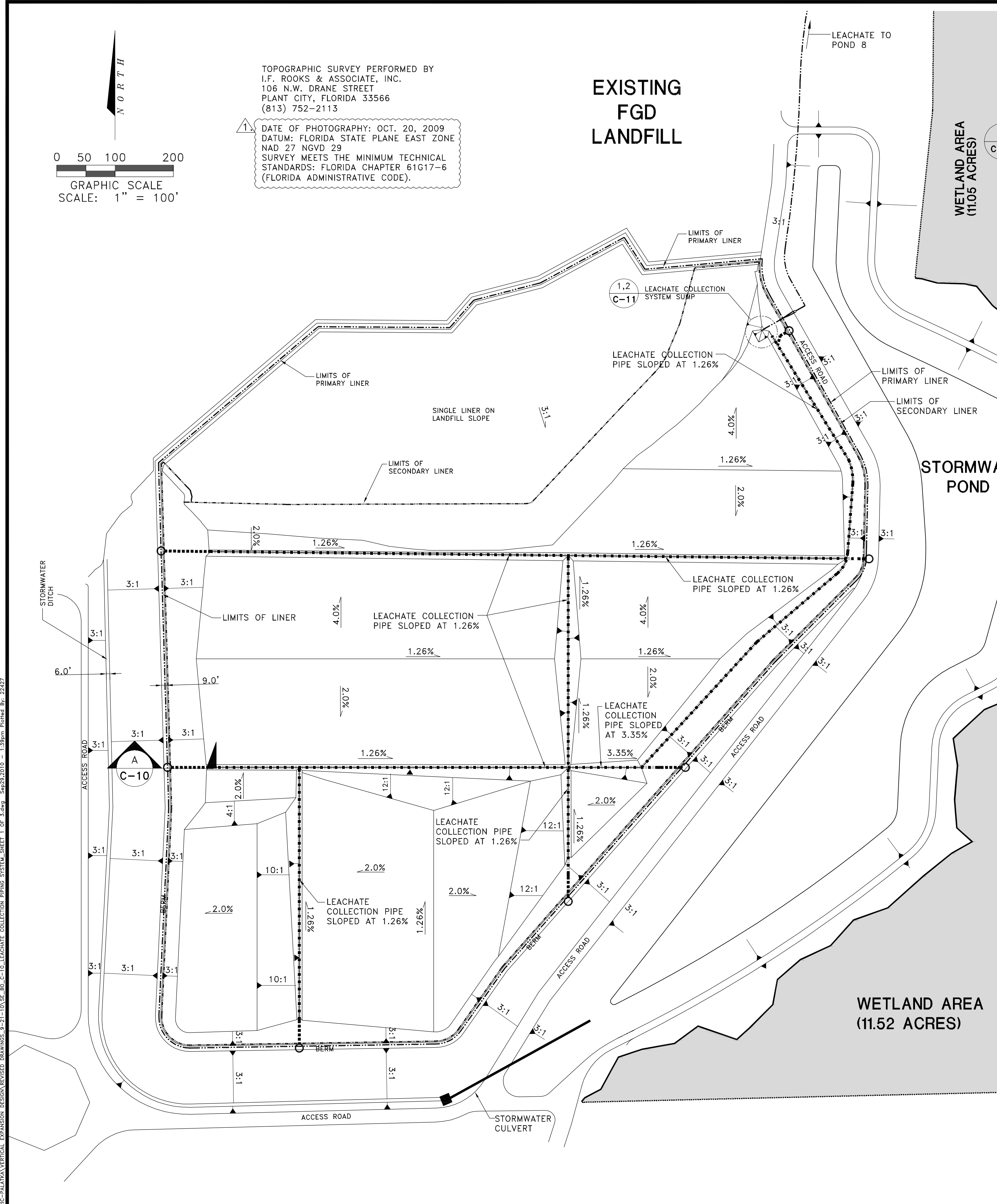
TASK
LINER TYPICAL SECTIONS AND DETAILS

ORIGINAL JULY 16, 2010
REVISIONS:
1. SEPT 23, 2010
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3.
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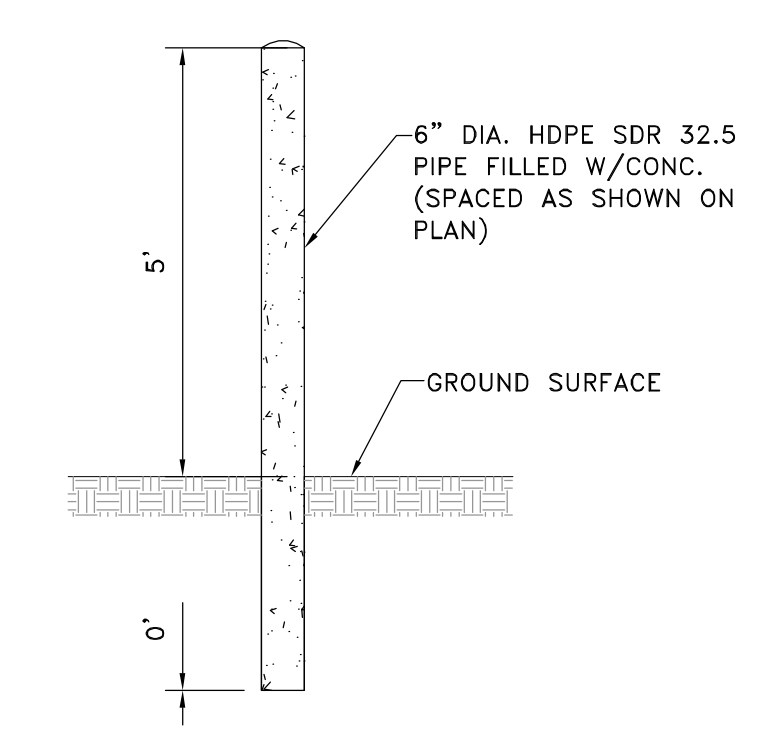
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12.

Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J 482 S. Keller Road Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO.100013496
DRAWN RGC
DESIGN RGC/JLM
CHECKED JLM
Q.C. DED
SHEET 12/25

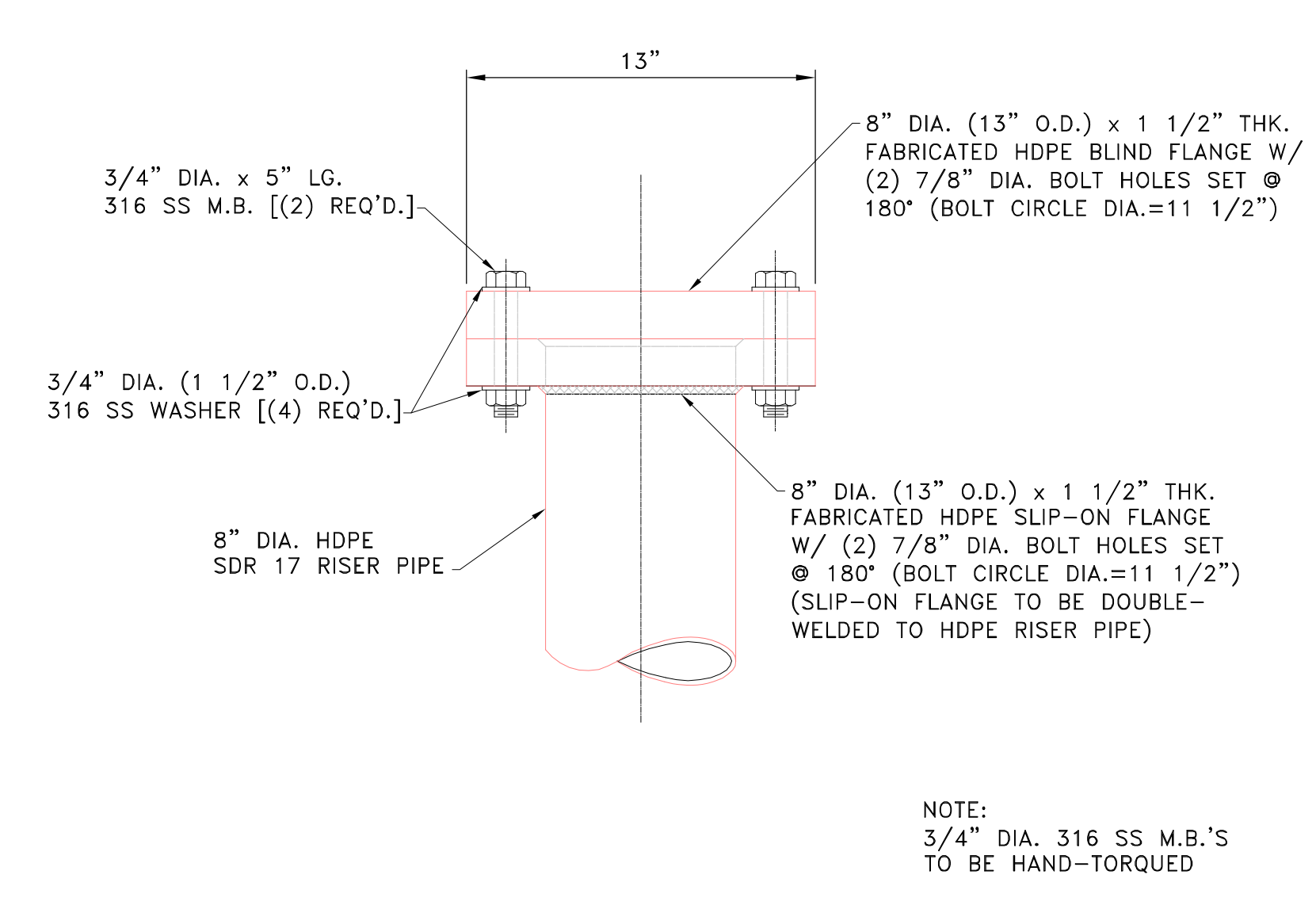


- LEGEND:
- 8" PIPE
 - CLEANOUT
 - LIMITS OF PRIMARY LINER
 - LIMITS OF SECONDARY LINER
 - MINIMUM SLOPE OF TRENCH/PIPE



BOLLARD
N.T.S.

