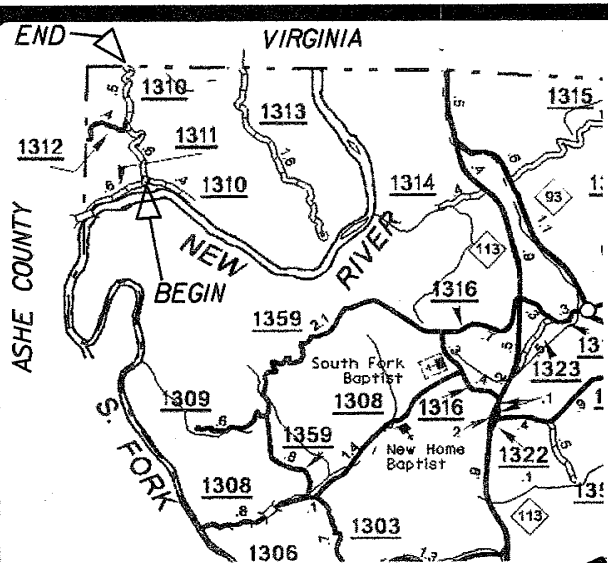
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	11C.003013	1	12

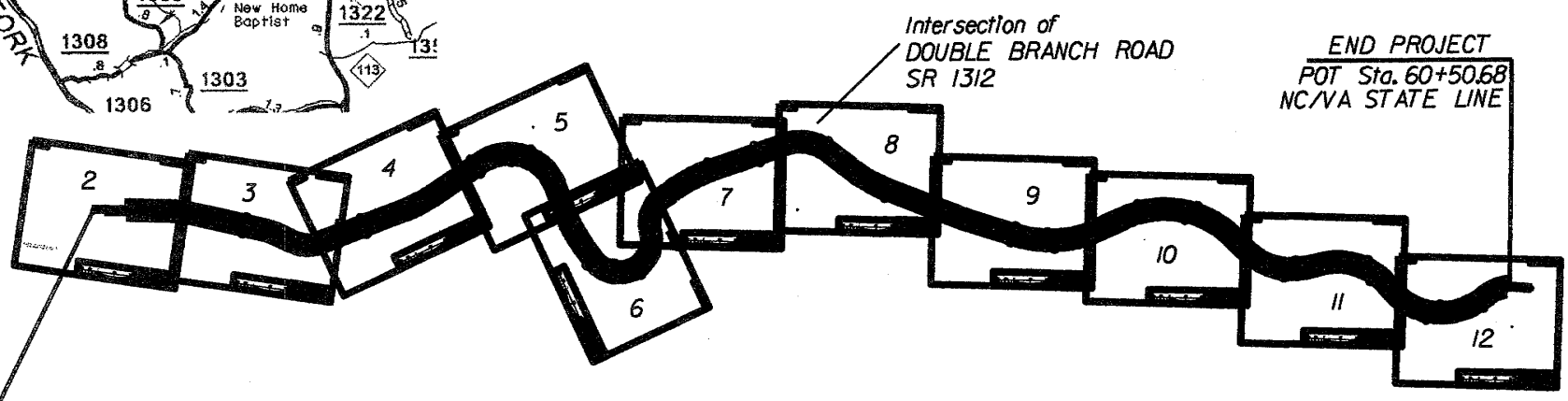
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALLEGHANY COUNTY

