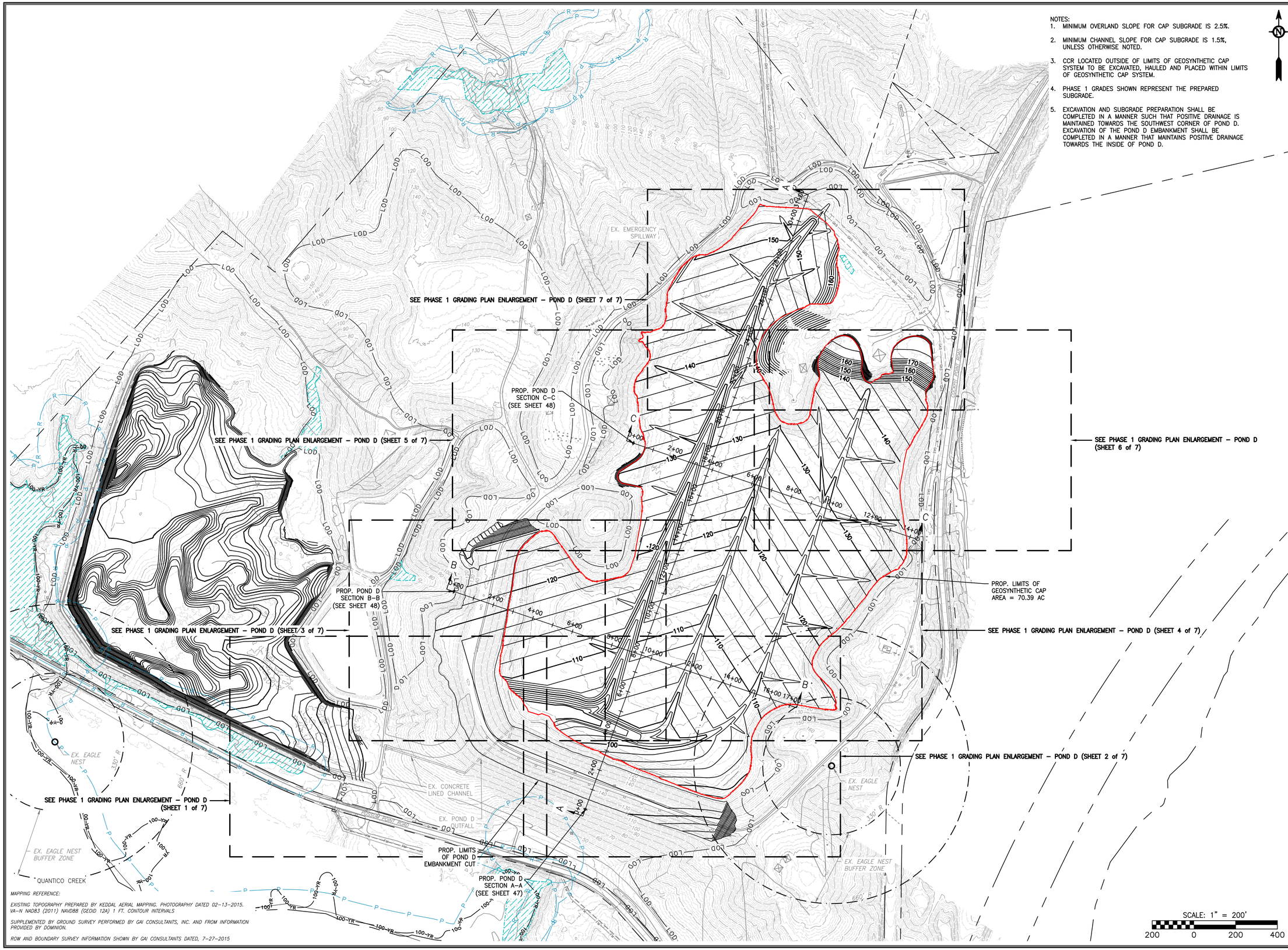
NOTES:
1. MINIMUM OVERLAND SLOPE FOR CAP SUBGRADE IS 2.5%.
2. MINIMUM CHANNEL SLOPE FOR CAP SUBGRADE IS 1.5%, UNLESS OTHERWISE NOTED.
3. CCR LOCATED OUTSIDE OF LIMITS OF GEOSYNTHETIC CAP SYSTEM TO BE EXCAVATED, HAULED AND PLACED WITHIN LIMITS OF GEOSYNTHETIC CAP SYSTEM.
4. PHASE 1 GRADES SHOWN REPRESENT THE PREPARED SUBGRADE.
5. EXCAVATION AND SUBGRADE PREPARATION SHALL BE COMPLETED IN A MANNER SUCH THAT POSITIVE DRAINAGE IS MAINTAINED TOWARDS THE SOUTHWEST CORNER OF POND D. EXCAVATION OF THE POND D EMBANKMENT SHALL BE COMPLETED IN A MANNER THAT MAINTAINS POSITIVE DRAINAGE TOWARDS THE INSIDE OF POND D.



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02–13–2015. VA–N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7–27–2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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PLOTTED ON: 11/17/2015 3:51:47 PM PLOTTED BY: Michael Doyle PLOT FILE: GAI.ctb

DRAWING TITLE
OVERALL PHASE 1 GRADING PLAN - POND D CLOSURE

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 – DOM – Possum Point PS CCR\CAD\Production Drawings\C150132-00-000-C-D1-013.dwg

COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

DRAWN BY:	CHECKED BY:	APPROVED BY:
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 13 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-013

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 013

PERMIT

SEE POND E GRADING PLAN (SHEET 37) FOR PROPOSED GRADING IN POND E

PROP. SPOT ELEVATION (TYP.)

EL:119.45

EL:118.90

EL:118.81

EL:118.85

EL:118.91

EL:118.79

EL:118.57

EL:118.62

EL:118.77

EL:118.99

PROPOSED PHASE 1 LIMITS OF EMBANKMENT CUT (MIN. ELEV.=119)

4/50 PROP. LIMITS OF GEOSYNTHETIC CAP AREA = 70.39 AC

PROP. PREPARED SUBGRADE ELEVATION (TYP.)

PROPOSED PHASE 1 LIMITS OF EMBANKMENT CUT (ELEV.=117)

7/56 EXISTING OBSERVATION WELLS ARE TO BE LOWERED AND PROTECTED

EX. OUTFALL RISER

EX. WALKWAY

EX. OUTLET PIPE

MATCHLINE – SEE SHEET 16

MATCHLINE – SEE SHEET 17

MATCHLINE – SEE SHEET 15

EX. GRAVEL ACCESS ROAD

EX. CONCRETE LINED CHANNEL

POND E LAYDOWN AREA

EX. POND D OUTFALL RISER, OUTLET PIPE, AND WALKWAY. CONTRACTOR SHALL REMOVE WALKWAY AND REMOVE TOP OF RISER STRUCTURE. CONTRACTOR TO PLUG OUTLET PIPE WITH A WATERTIGHT SEAL BY FILLING WITH GROUT ALONG THE ENTIRE LENGTH IN ACCORDANCE WITH THE SPECIFICATIONS. TOP OF RISER STRUCTURE TO BE REMOVED TO AN ELEVATION 5 FEET BELOW PROPOSED PHASE 3 SUBGRADE AND REMAINING RISER STRUCTURE TO BE FILLED WITH GROUT.

POND ABC ACCESS ROAD. SEE PLAN SPR2015-20301 FOR E&S CONTROLS ASSOCIATED WITH POND ABC ACCESS ROAD

POSSUM POINT ROAD

W-1 W-4 ED1 SSF

SCALE: 1" = 50'

50 0 50 100

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 1 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Esrarg\Arch\150132-00--000--C-D1-014.dwg PLOTTED ON: 11/18/2015 12:52:05 PM PLOTTED BY: Michael Doyle PLOT FILE: GAI.stb

COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

DRAWN BY:	CHECKED BY:	APPROVED BY:
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: **14** OF **65**

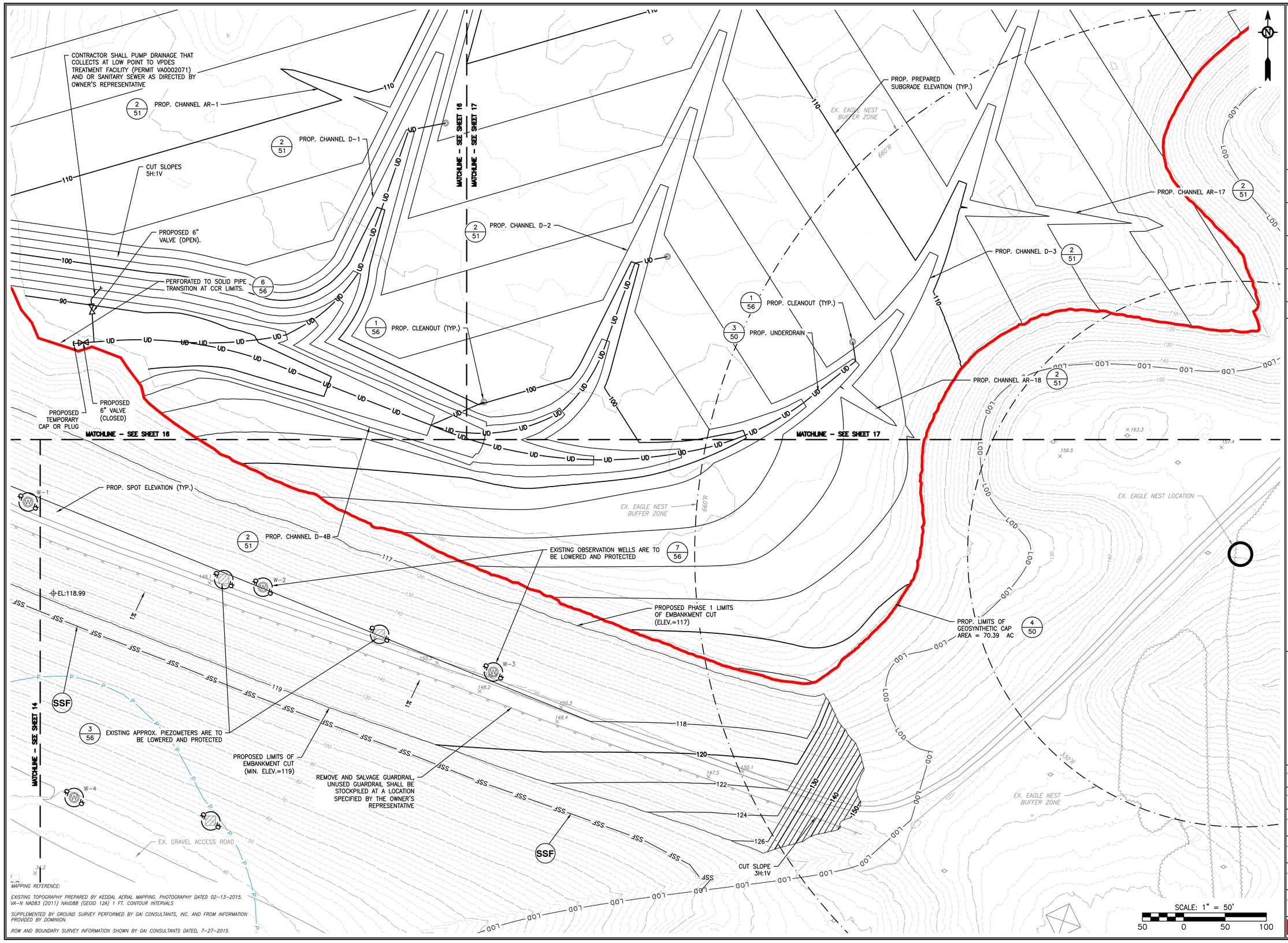
REVISION

GAI FILE NUMBER: **C150132-00-000-C-D1-014**

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: **014**

PERMIT



MAPPING REFERENCE:

