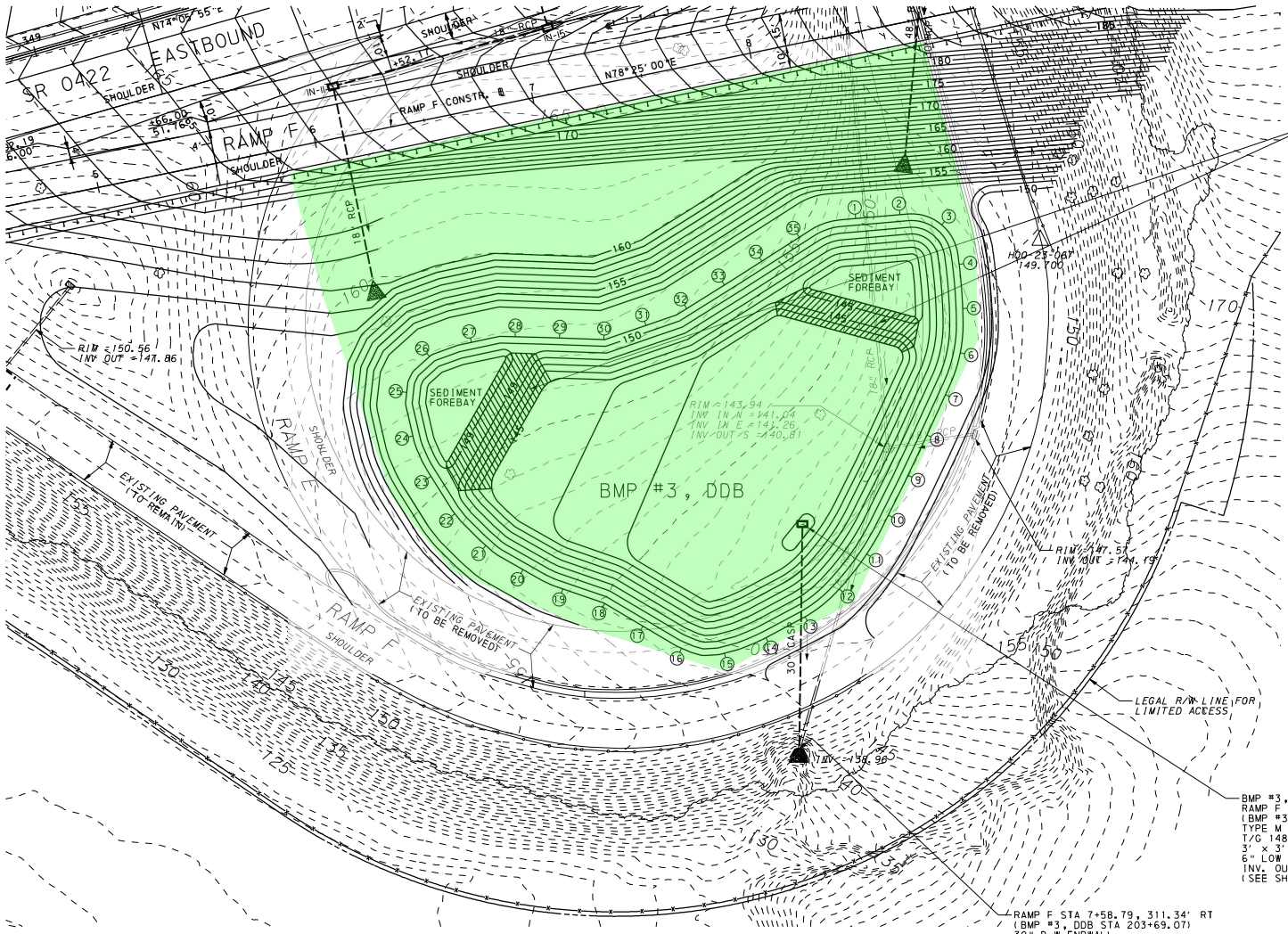
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSMP)

0640 BDD 016



BMP #3, DDB COORDINATES (RAMP F BASELINE)

1. STA 8+31.63 82.39 RT
2. STA 8+51.49 84.69 RT
3. STA 8+69.01 92.93 RT
4. STA 8+73.16 111.90 RT
5. STA 8+70.73 131.75 RT
6. STA 8+65.65 151.03 RT
7. STA 8+55.33 168.09 RT
8. STA 8+43.50 184.22 RT
9. STA 8+31.53 200.24 RT
10. STA 8+19.24 216.02 RT
11. STA 8+06.21 231.17 RT
12. STA 7+90.97 244.09 RT
13. STA 7+73.31 253.29 RT
14. STA 7+54.13 258.97 RT
15. STA 7+34.42 262.03 RT
16. STA 7+15.92 255.94 RT
17. STA 7+00.93 242.73 RT
18. STA 6+86.11 229.30 RT
19. STA 6+68.93 219.07 RT
20. STA 6+53.08 206.96 RT
21. STA 6+38.86 193.00 RT
22. STA 6+28.08 176.19 RT
23. STA 6+20.89 157.54 RT
24. STA 6+16.54 138.13 RT
25. STA 6+17.76 118.36 RT
26. STA 6+31.09 104.62 RT
27. STA 6+50.83 102.17 RT
28. STA 6+70.65 103.65 RT
29. STA 6+90.12 108.24 RT
30. STA 7+09.56 112.95 RT
31. STA 7+29.39 110.53 RT
32. STA 7+48.93 106.79 RT
33. STA 7+67.67 99.81 RT
34. STA 7+86.37 92.70 RT
35. STA 8+05.04 85.54 RT

BMP #3, DDB GENERAL NOTES

1. STORMWATER MANAGEMENT COMPONENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATION 408/2011 SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. DETAILS OTHER THAN THOSE INDICATED ARE ON THE FOLLOWING STANDARD PENNDOT DRAWINGS:

STANDARD DRAWING	DATE APPROVED
RC-31M	06-01-2010
RC-45M	06-01-2010
RC-46M	06-01-2010

4. PERMANENT SEEDING FOR ALL BASIN AREAS BELOW THE 10-YEAR WSEL (ELEVATION - 144.97) TO CONSIST OF FORMULA D. REMAINDER OF POND TO BE SEEDED WITH PERMANENT SEEDING AS SPECIFIED ON ROADWAY CONSTRUCTION PLANS.

BMP #3, DDB BASIN OUTLET STRUCTURE
RAMP F STA 7+80.81, 212.19' RT
(BMP #3, DDB STA 202+67.58)
TYPE M INLET
T/G 148.00'
3' x 3' SQUARE ORIFICE INV 143.00'
6" LOW FLOW ORIFICE INV. 142.00'
INV. OUT 142.00'
(SEE SHEET 10 OF 10 FOR DETAIL)

LEGEND

- ----150---- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING STORMWATER PIPES
- ——150—— PROPOSED CONTOURS
- PROPOSED PIPES

-Green shaded area is limit of maintenance work area.

-Access VIA roadway shoulder.