LOCATION: SR 1310 DEACON RD. FROM THE INTERSECTION WITH SR 1311 STA. 10+00 TO END OF PROJECT STA. 60+50.68

TYPE OF WORK: GRADE, DRAIN, BASE, PAVE – 0.96 MILES





BEGIN PROJECT
POT Sta. 10+00.00
at PI of LEGRA RD. SR 1310
and DEACON RD. SR 1311

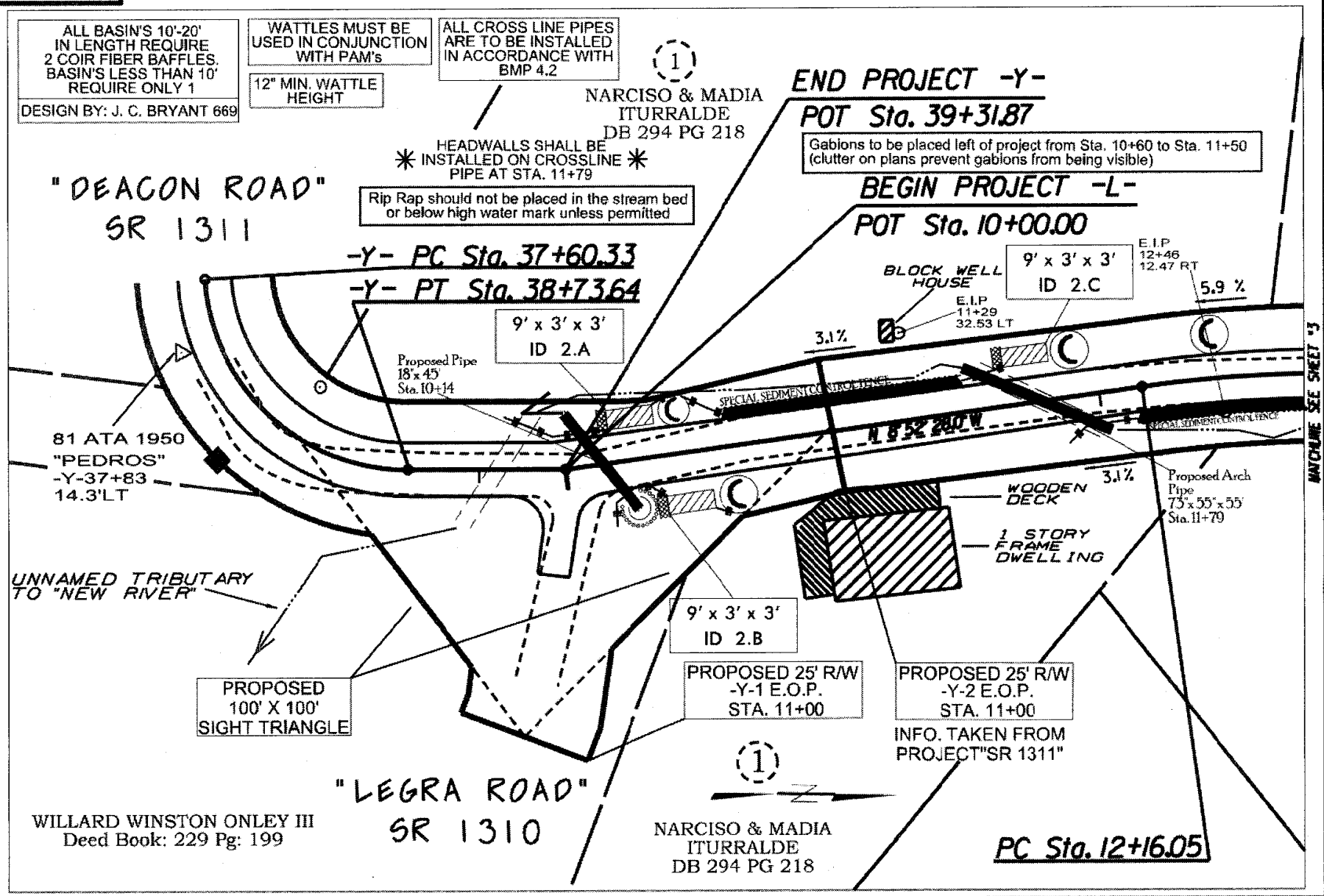
DISCLAIMER

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS. THE PROPERTY SHOWN ON THIS MAP WAS LOCATED FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FOR HIGHWAY DESIGN PURPOSES. SOME ERROR MAY EXIST BETWEEN THE GRAPHICAL AND ACTUAL GROUND LOCATIONS OF PROPERTY LINES. THIS MAP IS TO BE USED AS A GRAPHICAL REPRESENTATION OF THE NCDOT'S INTENT TO ACQUIRE PROPERTY FOR RIGHT OF WAY PURPOSES, AND IN NO WAY REPRESENTS AN ACTUAL BOUNDARY SURVEY OF THIS PROPERTY.

GRAPHIC SCALES	DESIGN DATA	PROJECT LENGTH	Prepared in the Office of: DIVISION OF HIGHWAYS DIVISION 11, DISTRICT 1, ELKIN P.O. BOX 558 ELKIN, NC 28621	DIVISION ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
		0.96 MILES	RIGHT OF WAY DATE: OCTOBER 22, 2009 LETTING DATE:	M.A. PETTYJOHN, P.E. DIVISION ENGINEER B.W. WHITAKER, P.E. DISTRICT ENGINEER	SIGNATURE P.E. DISTRICT ENGINEER SIGNATURE P.E.	STATE DESIGN ENGINEER P.E. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION APPROVED DIVISION ADMINISTRATOR DATE

REVISIONS
2/12/2013

PROJECT REFERENCE NO.	SHEET NO.
HC003013	02



GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: CCA

REVISIONS
2/12/2013

PROJECT REFERENCE NO.	SHEET NO.
BC.003013	03

ALL BASIN'S 10'-20' IN LENGTH REQUIRE 2 COIR FIBER BAFFLES. BASIN'S LESS THAN 10' REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

ALL CROSS LINE PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH BMP 4.2

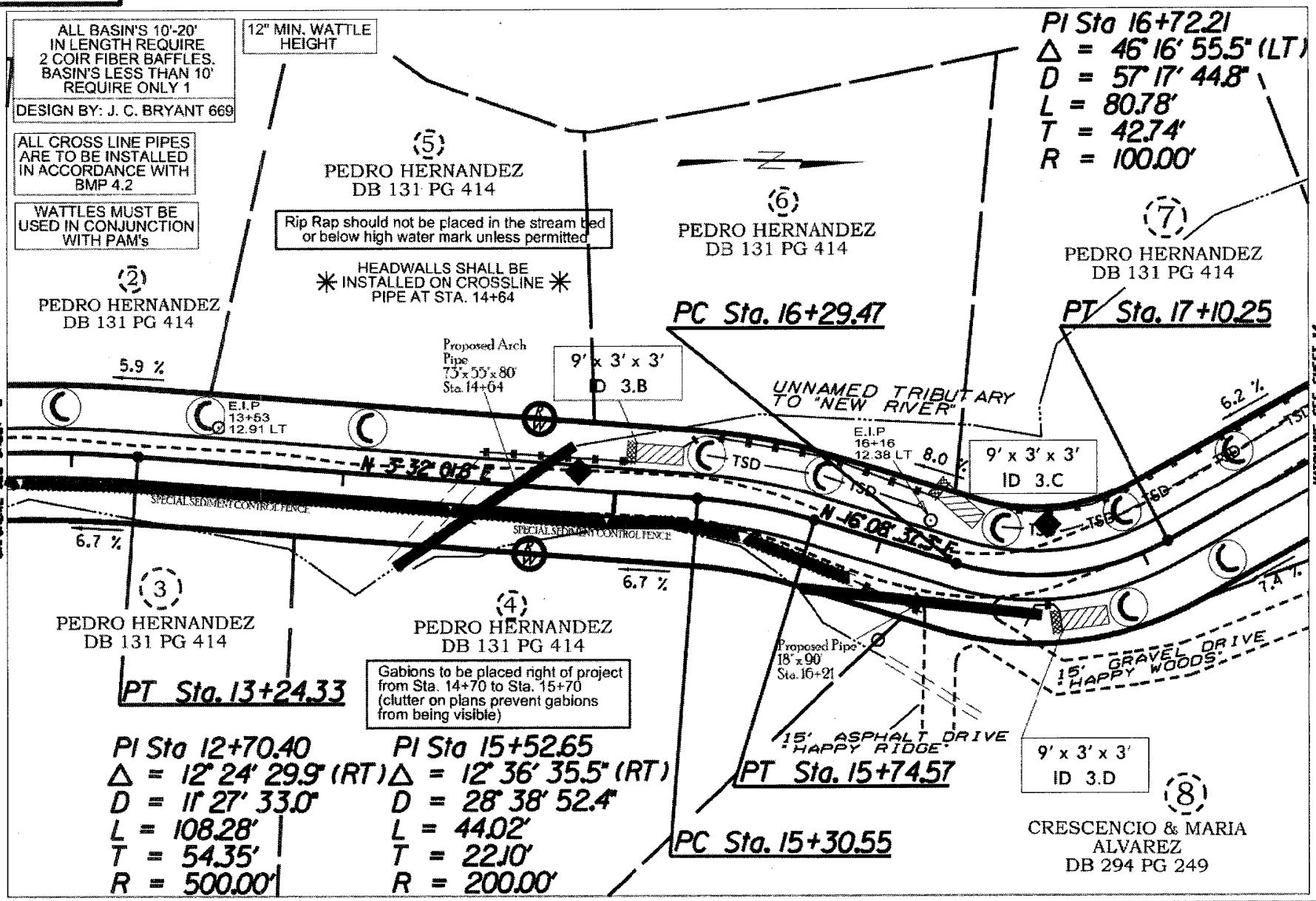
WATTLES MUST BE USED IN CONJUNCTION WITH PAM's

12" MIN. WATTLE HEIGHT

Rip Rap should not be placed in the stream bed or below high water mark unless permitted

HEADWALLS SHALL BE INSTALLED ON CROSSLINE PIPE AT STA. 14+64

Gabions to be placed right of project from Sta. 14+70 to Sta. 15+70 (clutter on plans prevent gabions from being visible)



GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: CCA

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
BC003013	04

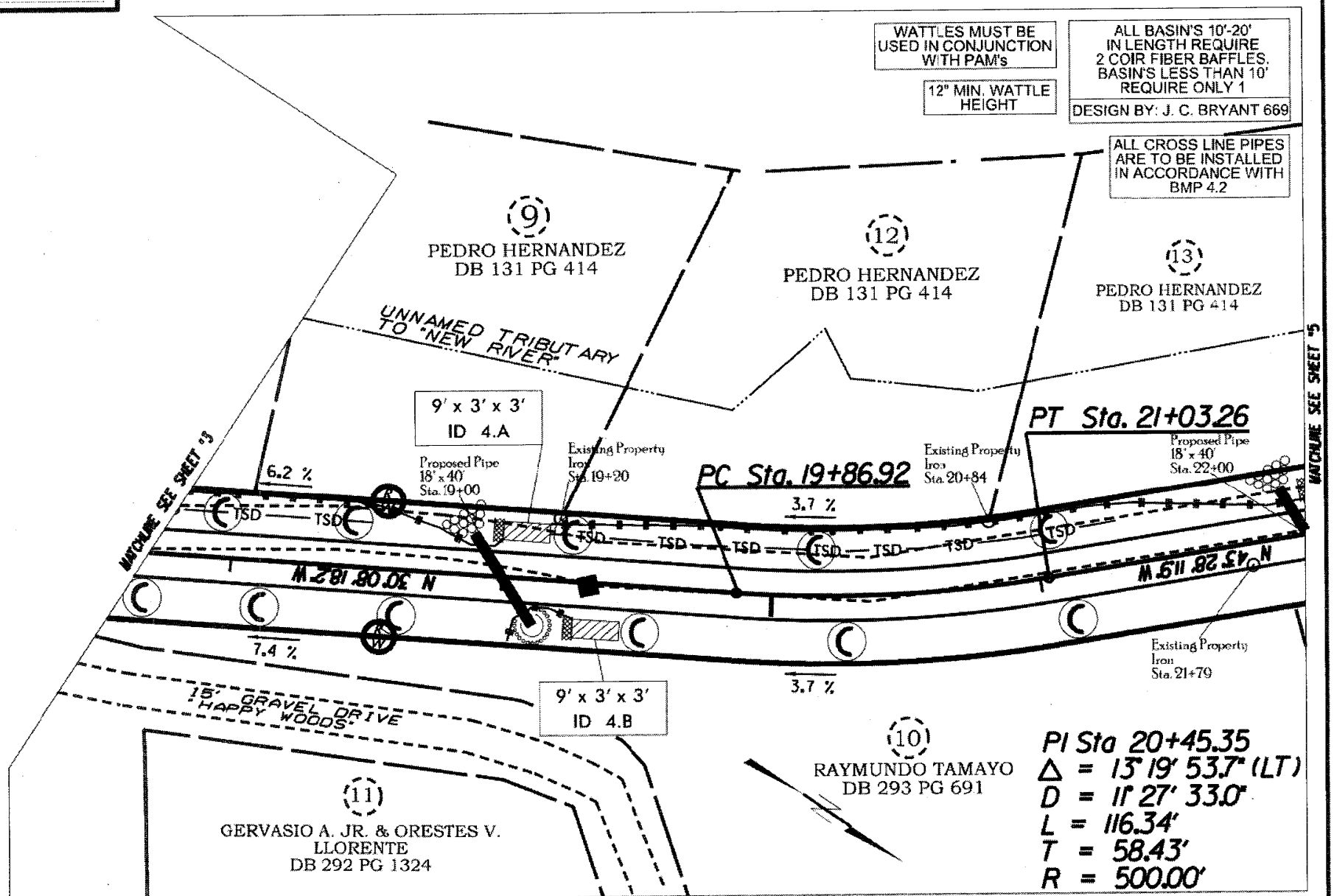
WATTLES MUST BE USED IN CONJUNCTION WITH PAM's

12" MIN. WATTLE HEIGHT

ALL BASIN'S 10'-20' IN LENGTH REQUIRE 2 COIR FIBER BAFFLES. BASIN'S LESS THAN 10' REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

ALL CROSS LINE PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH BMP 4.2



PI Sta 20+45.35
Δ = 13° 19' 53.7" (LT)
D = 11° 27' 33.0"
L = 116.34'
T = 58.43'
R = 500.00'

GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 13 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: CCA

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
BC.00303	05

PI Sta 24+64.07
Δ = 103° 56' 56.2" (RT)
D = 38° 11' 49.9"
L = 272.14'
T = 191.81'
R = 150.00'

(14)
PEDRO HERNANDEZ
DB 131 PG 414

(16)
PEDRO HERNANDEZ
DB 131 PG 414

9' x 3' x 3'
ID 5.A

9' x 3' x 3'
ID 5.B

3.7 %

3.7 %

TSD

SD

3 STRAND BARB WIRE

PC Sta. 22+72.25

MATCHLINE SEE SHEET 4

(15)
LINDA AUSTIN
DB 274 1490

Proposed Pipe
18" x 40'
Sta. 25+00

PT Sta. 25+44.39

UNNAMED TRIBUTARY TO "NEW RIVER"

(18)
RODOLFO & MARIA
DIAZ
DB 172 PG 122

9' x 3' x 3'
ID 5.D

9' x 3' x 3'
ID 5.C

1.6 %

1.6 %

N 60 28 44

WATTLES MUST BE USED IN CONJUNCTION WITH PAM's

ALL BASIN'S 10'-20' IN LENGTH REQUIRE 2 COIR FIBER BAFFLES. BASIN'S LESS THAN 10' REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

