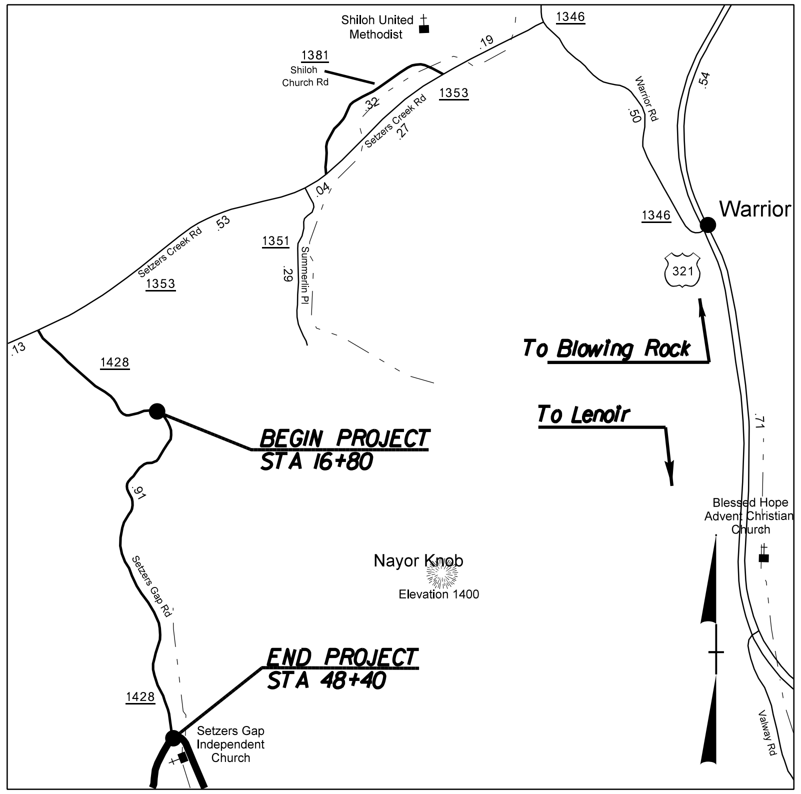
PROJECT: 11C.014091

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	11C.014091	EC-1	15

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

VICINITY MAP



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CALDWELL COUNTY

LOCATION: SR 1428B SETZER'S GAP ROAD FROM SR 1353 TO NC 90
STA 16+80 TO E.O.P. STA 48+40

TYPE OF WORK: GRADING, DRAINAGE, BASE AND PAVING – 0.60 MILES

BEGAN SURVEY: 03/12/13

END SURVEY: 03/20/13

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/Coir Fiber Wattle	
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

Porous Baffle Spacing
*Baffles in Silt Basins at drainage turnouts and all other temporary rock sediment dams–Type B:
–If basin length = 10' or less; 1 baffle
–If basin length = 11' to 20'; 2 baffles
–If basin length = 20' or more; 3 baffles equally spaced in basin

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

Level III Cert # 3474

GRAPHIC SCALE

25 0 50
PLANS

5 0 10
PROFILE (HORIZONTAL)

5 0 10
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
DIVISION OF HIGHWAYS
DIVISION 11, DISTRICT 2 BOONE
P.O. BOX 1460, BOONE, N.C. 28607
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1607.01	Gravel Construction Entrance
1622.01	Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin
1630.05	Temporary Diversion
1630.06	Special Stilling Basin
1631.01	Matting Installation
1632.01	Rock Inlet Sediment Trap Type A
1632.02	Rock Inlet Sediment Trap Type B
1632.03	Rock Inlet Sediment Trap Type C
1633.01	Temporary Rock Silt Check Type A
1633.02	Temporary Rock Silt Check Type B
1634.01	Temporary Rock Sediment Dam Type A
1634.02	Temporary Rock Sediment Dam Type B
1635.01	Rock Pipe Inlet Sediment Trap Type A
1635.02	Rock Pipe Inlet Sediment Trap Type B
1640.01	Coir Fiber Baffle
1645.01	Temporary Stream Crossing

04/16/11

PROJECT REFERENCE NO.	SHEET NO.
11C.014091	1A

EROSION CONTROL & PIPE INSTALLATION SCHEDULE
TROUT BUFFER ZONE SEQUENCE
GENERAL E&SC NOTES
GROUND STABILIZATION CHART

Erosion Control Schedule and Notes

1. Generally, the order of installation of the erosion control measures will be as follows:

   A. Temporary silt basins shall be installed before clearing and grubbing begins.

   B. Silt fences and temporary silt ditches shall be installed after clearing and before grading.

   C. Temporary stone ditch checks with PAM or wattles with PAM shall be installed in all disturbed areas as soon as the disturbance begins.