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 2 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 15 OF 65

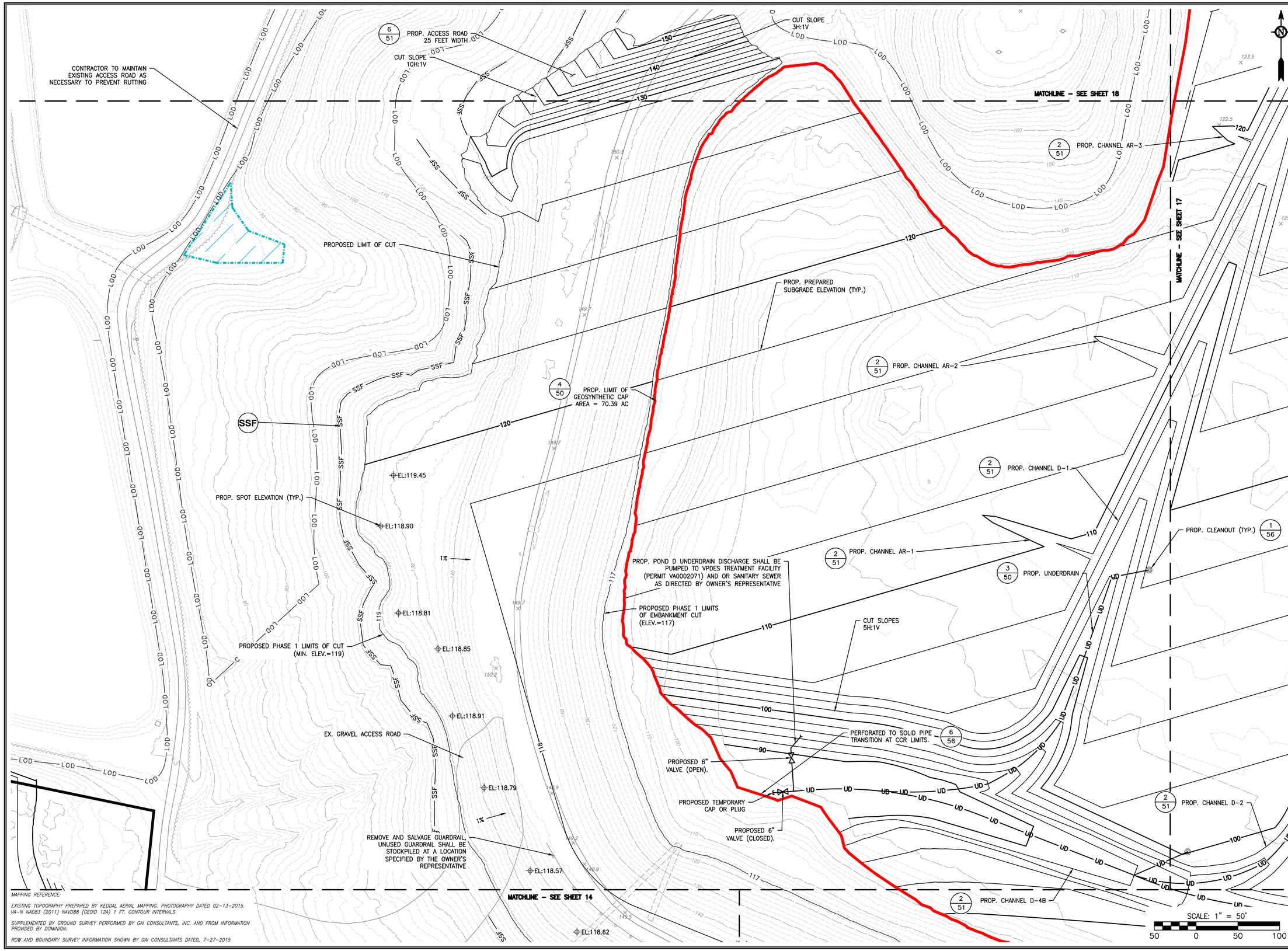
REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 015

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 3 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 16 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 016

PERMIT

MATCHLINE – SEE SHEET 16

MATCHLINE – SEE SHEET 18

MATCHLINE – SEE SHEET 19

MATCHLINE – SEE SHEET 15

PROP. CHANNEL AR-3 (2/51)

PROP. CHANNEL AR-2 (2/51)

PROP. CHANNEL D-1 (2/51)

PROP. CHANNEL D-2 (2/51)

PROP. CHANNEL D-3 (2/51)

PROP. CHANNEL D-4B (2/51)

PROP. CHANNEL AR-15 (2/51)

PROP. CHANNEL AR-16 (2/51)

PROP. CHANNEL AR-17 (2/51)

PROP. CHANNEL AR-18 (2/51)

PROP. CLEANOUT (1/54)

PROP. CLEANOUT (TYP.) (1/56)

PROP. CLEANOUT (TYP.) (1/56)

PROP. PREPARED SUBGRADE ELEVATION (TYP.)

PROP. LIMIT OF GEOSYNTHETIC CAP AREA = 70.39 AC (4/50)

PROP. UNDERDRAIN (3/50)

EX. EAGLE NEST BUFFER ZONE 660'R

EX. EAGLE NEST BUFFER ZONE 330'R

EX. EAGLE NEST LOCATION

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

SCALE: 1" = 50'

50 0 50 100

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

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ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

gai consultants

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 4 OF 7)

COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 17 OF 65

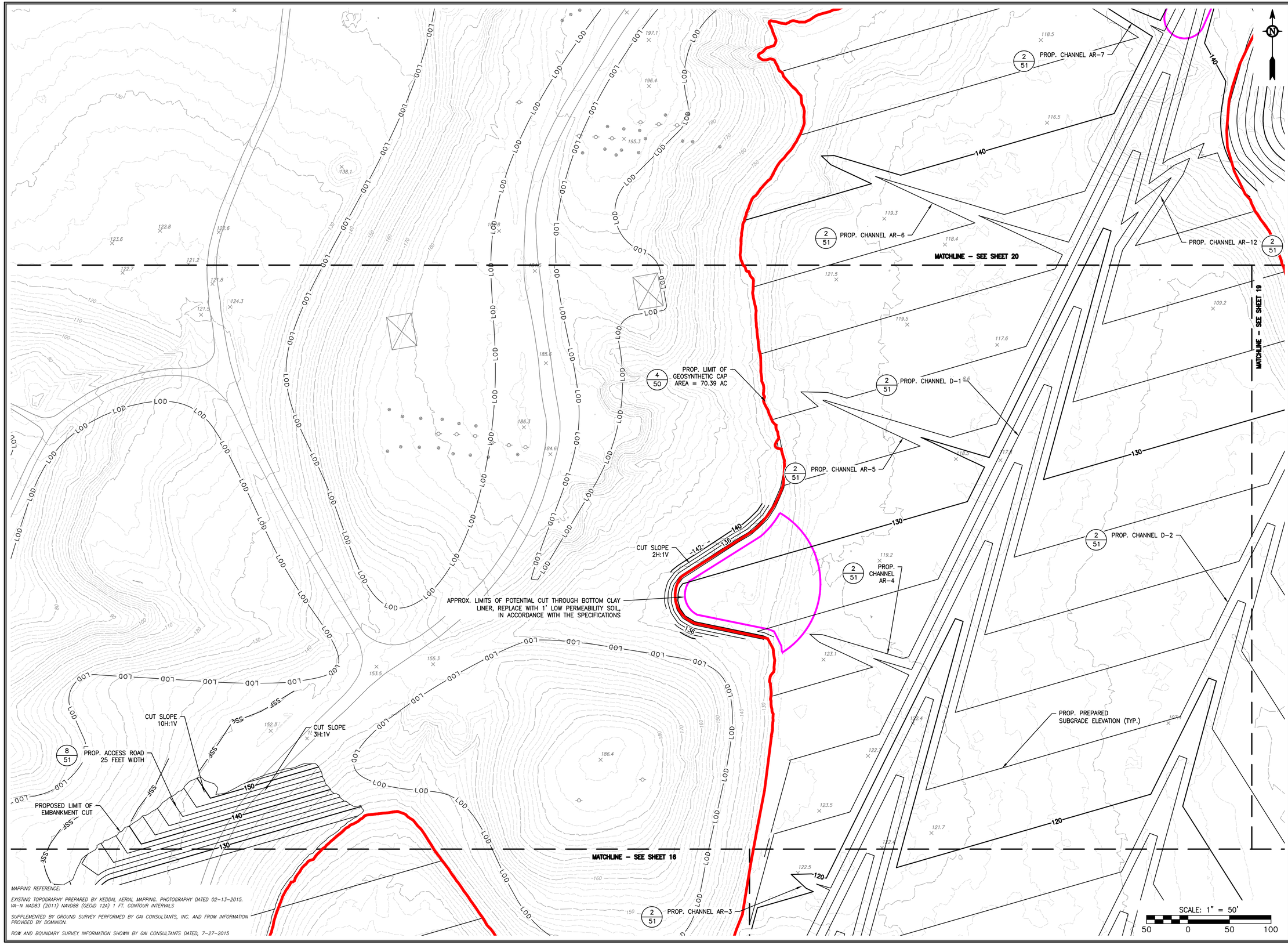
REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 017

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

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DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 5 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060 (804) 346-7900 | FAX (804) 346-7932