12" MIN. WATTLE HEIGHT

ALL CROSS LINE PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH BMP 4.2

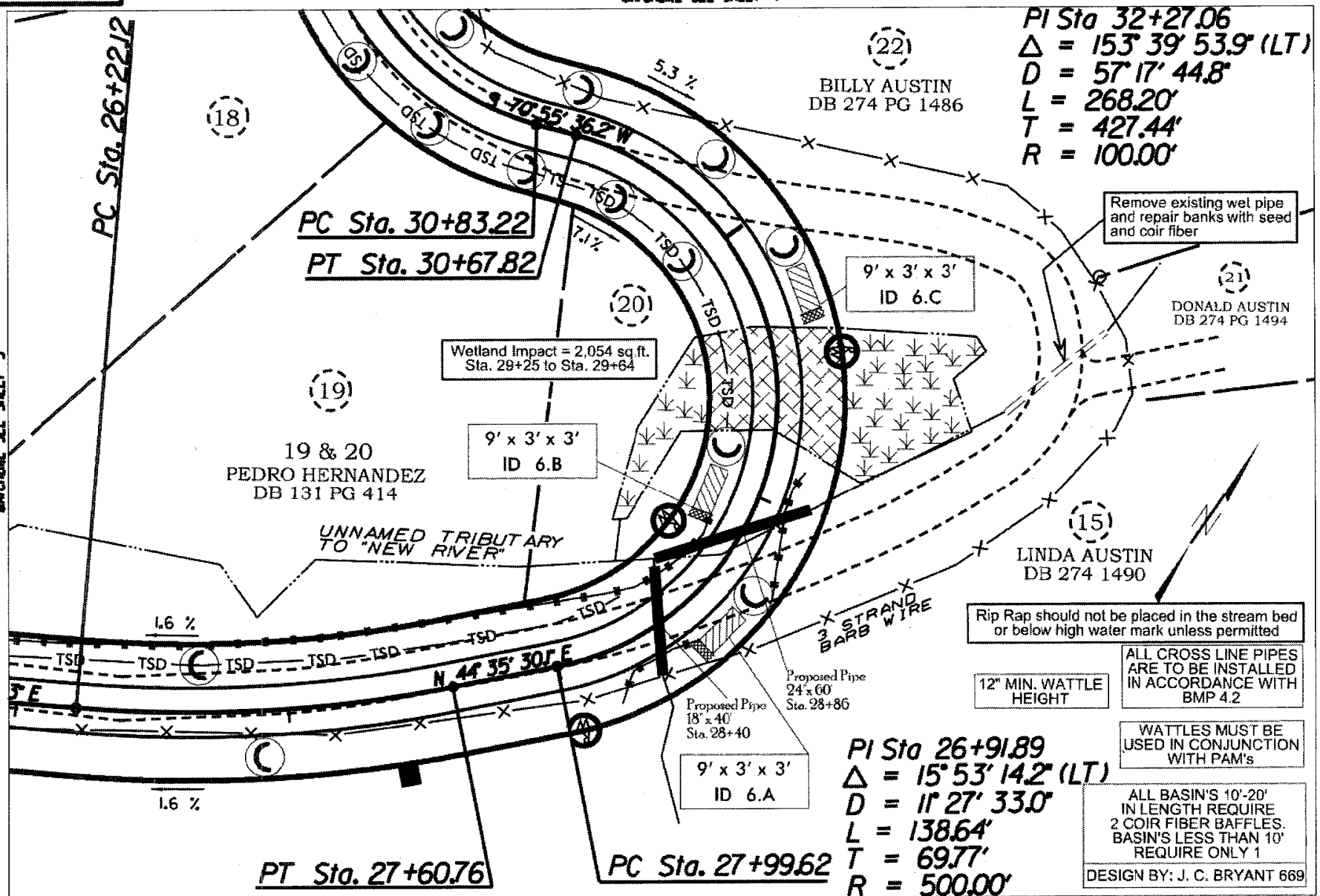
MATCHLINE SEE SHEET 6

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS
2/12/2013

PROJECT REFERENCE NO.	SHEET NO.
HC003013	06



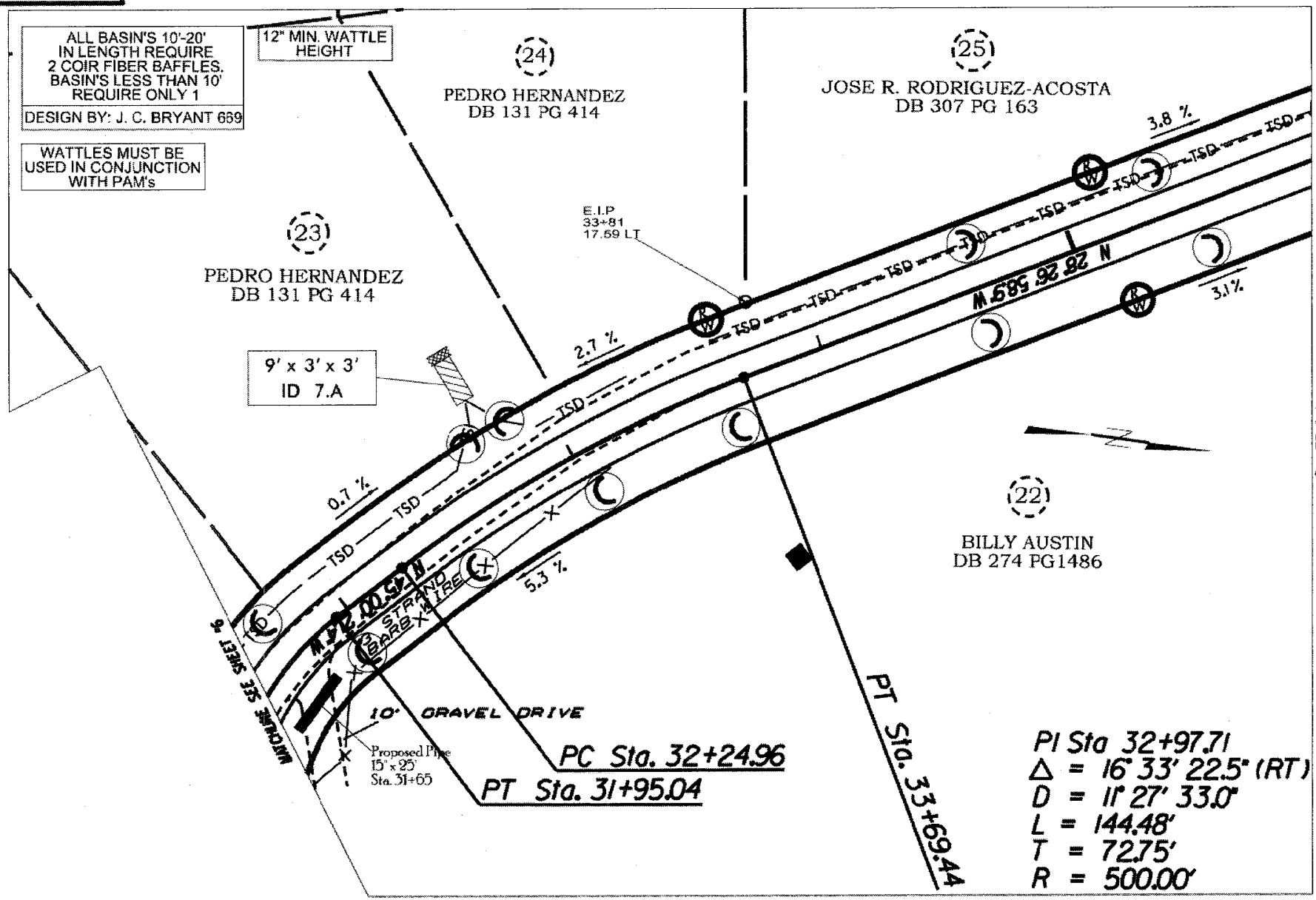
GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS	PROJECT REFERENCE NO.	SHEET NO.
	HC.003013	07



