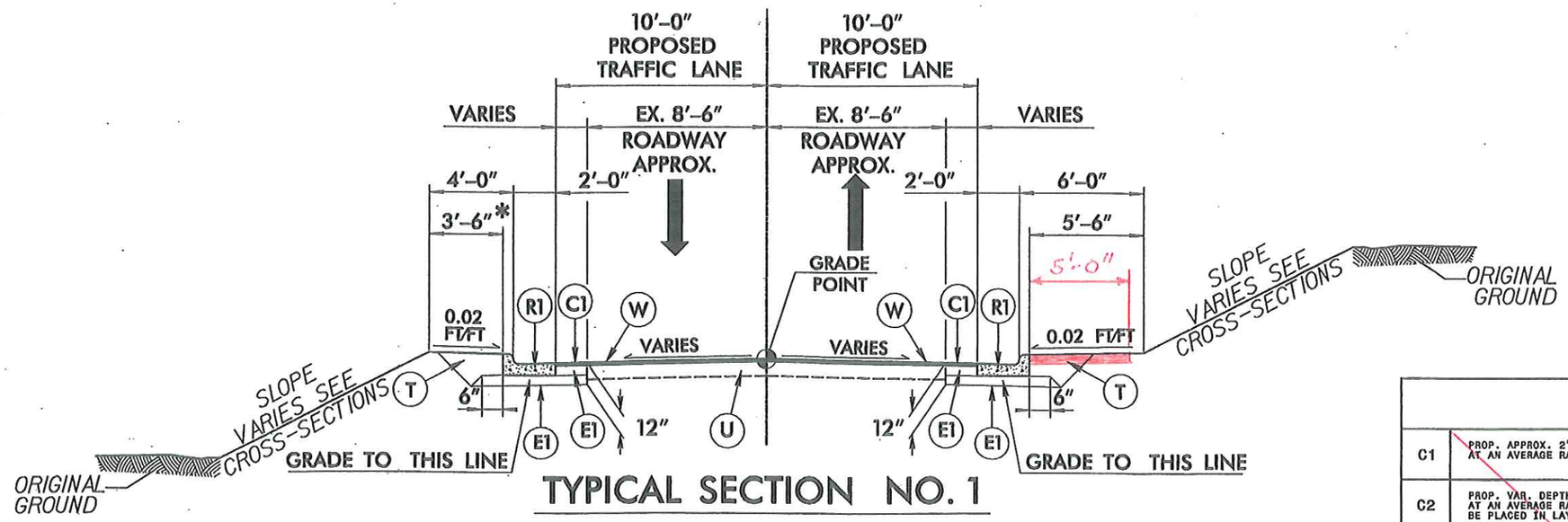
PROJECT REFERENCE NO.	SHEET NO.
R-5118	2

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 29134 ENGINEER PIERCE W. SCHULTZ — 11/2/10

PAVEMENT DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 20134 ENGINEER ROBERT H. CRIS — 11/2/10