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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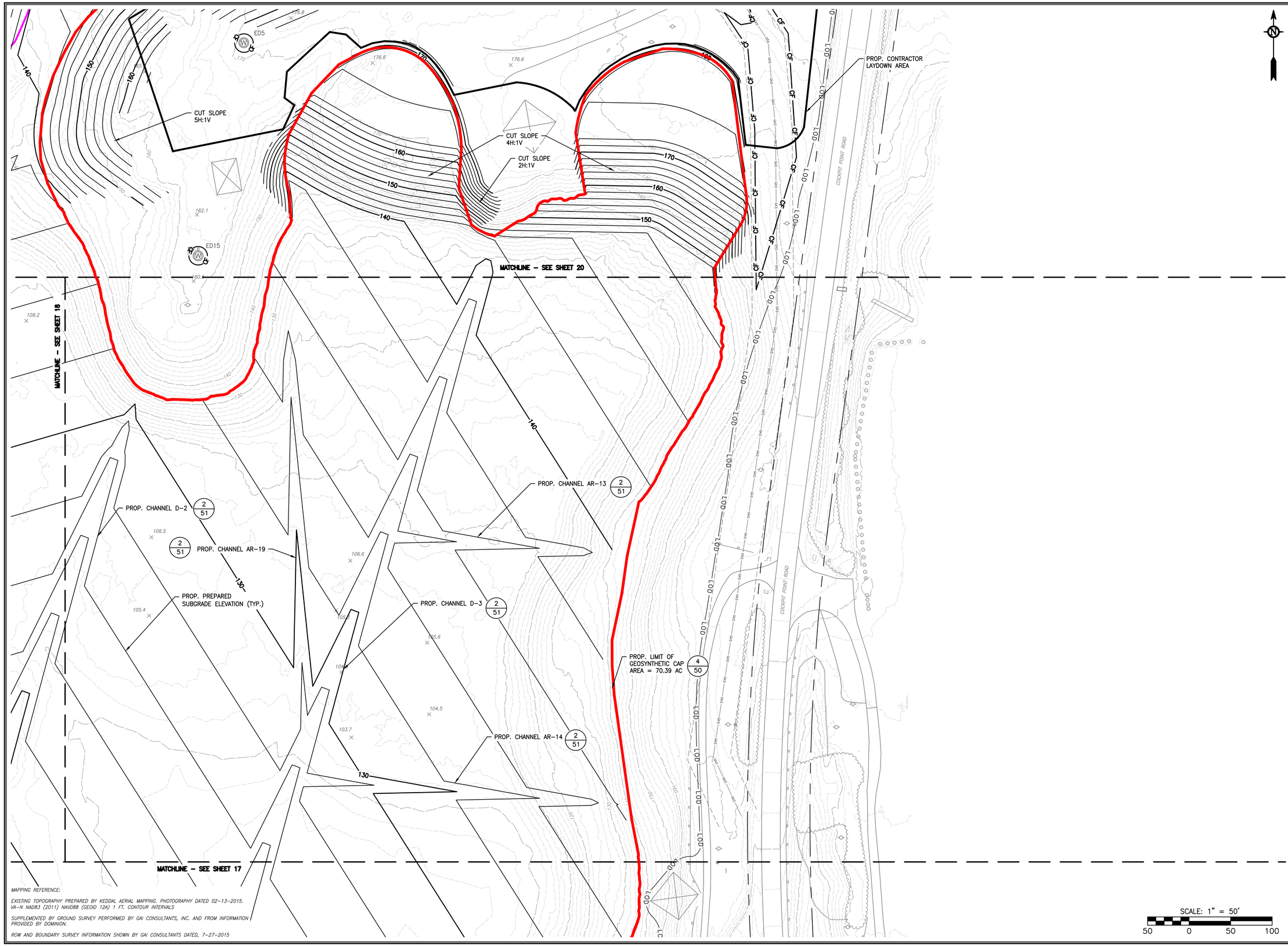
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.:		REVISION
18 OF 65		

GAI FILE NUMBER:
C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER:
018

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 6 OF 7)

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL
SURFACE IMPOUNDMENT
CLOSURES
DUMFRIES, VA

gai consultants

CLIENT

VIRGINIA ELECTRIC AND
POWER COMPANY
GLEN ALLEN, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 19 OF 65

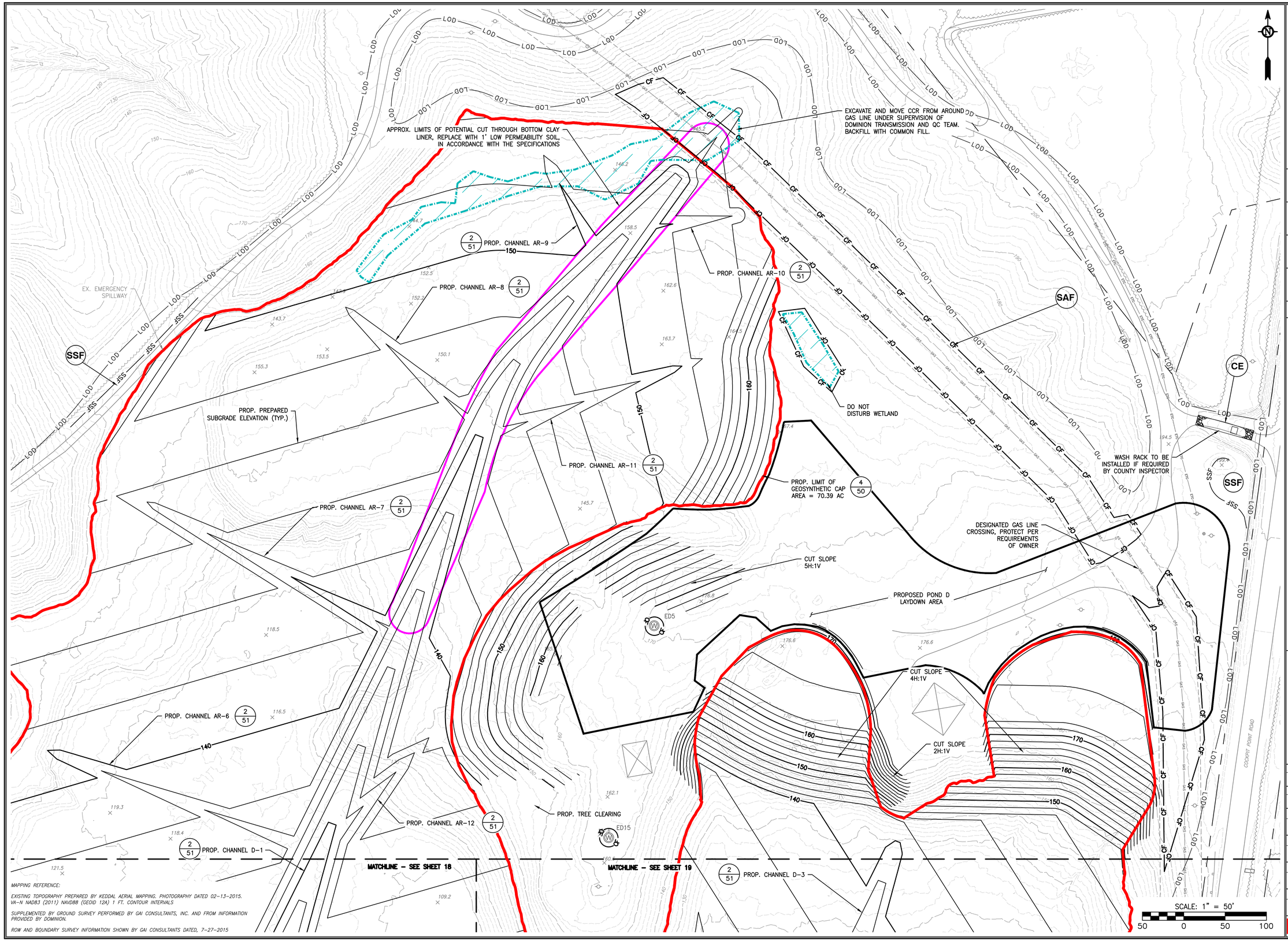
REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 019

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

DRAWING TITLE

PHASE 1 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 7 OF 7)

PROJECT

POSSUM POINT POWER STATION COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES

DUMFRIES, VA

gai consultants

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY GLEN ALLEN, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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REVISION RECORD

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
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SHEET NO.: 20 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-014

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 020

PERMIT

NOTES:
1. MINIMUM OVERLAND SLOPE FOR PHASE 2 GRADE IS 2.5%.
2. MINIMUM CHANNEL SLOPE FOR PHASE 2 GRADE IS 1.5%, UNLESS OTHERWISE NOTED.
3. CCR LOCATED OUTSIDE OF LIMITS OF GEOSYNTHETIC CAP SYSTEM TO BE EXCAVATED, HAULED AND PLACED WITHIN LIMITS OF GEOSYNTHETIC CAP.
4. PHASE 2 GRADES SHOWN REPRESENT THE PROPOSED FINAL GRADE (PHASE 3) CONTOURS SHOWN IN BLACK, COMBINED WITH THE EXISTING PREPARED SUBGRADE (PHASE 1) CONTOURS SHOWN IN GRAY.
5. ENTIRE LLDPE GEOMEMBRANE COMPONENT OF THE GEOSYNTHETIC CAP SYSTEM TO BE COMPLETED AS PART OF PHASE 2. FINAL GRADE TO BE COMPLETED IN AREAS SHOWN.

SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 7 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 5 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 6 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 3 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 4 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 1 of 7)
SEE PHASE 2 GRADING PLAN ENLARGEMENT – POND D (SHEET 2 of 7)

PROP. POND D SECTION C–C (SEE SHEET 48)
PROP. POND D SECTION B–B (SEE SHEET 48)
PROP. POND D SECTION A–A (SEE SHEET 47)
PROP. LIMITS OF GEOSYNTHETIC CAP AREA = 70.39 AC (4/50)

EX. EMERGENCY SPILLWAY
EX. EAGLE NEST
EX. EAGLE NEST BUFFER ZONE
EX. CONCRETE LINED CHANNEL
POSSUM POINT ROAD
QUANTICO CREEK

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02–13–2015. VA–N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7–27–2015