TYPICAL LEACHATE COLLECTION PIPE CLEANOUT SECTION
SCALE: 1" = 40'



TYPICAL CLEANOUT PIPE END CAP DETAIL
SCALE: 1" = 40'

ALL LINER SUBGRADE SLOPES ARE MINIMUM SLOPES AND ARE SHOWN TO FIRST DECIMAL POINT

 482 South Keller Road ORLANDO, FL 32810-6101 TEL. (407) 647-7275 FAX. (407) 647-0624 WWW.PBS&J.COM POST BUCKLEY, SCHUH & JERNIGAN, Inc. 6750 G. P.B.S. & J. 5300 West Cypress Street, Suite 200, Tampa, FL 33607 FBPR Certificate of Authorization No.: 24	CLIENT SEMINOLE ELECTRIC COOPERATIVE, INC (SECI)	PROJECT INCREMENT 1 BUILDOUT AT SEMINOLE GENERATING STATION (SGS)	TASK LEACHATE COLLECTION PIPING SYSTEM SHEET 1 OF 3	ORIGINAL JULY 16, 2010 REVISIONS: 1. AUG. 26, 2010 2. _____ 3. _____ 4. _____ 5. _____	Name: JOSEPH L. MILLER Florida P.E. No.: 39177 Address: PBS&J 482 S. Keller Road Orlando, FL 32810-6101 Signature _____ Date _____ JOB NO. 100013496 DRAWN <u>RG</u> DESIGN <u>RG/JLM</u> CHECKED <u>JLM</u> Q.C. <u>DED</u> SHEET 10/25
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SCALE: 1"= 10'



* ELEVATION GIVEN AT THE BOTTOM OF THE PIPE

SCALE: 1"= 10'



C-11



CLIENT

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	(SECI)

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

LEACHATE COLLECTION PIPING SYSTEM
SHEET 2 OF 3

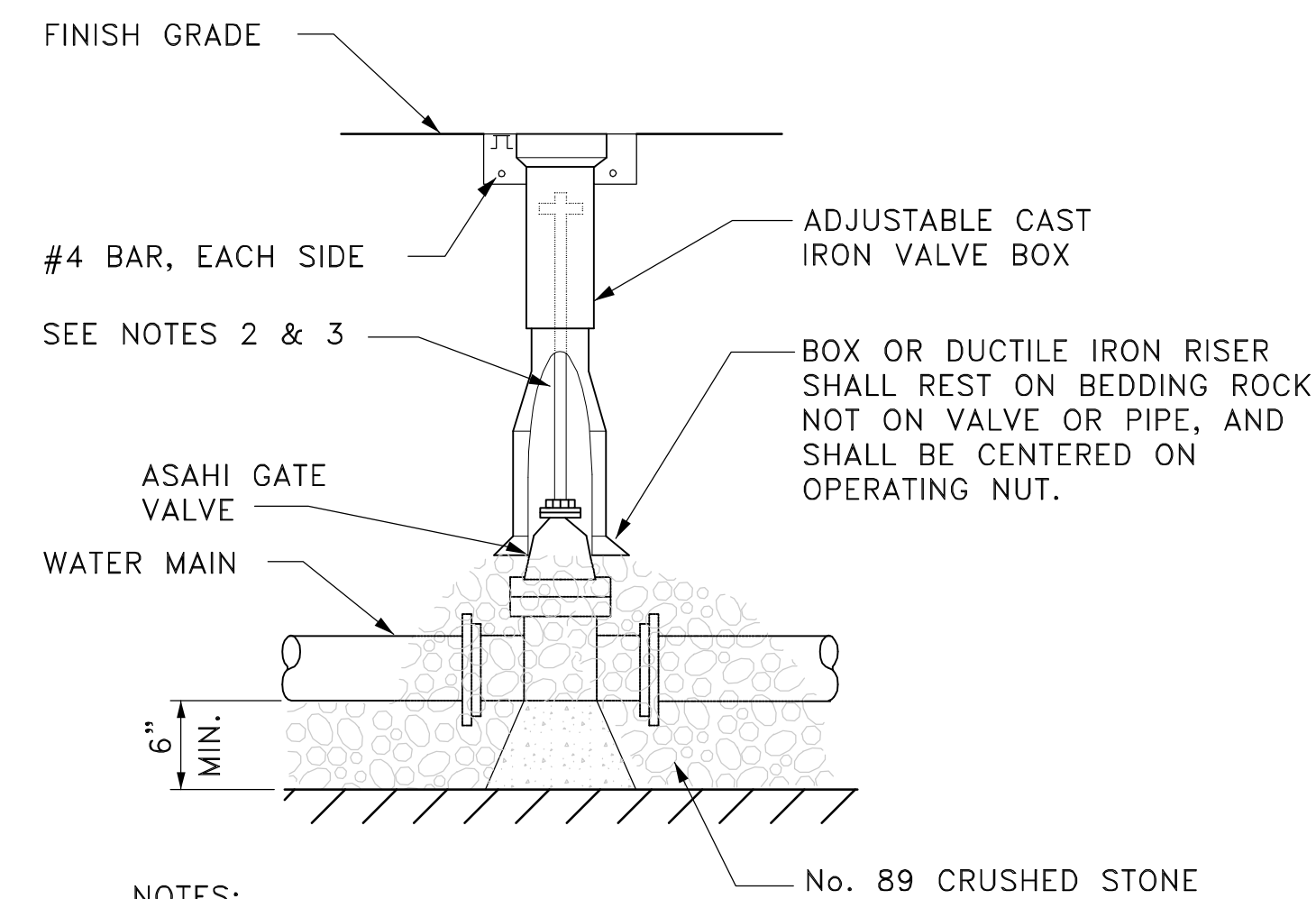
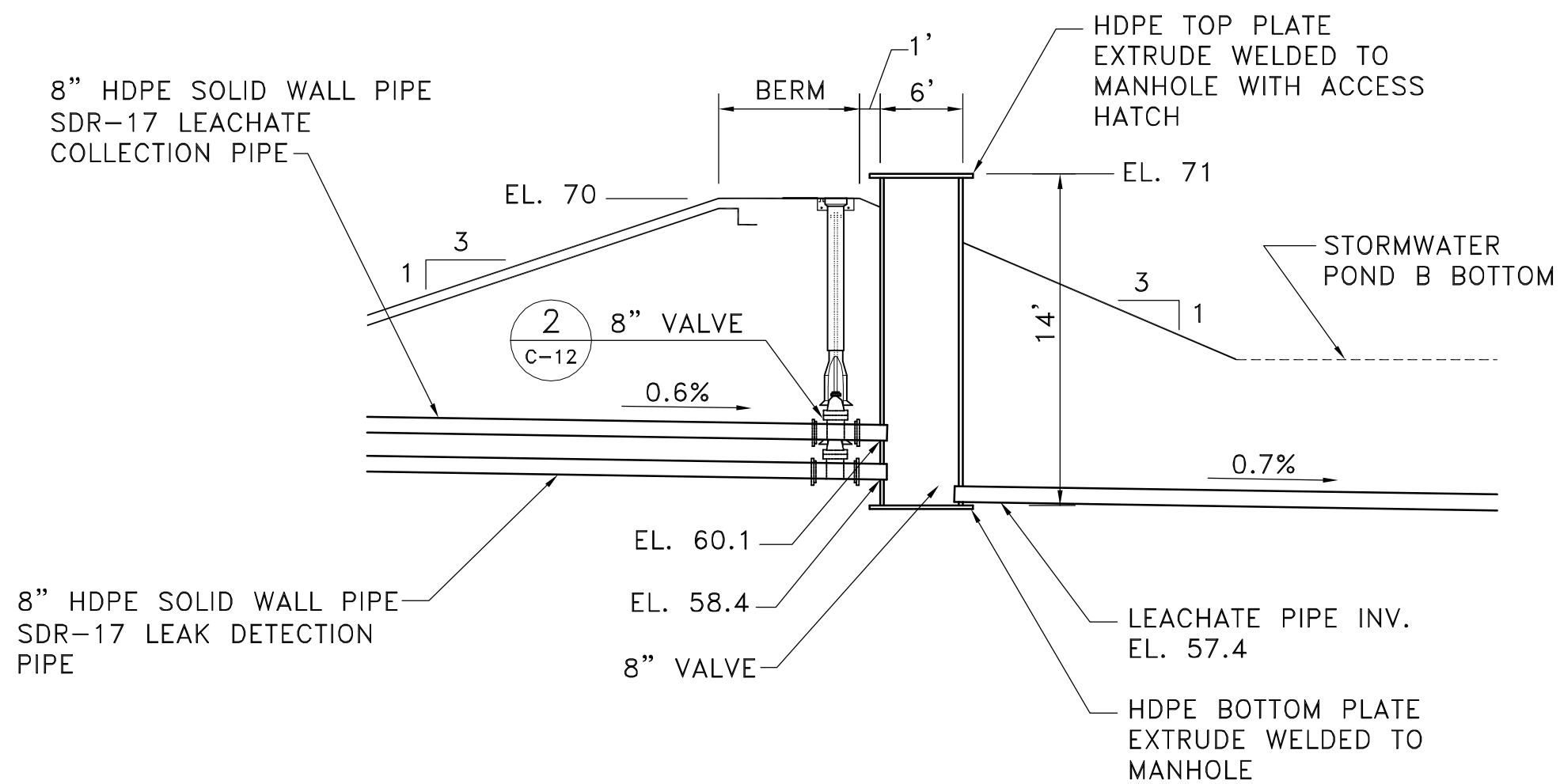
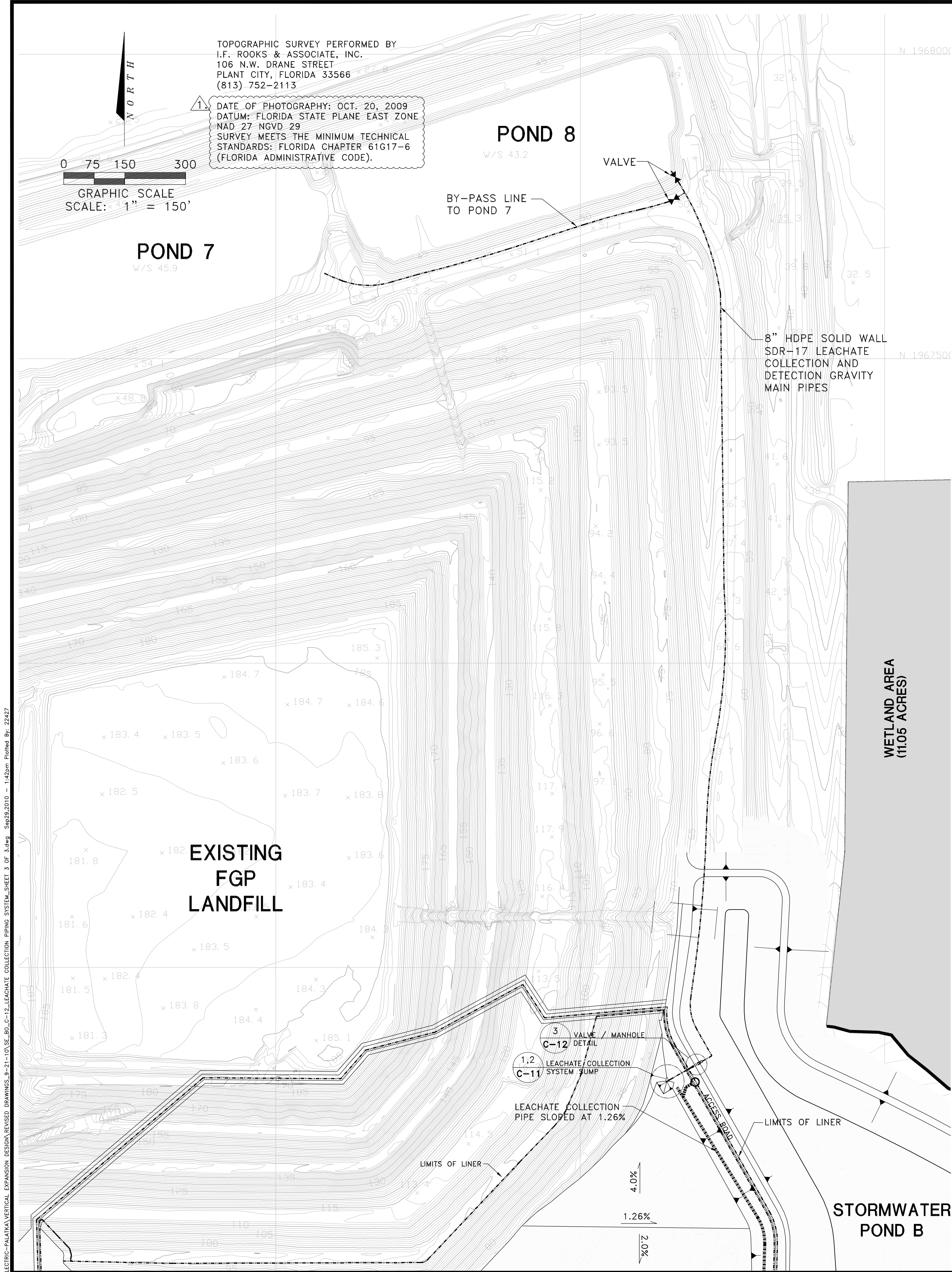
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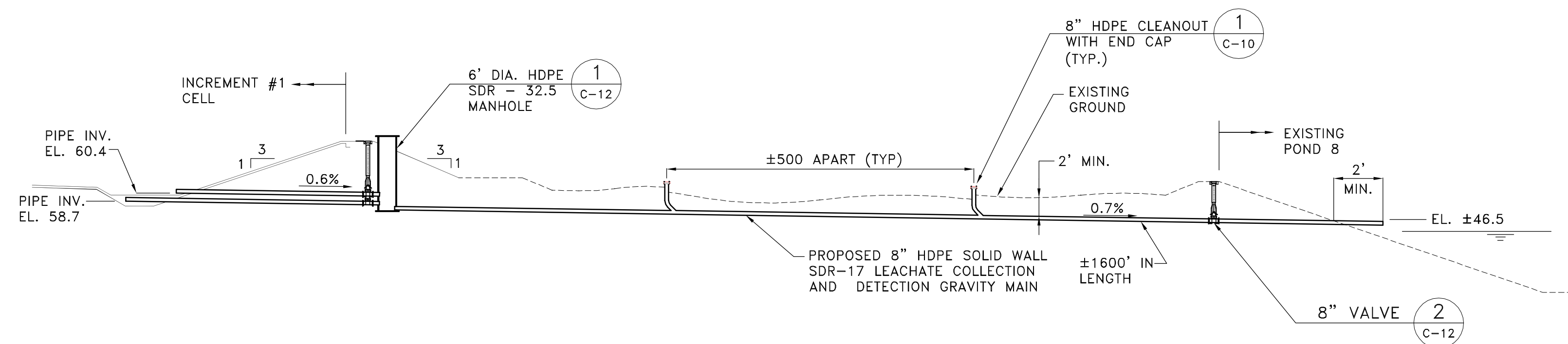
Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101