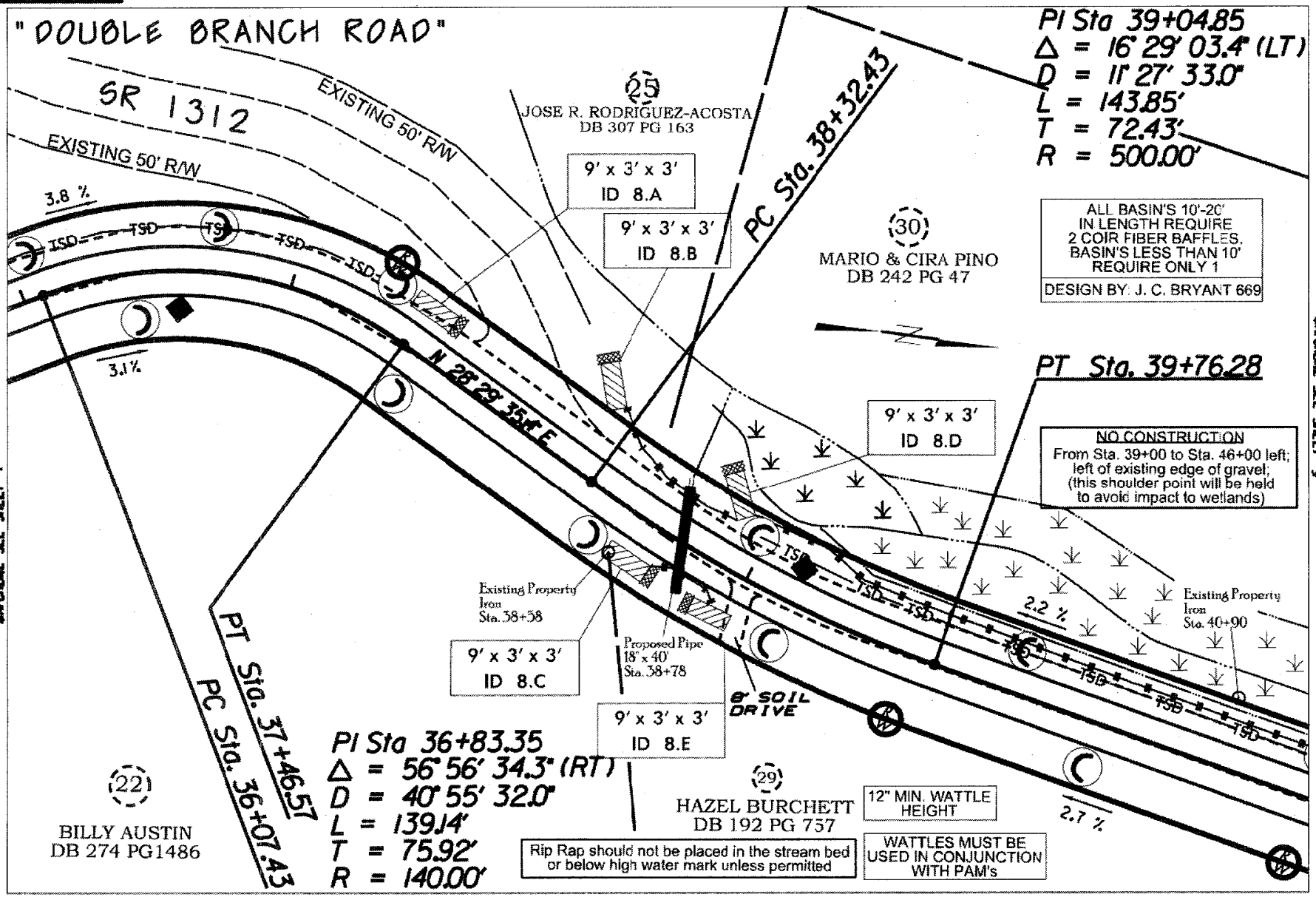
GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS	PROJECT REFERENCE NO.	SHEET NO.
2/12/2013	BC-003013	08



GRAPHIC SCALE

50 25 0 50 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS
2/12/2013

PROJECT REFERENCE NO.	SHEET NO.
BC-00-303	09

(Line Back) Sta. 41+92.93
(Line Ahead) Sta. 41+96.81
End Revision

NO CONSTRUCTION
From Sta. 39+00 to Sta. 46+00 left;
left of existing edge of gravel;
(this shoulder point will be held
to avoid impact to wetlands)

PT Sta. 42+33.51

PC Sta. 43+92.65

(31)
MARIO & CIRA PINO
DB 242 PG 47

(32)
HAZEL BURCHETT
DB 163 PB 100

(7)
PEDRO HERNANDEZ
DB 131 PG 414

NO CONSTRUCTION
From Sta. 39+00 to Sta. 46+00 left;
left of existing edge of gravel;
(this shoulder point will be held
to avoid impact to wetlands)

9' x 3' x 3'
ID 9.A

x 8' SPRING BOX

Power Pole
45+63LT

2.2 %

2.7 %

6.4 %

6.4 %

N 7° 48' 10.5" E

TSD

(29)
HAZEL BURCHETT
DB 192 PG 757

Proposed Pipe
24" x 40'
Sta. 43+87

Wetland Impact = 780 sq.ft.
Sta. 44+25 to Sta. 44+50 (Rt.)

Rip Rap should not be placed in the stream bed
or below high water mark unless permitted

ALL BASIN'S 10'-20'
IN LENGTH REQUIRE
2 COIR FIBER BAFFLES.
BASIN'S LESS THAN 10'
REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

12" MIN. WATTLE
HEIGHT

ALL CROSS LINE PIPES
ARE TO BE INSTALLED
IN ACCORDANCE WITH
BMP 4.2

9' x 3' x 3'
ID 9.B

WATTLES MUST BE
USED IN CONJUNCTION
WITH PAM's

(33)
HAZEL BURCHETT
DB 95 PG 259

PI Sta 42+15.17
Δ = 4° 12' 21.5" (LT)
D = 11° 27' 33.0"
L = 36.70'
T = 18.36'
R = 500.00'

PI Sta 45+24.26
Δ = 41° 12' 49.4" (LT)
D = 16° 22' 12.8"
L = 251.76'
T = 131.60'
R = 350.00'