SCALE: 1" = 200'
200 0 200 400

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE
OVERALL PHASE 2 GRADING PLAN - POND D CLOSURE

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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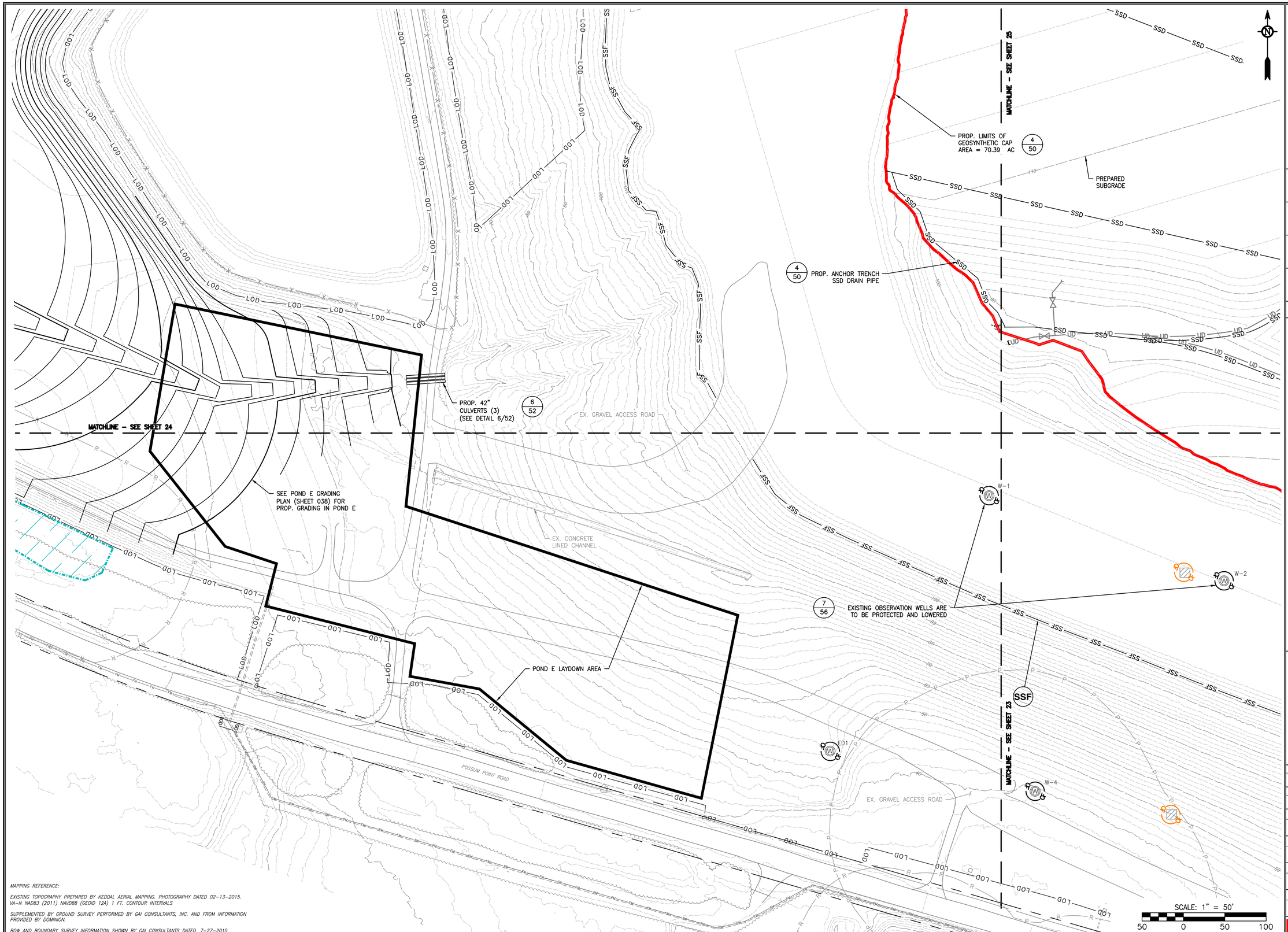
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.: 21 OF 65		REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-021

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 021

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

REVISION RECORD

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

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DRAWING TITLE
PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 1 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

DRAWN BY:	CHECKED BY:	APPROVED BY:
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.: 22 OF 65		REVISION

GAI FILE NUMBER:
C150132-00-000-C-D1-022

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER:
022

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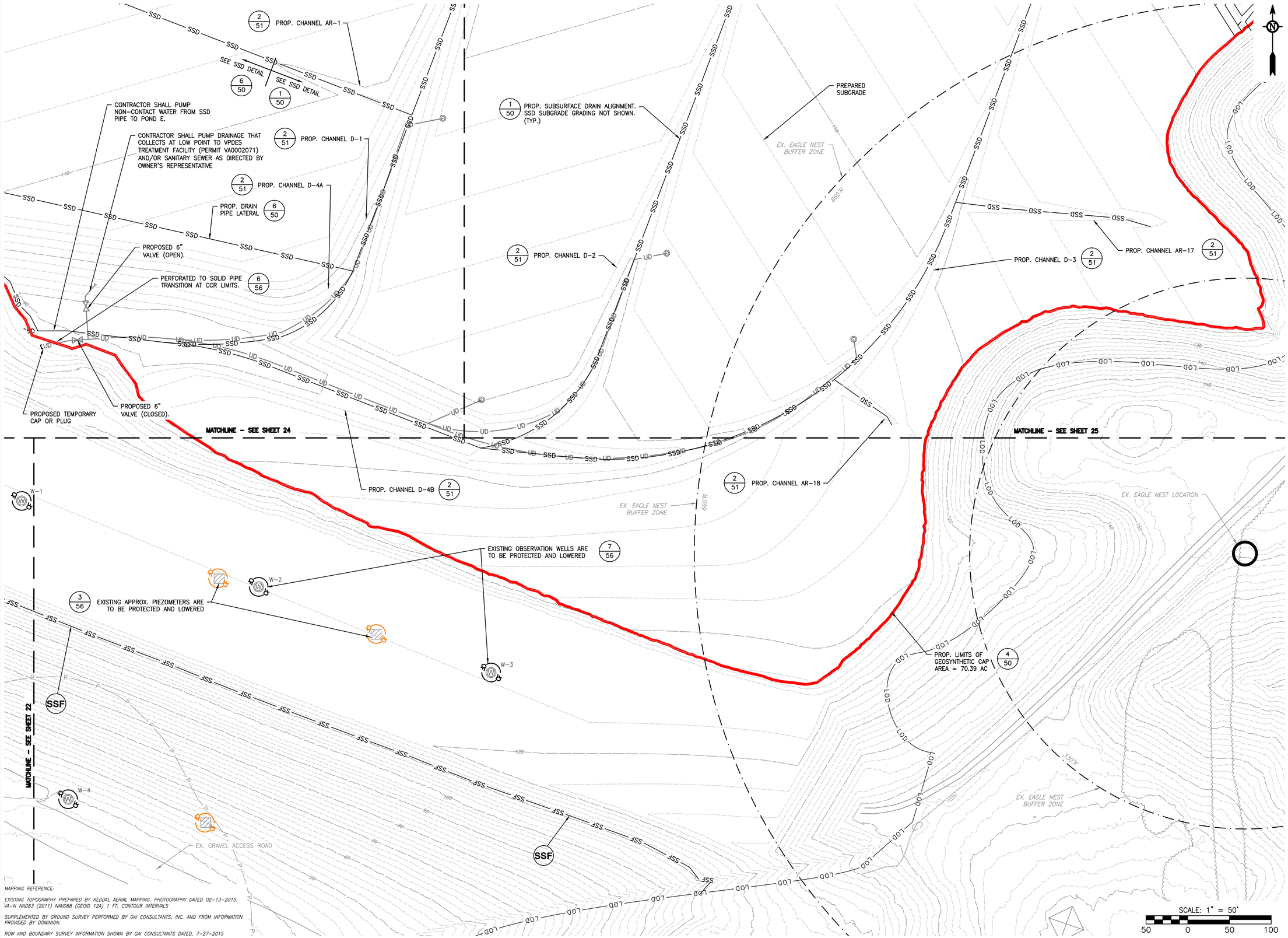

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

DRAWING TITLE
PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 2 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.:		REVISION
23 OF 65		

GAI FILE NUMBER:
C150132-00-000-C-D1-022

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER:
023

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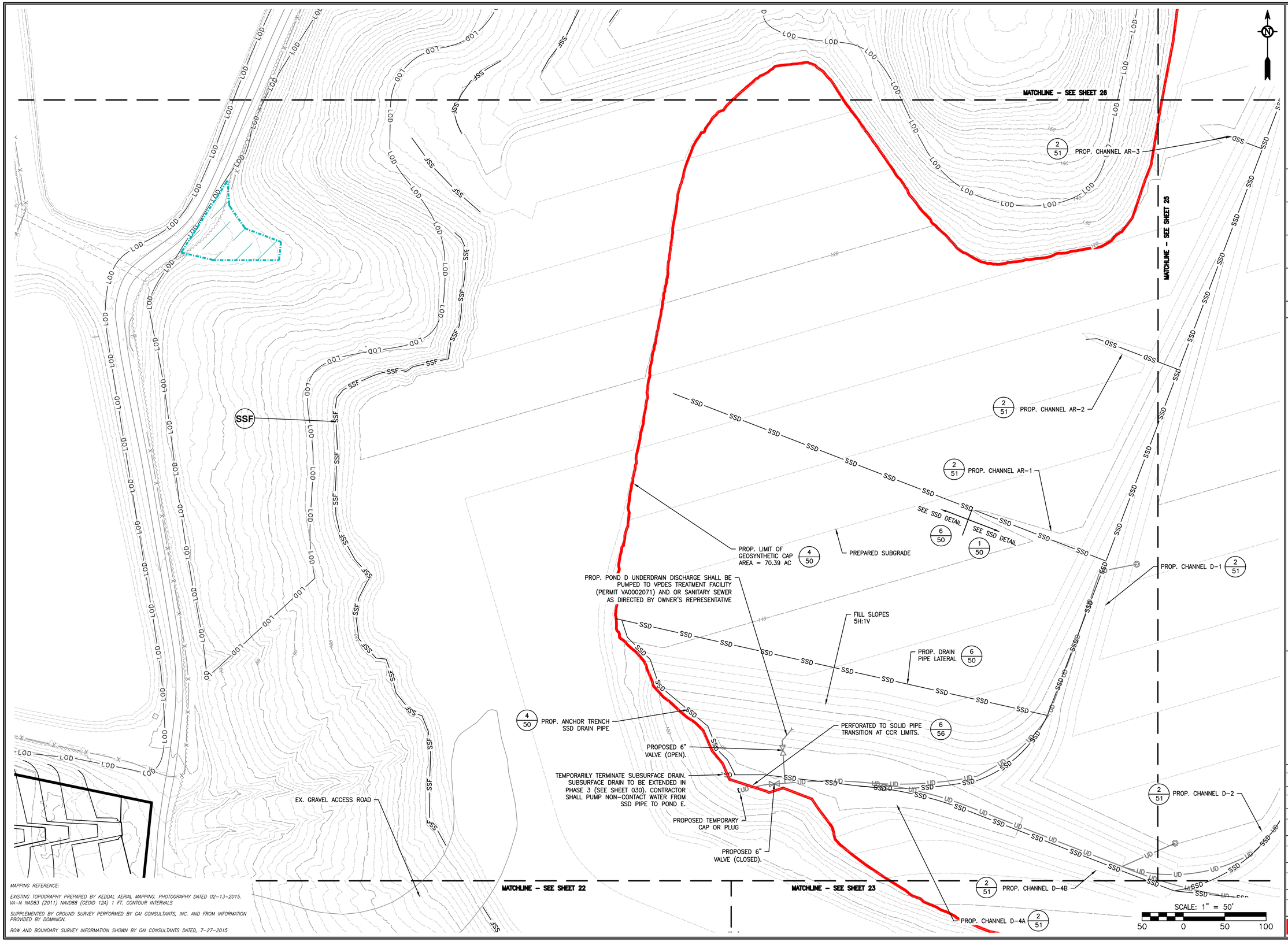

MAPPING REFERENCE:

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

DRAWING TITLE
PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 3 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: **24** OF **65**

REVISION

GAI FILE NUMBER: **C150132-00-000-C-D1-022**

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: **024**

PERMIT

MATCHLINE – SEE SHEET 24

MATCHLINE – SEE SHEET 26

MATCHLINE – SEE SHEET 27

MATCHLINE – SEE SHEET 23

2/51 PROP. CHANNEL AR–3

2/51 PROP. CHANNEL AR–2

2/51 PROP. CHANNEL D–1

1/50 PROP. SUBSURFACE DRAIN ALIGNMENT. SSD SUBGRADE GRADING NOT SHOWN.