Signature _____ Date _____

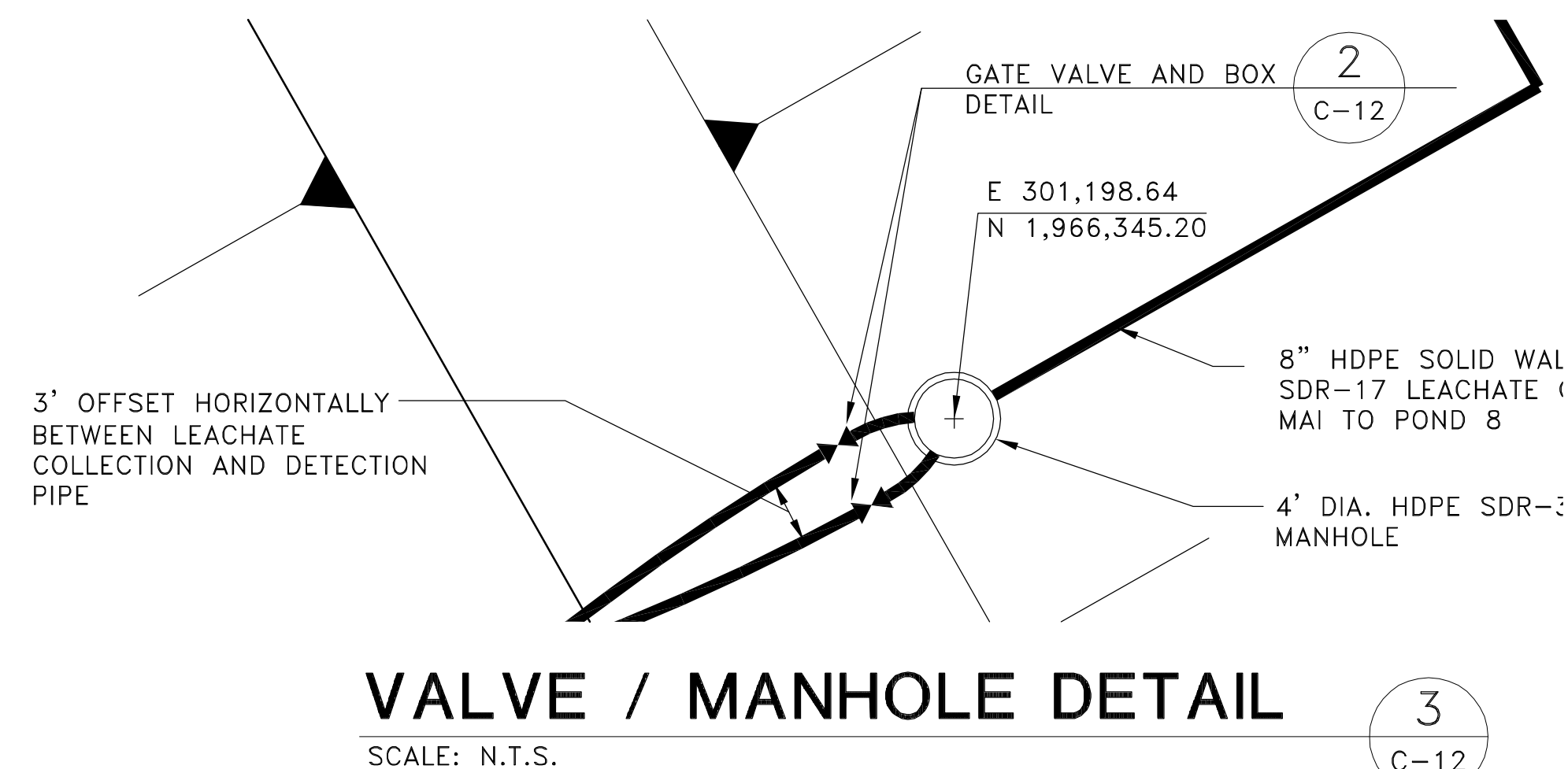
JOB NO. 100013496
 DRAWN RGC
 DESIGN RGC/JLM
 CHECKED JLM
 Q.C. DED
 SHEET 14/25



GATE VALVE AND BOX DETAIL 2
SCALE: N.T.S.



LEACHATE GRAVITY PIPE PROFILE
SCALE: N.T.S.



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**INCREMENT 1 BUILDOUT
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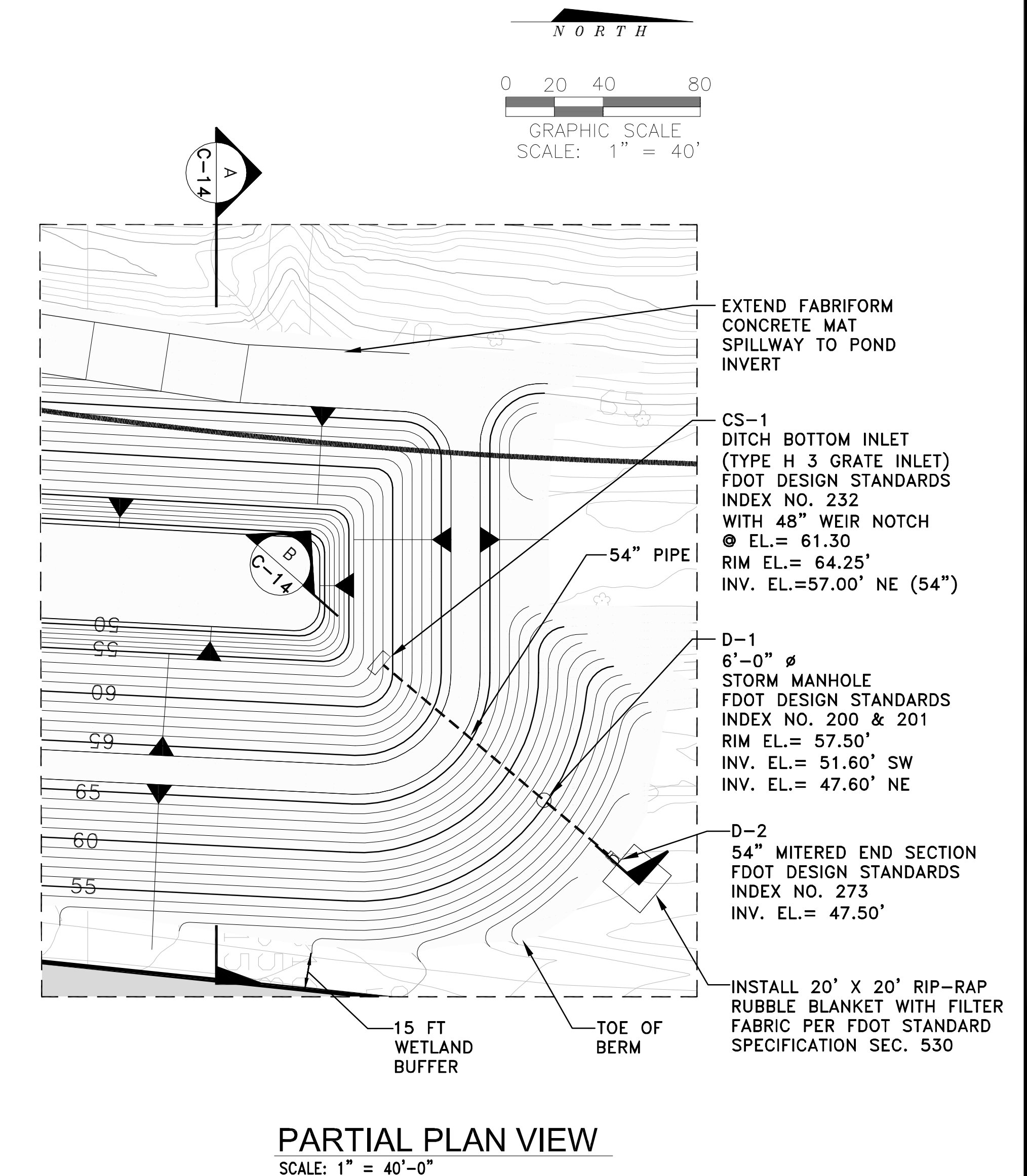
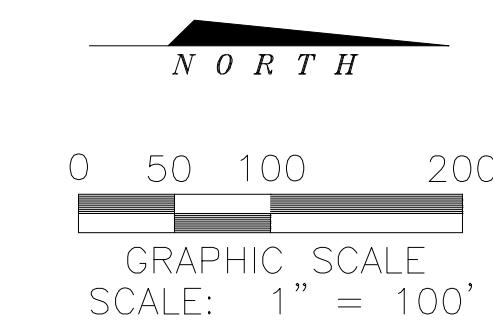
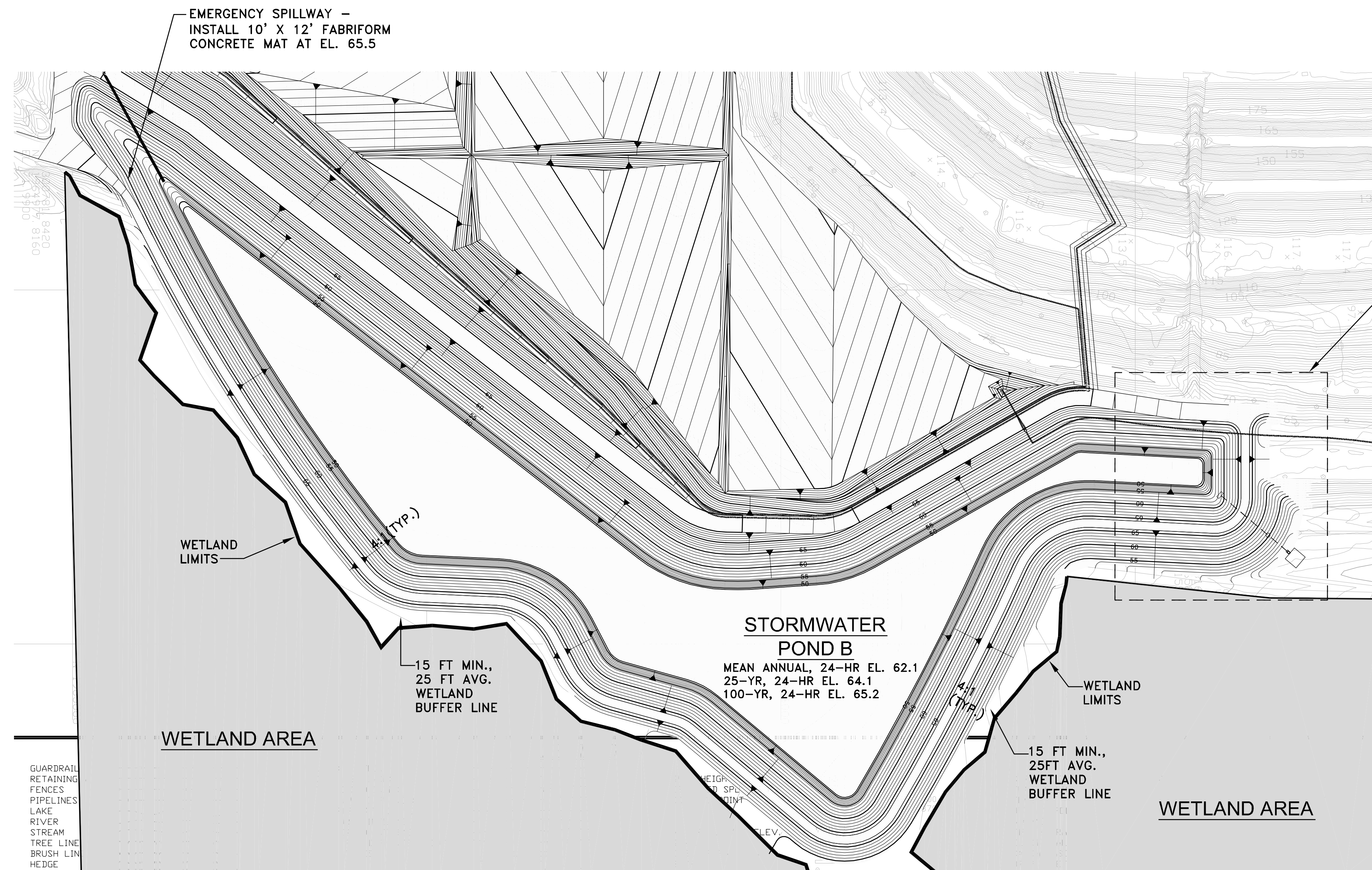
TASK
**LEACHATE COLLECTION PIPING SYSTEM
SHEET 3 OF 3**