0 25 50 FEET
HORIZONTAL

BMP #3, DDB ROCK OUTLET PROTECTION SCHEDULE

STATION	BASELINE	OFFSET	RIP-RAP	LENGTH	WIDTH	DEPTH
6+12.93	RAMP F	68.60' RT	R-4	8.00'	12.50'	1.50'
8.58.65	RAMP F	60.60' RT	R-4	20.00'	29.00'	2.25'
7+58.79	RAMP F	311.34' RT	R-4	16.00'	23.50'	1.50'

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL DILIP K. RADADIA ENGINEER 040711-E

1/4/2012 2:18:10 PM

J:\2001 projects\010015.025\cad\roadway\SMWM\IA\MIA_PCSM_DETAILS_1.dgn

D-9012 CADD (02-90) REVISED (05-97)

PLOTTED: 12/11/2008

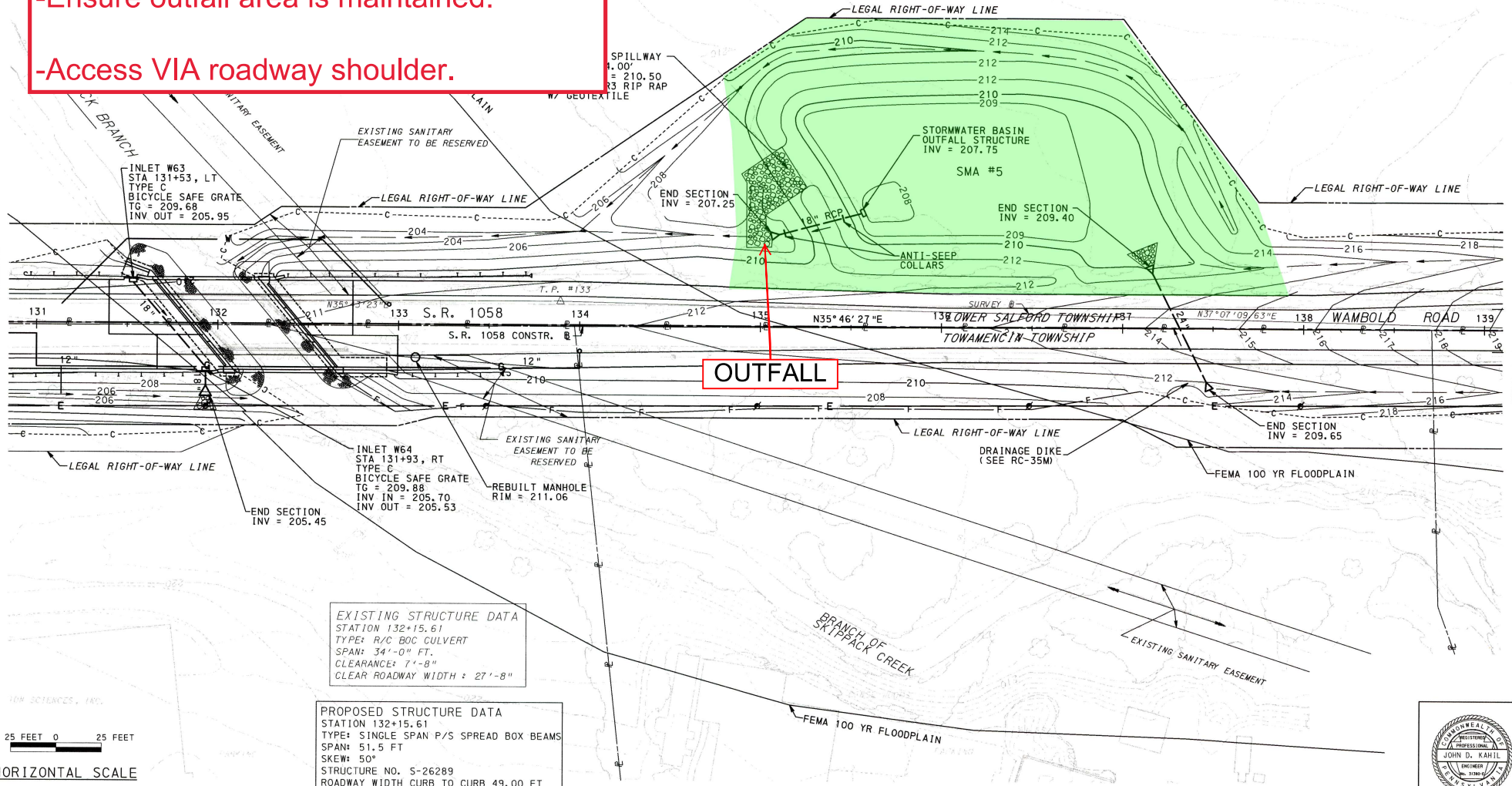
OPERATOR: $$USERNAME$$
FILE NAME: y:\4638 (sr 1058 sec hat)\contour grading plans\section hat\drainage plan sheets\cgd08.dgn

0640 BDD 018

-Green shaded area is limit of maintenance work area.

-Ensure outfall area is maintained.

-Access VIA roadway shoulder.

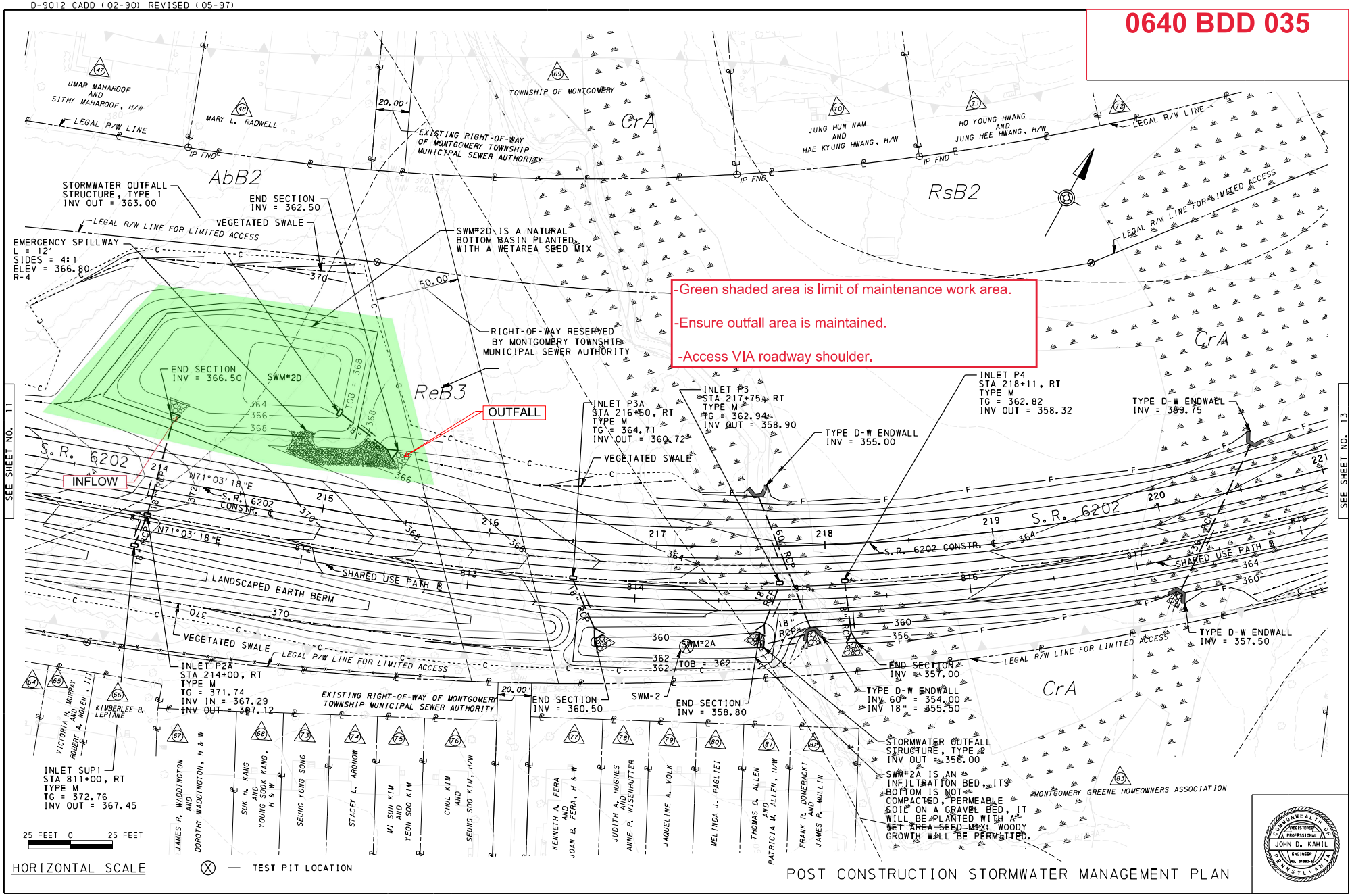


CONTOUR GRADING AND DRAINAGE PLAN

D-9012 CADD (02-90) REVISED (05-97)

PLOTTED: 9/18/2012

0640 BDD 035



-Green shaded area is limit of maintenance work area.

-Ensure outfall area is maintained.

-Access VIA roadway shoulder.