MATCHLINE SEE SHEET #8

MATCHLINE SEE SHEET #10

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

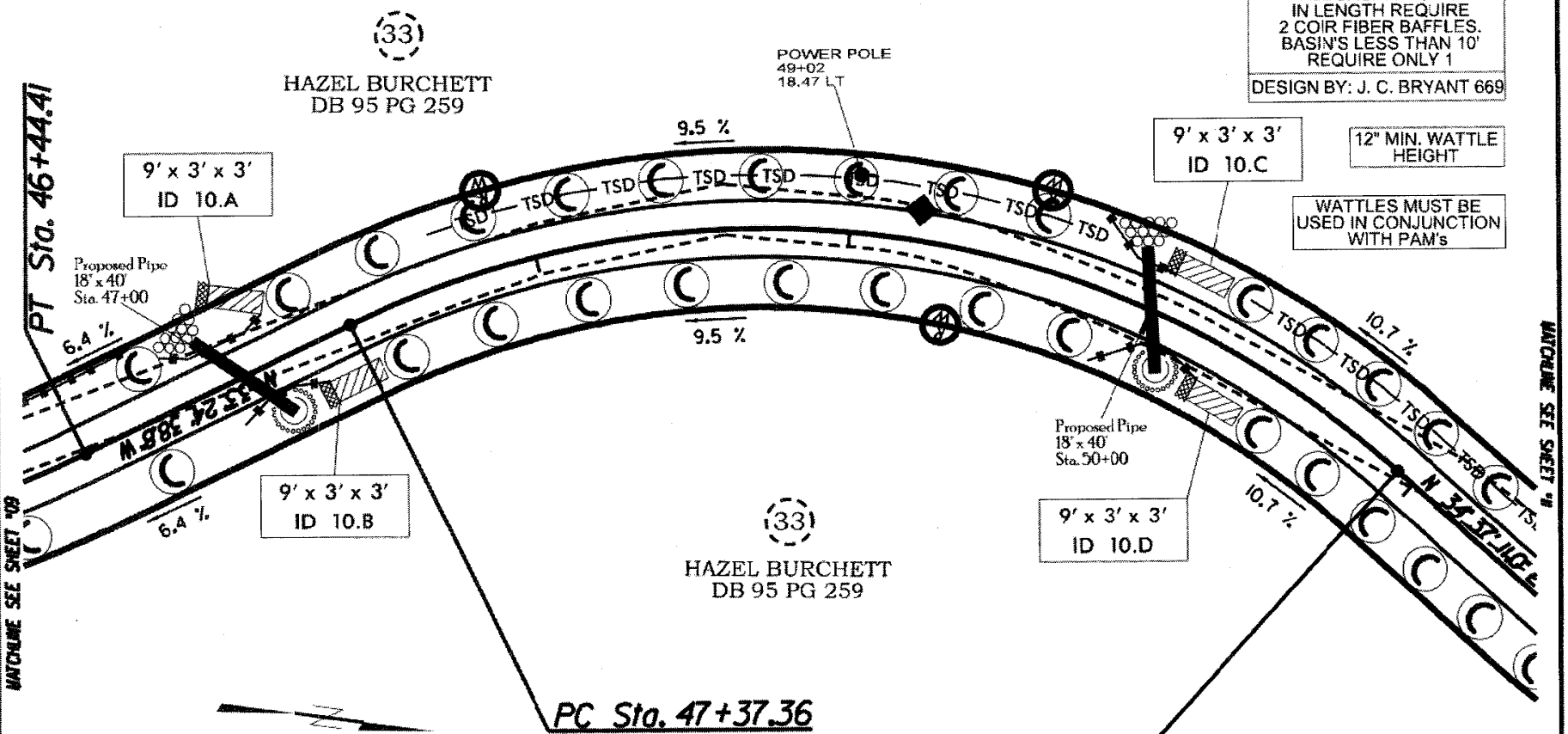
REVISIONS	PROJECT REFERENCE NO.	SHEET NO.
	[illegible]	10

ALL BASIN'S 10'-20' IN LENGTH REQUIRE 2 COIR FIBER BAFFLES. BASIN'S LESS THAN 10' REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