ORIGINAL JULY 16, 2010
REVISIONS:
1. AUG. 26, 2010
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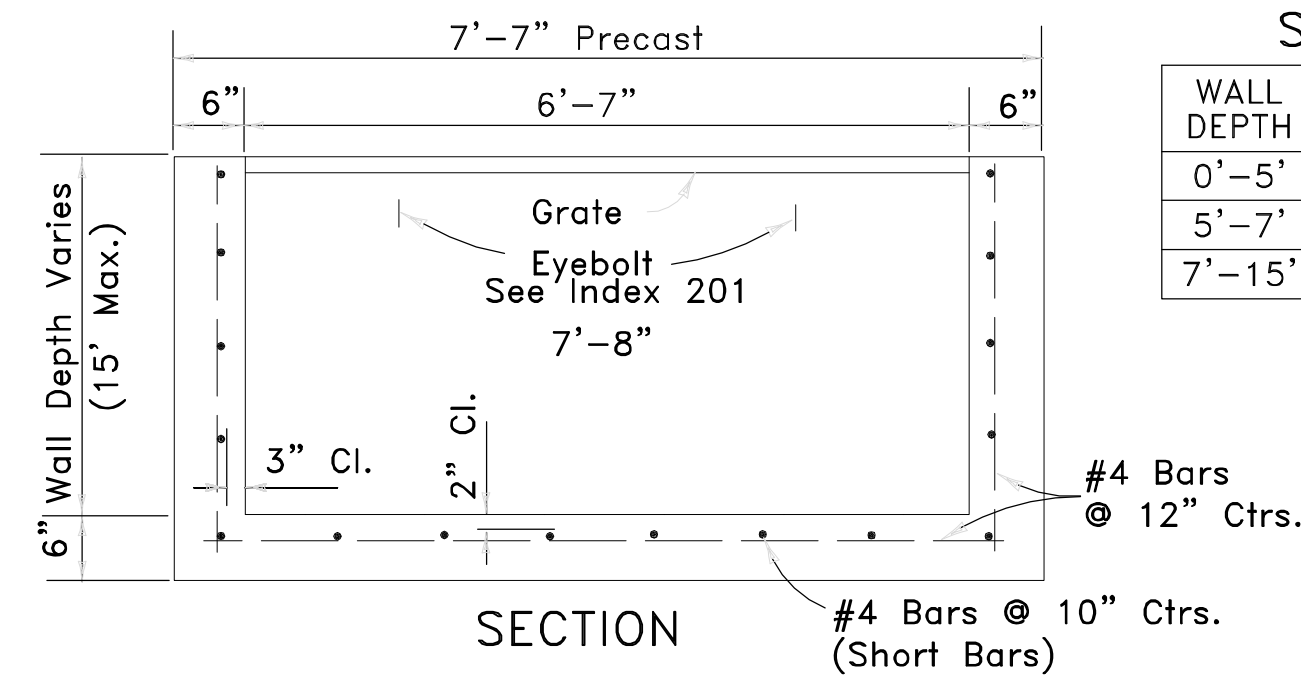
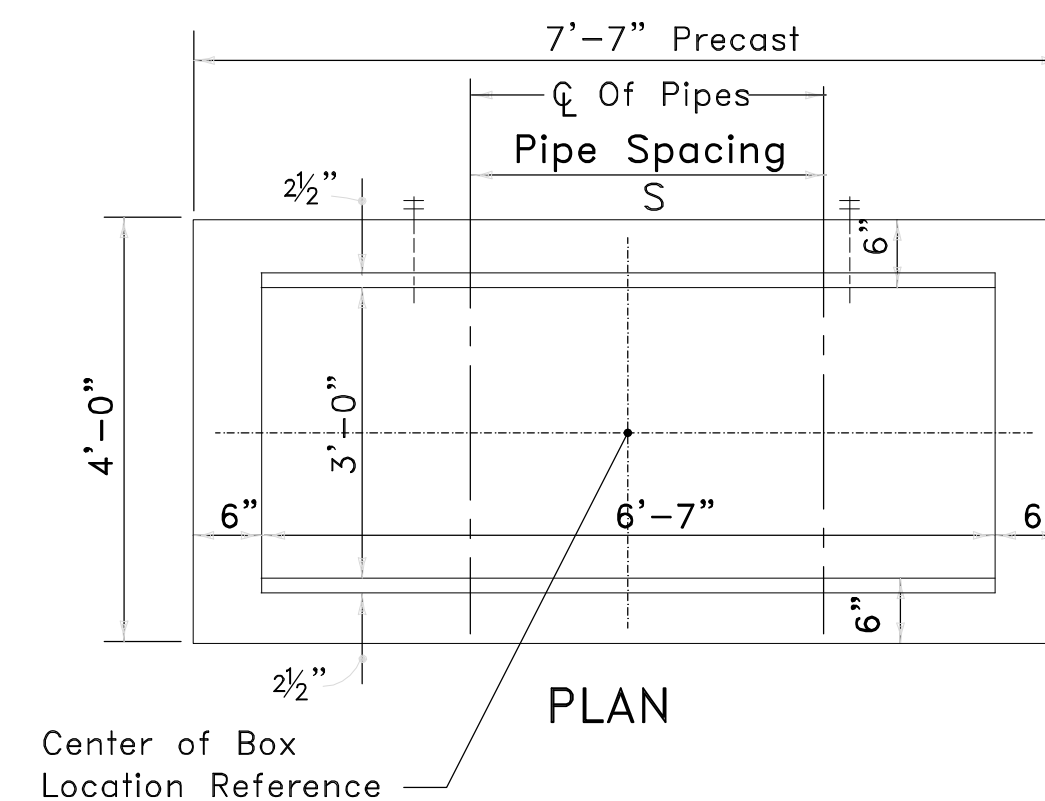
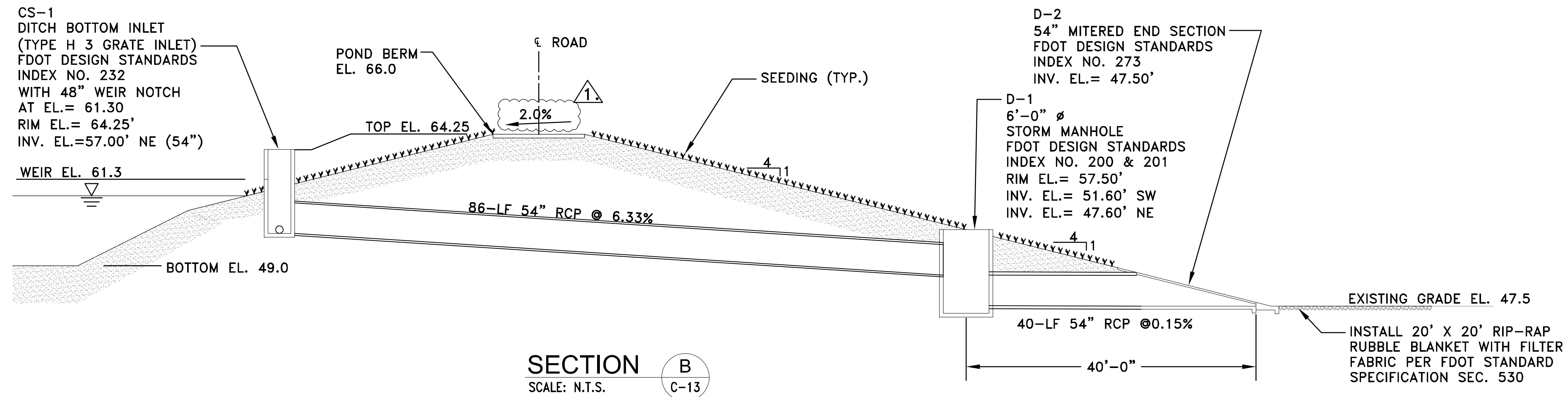
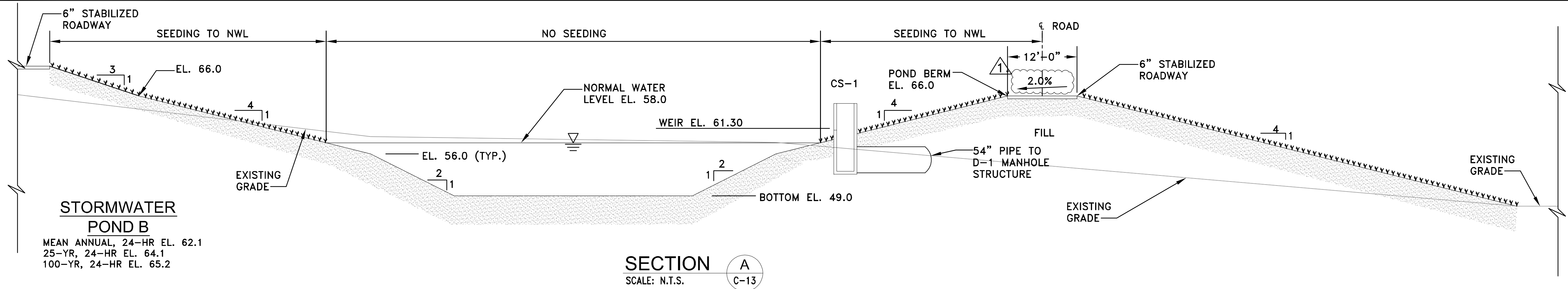
6.
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Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO. 100013496
DRAWN RGC
DESIGN RGC/JLM
CHECKED JLM
Q.C. DED
SHEET 15/25