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

OPERATOR: hwy.mcd
FILE NAME: YI-4545-04 (202 Parkway) \PCSWM\12 PCSM.dgn

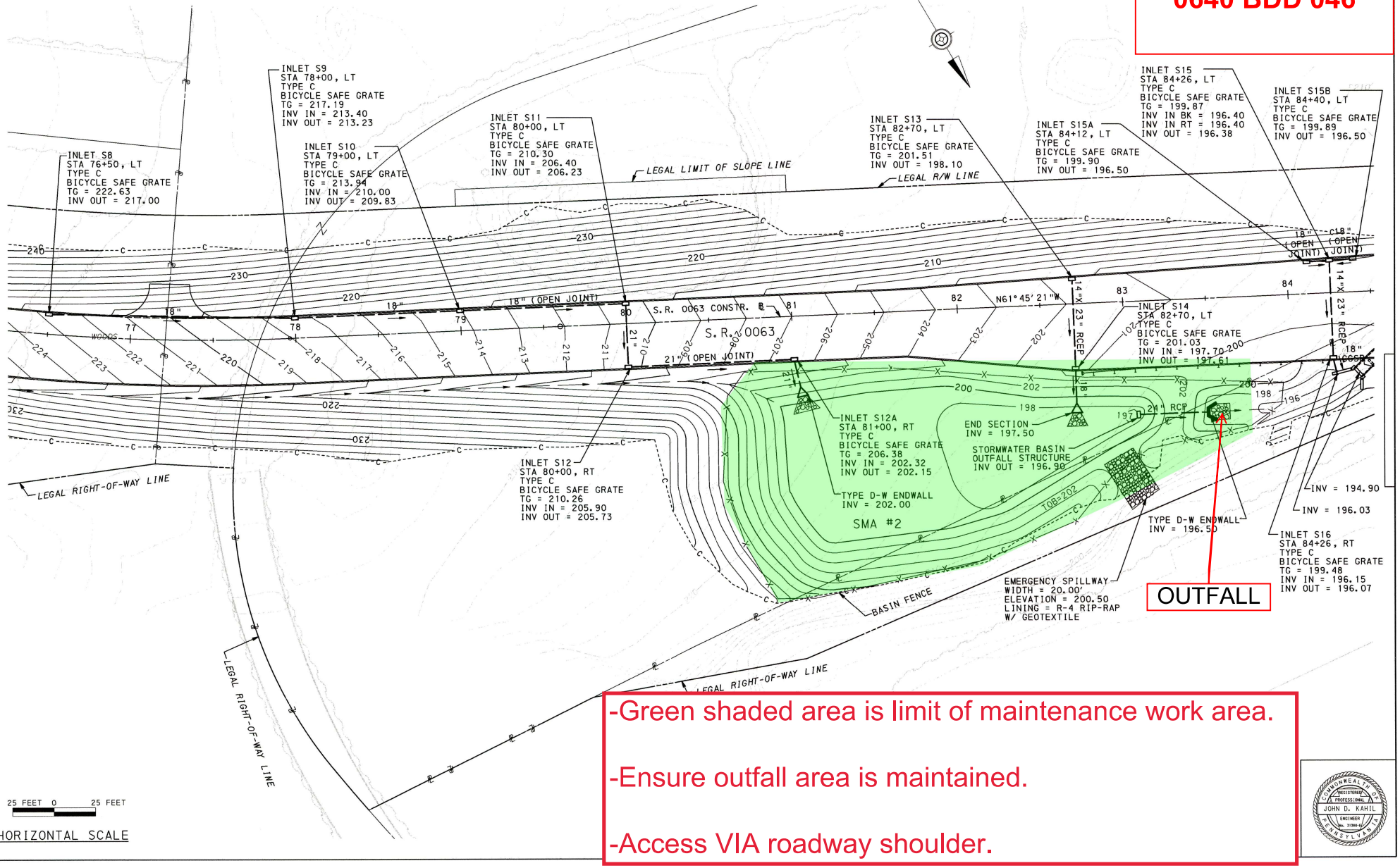
2 PCSM.dgn Default 9/18/2012 1:43:51 PM

D-9012 CADD (02-90) REVISED (05-97)

PLOTTED: 12/11/2008

OPERATOR: $$USERNAME$$
FILE NAME: yx\4658 (sr 1058 sec hat)\contour grading plans\section hat\drainage plan sheets\cg022.dgn

0640 BDD 046



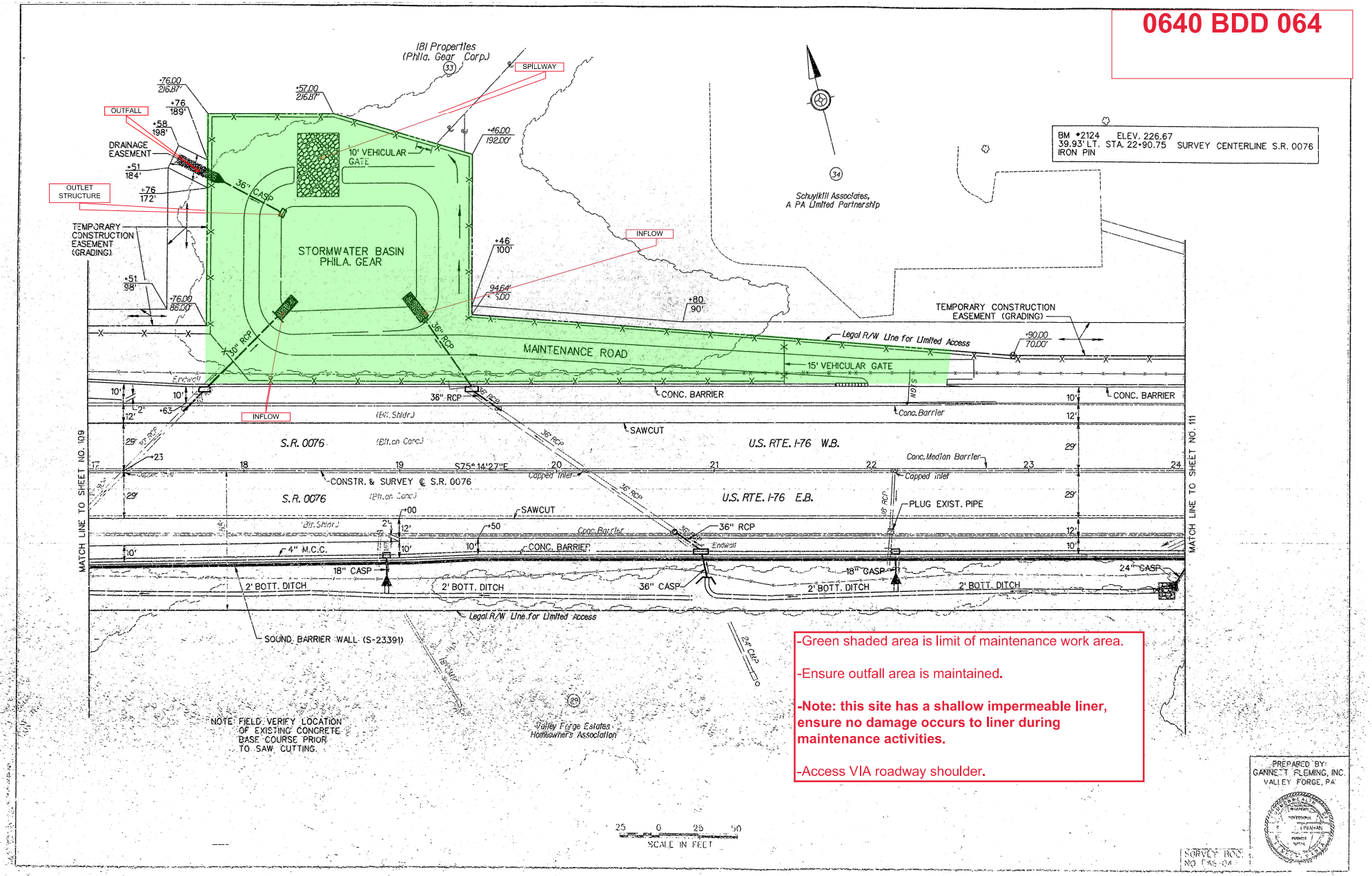
-Green shaded area is limit of maintenance work area.

-Ensure outfall area is maintained.