℄ -L- & -L-REV-

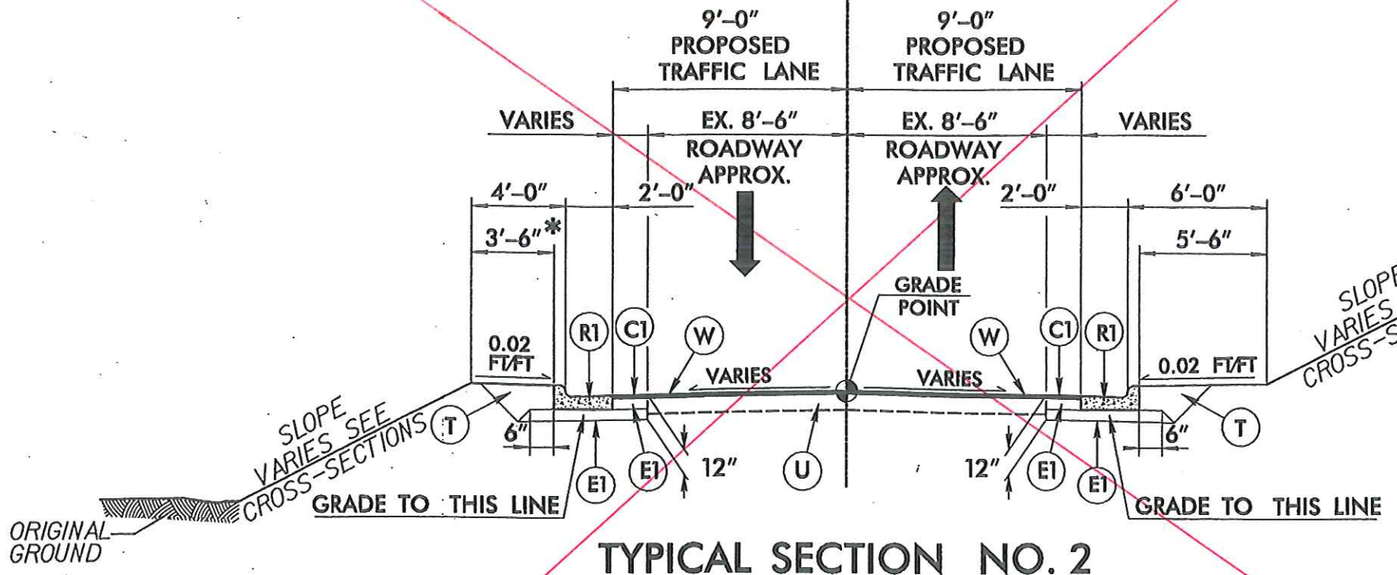


TYPICAL SECTION NO. 1

WIDENING
-L- STA. 10+20 TO -L-REV- STA. 45+60
SUPERELEVATED 0.06 FT/FT MAX.

* NOTE: BERM WIDTH VARIES
FROM -L- STA 13+50 TO 17+00 LT.
FROM -L- STA 25+40 TO 25+70 LT.
FROM -L-REV- STA. 40+75 TO 43+00 LT.
(SEE CROSS SECTIONS)

℄ -Y-

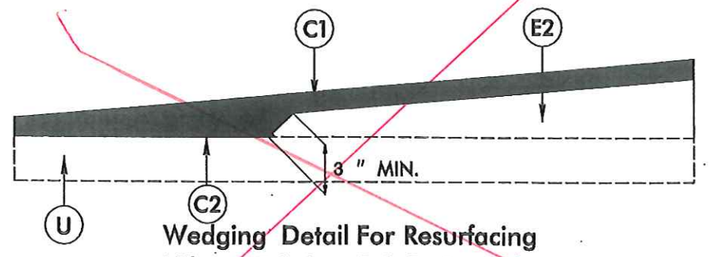


TYPICAL SECTION NO. 2

WIDENING
-Y- STA. 10+10 TO STA. 12+10
SUPERELEVATED 0.06 FT/FT MAX.

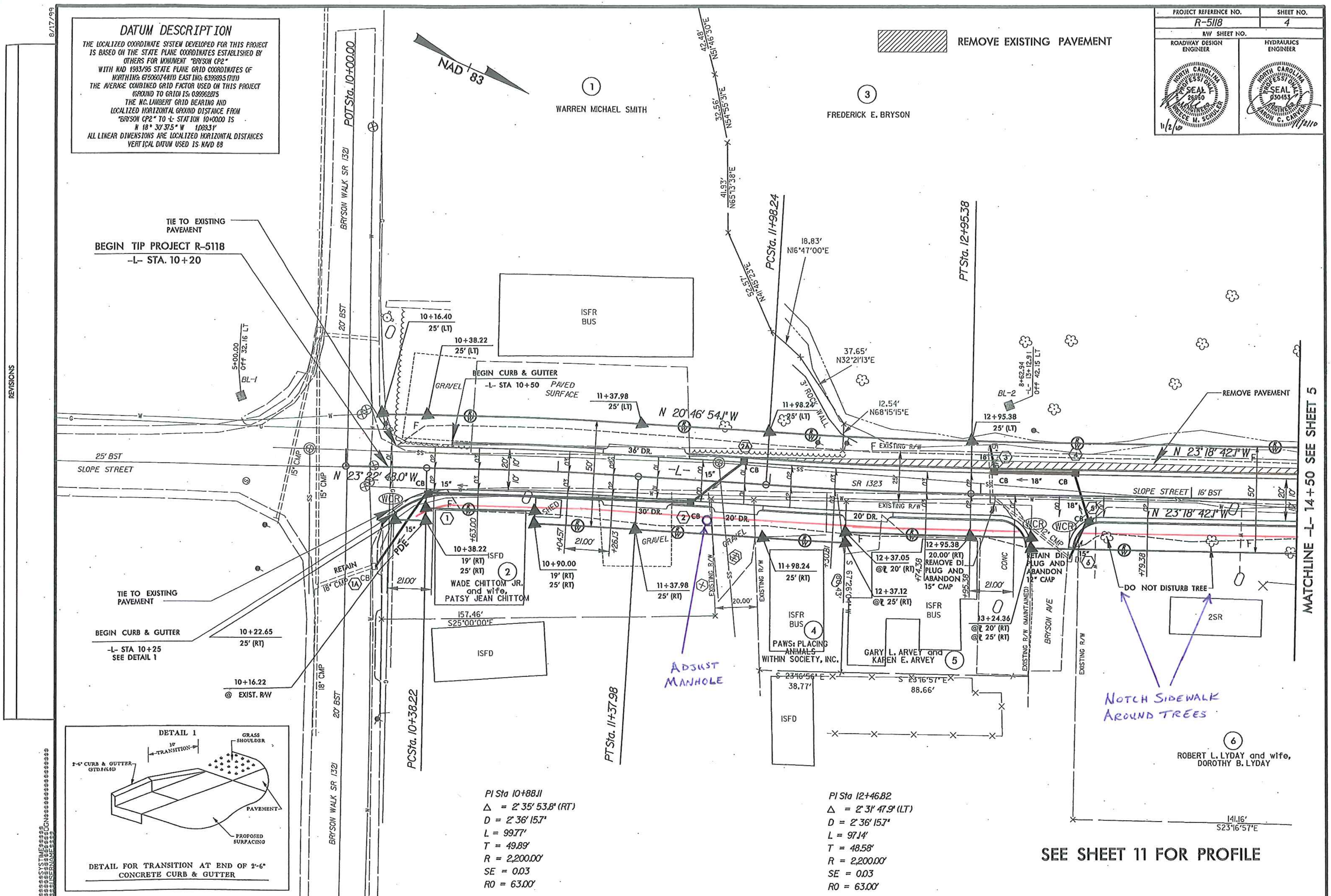
PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2 " IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R1	2'-6" CONCRETE CURB AND GUTTER. (NCDOT STANDARD DRAWING 846.01)
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL FOR RESURFACING).
S	4" CONCRETE SIDEWALK