UN, DWH, ST, LANCARD, WESTMAN, SEUNG, LE, ELECTRIC, PALATKA, VERTICAL, EXPANSION, DESIGN, REUSED, DRAWINGS, 9-21-10, SE, RD, C-13, C-14, STORMWATER, EAST, POND, -FINAL, GRADING, PLAN, .dwg, Sep 29, 2010, - 1:46pm, Plotted By: 22427



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in /ft.)	MAX. SPACING BARS	WWF
0'-5'	B5.5	0.24	5 1/2"	5"
5'-7'	C6.5	0.37	6 1/2"	6"
7'-15'	D4.5	0.53	4 1/2"	4"

DITCH BOTTOM INLET H (3-GRATE)
FDOT INDEX 201 AND 232

CONTROL STRUCTURE TABLE														
								ORIFICE DATA		SKIMMER DATA			SPREADER SWALE	
POND NO.	STRUCTURE TYPE / NO.	NWL	WEIR ELEV.	WEIR LENGTH	TOP/GRATE ELEV.	TOP/GRATE LENGTH	OUTFALL PIPE SIZE	DIAM.	INVERT ELEVATION	TOP OF SKIMMER	SKIMMER HEIGHT	'R'	'L'	
POND B	TYPE H (3-GRATE)/CS-1	58.0	61.3	4'	64.25	19.2'	54"	(2) 5"	58.0	64.75	4.0'	N/A	N/A	

TYPE H (3-GRATE) INLET AND
CONTROL STRUCTURE (CS-1)
SCALE: N.T.S.

C-14



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PROJECT
**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

TASK
**STORMWATER POND B
SECTIONS AND DETAILS**

ORIGINAL JULY 16, 2010
REVISIONS:
AUG. 26, 2010
2.
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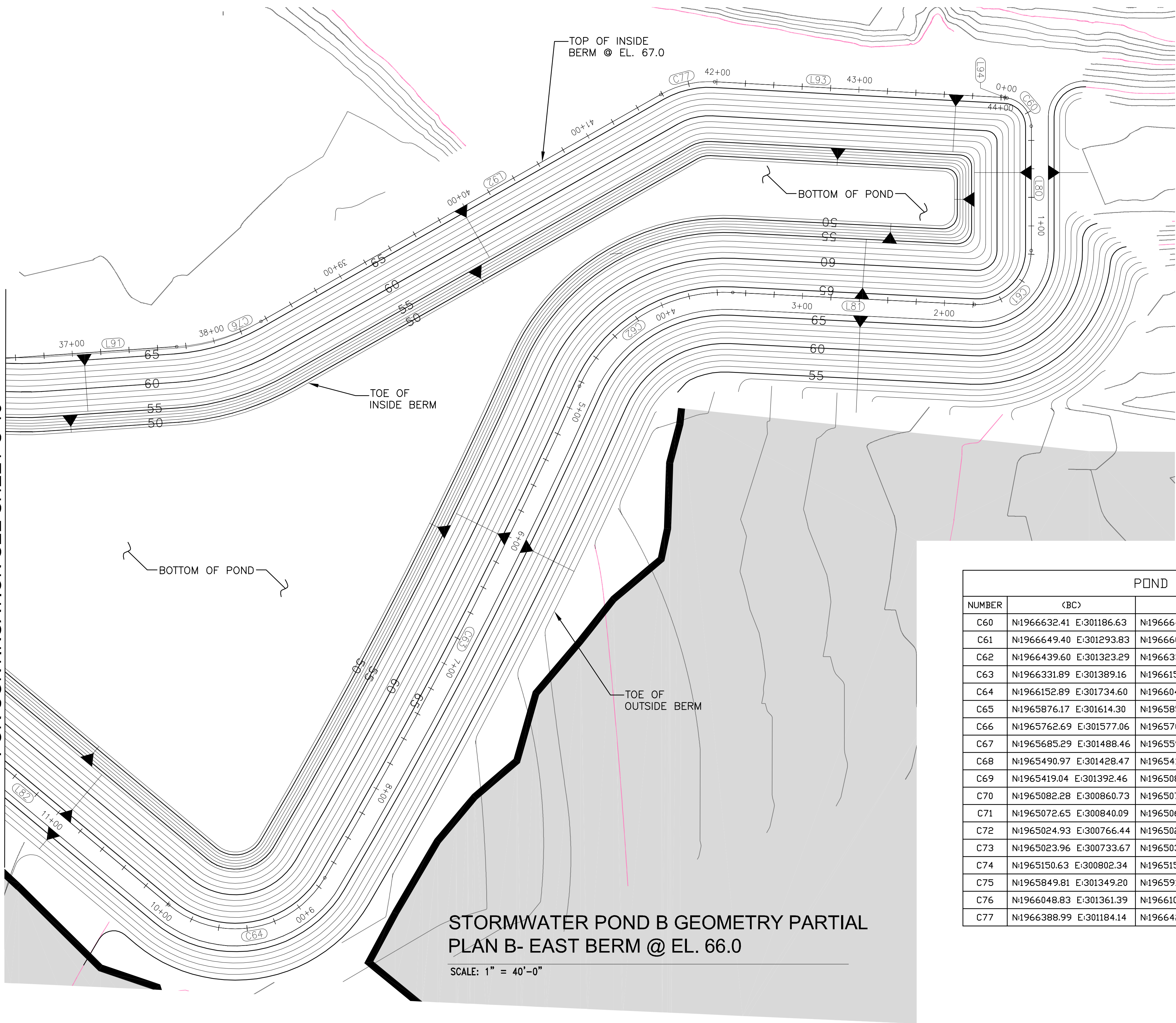
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Q.C. DED
SHEET 17/25

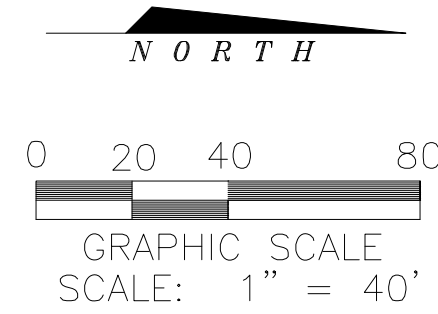
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FOR CONTINUATION SEE SHEET C-16



STORMWATER POND B GEOMETRY PARTIAL
PLAN B- EAST BERM @ EL. 66.0

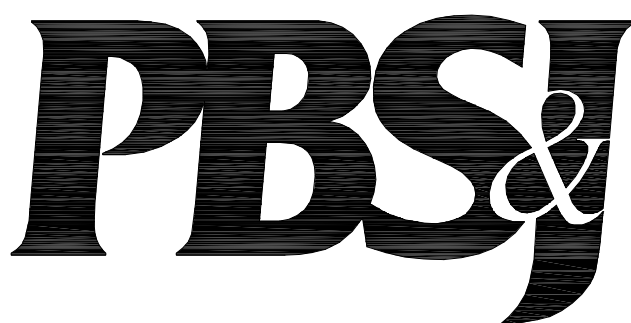
SCALE: 1" = 40'-0"



POND GEOMETRY					
NUMBER	(BC)	(EC)	LENGTH	RADIUS	DELTA
C60	N:1966632.41 E:301186.63	N:1966649.40 E:301206.40	28.393	20.000	81°20'23"
C61	N:1966649.40 E:301293.83	N:1966609.50 E:301331.78	61.587	38.000	92°51'38"
C62	N:1966439.60 E:301323.29	N:1966331.89 E:301389.16	134.122	112.000	68°36'46"
C63	N:1966331.89 E:301389.16	N:1966152.89 E:301734.60	389.257	3546.687	6°17'18"
C64	N:1966152.89 E:301734.60	N:1966043.28 E:301753.59	126.485	73.000	99°16'29"
C65	N:1965876.17 E:301614.30	N:1965853.36 E:301602.39	25.926	62.000	23°57'31"
C66	N:1965762.69 E:301577.06	N:1965708.21 E:301532.75	72.244	88.000	47°02'13"
C67	N:1965685.29 E:301488.46	N:1965599.37 E:301433.44	106.847	102.000	60°01'07"
C68	N:1965490.97 E:301428.47	N:1965419.04 E:301392.46	82.839	99.000	47°56'33"
C69	N:1965419.04 E:301392.46	N:1965082.28 E:300860.73	631.002	2551.026	14°10'20"
C70	N:1965082.28 E:300860.73	N:1965072.65 E:300840.09	22.778	2551.026	0°30'42"
C71	N:1965072.65 E:300840.09	N:1965069.17 E:300833.86	7.142	50.179	8°09'16"
C72	N:1965024.93 E:300766.44	N:1965021.68 E:300754.26	12.823	20.000	36°44'03"
C73	N:1965023.96 E:300733.67	N:1965033.01 E:300729.69	11.614	6.000	110°54'11"
C74	N:1965150.63 E:300802.34	N:1965159.74 E:300808.70	11.113	100.000	6°22'02"
C75	N:1965849.81 E:301349.20	N:1965918.24 E:301370.25	73.214	100.000	41°56'55"
C76	N:1966048.83 E:301361.39	N:1966108.04 E:301343.60	62.345	139.000	25°41'55"
C77	N:1966388.99 E:301184.14	N:1966426.85 E:301175.25	39.424	69.000	32°44'12"