2/51 PROP. CHANNEL D–3

2/51 PROP. CHANNEL D–2

2/51 PROP. CHANNEL D–4B

2/51 PROP. CHANNEL AR–18

2/51 PROP. CHANNEL AR–17

2/51 PROP. CHANNEL AR–16

2/51 PROP. CHANNEL AR–15

5/50 PROP. FINAL GRADE

1% SLOPE IN CHANNEL

PROP. CLEANOUT 1/56

CONTRACTOR SHALL PROTECT EDGE OF GEOSYNTHETIC CAP SYSTEM DURING INSTALLATION. A TEMPORARY COVER AND/OR SACRIFICIAL GEOTEXTILE MAY BE REQUIRED TO PROTECT GEOSYNTHETICS FROM EXTENDED UV EXPOSURE AND SILTATION. PROVIDE TEMPORARY STORMWATER CONTROLS TO PREVENT EROSION OF FINAL COVER AND SUBGRADE (TYP.). CONTRACTOR TO PROVIDE PHASING PLAN AND INTERIM TERMINATION DETAIL FOR APPROVAL.

PREPARED SUBGRADE

PROP. LIMIT OF GEOSYNTHETIC CAP AREA = 70.39 AC 4/50

EX. EAGLE NEST BUFFER ZONE

660'R

EX. EAGLE NEST LOCATION

ED17

SCALE: 1" = 50'

50 0 50 100

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02–13–2015. VA–N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7–27–2015

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REVISION RECORD

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DRAWING TITLE

PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 4 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.: 25 OF 65		REVISION
GAI FILE NUMBER: C150132-00-000-C-D1-022		
ALT./CLIENT DRAWING NUMBER:		
GAI DRAWING NUMBER: 025		

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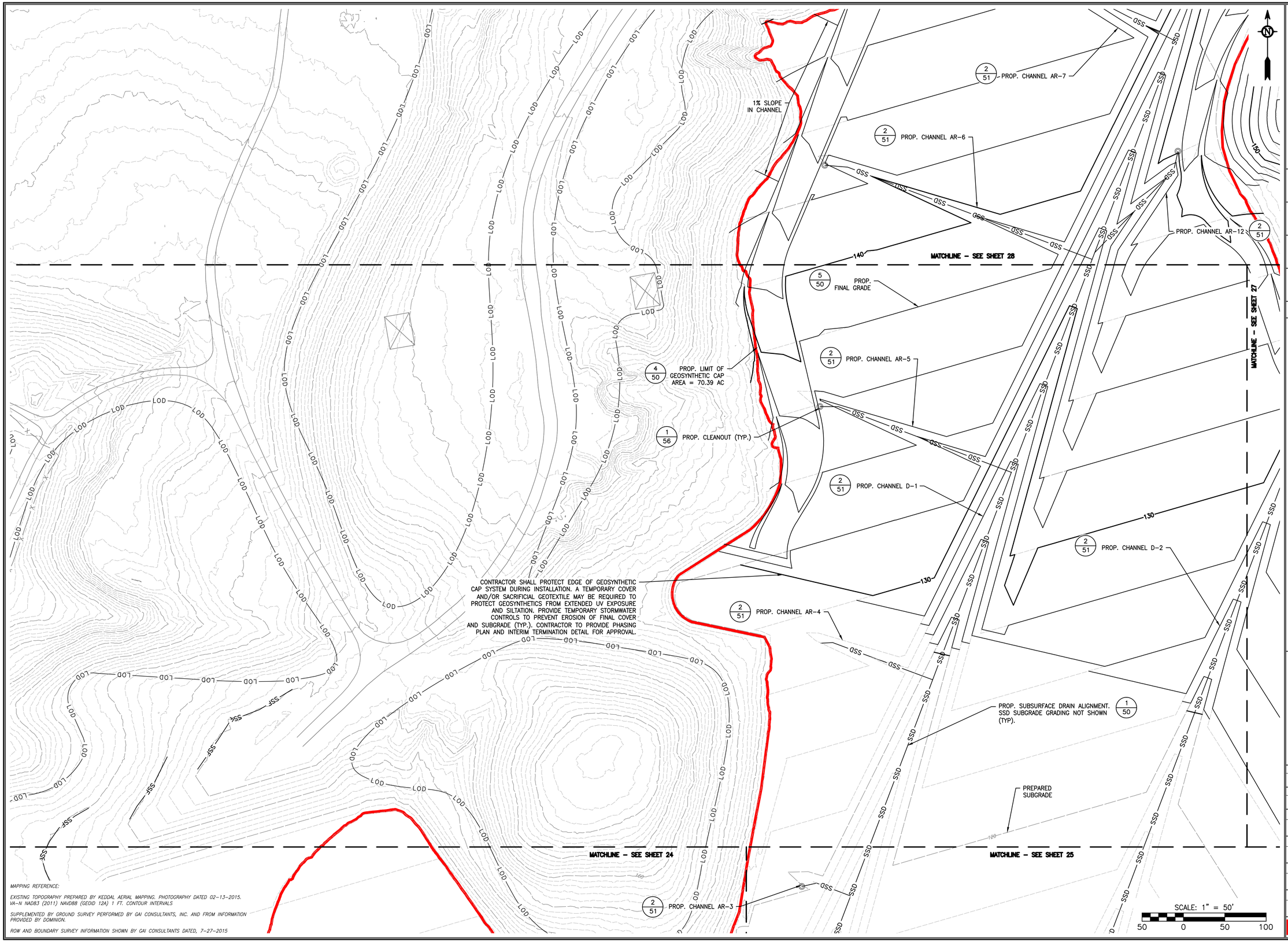

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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DRAWING TITLE

PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 5 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

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SHEET NO.: **26** OF **65**

REVISION

GAI FILE NUMBER: **C150132-00-000-C-D1-022**

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: **026**

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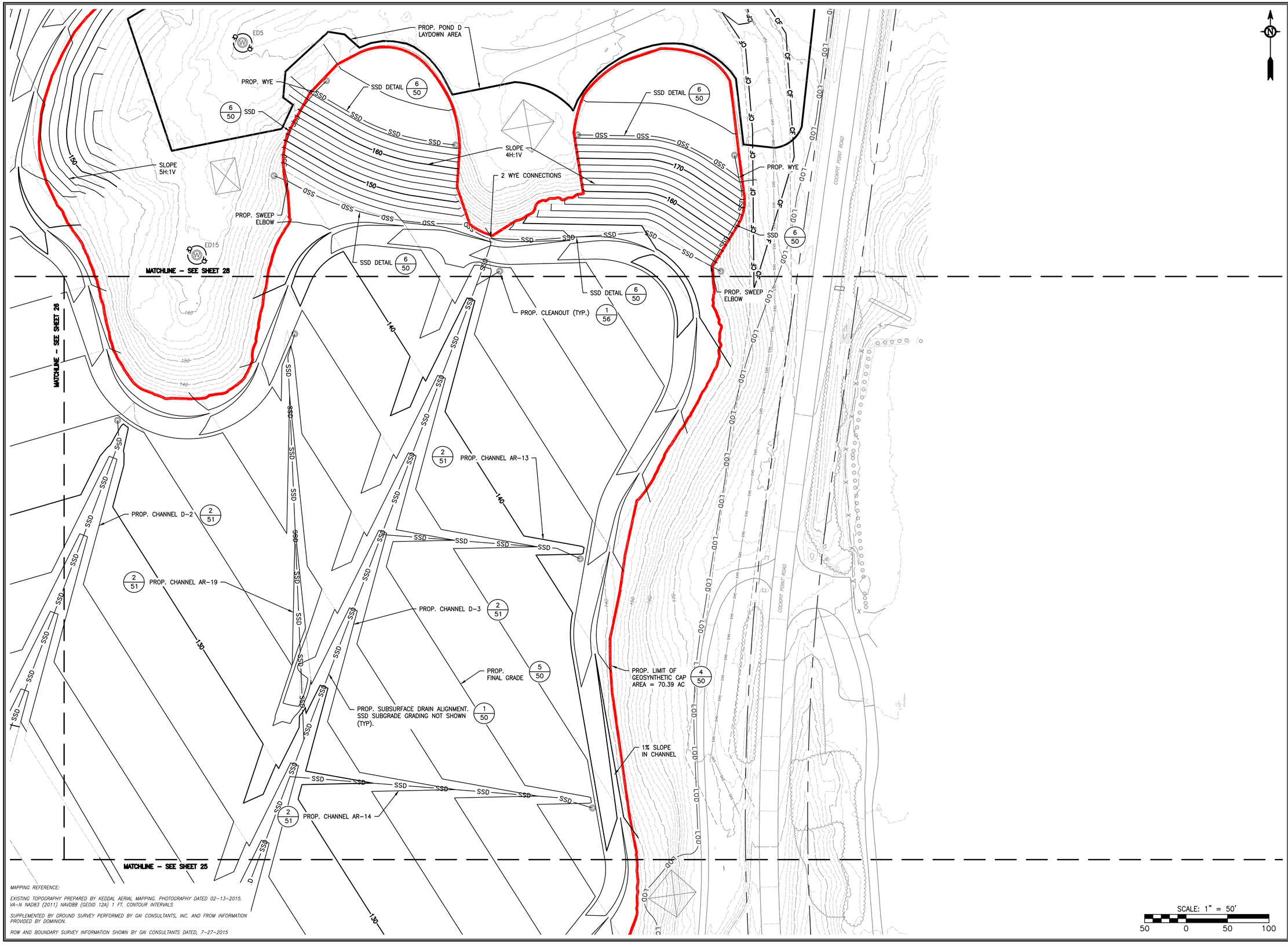

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:
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DRAWING TITLE
PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 6 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.: 27 OF 65		REVISION

GAI FILE NUMBER: **C150132-00-000-C-D1-022**

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: **027**

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PROP. CLEANOUT (TYP.) 1/56

PROP. CHANNEL AR-9 2/51

PROP. CHANNEL AR-10 2/51

PROP. CHANNEL AR-8 2/51

PROP. CHANNEL AR-11 2/51

PROP. CHANNEL AR-7 2/51

PROP. FINAL GRADE 5/50

PROP. CHANNEL AR-6 2/51

PROP. SUBSURFACE DRAIN ALIGNMENT. SSD SUBGRADE GRADING NOT SHOWN. 1/50

PROP. CHANNEL AR-12 2/51

PROP. CHANNEL D-1 2/51

1% SLOPE IN CHANNEL

SLOPE 5H:1V

SLOPE 4H:1V

PROP. LIMIT OF GEOSYNTHETIC CAP AREA = 70.39 AC 4/50

DO NOT DISTURB WETLAND

WASH RACK TO BE INSTALLED IF REQUIRED BY COUNTY INSPECTOR

DESIGNATED GAS LINE CROSSING, PROTECT PER REQUIREMENTS OF OWNER

PROP. POND D LAYDOWN AREA

PROP. CLEANOUT (TYP.) 1/56

PROP. CHANNEL D-3 2/51

ED5

ED15

SAF

CE

SSF

COCKPIT POINT ROAD

MATCHLINE - SEE SHEET 26

MATCHLINE - SEE SHEET 27

SCALE: 1" = 50'