Wedging Detail For Resurfacing
Where Existing E.O.P. Controls

SYSTIME
DGN
USERNAME


PROJECT REFERENCE NO. R-5118
SHEET NO. 4
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26960 ENGINEER REECE M. SCHULER
NORTH CAROLINA PROFESSIONAL SEAL 030453 ENGINEER AARON C. CARVER
REMOVE EXISTING PAVEMENT
DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "BRYSON CP2"
WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 675060.744(ft) EASTING: 639989.5 17(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99962875
THE NC LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BRYSON CP2" TO -L- STATION 10+00.00 IS N 18° 30' 37.5" W 1,089.31'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88
8/17/99
REVISIONS
NAD 83
WARREN MICHAEL SMITH
FREDERICK E. BRYSON
WADE CHITTOM JR. and wife, PATSY JEAN CHITTOM
PAWS: PLACING ANIMALS WITHIN SOCIETY, INC.
GARY L. ARVEY and KAREN E. ARVEY
ROBERT L. LYDAY and wife, DOROTHY B. LYDAY
TIE TO EXISTING PAVEMENT
BEGIN TIP PROJECT R-5118
-L- STA. 10+20
BEGIN CURB & GUTTER
-L- STA 10+50
BEGIN CURB & GUTTER
-L- STA 10+25
SEE DETAIL 1
10+22.65 25' (RT)
10+16.22 @ EXIST. R/W
10+16.40 25' (LT)
10+38.22 25' (LT)
11+37.98 25' (LT)
11+98.24 25' (LT)
12+95.38 25' (LT)
10+38.22 19' (RT) 25' (RT)
10+90.00 19' (RT) 25' (RT)
11+37.98 25' (RT)
11+98.24 25' (RT)
12+37.05 @ ℄ 20' (RT)
12+37.12 @ ℄ 25' (RT)
12+95.38 20.00' (RT) REMOVE DI PLUG AND ABANDON 15" CMP
13+24.36 @ ℄ 20' (RT) @ ℄ 25' (RT)
RETAIN DI PLUG AND ABANDON 12" CMP
REMOVE PAVEMENT
DO NOT DISTURB TREE
POT Sta. 10+00.00
PC Sta. 10+38.22
PT Sta. 11+37.98
PC Sta. 11+98.24
PT Sta. 12+95.38
BRYSON WALK SR 1321
20' BST
25' BST
SLOPE STREET
16' BST
SR 1323
BRYSON AVE
N 23° 22' 48.0" W
N 20° 46' 54.1" W
N 23° 18' 42.1" W
42.48' N51°46'30"E
32.56' N54°55'31"E
41.93' N65°13'38"E
52.57' N41°45'23"E
18.83' N16°47'00"E
37.65' N32°21'13"E
12.54' N68°15'15"E
157.46' S25°00'00"E
S 23°16'56" E 38.77'
S 23°16'57" E 88.66'
141.16' S23°16'57"E
S 67°26'04" W 80.43'
3' ROCK WALL
BL-1 5+00.00 Off 32.16 LT
BL-2 8+62.94 -L- 13+12.91 Off 42.15 LT
ISFR BUS
ISFD
2SR
36' DR.
30' DR.
20' DR.
GRAVEL
PAVED SURFACE
CONC
SHED
EXISTING R/W
EXISTING R/W (MAINTAINED)
CB
WCR
PDE
RETAIN
15" CMP
18" CMP
12" CMP
21.00'
20.00'
MATCHLINE -L- 14+50 SEE SHEET 5
ADJUST MANHOLE
NOTCH SIDEWALK AROUND TREES
DETAIL 1
2'-6" CURB & GUTTER (STD.846.01)
10' TRANSITION
GRASS SHOULDER
PAVEMENT
PROPOSED SURFACING
DETAIL FOR TRANSITION AT END OF 2'-6" CONCRETE CURB & GUTTER
PI Sta 10+88.11
Δ = 2° 35' 53.8" (RT)
D = 2° 36' 15.7"
L = 99.77'
T = 49.89'
R = 2,200.00'
SE = 0.03
RO = 63.00'
PI Sta 12+46.82
Δ = 2° 31' 47.9" (LT)
D = 2° 36' 15.7"
L = 97.14'
T = 48.58'
R = 2,200.00'
SE = 0.03
RO = 63.00'
SEE SHEET 11 FOR PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-5118	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 25360 ENGINEER PEGGY M. SCHULER 10/25/10