POND GEOMETRY					
NUMBER	(BC)	(EC)	LENGTH	RADIUS	DELTA
L80	N:1966649.40 E:301206.40	N:1966649.40 E:301293.83	87.431		
L81	N:1966609.50 E:301331.78	N:1966439.60 E:301323.29	170.115		
L82	N:1966043.28 E:301753.59	N:1965876.17 E:301614.30	217.543		
L83	N:1965853.36 E:301602.39	N:1965762.69 E:301577.06	94.137		
L84	N:1965708.21 E:301532.75	N:1965685.29 E:301488.46	49.863		
L85	N:1965599.37 E:301433.44	N:1965490.97 E:301428.47	108.512		
L86	N:1965069.17 E:300833.86	N:1965024.93 E:300766.44	80.640		
L87	N:1965021.68 E:300754.26	N:1965022.45 E:300741.60	12.689		
L88	N:1965022.45 E:300741.60	N:1965023.96 E:300733.67	8.065		
L89	N:1965033.01 E:300729.69	N:1965150.63 E:300802.34	138.245		
L90	N:1965159.74 E:300808.70	N:1965849.81 E:301349.20	876.559		
L91	N:1965918.24 E:301370.25	N:1966048.83 E:301361.39	130.888		
L92	N:1966108.04 E:301343.60	N:1966388.99 E:301184.14	323.050		
L93	N:1966426.85 E:301175.25	N:1966630.91 E:301186.40	204.361		
L94	N:1966630.91 E:301186.40	N:1966632.41 E:301186.63	1.518		

C-15



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PROJECT

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

TASK

STORMWATER POND B
GEOMETRY PLAN 1

ORIGINAL JULY 16, 2010

REVISIONS:

1. AUG. 26, 2010

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Name: JOSEPH L. MILLER
Florida P.E. No.: 39177
Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101

Signature Date

JOB NO.100013496

DRAWN RGC

DESIGN RGC/JLM

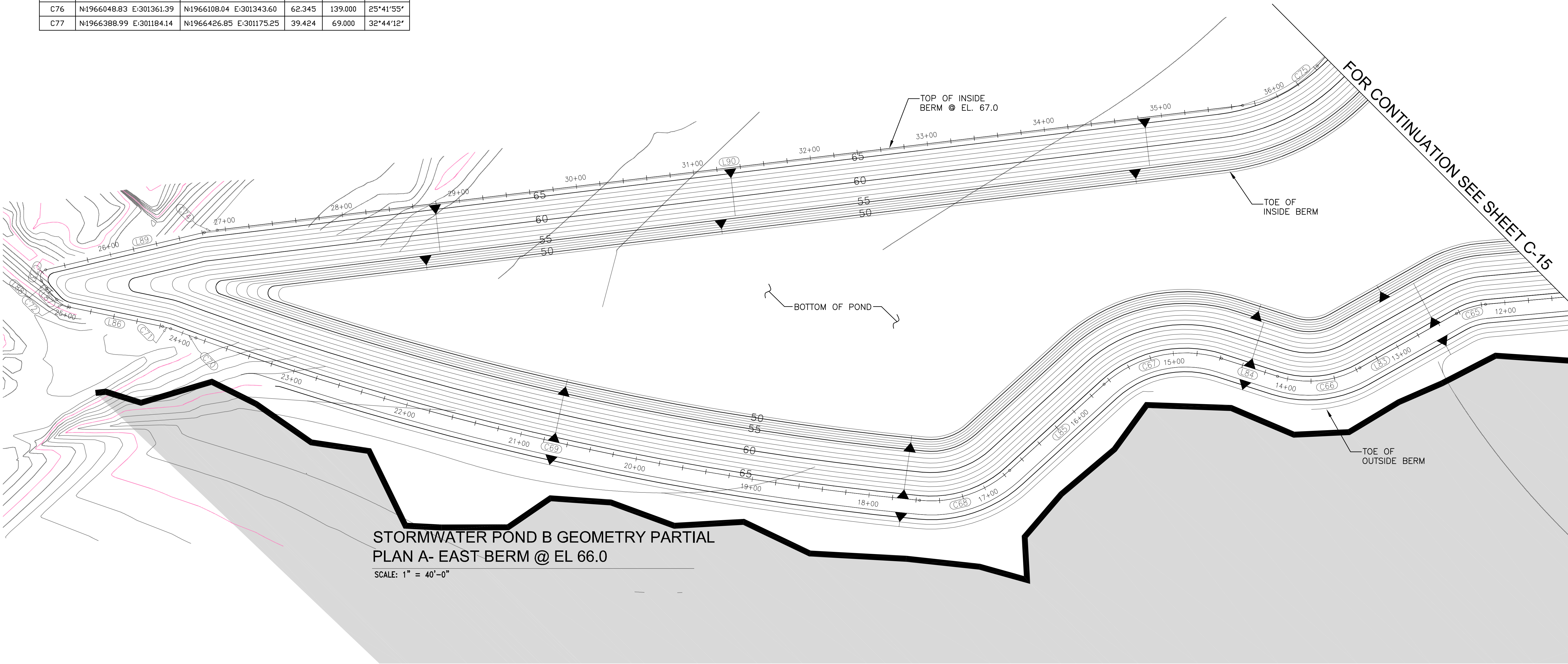
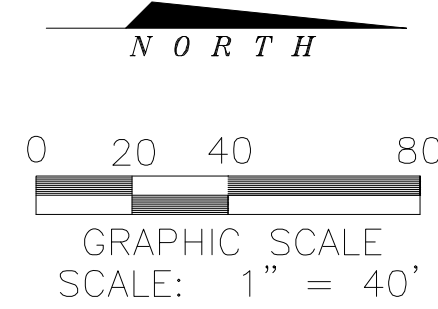
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SHEET 18/25

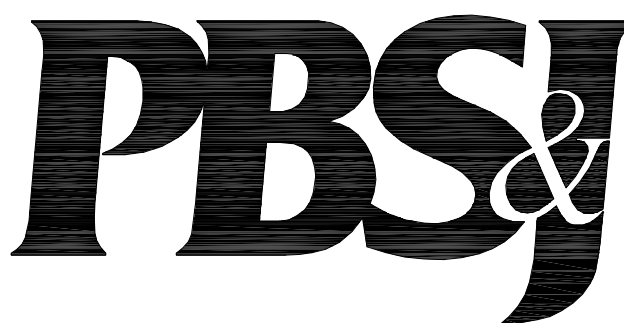
POND GEOMETRY					
NUMBER	(BC)	(EC)	LENGTH	RADIUS	DELTA
C60	N:1966632.41 E:301186.63	N:1966649.40 E:301206.40	28.393	20.000	81°20'23"
C61	N:1966649.40 E:301293.83	N:1966609.50 E:301331.78	61.587	38.000	92°51'38"
C62	N:1966439.60 E:301323.29	N:1966331.89 E:301389.16	134.122	112.000	68°36'46"
C63	N:1966331.89 E:301389.16	N:1966152.89 E:301734.60	389.257	3546.687	6°17'18"
C64	N:1966152.89 E:301734.60	N:1966043.28 E:301753.59	126.485	73.000	99°16'29"
C65	N:1965876.17 E:301614.30	N:1965853.36 E:301602.39	25.926	62.000	23°57'31"
C66	N:1965762.69 E:301577.06	N:1965708.21 E:301532.75	72.244	88.000	47°02'13"
C67	N:1965685.29 E:301488.46	N:1965599.37 E:301433.44	106.847	102.000	60°01'07"
C68	N:1965490.97 E:301428.47	N:1965419.04 E:301392.46	82.839	99.000	47°56'33"
C69	N:1965419.04 E:301392.46	N:1965082.28 E:300860.73	631.002	2551.026	14°10'20"
C70	N:1965082.28 E:300860.73	N:1965072.65 E:300840.09	22.778	2551.026	0°30'42"
C71	N:1965072.65 E:300840.09	N:1965069.17 E:300833.86	7.142	50.179	8°09'16"
C72	N:1965024.93 E:300766.44	N:1965021.68 E:300754.26	12.823	20.000	36°44'03"
C73	N:1965023.96 E:300733.67	N:1965033.01 E:300729.69	11.614	6.000	110°54'11"
C74	N:1965150.63 E:300802.34	N:1965159.74 E:300808.70	11.113	100.000	6°22'02"
C75	N:1965849.81 E:301349.20	N:1965918.24 E:301370.25	73.214	100.000	41°56'55"
C76	N:1966048.83 E:301361.39	N:1966108.04 E:301343.60	62.345	139.000	25°41'55"
C77	N:1966388.99 E:301184.14	N:1966426.85 E:301175.25	39.424	69.000	32°44'12"

POND GEOMETRY					
NUMBER	(BC)	(EC)	LENGTH	RADIUS	DELTA
L80	N:1966649.40 E:301206.40	N:1966649.40 E:301293.83	87.431		
L81	N:1966609.50 E:301331.78	N:1966439.60 E:301323.29	170.115		
L82	N:1966043.28 E:301753.59	N:1965876.17 E:301614.30	217.543		
L83	N:1965853.36 E:301602.39	N:1965762.69 E:301577.06	94.137		
L84	N:1965708.21 E:301532.75	N:1965685.29 E:301488.46	49.863		
L85	N:1965599.37 E:301433.44	N:1965490.97 E:301428.47	108.512		
L86	N:1965069.17 E:300833.86	N:1965024.93 E:300766.44	80.640		
L87	N:1965021.68 E:300754.26	N:1965022.45 E:300741.60	12.689		
L88	N:1965022.45 E:300741.60	N:1965023.96 E:300733.67	8.065		
L89	N:1965033.01 E:300729.69	N:1965150.63 E:300802.34	138.245		
L90	N:1965159.74 E:300808.70	N:1965849.81 E:301349.20	876.559		
L91	N:1965918.24 E:301370.25	N:1966048.83 E:301361.39	130.888		
L92	N:1966108.04 E:301343.60	N:1966388.99 E:301184.14	323.050		
L93	N:1966426.85 E:301175.25	N:1966630.91 E:301186.40	204.361		
L94	N:1966630.91 E:301186.40	N:1966632.41 E:301186.63	1.518		



STORMWATER POND B GEOMETRY PARTIAL
PLAN A- EAST BERM @ EL 66.0
SCALE: 1" = 40'-0"

C-16



482 South Keller Road
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Tampa, FL 33607
FBPR Certificate of Authorization No.: 24

CLIENT
**SEMINOLE ELECTRIC
COOPERATIVE, INC**
(SECI)

PROJECT
**INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)**

TASK
**STORMWATER POND B
GEOMETRY PLAN 2**

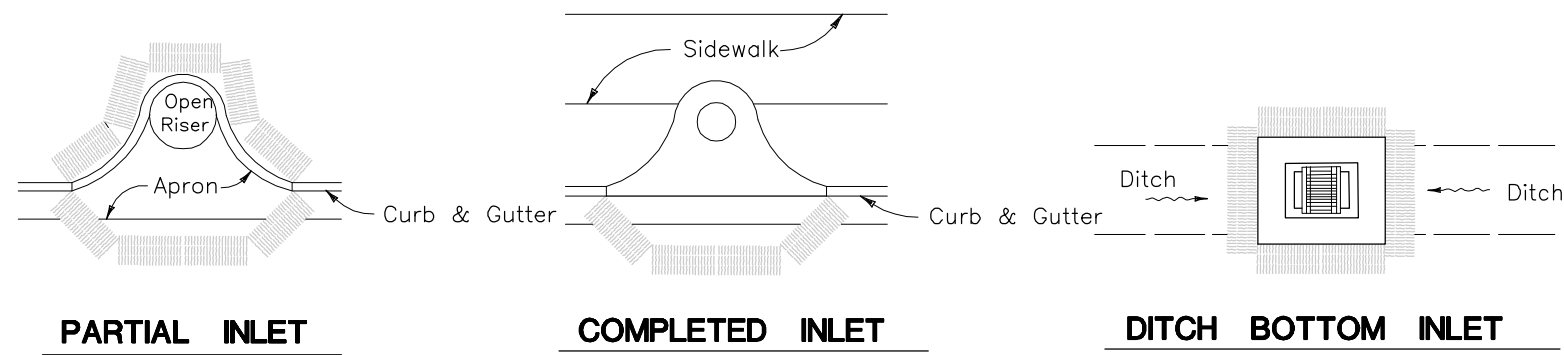
ORIGINAL JULY 16, 2010
REVISIONS:
AUG. 26, 2010
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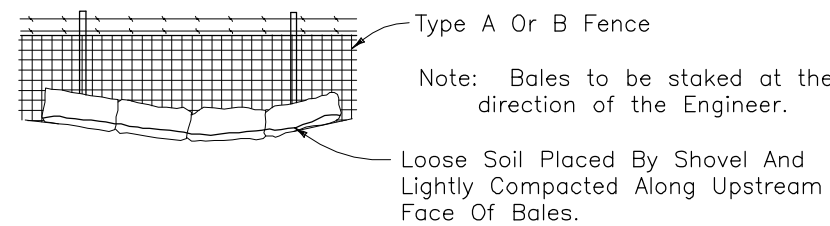
Name: JOSEPH L. MILLER
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Address: PBS&J
482 S. Keller Road
Orlando, FL 32810-6101
Signature _____ Date _____