50 0 50 100

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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DRAWING TITLE
PHASE 2 GRADING PLAN ENLARGEMENT - POND D CLOSURE (SHEET 7 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132-00\—DOM — Possum Point_PS_CCB\CAD\Production Drawings\C150132-00-000-C-D1-022.dwg — PLOTTED ON: 11/17/2015, 4:08:46 PM — PLOTTED BY: Michael Doyle — PLOT FILE: GAI.stb

COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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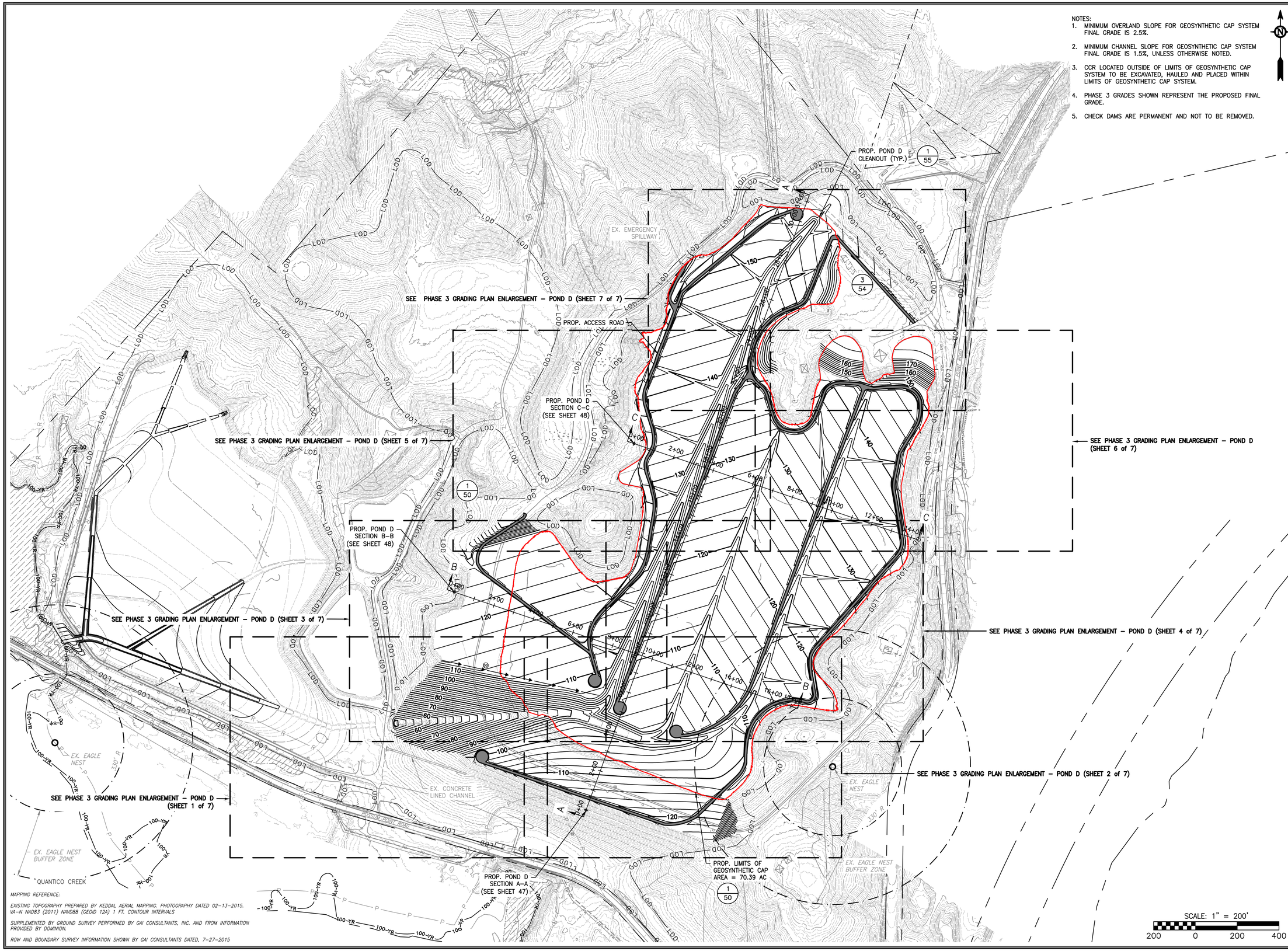
CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.:		REVISION
28 OF 65		
GAI FILE NUMBER:		
C150132-00-000-C-D1-022		
ALT./CLIENT DRAWING NUMBER:		
GAI DRAWING NUMBER:		
028		

PERMIT

NOTES:
1. MINIMUM OVERLAND SLOPE FOR GEOSYNTHETIC CAP SYSTEM FINAL GRADE IS 2.5%.
2. MINIMUM CHANNEL SLOPE FOR GEOSYNTHETIC CAP SYSTEM FINAL GRADE IS 1.5%, UNLESS OTHERWISE NOTED.
3. CCR LOCATED OUTSIDE OF LIMITS OF GEOSYNTHETIC CAP SYSTEM TO BE EXCAVATED, HAULED AND PLACED WITHIN LIMITS OF GEOSYNTHETIC CAP SYSTEM.
4. PHASE 3 GRADES SHOWN REPRESENT THE PROPOSED FINAL GRADE.
5. CHECK DAMS ARE PERMANENT AND NOT TO BE REMOVED.



MAPPING REFERENCE:

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

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PLOTTED ON: 11/17/2015 4:17:22 PM PLOTTED BY: Michael Doyle PLOT FILE: GAI.stb

DRAWING TITLE
OVERALL PHASE 3 GRADING PLAN - POND D CLOSURE

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 – DOM – Possum Point PS CCR\CAD\Production Drawings\C150132-00-000-C-D1-029.dwg

COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 29 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-029

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 029

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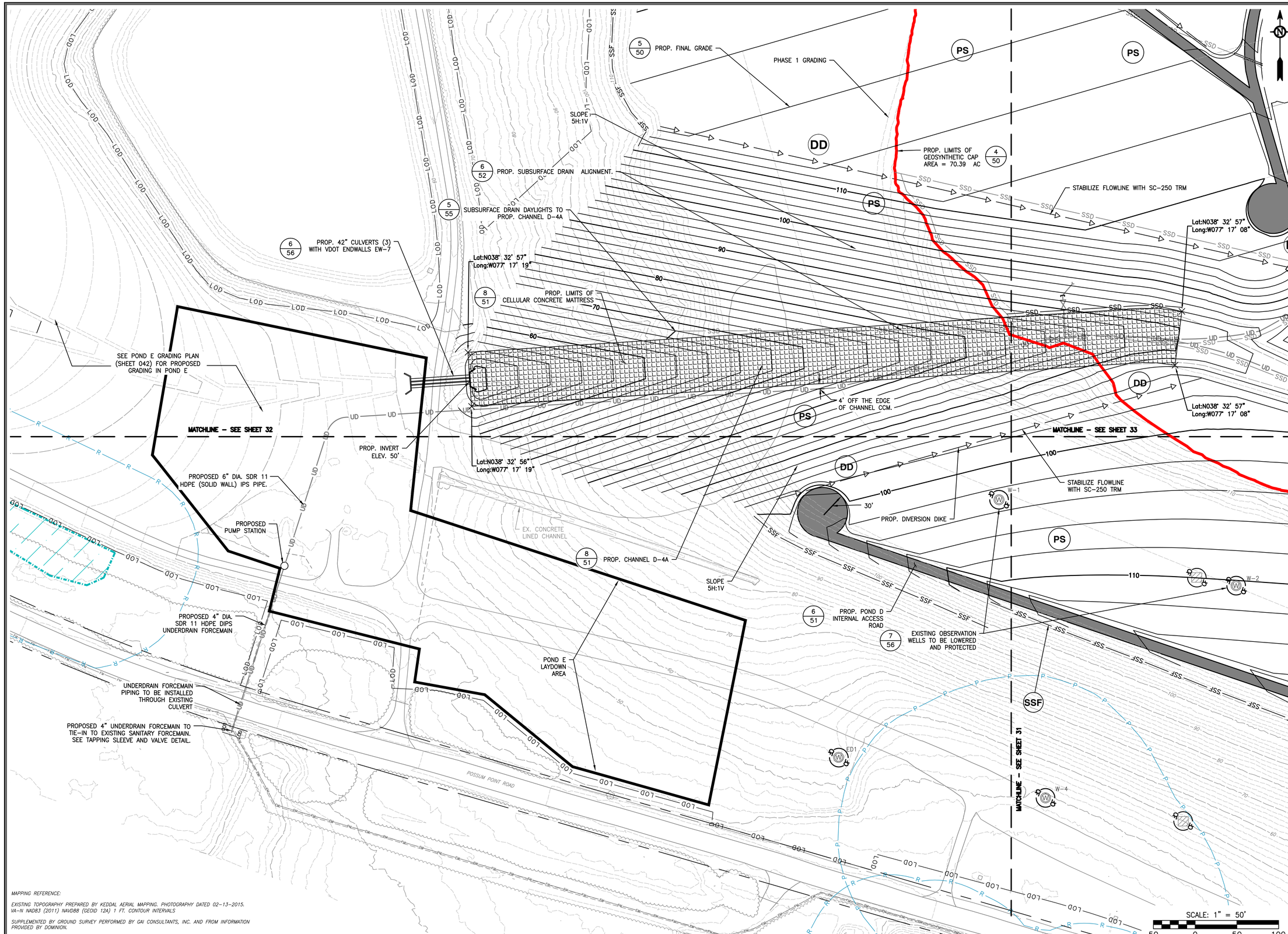

MAPPING REFERENCE:

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (1 OF 7)

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL
SURFACE IMPOUNDMENT
CLOSURES
DUMFRIES, VA

CLIENT

VIRGINIA ELECTRIC AND
POWER COMPANY
GLEN ALLEN, VA

gai consultants

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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	AS SHOWN	12/7/2015