   D. Final stone ditch checks or wattles shall be installed as soon as ditch line is established.

   E. Pipe outlet and inlet protection will be done as soon as the pipe is installed.

   F. Other permanent erosion control measures are to be implemented as soon as practical.

2. Temporary rock silt checks, type B will be spaced by percent grade as shown in the erosion control plan.

3. No. 5 stone, or equivalent, will be used in conjunction with the temporary rock silt checks in locations where water is leaving the project or entering a pipe.

4. All devices are to be cleaned out when half full.

5. Establish permanent vegetation per ground stabilization chart.

Notes:

For silt basin size see the attached erosion control plans.

PAM is to be placed on all Type A checks and wattles in the erosion control chain except for the final device in HWQ and Trout projects.

Wet Pipe Installation Schedule and Notes

1. Prior to installing any E&SC measures identify permit conditions and impact area limits.

2. Install erosion control devices.

3. Manage the water course. The pipe must be placed in the dry. Install dewatering measures.

4. Remove material and existing pipe while limiting, material and sediment from entering stream and escaping the project.

5. Excavation of stream channel shall not exceed 10' on either side of new pipe or culvert unless indicated on permit.

6. Per permit conditions for Corps of Engineers and the Wildlife Resources Commission, all pipes in streams 48”or greater must be buried 12” below streambed elevation. Pipes less than 48”must be buried with 20% of the diameter below streambed elevation.

7. Place the new pipe and compact backfill.

8. Install slope protection on the outlet and inlet ends of the pipe. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.

9. Establish permanent vegetation per ground stabilization chart.

10. More information on wet pipe installation can be found in the BMP manual section 4.2 "Pipe & Culvert installation"

General Erosion Control Sequence & Notes for NC DOT Projects in Trout Buffer Zones

1. Prior to installing any E&SC measures identify permit conditions and impact area limits. Review trout buffer variance approval conditions for any special provisions.

2. All materials should be on the hand before work is commenced.

3. Install EC devices

4. Work within the buffer zone should be sequenced to minimize the length of time that disturbed areas are exposed. Stream bank stabilization, which includes the area from the edge of water to the top of bank, should be phased so that each day’s work is a completed work, including provision of adequate ground cover.

5. Graded slopes and fills within the trout buffer zone will within 7 calendar days of completion of any phase of grading be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion.

6. Graded slopes and fills within the trout buffer zone (excluding road shoulders) shall be protected with rolled erosion control product, bonded fiber matrix, or flexible growth medium after seeding.

Notes:

Silt fence backed by woven wire, with a post spacing of 6 feet, shall be used instead of standard silt fence in trout buffer zone. Special sediment control fence shall be used in areas where bedrock is encountered which prohibits the proper anchoring of fabric, and in low points of the silt fence in 3-foot sections to allow for concentrated flows.

The disturbed areas within the stream buffer shall be restored to native vegetation characteristic of an undisturbed buffer to the extent practical upon completion of construction.

Flyrock protection such as blast mats should be provided for blasting in close proximity to streams.

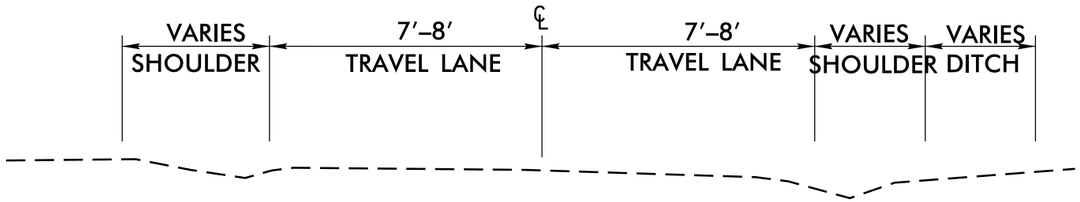
PAM is to be placed on all Type A checks and wattles in the erosion control chain except for the final device in HWQ and Trout projects.