-Access VIA roadway shoulder.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JOHN D. KAHIL
ENGINEER
No. 039465

0640 BDD 064



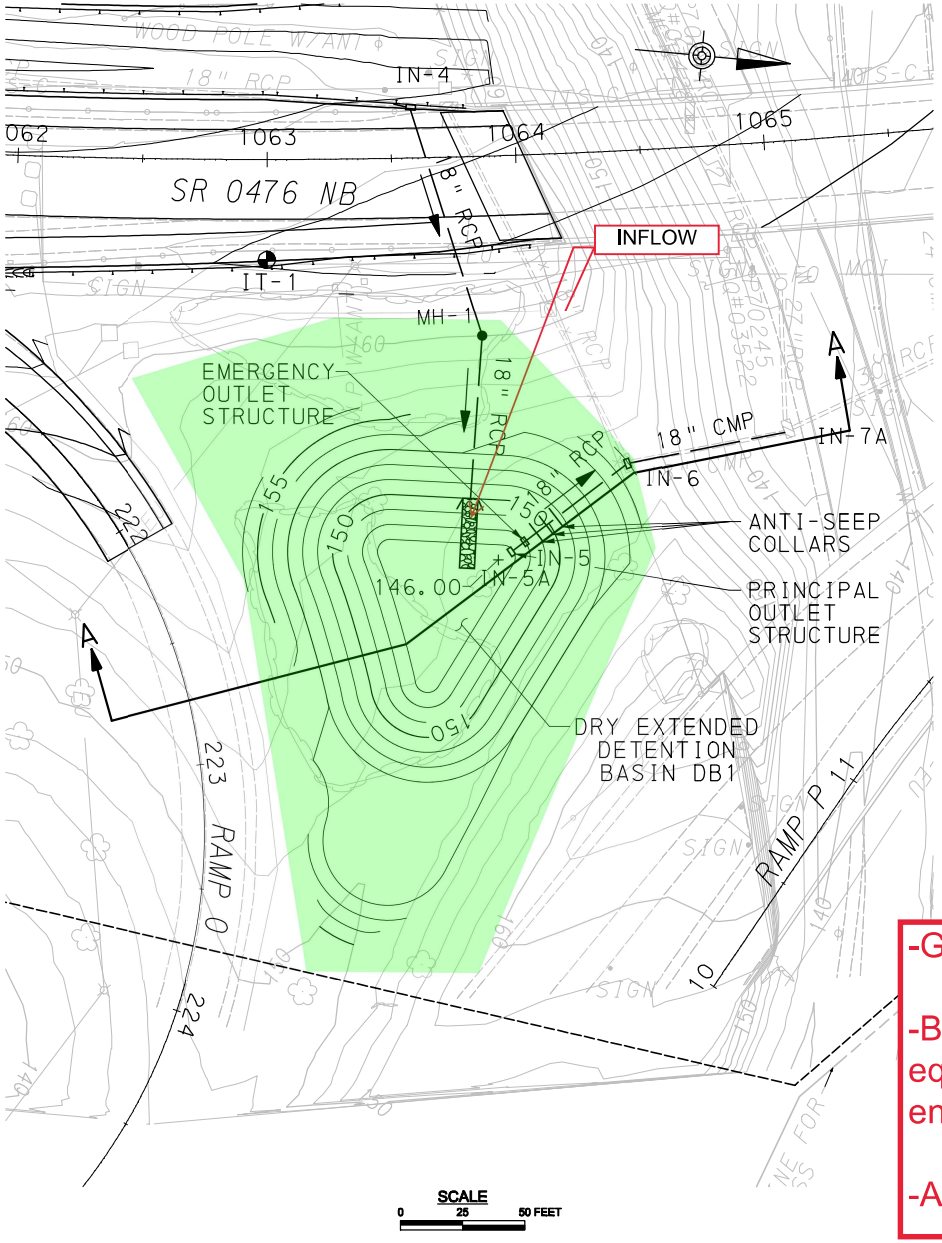
-Green shaded area is limit of maintenance work area.

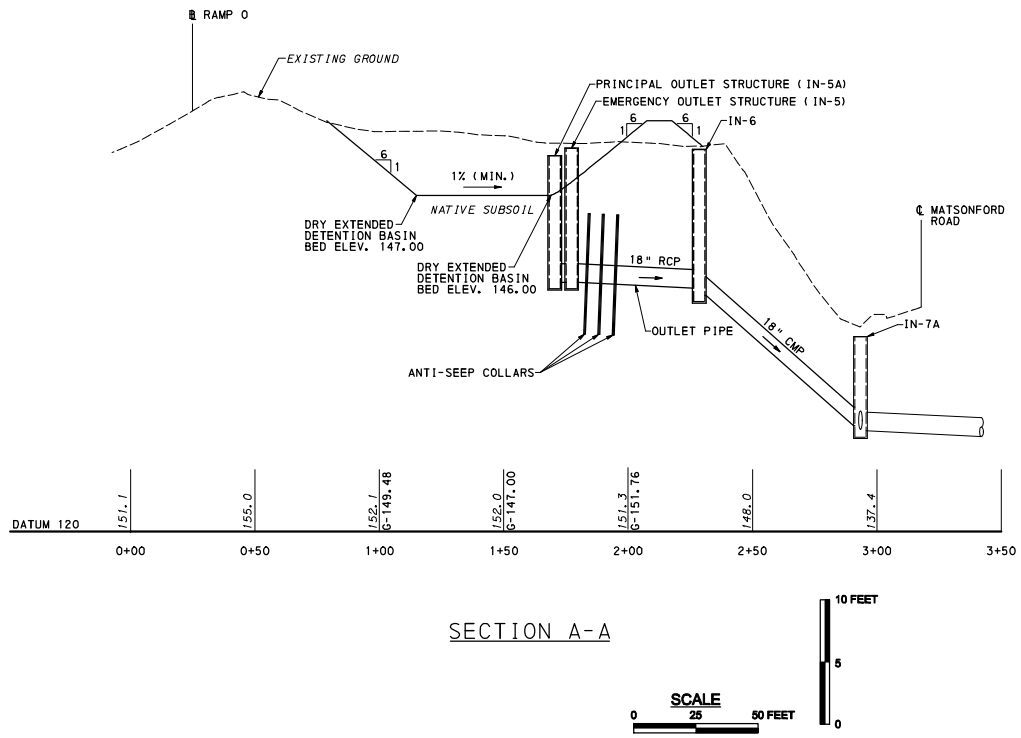
-Ensure outfall area is maintained.

-Note: this site has a shallow impermeable liner, ensure no damage occurs to liner during maintenance activities.

-Access VIA roadway shoulder.

0640 BED 001





-Green shaded area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Access VIA roadway shoulder/infield area.

6/16/2009 6:49:53 AM:\6169\rdo\PCSM plans\conserv dist submission\PCSM DB1 DETAIL.dgn