SHEET NO.: 30 OF 65

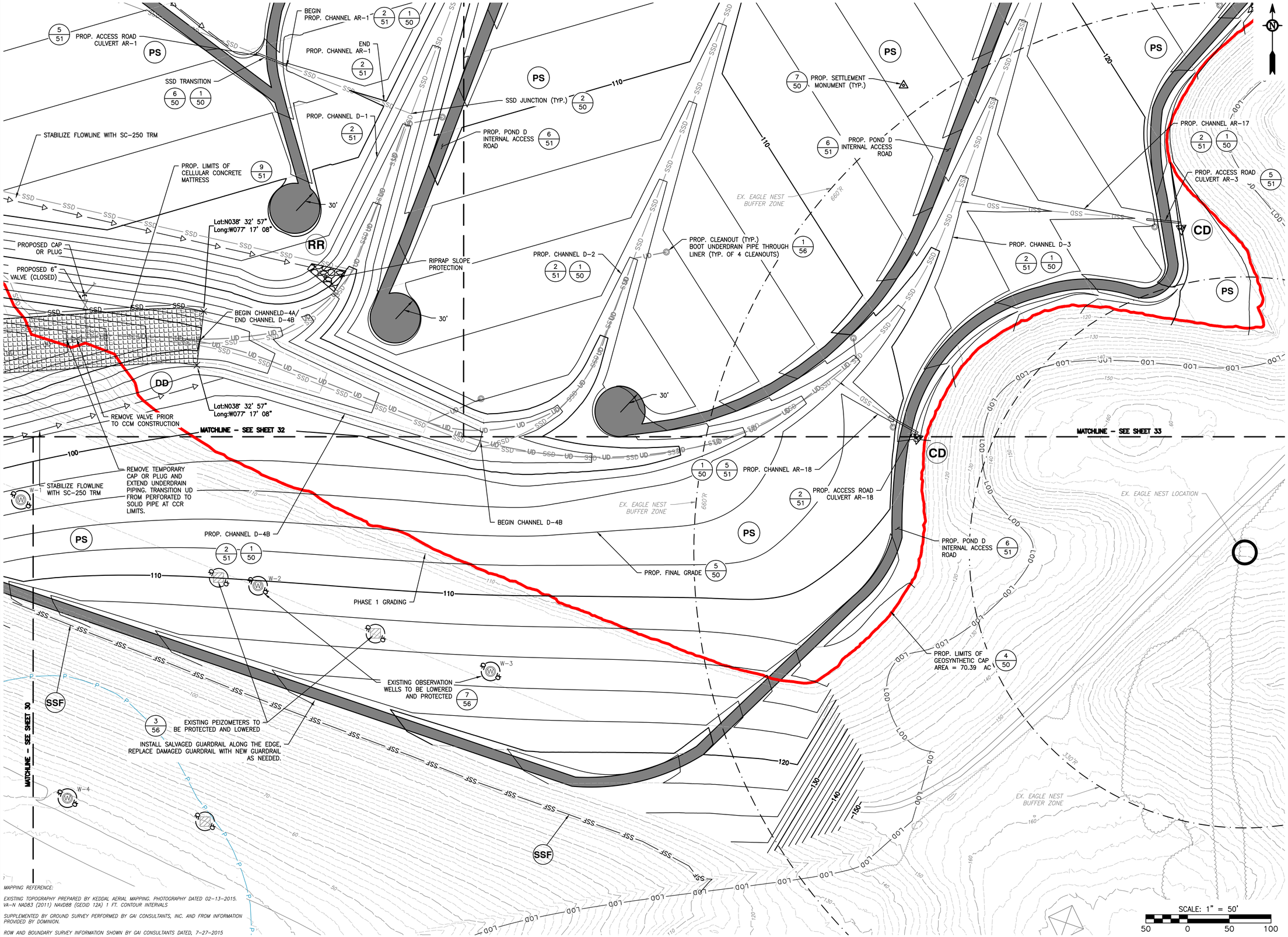
REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-030

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 030

PERMIT



MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

SUPPLEMENTED BY GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. AND FROM INFORMATION PROVIDED BY DOMINION.

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DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (2 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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SHEET NO.: 31 OF 65

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GAI FILE NUMBER: C150132-00-000-C-D1-030

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GAI DRAWING NUMBER: 031

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MAPPING REFERENCE:

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (3 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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REVISION RECORD

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
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SHEET NO.: 32 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-030

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 032

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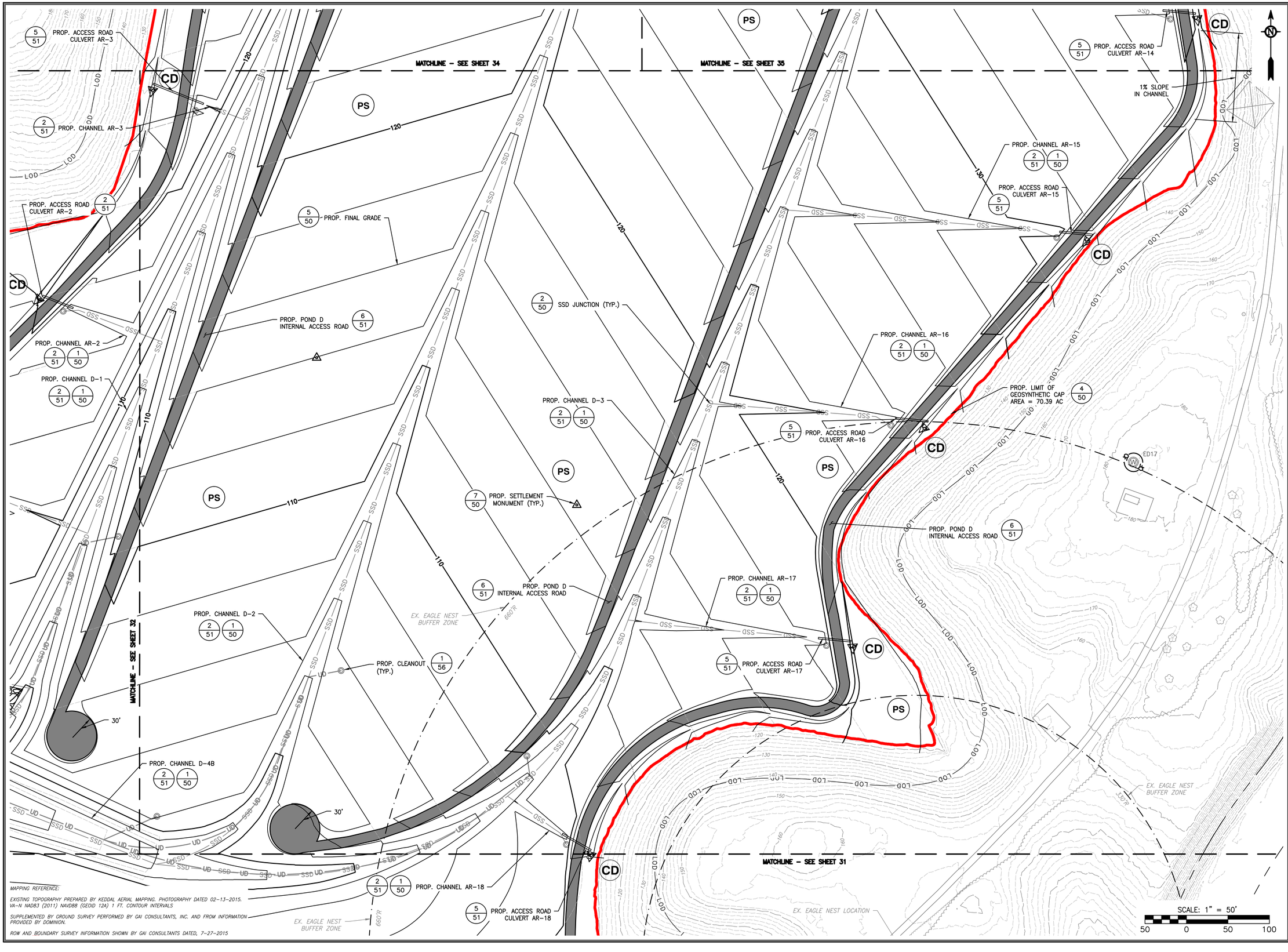

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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ROW AND BOUNDARY SURVEY INFORMATION SHOWN BY GAI CONSULTANTS DATED, 7-27-2015

DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (4 OF 7)

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL
SURFACE IMPOUNDMENT
CLOSURES
DUMFRIES, VA

gai consultants

CLIENT

VIRGINIA ELECTRIC AND
POWER COMPANY
GLEN ALLEN, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS CCB\CAD\Production Drawings\C150132-00-000-C-D1-030.dwg PLOTTED ON: 11/17/2015 4:30:10 PM PLOTTED BY: Michael Doyle PLOT FILE: GAI.stb

REVISION RECORD

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015

SHEET NO.: 33 OF 65

REVISION

GAI FILE NUMBER: C150132-00-000-C-D1-030

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 033

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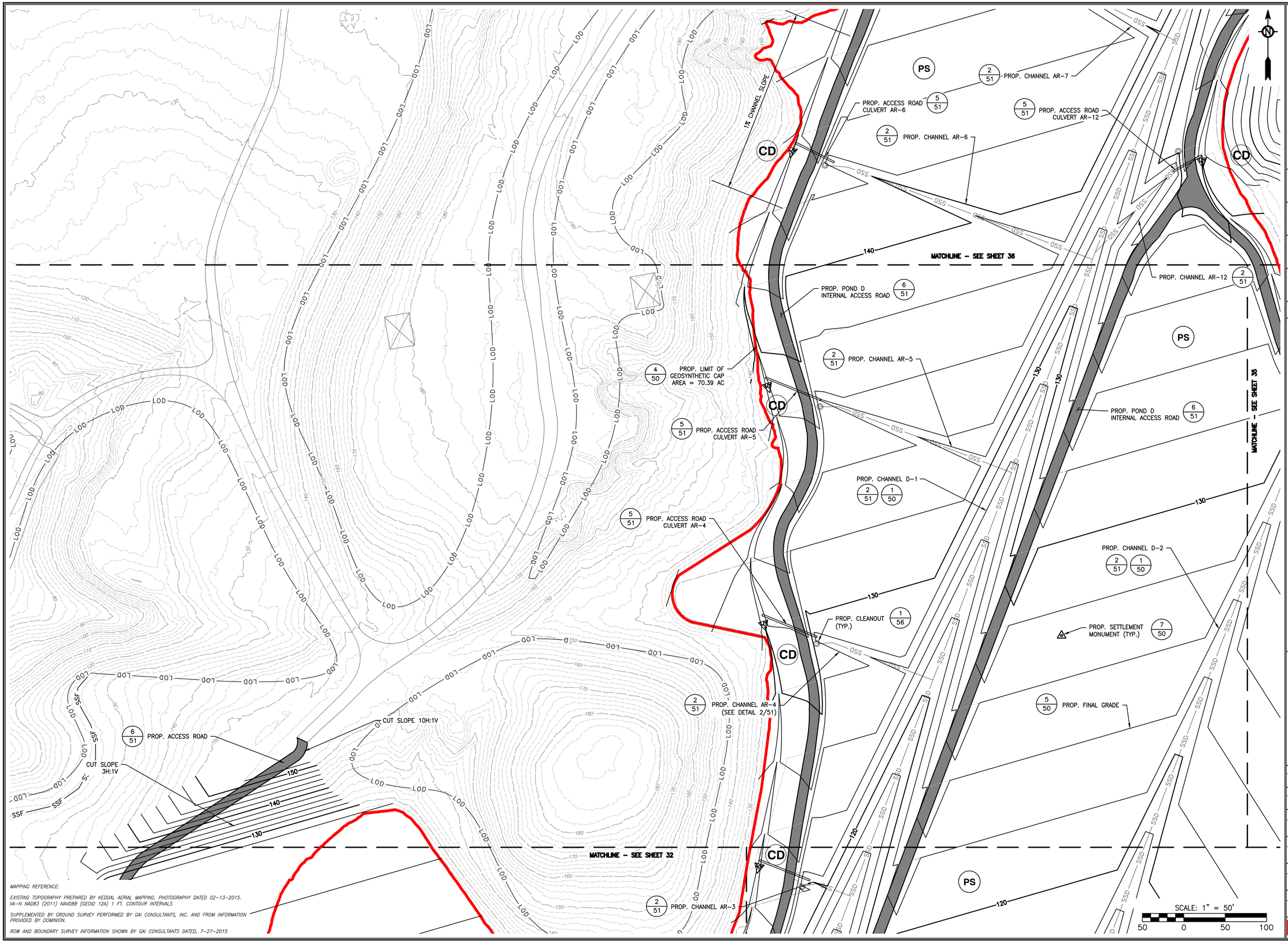