GROUND STABILIZATION CHART

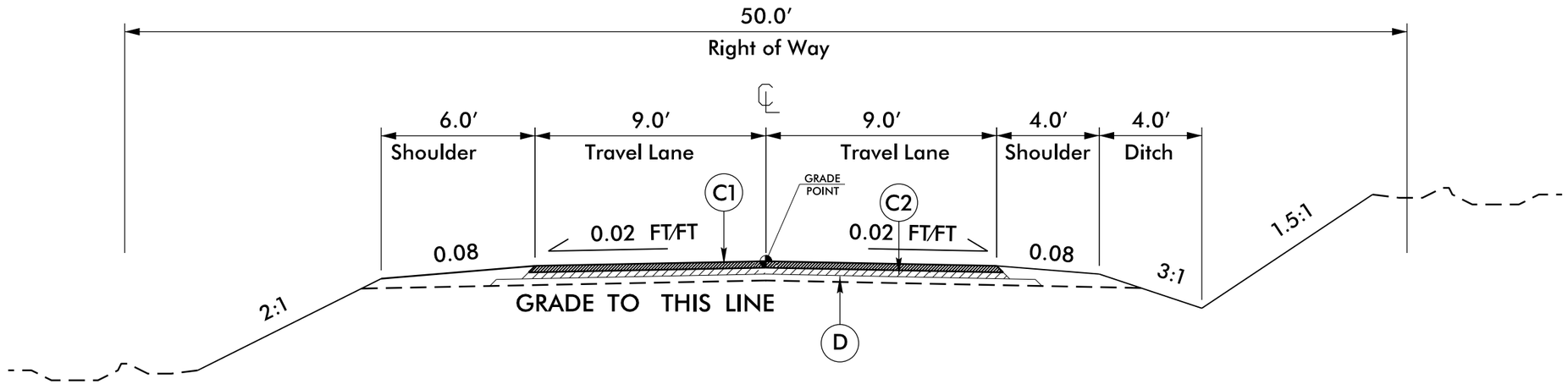
Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10 ft. or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in lenght
All other areas flatter than 4:1	14 days	None (except for perimeters and HQW zones)

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
IIC.014091	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

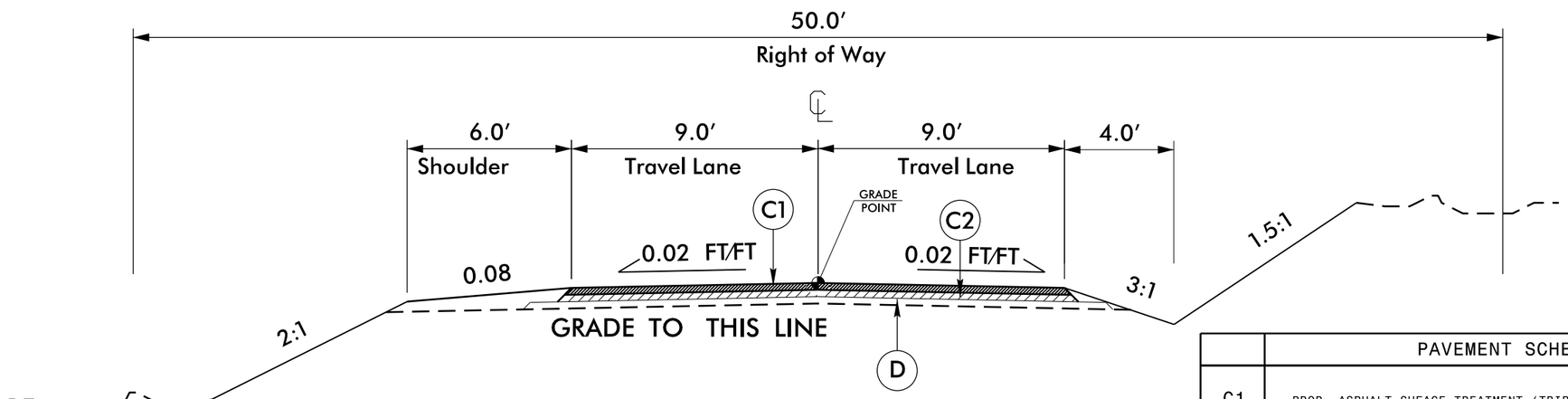


14′–16′ EXISTING TYPICAL SECTION



TYPICAL SECTION NO. 1

Sta. 16+80 to Sta. 28+60
Sta. 36+45 to Sta. 48+40(E.O.P.)



TYPICAL SECTION NO. 2

Sta. 28+60 to Sta. 29+75
Sta. 34+32 to Sta. 36+45

5′ 0′ 5′
GRAPHIC SCALE

	PAVEMENT SCHEDULE
C1	PROP. ASPHALT SUFACE TREATMENT (TRIPLE SEAL).
C2	PROP. APPROX. 3″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D	PROP. APPROX. 6″ AGGREGATE BASE COURSE.