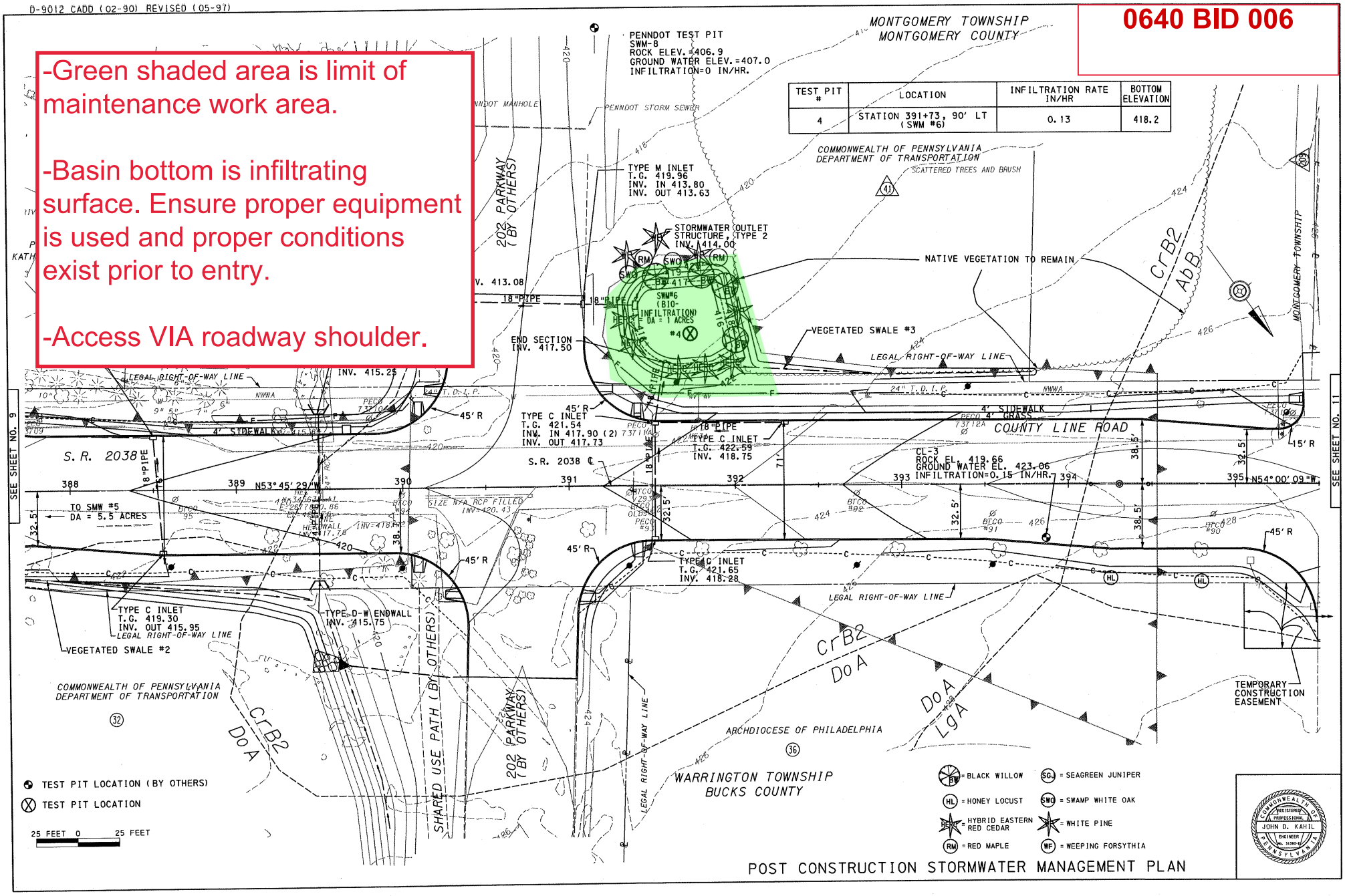
D-9012 CADD (02-90) REVISED (05-97)

0640 BID 006

-Green shaded area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Access VIA roadway shoulder.



TEST PIT #	LOCATION	INFILTRATION RATE IN/HR	BOTTOM ELEVATION
4	STATION 391+73, 90' LT (SWM #6)	0.13	418.2

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

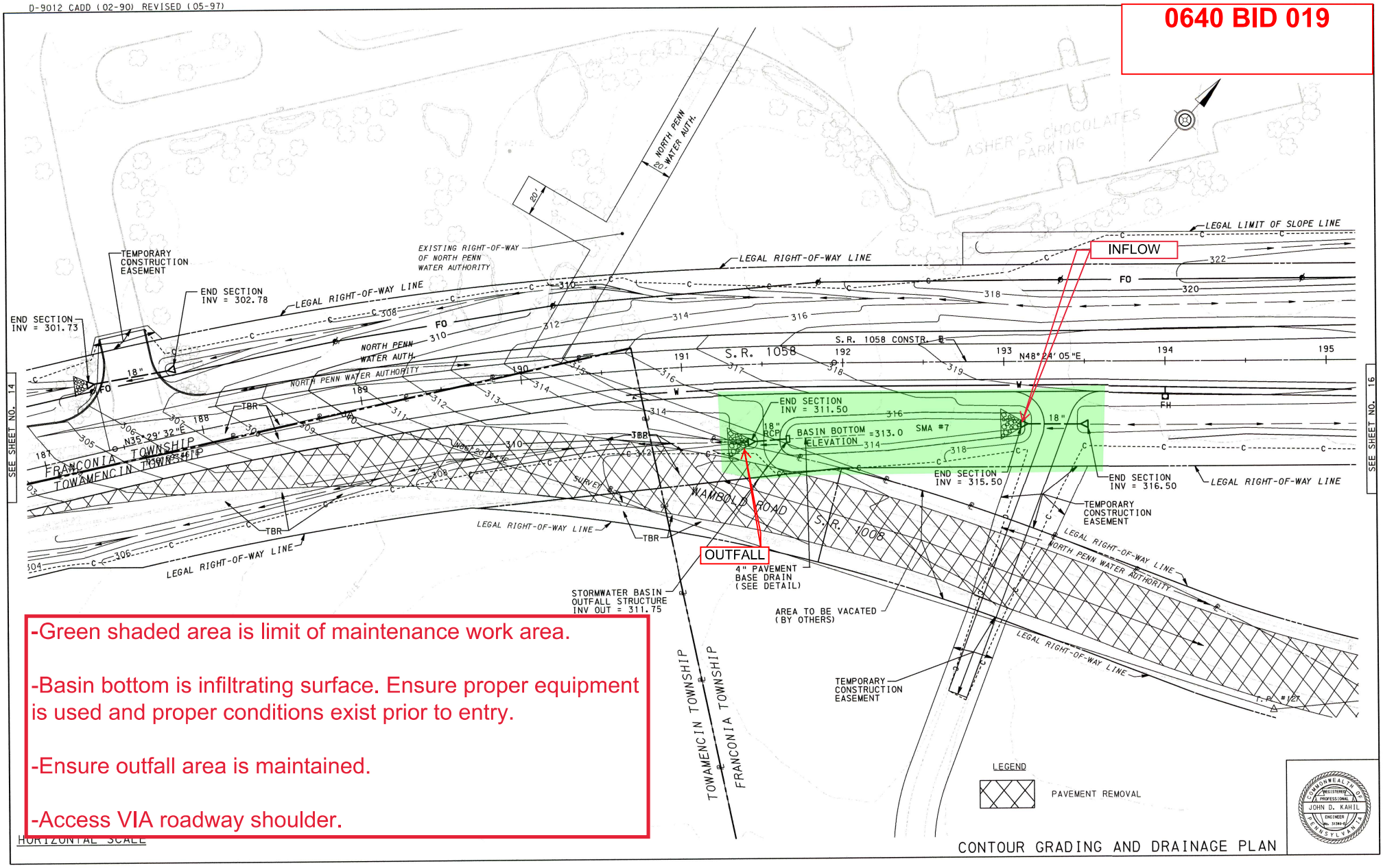
PLOTTED: 4/27/2010

OPERATOR:
FILE NAME: Y:\4876\County Line Road\WG-1 Part 02-FINAL DESIGN\Erosion Control\PCSM PLANS\010-2038 PLAN SHT.dgn

D-9012 CADD (02-90) REVISED (05-97)

PLOTTED: 12/11/2008

0640 BID 019



-Green shaded area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Ensure outfall area is maintained.

-Access VIA roadway shoulder.