12" MIN. WATTLE HEIGHT

WATTLES MUST BE USED IN CONJUNCTION WITH PAM's

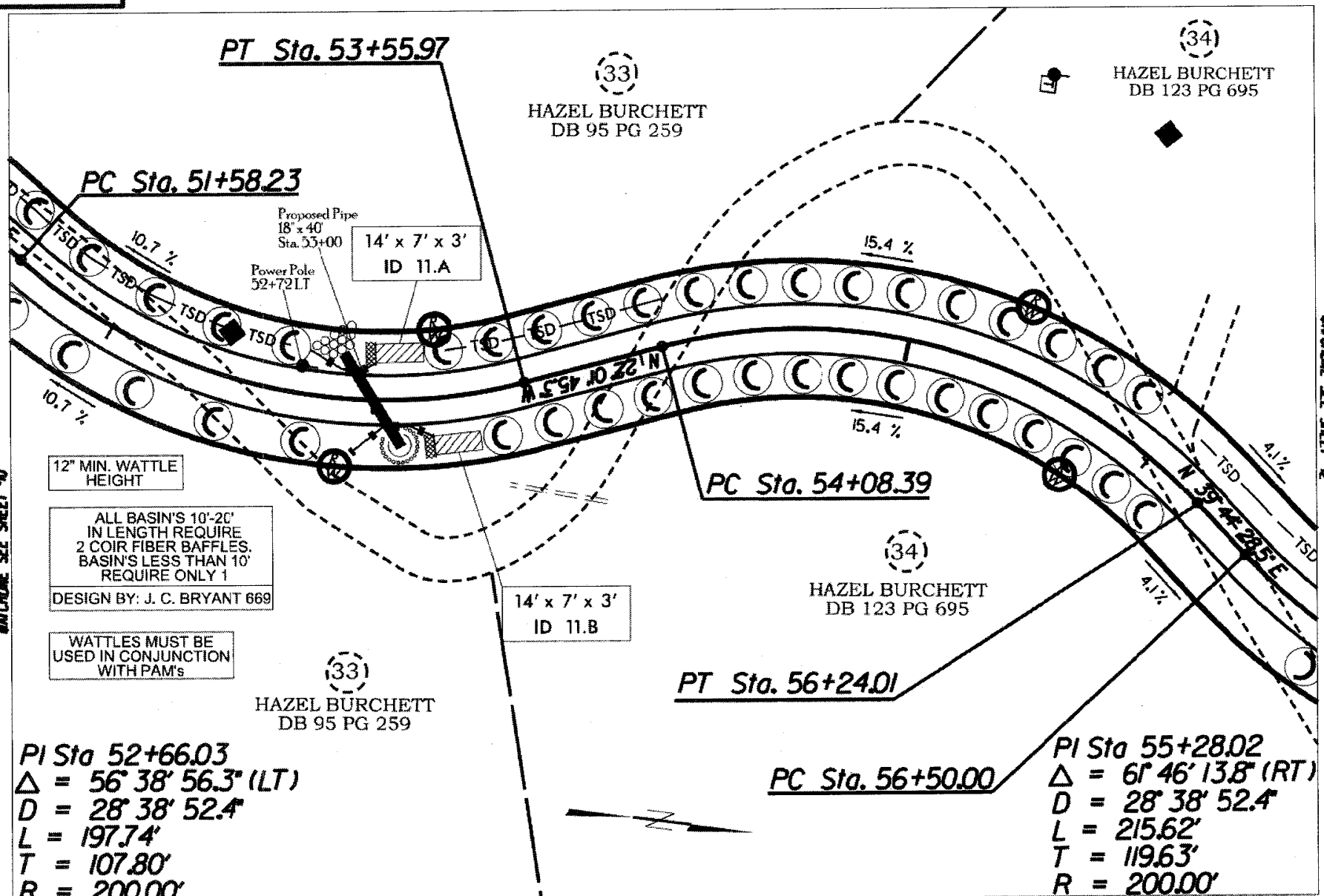


PI Sta 49+39.83
Δ = 68° 01' 49.8" (RT)
D = 19° 05' 54.9"
L = 356.21'
T = 202.47'
R = 300.00'

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS	PROJECT REFERENCE NO.	SHEET NO.
	RC003013	11



12" MIN. WATTLE HEIGHT

ALL BASIN'S 10'-20' IN LENGTH REQUIRE 2 COIR FIBER BAFFLES. BASIN'S LESS THAN 10' REQUIRE ONLY 1

DESIGN BY: J. C. BRYANT 669

WATTLES MUST BE USED IN CONJUNCTION WITH PAM's

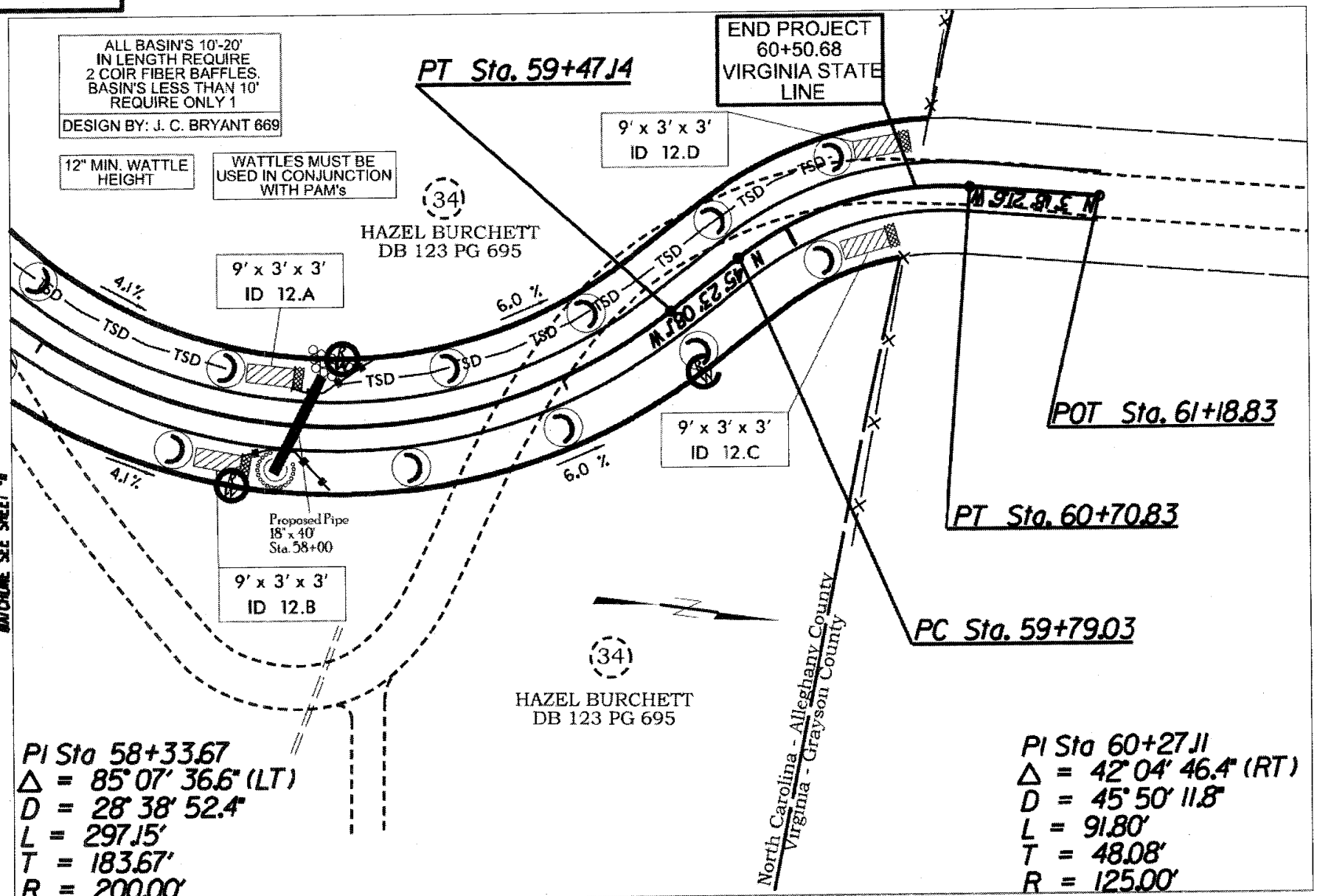
PI Sta 52+66.03
Δ = 56° 38' 56.3" (LT)
D = 28° 38' 52.4"
L = 197.74'
T = 107.80'
R = 200.00'

PI Sta 55+28.02
Δ = 61° 46' 13.8" (RT)
D = 28° 38' 52.4"
L = 215.62'
T = 119.63'
R = 200.00'

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION:	SR 13 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

REVISIONS	PROJECT REFERENCE NO.	SHEET NO.
	HC.003013	12



GRAPHIC SCALE

5.0 2.5 0 5.0 100

PLANS

LOCATION:	SR 1311 "DEACON RD."
COUNTY:	ALLEGHANY
TOWNSHIP:	PINEY CREEK
DESIGNED BY:	JD WOOD
CHECKED BY: CCA	DATE: 4/08/09

ROAD NAME SR 1310 "DEACON RD."
PROJECT NO. 11C.003013
COUNTY ALLEGHANY
OWNER OF POLE BLUE RIDGE ELECTRIC MEMBERSHIP COMPANY

STATION	POLE NUMBER	DIST FROM CENTER PRESENT ROAD		DIST FROM CENTER PROJECT		DIST FROM CENTER AFTER MOVING		REMARKS:
		LT.	RT.	LT.	RT.	LT.	RT.	
45+63		11.10		23.50				POLE W/ 1 GUY
49+02		14.90		18.47				POLE W/ 1 GUY
52+72		28.06		10.05				POLE W/ 1 GUY

FENCE LINE DATA SHEET

ROAD NAME :SR 1310 "DEACON RD."