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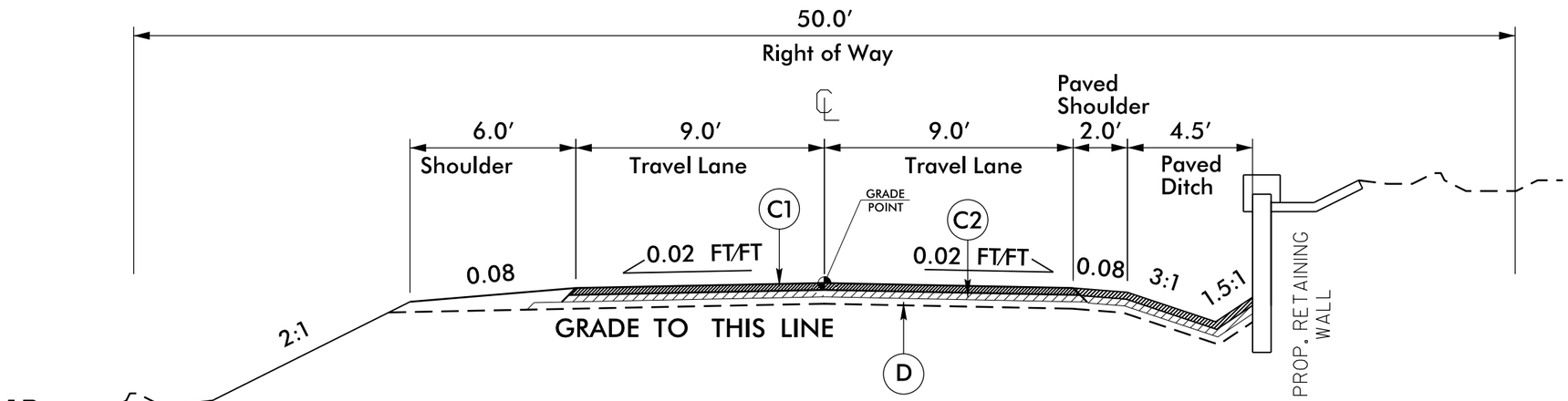
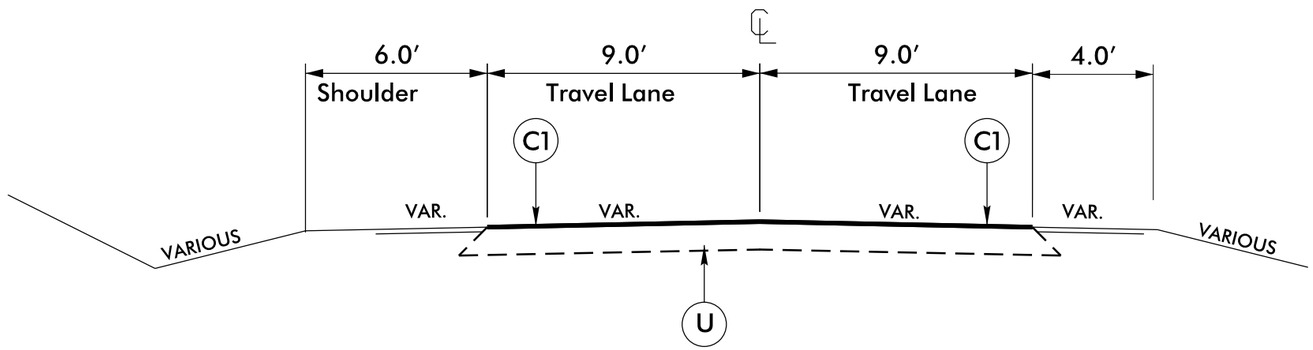
6/2/99

PROJECT REFERENCE NO.	SHEET NO.
IIC.014091	2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER



TYPICAL SECTION NO. 3

Sta. 29+75 to Sta. 34+32



TYPICAL SECTION NO. 4

STA 0+00 B.O.P. TO 16+80

PAVEMENT SCHEDULE	
C1	PROP. ASPHALT SUFACE TREATMENT (TRIPLE SEAL).
C2	PROP. APPROX. 3″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D	PROP. APPROX. 6″ AGGREGATE BASE COURSE.
U	EXISTING PAVEMENT

5′ 0′ 5′

GRAPHIC SCALE

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PROJECT REFERENCE NO.	SHEET NO.
IIC.014091	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
11	-L-	43+00	48+00	RT	365
				SUBTOTAL	365
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					
				TOTAL	365
				SAY	365

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
7	-L-	18+30	19+80	LT	110
7	-L-	19+80	22+40	LT	190
7	-L-	23+50	25+62	LT	155
9	-L-	33+90	35+25	RT	100
9	-L-	35+25	38+60	RT	245
10	-L-	40+50	43+00	RT	185
			SUBTOTAL		985
		ADDITIONAL PSRM TO BE INSTALLED			
				TOTAL	985
				SAY	985