HORIZONTAL SCALE

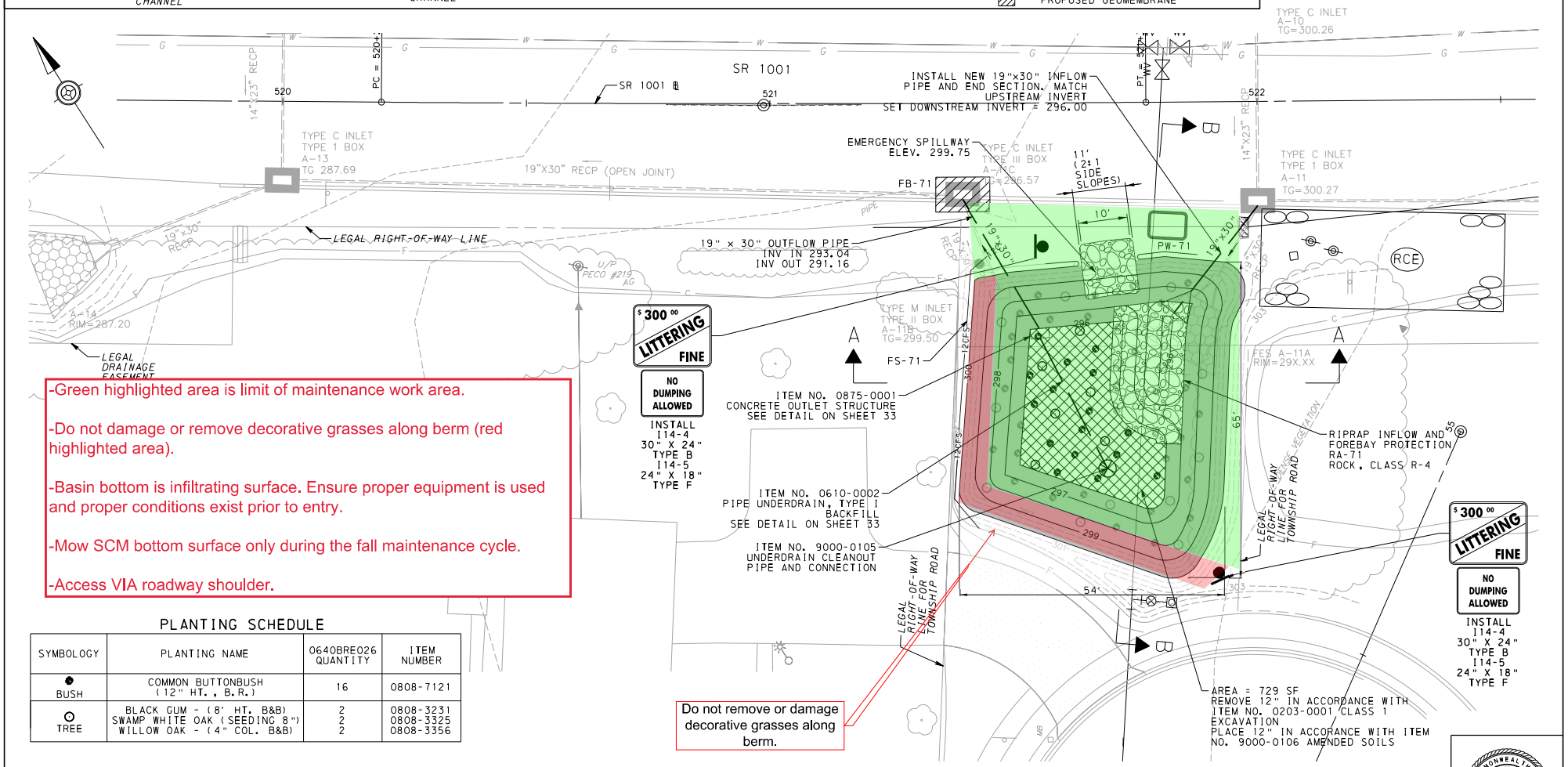
CONTOUR GRADING AND DRAINAGE PLAN

OPERATOR: $$USERNAME$$
FILE NAME: y:\4658 (sr 1058 sec hon\contour grading plans\section hon\drainage plan sheets\cgd15.dgn

0640 BRE 026

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING MANHOLE
- PROPOSED MANHOLE
- RIP-RAP ROCK APRON
- EXISTING TRAPEZOIDAL CHANNEL
- COMPOST FILTER SOCK
- INLET FILTER BAG
- PUMPED WATER FILTER BAG
- ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRAPEZOIDAL CHANNEL
- PROPOSED INLET/PIPE
- EXISTING INLET/PIPE
- EXISTING HEADWALL / ENDWALL
- PROPOSED HEADWALL / ENDWALL
- PROPOSED TOPSOIL
- EXISTING CONCRETE END SECTION
- PROPOSED CONCRETE END SECTION
- CUT & FILL
- PROPOSED PIPE CLEANOUT
- PROPOSED AMENDED SOIL
- PROPOSED GEOMEMBRANE



-Green highlighted area is limit of maintenance work area.

-Do not damage or remove decorative grasses along berm (red highlighted area).

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Mow SCM bottom surface only during the fall maintenance cycle.

-Access VIA roadway shoulder.

PLANTING SCHEDULE

SYMBOLOGY	PLANTING NAME	0640BRE026 QUANTITY	ITEM NUMBER
BUSH	COMMON BUTTONBUSH (12" HT., B.R.)	16	0808-7121
TREE	BLACK GUM - (8' HT. B&B)	2	0808-3231
	SWAMP WHITE OAK (SEEDING 8")	2	0808-3325
	WILLOW OAK - (4" COL. B&B)	2	0808-3356

0 10 20 FEET

HORIZONTAL SCALE

NOTES:
1. 0640BRE026 IS LOCATED IN MONTGOMERY COUNTY
2. PROVIDE SEEDING IN ACCORDANCE WITH ITEM NO. 0804-0006 FORMULA L SEED MIX AND STABILIZE WITH ITEM NO. 0806-0140 PERMANENT ROLLED EROSION CONTROL PRODUCT, TYPE 5A FOR NEWLY INSTALLED TOPSOIL ALONG SIDE SLOPES

NOTES (CONTINUED):
3. PROVIDE SEEDING IN ACCORDANCE WITH ITEM NO. 0804-0007 FORMULA W SEED MIX AND STABILIZE WITH ITEM NO. 0805-0050 MULCH CONTROL NETTING FOR NEWLY INSTALLED AMENDED SOIL ALONG BASIN BOTTOM

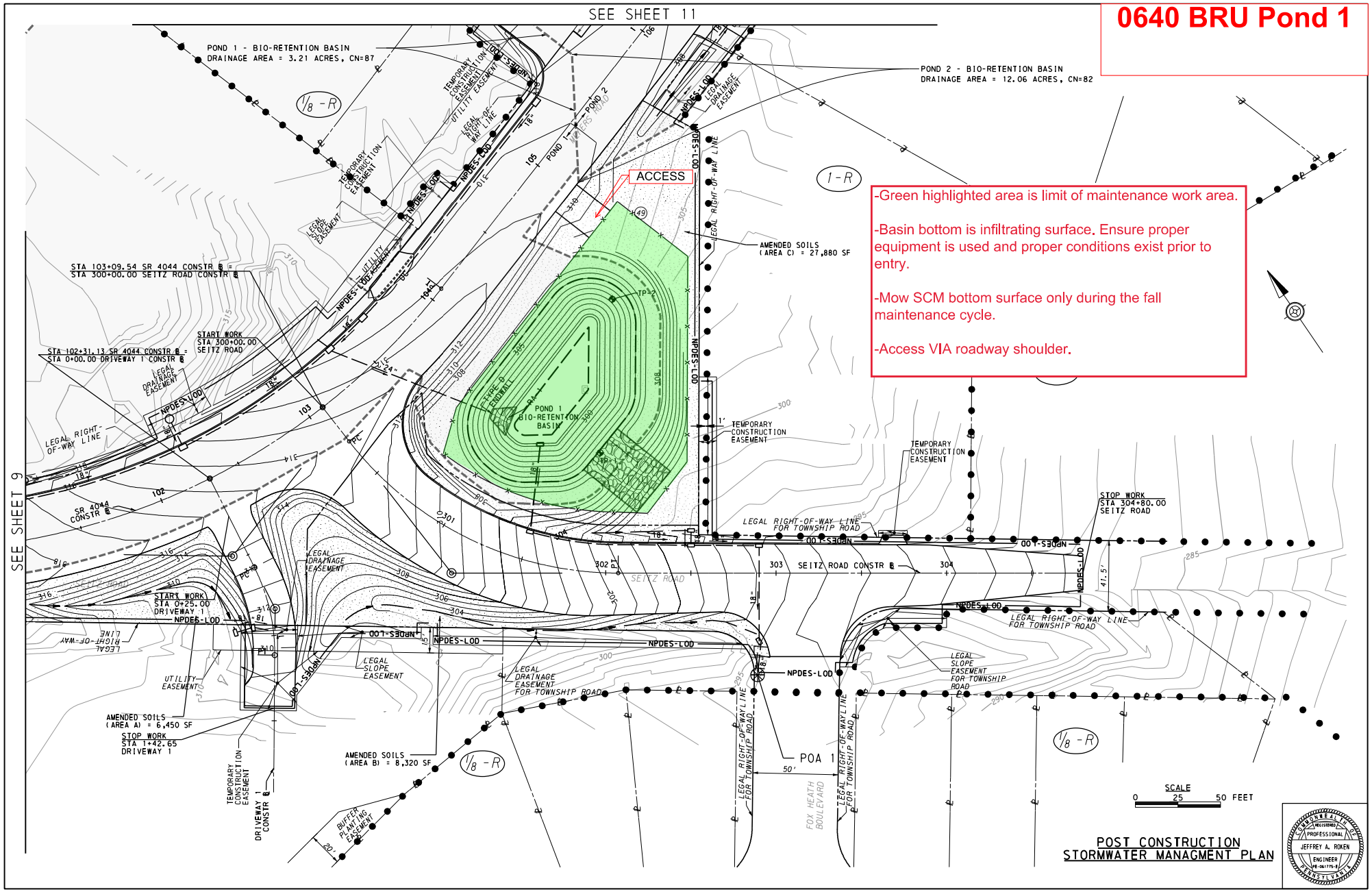
SCM REMEDIATION SITE #8
0640BRE026
PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
KRISTIAN BELLOTTI