JOB NO.100013496
DRAWN RG
DESIGN RG
CHECKED JLM
Q.C. DED
SHEET 19/25

\\01dsh-35\CONCADO\WESTMAN\SEMINOLE ELECTRIC-PALATKA\VERTICAL EXPANSION DESIGN REVISED DRAWINGS 9-21-10\USE BD C-17 Erosion Control Details.dwg 5/23/2010 1:14pm Plotted By: 22427

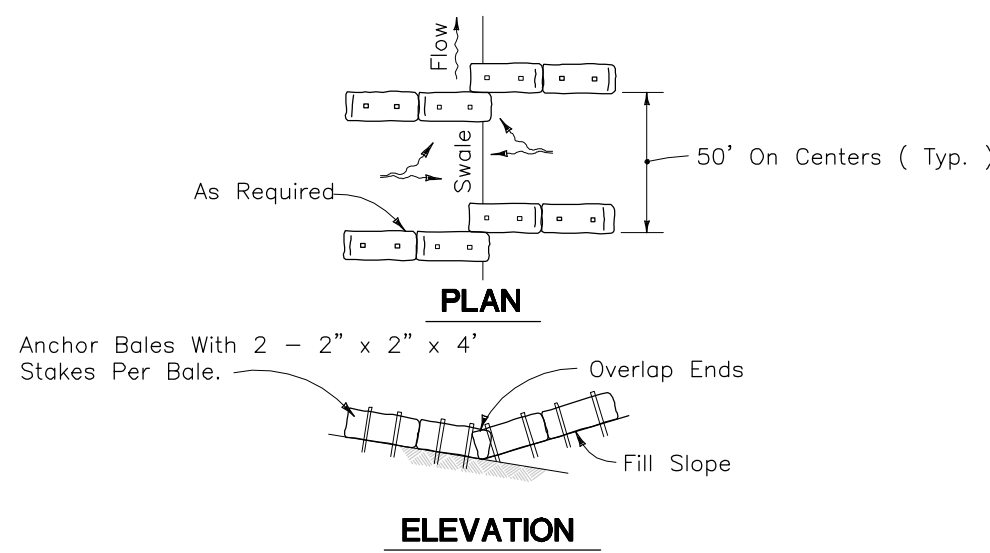


PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



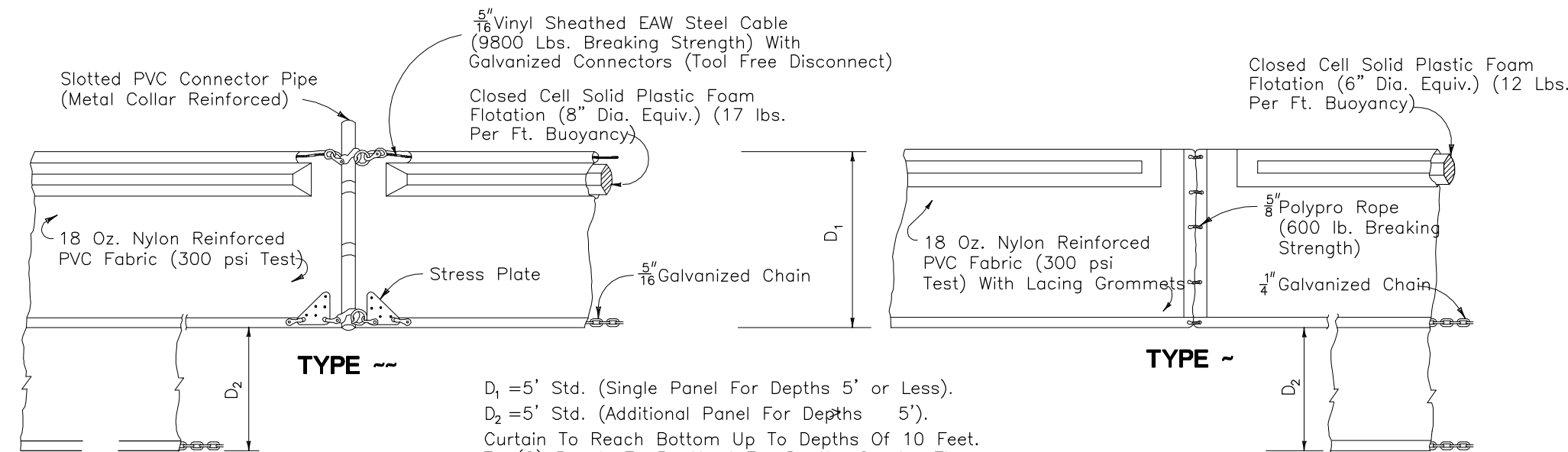
BALES BACKED BY FENCE DETAIL

N.T.S.



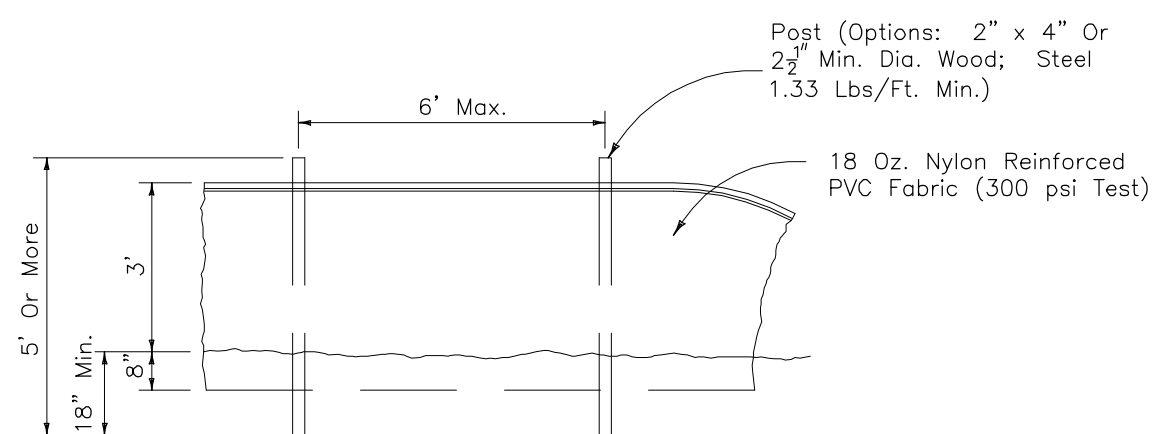
BARRIERS FOR FILL SLOPES DETAIL

N.T.S.



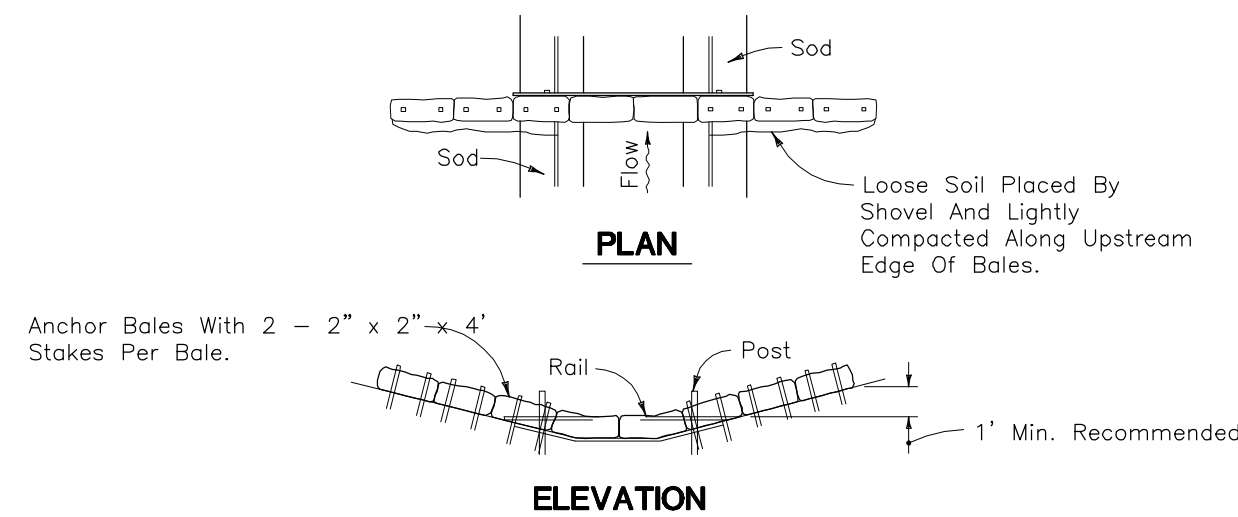
FLOATING TURBIDITY BARRIERS DETAIL

N.T.S.