PROJECT REFERENCE NO.	SHEET NO.
IIC.014091	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	*STABILIZATION TIME*	*TIMEFRAME EXCEPTIONS*
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

D11CAD-224786

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
11C.014091	3-C

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

		NEW PIPES									EXISTING PIPES												
		C.S.P. TYPE B (UNLESS NOTED OTHERWISE)																					
SIZE	LOCATION (LT, RT, OR CL)*	12"	15"	18"	24"	30"	36"	42"	48"		12"	15"	18"	24"	30"	36"	42"	48"	PIPE REMOVAL	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	J.B. STD. 840.21 OR 840.32	REMARKS
TYPE																							
STATION																							
~~08+12~~	~~CL~~												~~40~~						~~0'~~				
~~12+15~~	~~CL~~												~~30~~						~~0'~~				
17+17	CL			40									30						30				REPLACE
~~19+85~~	CL			50									40						40				REPLACE
~~22+40~~	CL			50									35						35				REPLACE
~~25+60~~	CL			50									30						30				REPLACE
28+33	RT		60																				ADD DRIVE PIPE
29+20	CL			40																			ADD PIPE
~~30+55~~	CL												30						30				REMOVE PIPE
32+25	LT												20										DO NOT DISTURB
33+80	CL			40									40						40				REPLACE
34+25	RT																			1	2		TOP OF WALL
35+30	CL			40									30						30				REPLACE
36+40	RT		35									30							30				REPLACE DRIVE PIPE
38+60	CL			40																			ADD PIPE
39+55	CL												25						25				REMOVE PIPE
43+05	CL			40									30						30				REPLACE
44+22	RT		35									35							35				REPLACE DRIVE PIPE
46+60	RT		40									40							40				REPLACE DRIVE PIPE
48+05	CL												35						0'				DO NOT DISTURB
SHEET TOTALS		0	170	390	0	0	0	0	0	560	0	105	310	0	0	0	0	0	395	1	2		

PROJECT REFERENCE NO.	SHEET NO.
11C.014091	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

WATSON SHERRY
DB 1648 PG 743

1+00 2+00 3+00 4+00 5+00 6+00

SR 1353 Setzer's Creek Road

60' EX R/W

B.O.P.
STA 00+00

0+30.00
25.00

NO GRADING OPERATIONS
EXISTING PAVEMENT SECTION
STA.0+00-6+90 WILL BE
RESURFACED WITH AST

+55

+93
18.0
PP

+30

Ex Pavement

SR 1428 Setzer's Gap Road

Ex Pavement

Ex Pavement

+35 Gravel

+70

+10

MATCHLINE**6+25

0+30.00
25.00

HAIGLER KATRINA
DB 905 PG 504

LEWIS ELLA MAE
DB 680 PG 1768

BENTLEY DONALD RAY
DB 772 PG 166

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PROJECT REFERENCE NO.	SHEET NO.
11C.014091	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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8/17/99

REVISIONS

TURNMIRE TONY E
TURNMIRE JEFFERY D
DB 1153 PG 068

WATSON THOMAS E
WATSON LENA
DB 767 PG 021

7+00 8+00 9+00 10+00 11+00 12+00

NO GRADING OPERATIONS
EXISTING PAVEMENT SECTION
STA.0+00-6+90 WILL BE
RESURFACED WITH AST

Gap Section:
Sta 6+90-16+80

Gap Section:
Sta 6+90-16+80

MATCHLINE**6+25

MATCHLINE**12+75

Ex Pavement

F19.5 / 54.0

F13.2 / 41.4

F0.0 / 17.0

F5.0 / 25.0

C0.0 / 17.0

C21.0 / 48.5

C1.0 / 18.5

PED

+34 Gravel

+45

+00 Gravel

+60 Gravel

+64

PRICE RAYMOND LENS & FLORENCE
DENISE ARNEY
DB 1455 PG 1895

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PROJECT REFERENCE NO.	SHEET NO.
11C.014091	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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REVISIONS 8/17/99