STATION	STATION	RT. / LT.	FUNC. / NONFUNC.	TYPE OF FENCE
23+40	33+10	RT.	FUNCTION	3 STRAND BARB WIRE
60+54	60+57	LT.	FUNCTION	4 STRAND BARB WIRE

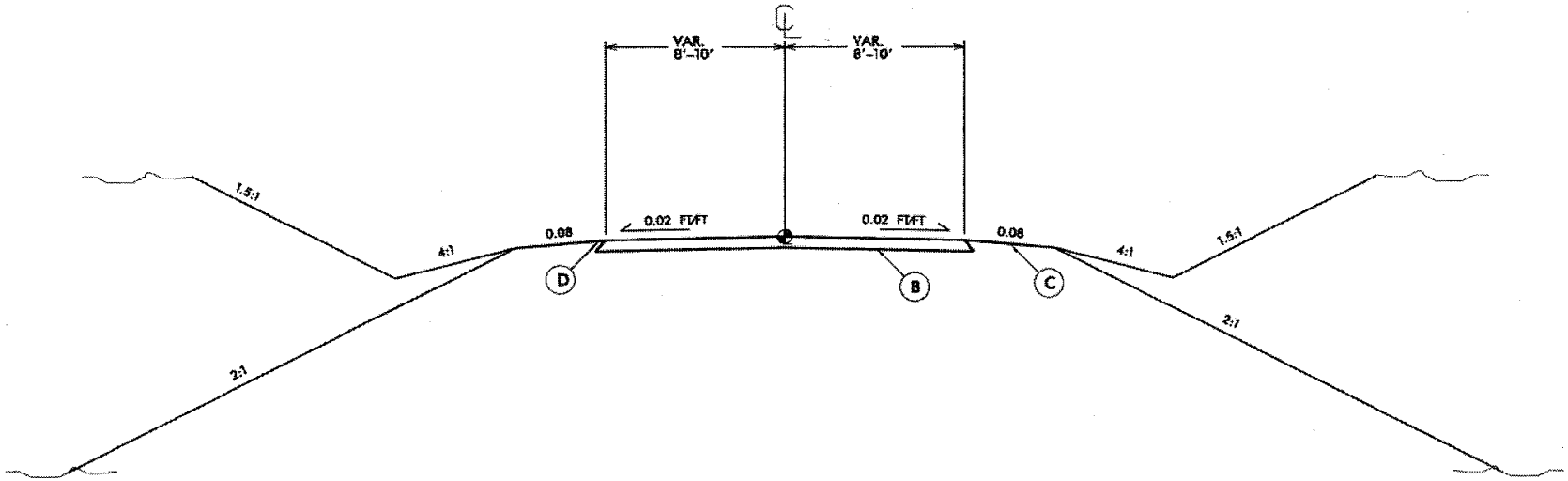
Temporary Liner (Matting) in Ditchline Calculations (English)

Construction Sheet #	2&3	2&3	3	3&4	4	5	5&6	6&7	7&8	8&9
Construction Line (-L-,-Y-,etc.)	L	L	L	L	L	L	L	L	L	L
Left or Right (LT.,RT.,Median)	LT	RT	RT	RT	RT	RT	RT	RT	RT	RT
Upper Station No.	11+79	10+00	14+64	16+30	19+00	22+00	25+00	28+40	33+50	38+78
Upper Station Elevation (ft.)										
Lower Station No.	14+64	11+79	16+30	19+00	22+00	25+00	28+40	33+50	38+78	43+87
Lower Station Elevation (ft.)										
Design Ditch Flow Depth (ft.)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Actual Ditch Depth (ft.)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Frontslope Grade (i.e. 2 for 2:1)	4	4	4	4	4	4	4	4	4	4
Backslope Grade (i.e. 2 for 2:1)	2	2	2	2	2	2	2	2	2	2
Base Width (ft., 0 for V-Ditches)	0	0	0	0	0	0	0	0	0	0
Measured Ditchline Length (ft.)	264	188	240	290	264	188	90	150	290	509
Ditch Grade (%)	5.90	3.00	8.00	7.40	3.70	3.70	1.60	5.30	3.10	2.70
Velocity (ft/s)	4.55	3.25	5.30	5.10	3.61	3.61	2.37	4.32	3.30	3.08
Shear Stress in Ditch (lb/ft^2)	1.21	0.62	1.65	1.52	0.76	0.76	0.33	1.09	0.64	0.56
Ditch Liner Requirement	**PSRM**	**MATTING**	**RIPRAP**	**RIPRAP**	**MATTING**	**MATTING**	**MATTING**	**PSRM**	**MATTING**	**MATTING**
Matting Quantity (yd^2)	**0**	**240**	**0**	**0**	**335**	**240**	**115**	**0**	**370**	**645**
PSRM Matting Quantity (yd^2)	**335**	**0**	**0**	**0**	**0**	**0**	**0**	**190**	**0**	**0**
Construction Line (-L-,-Y-,etc.)										
Left or Right (LT.,RT.,Median)										
Upper Station No.										
Upper Station Elevation (ft.)										
Lower Station No.										
Lower Station Elevation (ft.)										
Design Ditch Flow Depth (ft.)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Actual Ditch Depth (ft.)										
Frontslope Grade (i.e. 2 for 2:1)										
Backslope Grade (i.e. 2 for 2:1)										
Base Width (ft., 0 for V-Ditches)										
Measured Ditchline Length (ft.)										
Ditch Grade (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Velocity (ft/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shear Stress in Ditch (lb/ft^2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

9&10	**10**	**10&11**	**11**	**11&12**	**12**							
L	L	L	L	L	L							
RT	RT	RT	RT	RT	RT							
43+87	47+00	50+00	53+00	56+00	58+00							
47+00	50+00	53+00	56+00	58+00	60+50							
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
1.8	1.8	1.8	1.8	1.8	1.8							
4	4	4	4	4	4							
2	2	2	2	2	2							
0	0	0	0	0	0							
313	300	300	300	200	250							
6.40	9.50	10.70	15.40	4.10	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.74	5.78	6.13	7.36	3.80	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.32	1.96	2.20	3.17	0.84	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PSRM	**RIPRAP**	**RIPRAP**	**RIPRAP**	**PSRM**	**PSRM**	**None**	**None**	**None**	**None**	**None**	**None**	**None**
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
395	**0**	**0**	**0**	**255**	**315**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
	Temporary Rock Silt Check Type-B	
	Wattle	
	Infiltration Basin	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	



B *8" (compacted) ABC*

C *Shoulder varies: Cut side = 4' shoulder on .08 ft/ft transition to a 4:1 slope for a distance of 4' to center of the ditch line*

Fill side = 6' to shoulder break

D *Base should be 1' wider than overall proposed road width*