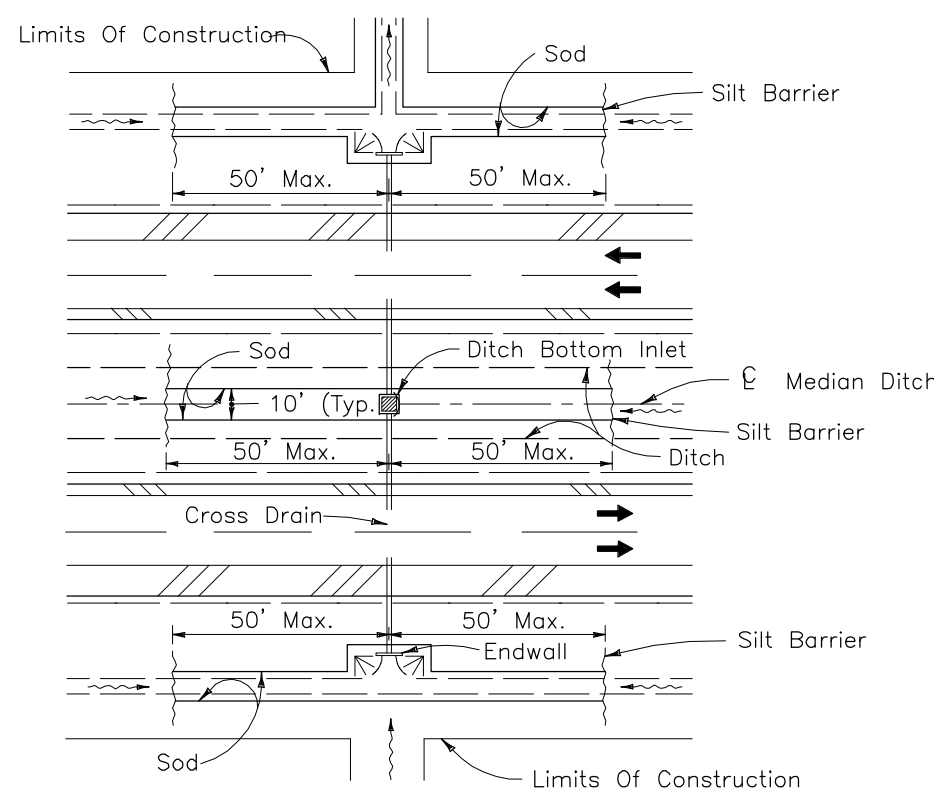
STAKED TURBIDITY BARRIER DETAIL

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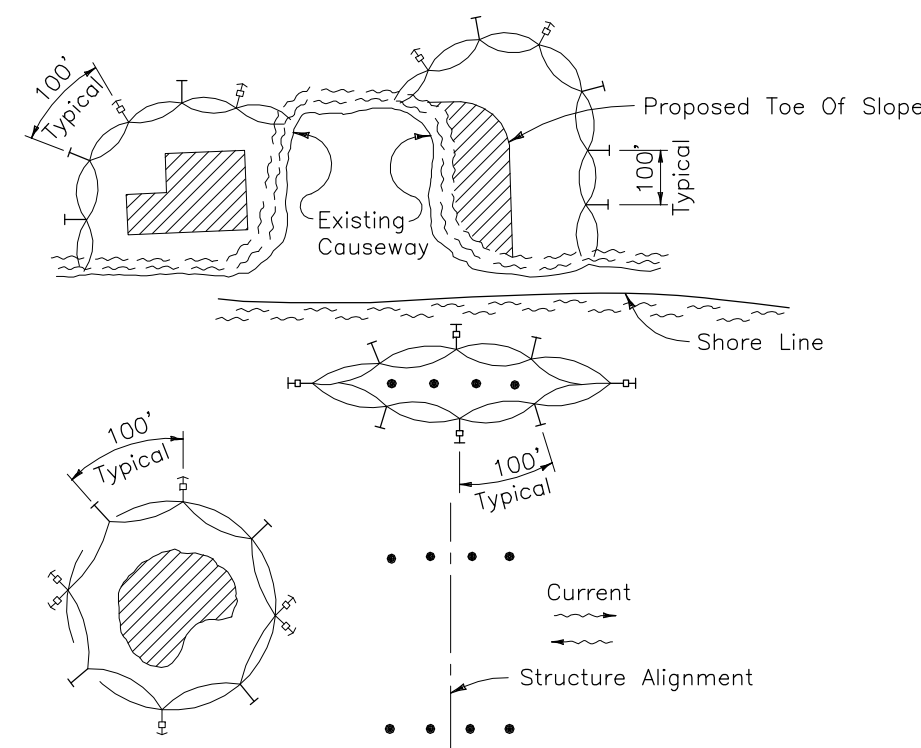
BARRIER FOR PAVED DITCH DETAIL

N.T.S.

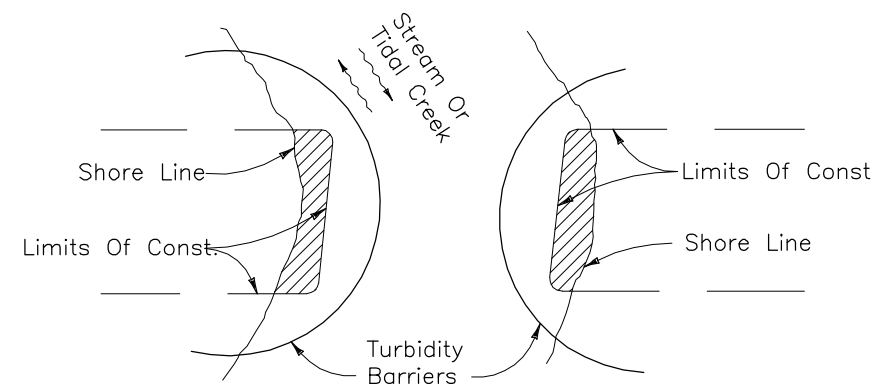


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES DETAIL

N.T.S.



- LEGEND
- Pile Locations
 - ▨ Dredge Or Fill Area
 - Mooring Buoy w/Anchor
 - Anchor
 - Barrier Movement Due To Current Action

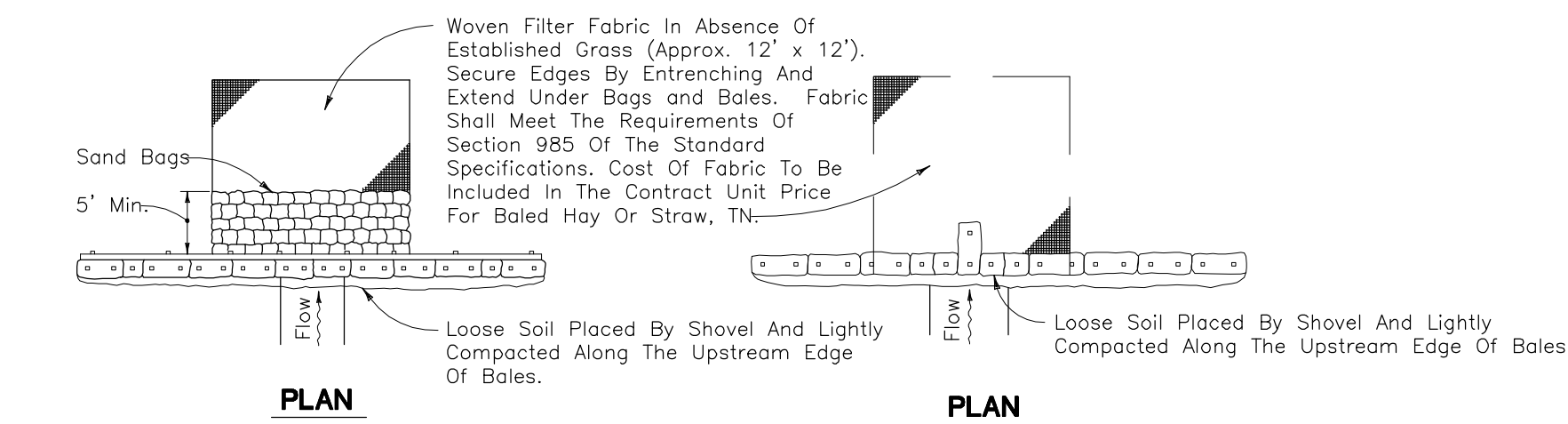


Notes:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the Standard Specifications.

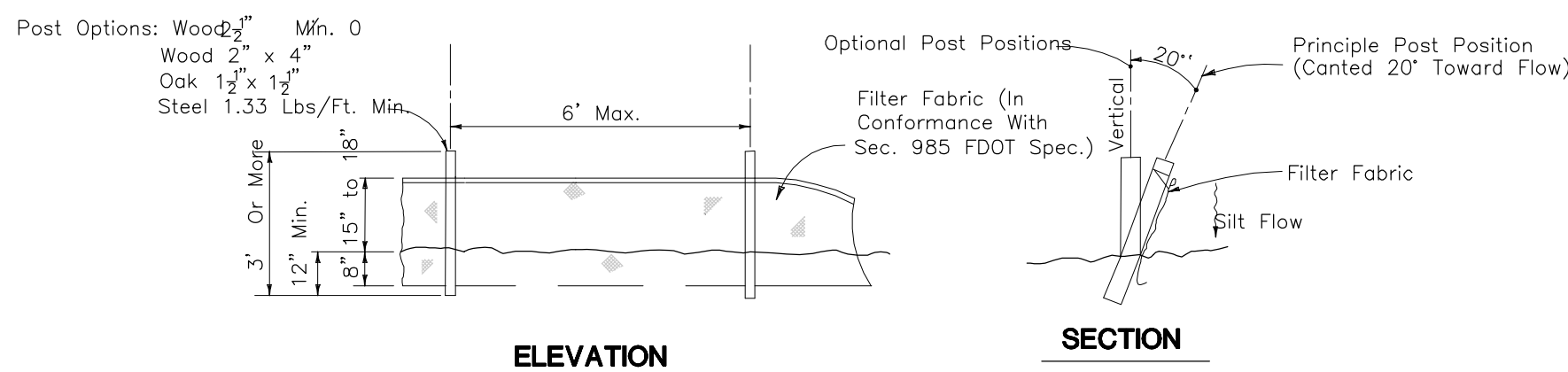
TURBIDITY BARRIER APPLICATIONS DETAIL

N.T.S.



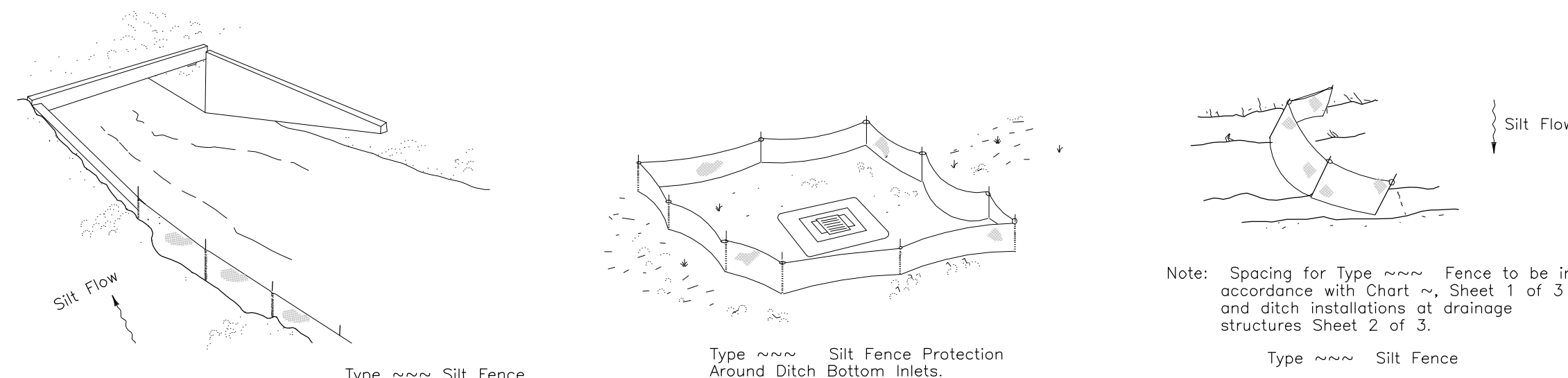
BARRIER FOR UNPAVED DITCHES DETAIL

N.T.S.



TYPE 1 SILT FENCE DETAIL

N.T.S.



Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS DETAILS

N.T.S.



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6750/a PBS&J
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CLIENT

SEMINOLE ELECTRIC
COOPERATIVE, INC
(SECI)

PROJECT

INCREMENT 1 BUILDOUT
AT SEMINOLE GENERATING
STATION (SGS)

TASK

EROSION CONTROL DETAILS

ORIGINAL JULY 16, 2010

REVISIONS:

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SHEET 20/25

C-17