TURNMIRE TONY E
TURNMIRE JEFFERY D
DB 1153 PG 068

CRUMP TERRY WAYNE
DB 1469 PG 410

13+00 | 14+00 | 15+00 | 16+00 | 17+00 | 18+00 | 19+00

Begin Junkyard

00+ RL

08+ RL

End Junkyard

+15 | +30

MATCHLINE**12+75

MATCHLINE**19+25

Gap Section:
Sta 6+90-16+80

Gap Section:
Sta 6+90-16+80

15' Gravel +10

20' Gravel +50

+80 Gravel

Soil

Fence Post Only

SHEET TIN

SHEET TIN

F10.4 35.8

F1.0 17.0

C2.1 20.2

F2.5 20.0

C1.8 19.7

C0.0 17.0

9 x 3 x 3
2 ft. weir
ID 6.1

9 x 3 x 3
2 ft. weir
ID 6.2

9 x 3 x 3
2 ft. weir
ID 6.3

SR 1428 Setzer's Gap Road

RED PP

+1.0%

-5.0%

2 - 18" Wattles @ 50'

18" CSP

18" CMP

C9.8 31.7

C1.0 18.5

C0.0 20.0

C3.7 22.7

+20 Gravel

+80

+60

F10.6 36.2

F29.5 74.0

F9.5 34.0

TURNMIRE TONY E
TURNMIRE JEFFERY D
DB 1604 PG 1005

PRICE RAYMOND LENS & FLORENCE
DENISE ARNEY
DB 1455 PG 1895

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PROJECT REFERENCE NO.	SHEET NO.
11C.014091	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

CRUMP TERRY WAYNE
DB 1469 PG 410

BENTLEY HOWARD JOSEPH
BENTLEY NORMA
DB 593 PG 408

20+00 21+00 22+00 23+00 24+00 25+00

+40 +50 +00 +50 +98

MATCHLINE**19+25

MATCHLINE**25+75

INSTALL PSRM IN THE PROPOSED DITCH LINE.

9 x 3 x 3 2 ft. weir ID 7.1

9 x 3 x 3 2 ft. weir ID 7.7

9 x 3 x 3 2 ft. weir ID 7.8

9 x 3 x 3 2 ft. weir ID 7.9

C18.6 44.9

C8.0 29.0

C10.0 35.0

C11.2 37.0

C13.8 40.7

C0.0 17.0

C0.0 17.0

-5.0%

4 - 18" Wattles @ 52'

-5.0%

+0.4%

4 - 18" Wattles @ 42'

-7.0%

18" CSP

18" CMP

18" CMP

18" CSP

18" CMP

18" CSP

F0.0 16.0

F25.6 67.2

F0.0 12.0

F10.8 36.6

F8.8 32.6

F2.2 19.4

12 x 4 x 3 2 ft. weir ID 7.2

12 x 4 x 3 2 ft. weir ID 7.3

9 x 3 x 3 2 ft. weir ID 7.5

12 x 4 x 3 2 ft. weir ID 7.6

F60.8 136.6

15 x 5 x 3 2 ft. weir ID 7.4

3P Split Rail

+50 Gravel

PED

.80'

.05'

+70 Soil

PRICE RAYMOND LENS & FLORENCE
DENISE ARNEY
DB 1455 PG 1895

KIRBY JACK W
KIRBY MARIE S
DB 654 PG 768

WOODRUFF GARY DENNIS
WOODRUFF KATHYDB
DB 763 PG 024

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PROJECT REFERENCE NO.	SHEET NO.
11C.014091	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS

BENTLEY HOWARD JOSEPH
BENTLEY NORMA
DB 593 PG 408

BEAVER PAUL MICHAEL
BEAVER TERESA
DB 1082 PG 261

26+00 27+00 28+00 29+00 PI 30+00 31+00 32+00

INSTALL RIPRAP IN THE PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 8.1

12 x 4 x 3
2 ft. weir
ID 8.3

PED
(not in use)

C4.2 23.8 | F3.0 21.0 | F1.6 18.2 | F0.0 15.0

MATCHLINE**25+75

2 – 18" Wattles @ 29'

-8.0%

9 – 18" Wattles @ 36'