McCORMICK TAYLOR

PLOTTED: $$$$DATE$$$

0640 BRU Pond 1



-Green highlighted area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Mow SCM bottom surface only during the fall maintenance cycle.

-Access VIA roadway shoulder.

PLOTTED: 3/22/2016 12:46:27 PM

D-9012 CADD (02-90) (REVISED (10-04)

OPERATOR:
FILE NAME: T:\031908 - SR4044\PCSWM\03-Plans\02-SR4044 PCSM PLAN.dgn

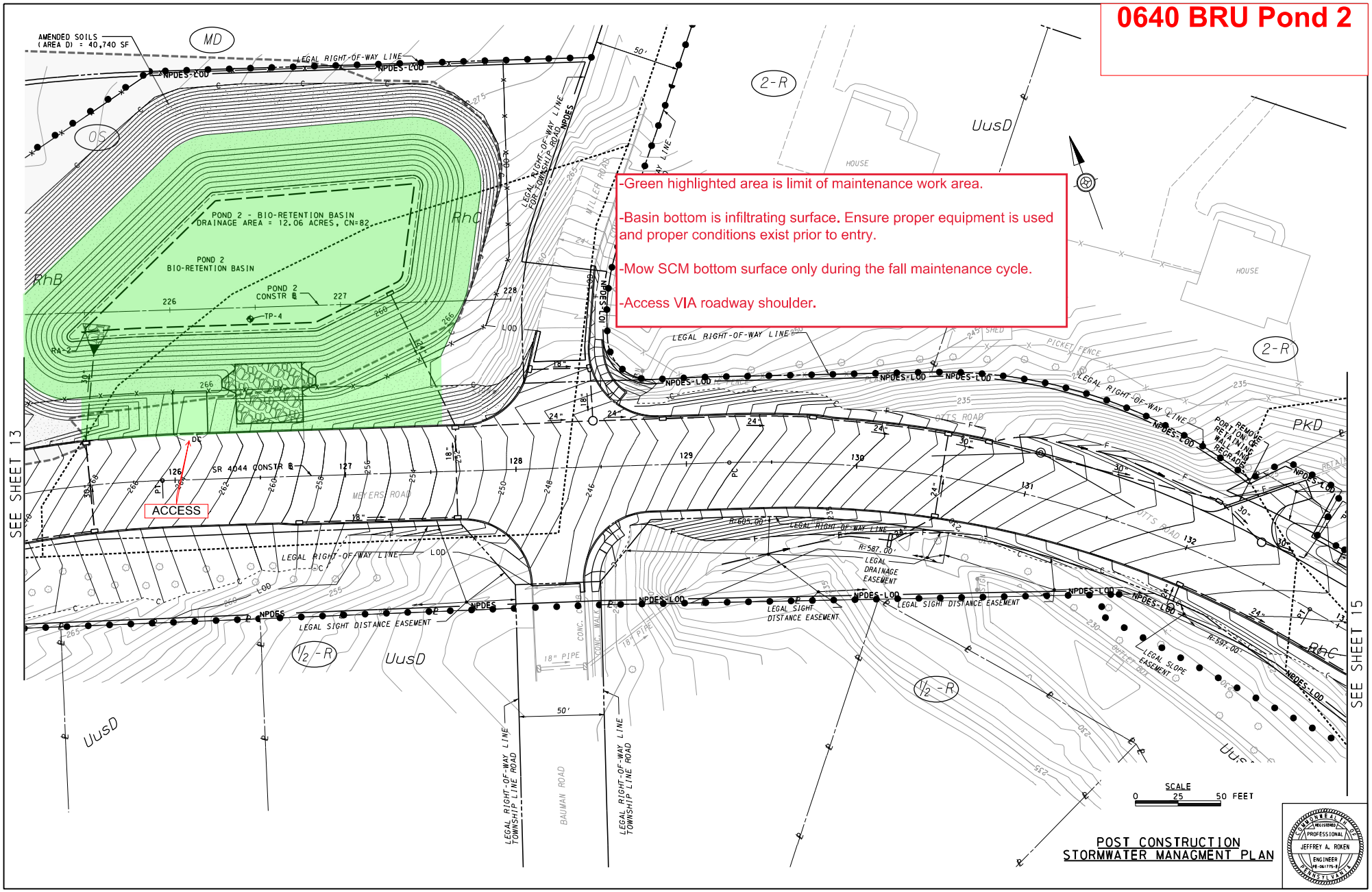
0640 BRU Pond 2

-Green highlighted area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Mow SCM bottom surface only during the fall maintenance cycle.

-Access VIA roadway shoulder.



POST CONSTRUCTION STORMWATER MANAGMENT PLAN

PROFESSIONAL ENGINEER JEFFREY A. ROKEN PENNSYLVANIA

PLOTTED: 3/22/2016 12:46:32 PM

D-9012 CADD (02-90) REVISED (10-04)