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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DRAWING TITLE
PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (5 OF 7)

CLIENT
VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT
POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS_CCR\CAD\Production Drawings\C150132-00-000-C-01-030.dwg - PLOTTED: ON: 11/17/2015 4:30:37 PM - PLOTTED BY: Michael Davis - PLOT FILE: GAI.stb

JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

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DWG TYPE:	SCALE:	ISSUE DATE:
	AS SHOWN	12/7/2015
SHEET NO.:		REVISION
34 OF 65		

GAI FILE NUMBER:
C150132-00-000-C-D1-030

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER:
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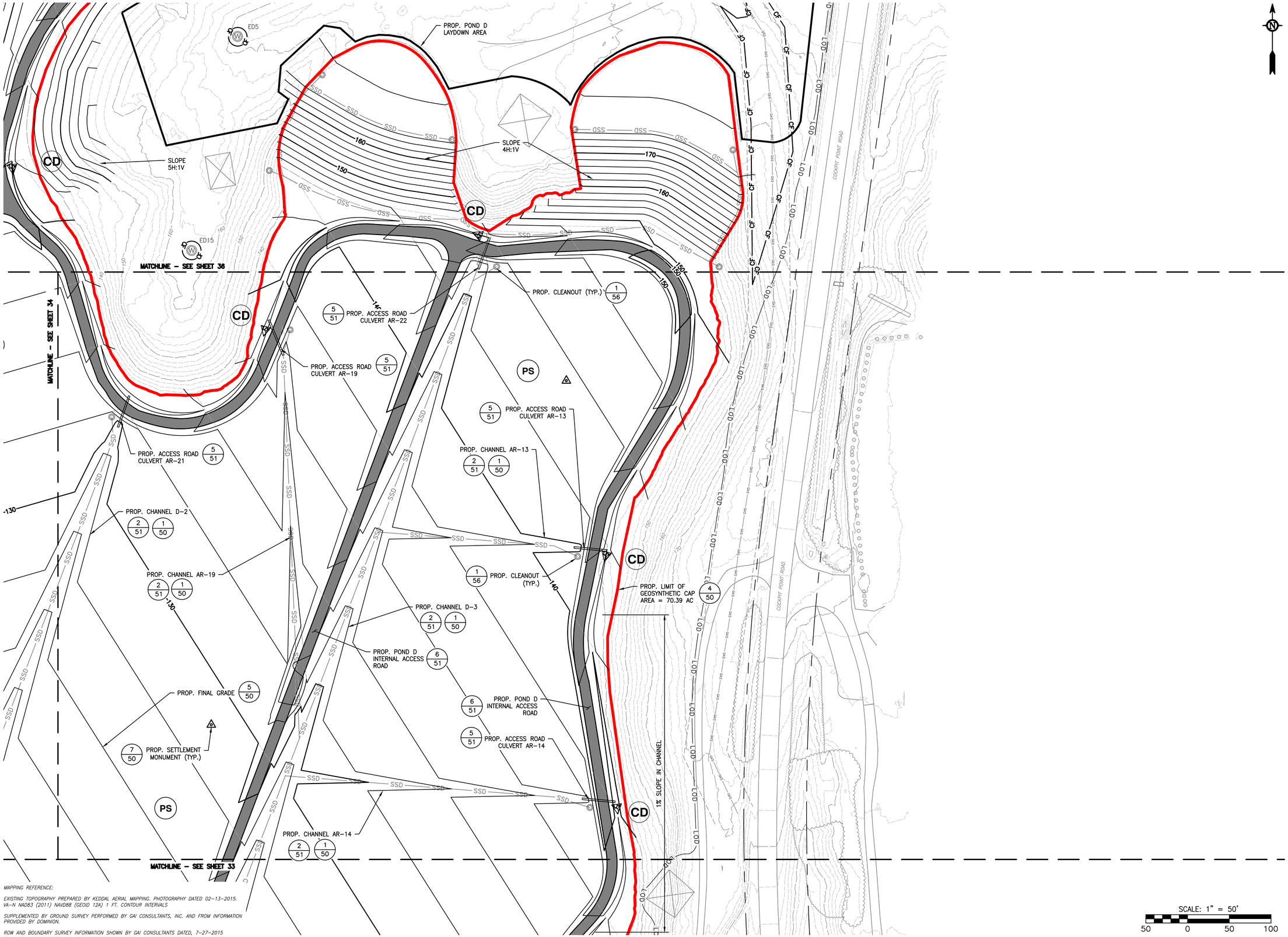

MAPPING REFERENCE:

EXISTING TOPOGRAPHY PREPARED BY KEDDAL AERIAL MAPPING. PHOTOGRAPHY DATED 02-13-2015. VA-N NAD83 (2011) NAVD88 (GEOID 12A) 1 FT. CONTOUR INTERVALS

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DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (6 OF 7)

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

gai consultants

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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COMMONWEALTH OF VIRGINIA
JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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CUMMIRM	KUZMKMW	KLAMUJR
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GAI FILE NUMBER: C150132-00-000-C-D1-030

ALT./CLIENT DRAWING NUMBER:

GAI DRAWING NUMBER: 035

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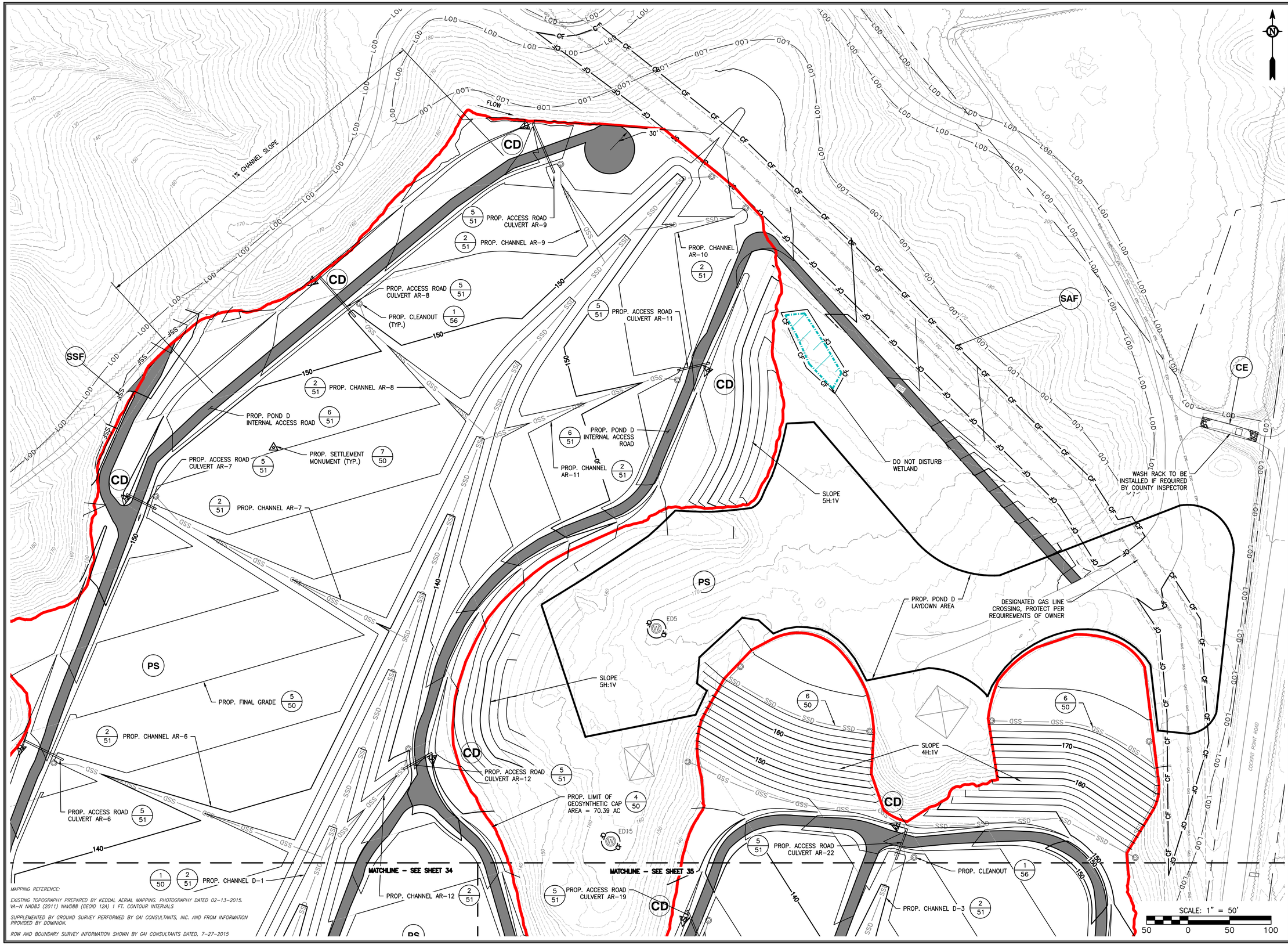

MAPPING REFERENCE:

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DRAWING TITLE

PHASE 3 GRADING PLAN ENLARGEMENT - POND D CLOSURE (7 OF 7)

PROJECT

POSSUM POINT POWER STATION
COAL COMBUSTION RESIDUAL SURFACE IMPOUNDMENT CLOSURES
DUMFRIES, VA

gai consultants

CLIENT

VIRGINIA ELECTRIC AND POWER COMPANY
GLEN ALLEN, VA

ISSUING OFFICE: Richmond | 4198 Cox Road, Suite 114, Glen Allen, VA 23060

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JOHN R. KLAMUT
Lic. No. 048859
12/7/2015
PROFESSIONAL ENGINEER

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