SR 1428 Setzer's Gap Road

ADD 18" CSP

ADD 15" CSP

-8.0%

Gravel

Gravel

18" CMP

REMOVE 18" CMP

-8.0%

Retaining Wall

C3.3 22.0 | C4.9 24.4 | C11 18.7 | C7.8 24.8 | 7.5 15.5 | C10.9 25.9 | C11.9 19.3 | C13.5 19.3

Loading Dock

+45 Soil

+37

+45 Gravel

Soil

Gravel Driveway

Begin
Proposed Paved Ditch

Gravel

MATCHLINE**32+25

PRICE, STEVEN ALEX
DB 1905 PG 215

INSTALL RIPRAP IN THE PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 8.2

WOODRUFF HOWARD DEMPSEY
DB 1032 PG 744

WOODRUFF GARY DENNIS
WOODRUFF KATHYDB
DB 763 PG 024

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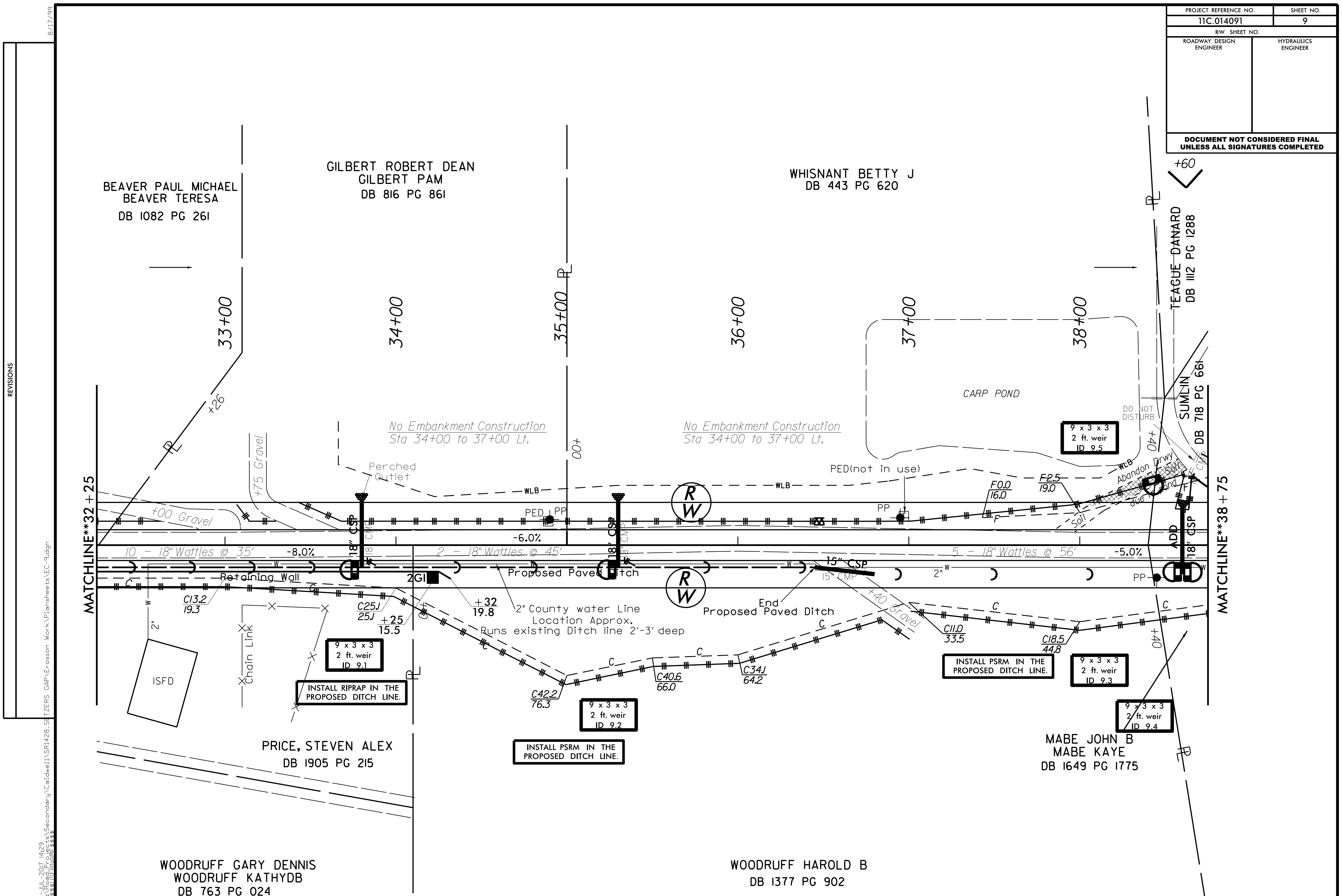