OPERATOR:
FILE NAME: T:\031908 - SR4044\PCSMP\03-Plans\06-SR4044 PCSM PLAN.dgn

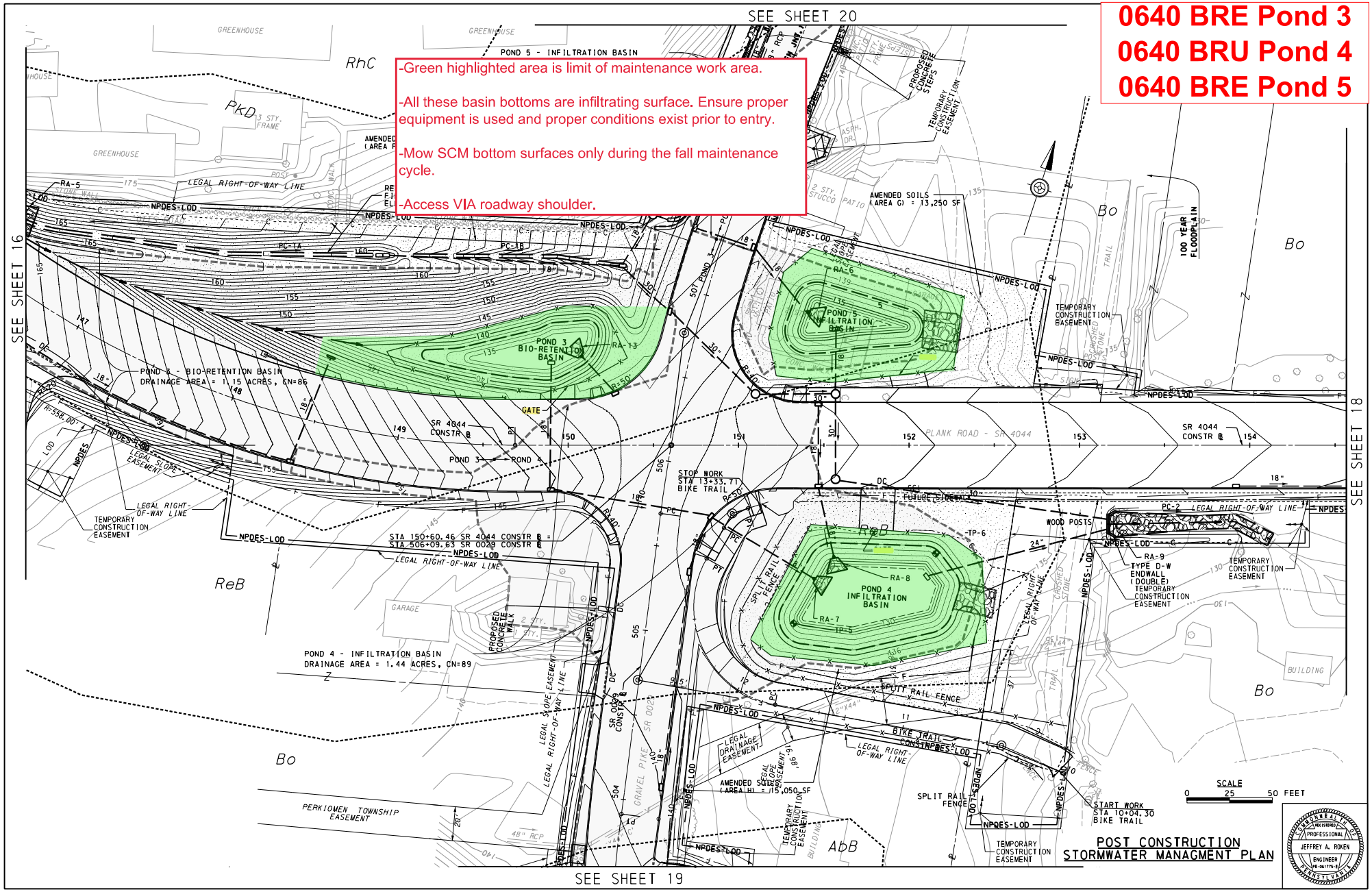
0640 BRE Pond 3
0640 BRU Pond 4
0640 BRE Pond 5

-Green highlighted area is limit of maintenance work area.

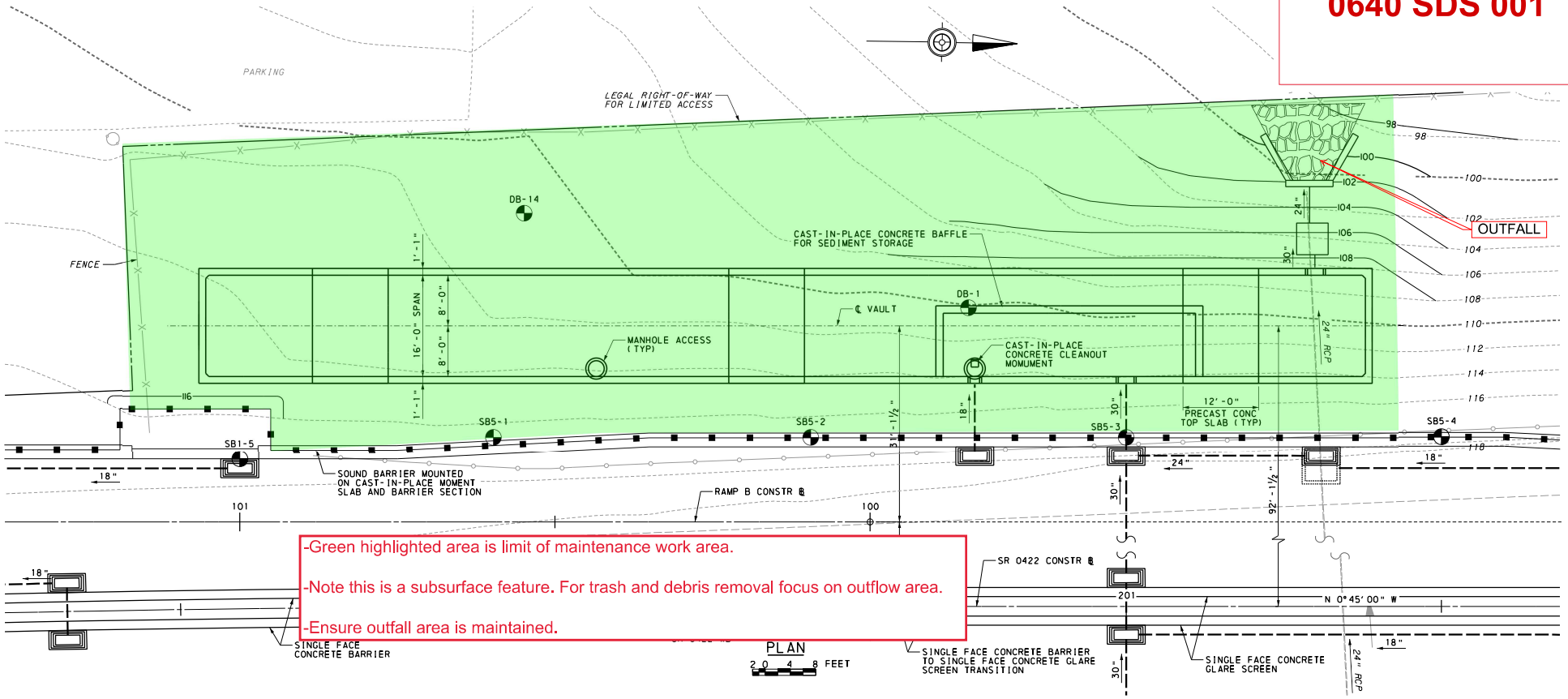
-All these basin bottoms are infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Mow SCM bottom surfaces only during the fall maintenance cycle.

-Access VIA roadway shoulder.



0640 SDS 001



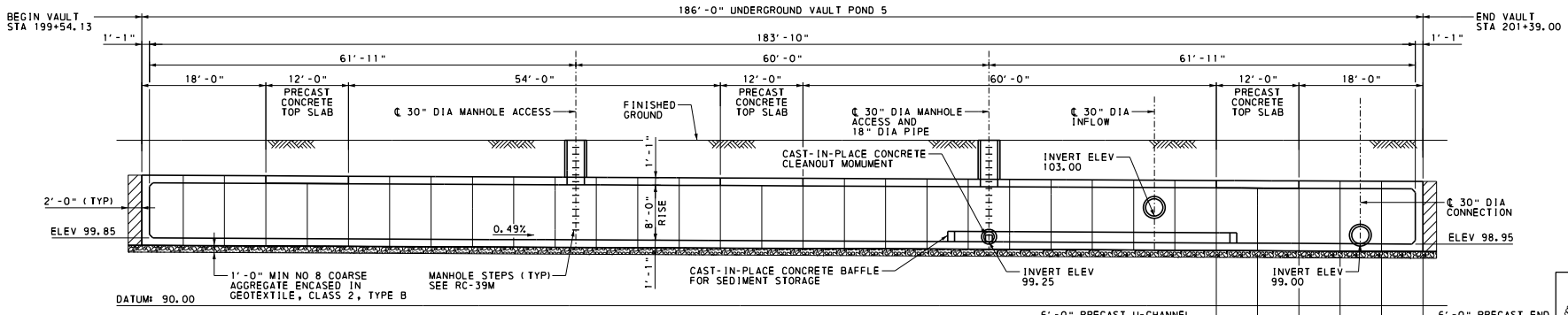
-Green highlighted area is limit of maintenance work area.

-Note this is a subsurface feature. For trash and debris removal focus on outflow area.

-Ensure outfall area is maintained.

PLAN

2 0 4 8 FEET



ELEVATION

2 0 4 8 FEET

LEGEND

SELECTED BORROW EXCAVATION, STRUCTURE BACKFILL ENCASED IN GEOTEXTILE, CLASS 2, TYPE B

DIANE P PURDY
PROFESSIONAL ENGINEER
PENNSYLVANIA

PLOTTED: 9/9/2015 3:57:56 PM
D-9012 CADD (02-90) REVISED (10-04)
OPERATOR:
FILE NAME: T:\702600 US422\PCSMP\02_DETAILS\Vault-13_CPE.dgn