PROJECT REFERENCE NO.
11C.014091
SHEET NO.
9
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
REVISIONS
8/17/99
BEAVER PAUL MICHAEL
BEAVER TERESA
DB 1082 PG 261
GILBERT ROBERT DEAN
GILBERT PAM
DB 816 PG 861
WHISNANT BETTY J
DB 443 PG 620
TEAGUE DANARD
DB 1112 PG 1288
SUMLIN
DB 718 PG 661
33+00
34+00
35+00
36+00
37+00
38+00
+26
+60
+40
CARP POND
DO NOT DISTURB
No Embankment Construction
Sta 34+00 to 37+00 Lt.
No Embankment Construction
Sta 34+00 to 37+00 Lt.
Perched Outlet
+75 Gravel
+00 Gravel
PED(not in use)
PED
PP
WLB
F0.0
16.0
F2.5
19.0
Abandon Drwy
Soil due to Land
MATCHLINE**32+25
MATCHLINE**38+75
10 - 18" Wattles @ 35'
-8.0%
-6.0%
2 - 18" Wattles @ 45'
5 - 18" Wattles @ 56'
-5.0%
18" CSP
18" CMP
18" CSP
18" CMP
15" CSP
15" CMP
18" CSP
ADD
Retaining Wall
2GI
Proposed Paved Ditch
End Proposed Paved Ditch
2" County water Line Location Approx.
Runs existing Ditch line 2'-3' deep
+32
19.8
+25
15.5
C13.2
19.3
C25.J
25.J
C42.2
76.3
C40.6
66.0
C34.J
64.2
C11.0
33.5
C18.5
44.8
+40 Gravel
9 x 3 x 3
2 ft. weir
ID 9.1
9 x 3 x 3
2 ft. weir
ID 9.2
9 x 3 x 3
2 ft. weir
ID 9.3
9 x 3 x 3
2 ft. weir
ID 9.4
9 x 3 x 3
2 ft. weir
ID 9.5
INSTALL RIPRAP IN THE PROPOSED DITCH LINE.
INSTALL PSRM IN THE PROPOSED DITCH LINE.
INSTALL PSRM IN THE PROPOSED DITCH LINE.
ISFD
Chain Link
PRICE, STEVEN ALEX
DB 1905 PG 215
MABE JOHN B
MABE KAYE
DB 1649 PG 1775
WOODRUFF GARY DENNIS
WOODRUFF KATHYDB
DB 763 PG 024
WOODRUFF HAROLD B
DB 1377 PG 902
14-JUL-2017 14:29

PROJECT REFERENCE NO.	SHEET NO.
11C.014091	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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8/17/99

REVISIONS

TEAGUE DANARD
DB 1112 PG 1288

SUMLIN TRACY GLENN
DB 718 PG 661

MABE JOHN B
MABE KAYE
DB 1649 PG 1775

39+00 40+00 41+00 42+00 43+00 44+00 45+00

+50

with branch

with branch

193.00'

+31

9 x 3 x 3
2 ft. weir
ID 10.1

12 x 4 x 3
2 ft. weir
ID 10.2

2" County water line*
to Unknown property
Location Unknown

MATCHLINE**38+75

MATCHLINE**45+25

F9.8 46.6
F15.0 60.0
F10.7 36.4
F0.0 16.0
F2.0 19.0
F1.0 17.0
F1.9 18.8

3SBW
4SBW
5SBW
PED
+20 Gravel
+66 Soil
+22 Gravel
Gate
Gate

+0.6%
GRADE TO DRAIN
-6.0%
-3.0%

SR 1428 Setzer's Gap Road

4 - 18" Wattles @ 50'

REMOVE 18" CMP

18" CSP
18" CMP

15" CSP
15" CMP

Bradford Pears

C9.8 31.7
C9.8 31.7
C14.3 38.5
C14.0 38.0
C10.0 32.0
C0.0 17.0

9 x 3 x 3
2 ft. weir
ID 10.3

INSTALL PSRM IN THE PROPOSED DITCH LINE.

No Embankment Construction
Sta 44+00 to 48+40 Lt.

MABE JOHN B
MABE KAYE
DB 1649 PG 1775

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PROJECT REFERENCE NO.	SHEET NO.
11C.014091	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

46+00

47+00

48+00

Maintain Limits

MABE JOHN B
MABE KAYE
DB 1649 PG 1775

DO NOT DISTURB
Pipe Outlet
Inlet Not Found

9 x 3 x 3
2 ft. weir
ID 11.1

2" County water line*
to Unknown property

F5.2
25.4

F2.8
20.6

F0.0
19.0

MATCHLINE**45+25

2"

4SBW

WM

CMP

-3.0%

4 - 18" Wattles @ 100'

15" C$P

15" CMP

2"

Bradford Pears

Ex. Pavement

WM

W.V.

DO NOT DISTURB

48+25.00
25.00

E.O.P.
STA 48+40

48+25.00
25.00

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

9 x 3 x 3
2 ft. weir
ID 11.2

4"gutter drain

+60 Gravel

No Embankment Construction
Sta 44+00 to 48+40 Lt.

MABE JOHN B
MABE KAYE
DB 1649 PG 1775

WHISNANT, BETTY ARLENE
DB 966 PG 485

NC 90 Collettsville Road

Maintain Limits

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