NORTH CAROLINA PROFESSIONAL SEAL 030458 ENGINEER AARON C. CANVENDER 10/25/10

REMOVE EXISTING PAVEMENT

8/17/99 REVISIONS

81.57' N 03°10'08" W

NAD 83

3 FREDERICK E. BRYSON

15

20

7 VARNER PROPERTIES UNLIMITED, INC.

275.37' N69°49'52"E

PCSta. 15+70.29

PTSta. 17+89.82

PCSta. 19+44.79

SOIL RD.

BRYSON BRANCH

N 23°18'42"W

15+70.29 25' (LT)

16+00.00 25' (LT)

17+89.82 25' (LT)

17+70.00 45' (LT) 25' (LT)

18+00.00 45' (LT) 25' (LT)

18+50.00 25' (LT)

19+80.00 70' (LT)

19+70.00 60' (LT)

19+44.79 25' (LT)

PLACE 1 TON CLASS B RIP RAP 5 SY FILTER FABRIC

PROP. 2'-6" C & G

BM-1

TDE

PDE

MATCHLINE -L- 14+50 SEE SHEET 4

MATCHLINE -L- 20+00 SEE SHEET 6

16' DR.

20' DR.

24' DR.

15" CMP

18" CMP

REMOVE CMP

-L-

EXISTING R/W

INV 1737.74

PLUG AND ABANDON

INV= 1738.86 DI REMOVE DI

BL-3

SR 1323

SLOPE STREET

17' BST

N 35°53'23.7"W

CB 7

DI 6

6

ADJUST MANHOLE

WHEELER ST

SOIL RD.

126.81' S66°06'31"W

121.55' S66°06'31"W

EXISTING R/W

30.00'

CONVERT DI TO OPEN THROAT

ADJUST MANHOLE

PROP. 2'-6" C & G

15+00.00 25' (RT)

15+25.00 30' (RT)

15+70.29 25' (RT)

15+70.29 30' (RT)

17+89.82 30' (RT)

17+89.82 25' (RT)

19+00.00 30' (RT)

19+44.80 25' (RT)

20.61'

+44.18

+04.03

+56.15

+99.43

+61.75

PI Sta 16+80.50
△ = 12° 34' 41.7" (LT)
D = 5° 43' 46.5"
L = 219.53'
T = 110.21'
R = 1,000.00'
SE = 0.049
RO = 101.00'

6

ROBERT L. and wife, DOROTHY B. LYDAY

SEE SHEET 11 FOR PROFILE

$$SYSTIME$$
$$DGN$$
$$FILENAME$$

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PROJECT REFERENCE NO.	SHEET NO.
R-5118	6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 15990 ENGINEER CHARLES M. SCHULER — 10/25/10

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 030453 ENGINEER AARON C. CARVER — 10/25/10

REVISIONS 8/17/99

NAD 83

207.13'
N 41°57'07" W

56.89'
S 47°04'37" W

110.90'
S 47°04'38" W

205.19'
S47°44'35"W

37.80'
S47°04'39"W

7
VARNER PROPERTIES
UNLIMITED, INC.

9
MITCHELL A. JENKINS
ELIZABETH JENKINS

10
TRUSTEES OF:
NORTH CAROLINA WEST
DISTRICT OF THE
WESLEYAN CHURCH AND
BRYSON CITY CORNERSTONE
WESLEYAN CHURCH

PCSta. 23+65.57

PTSta. 22+05.83

PTSta. 24+84.52

PLACE 1 TON
CLASS B RIP RAP
5 SY FILTER FABRIC

BRYSON BRANCH

TAIL DITCH
DETAIL 2

TRAILER

MATCHLINE -L- 20+00 SEE SHEET 5

MATCHLINE -L- 25+00 SEE SHEET 7

-L-

N 41° 49' 30.2" W

20+15.00 25' (LT)
20+50.00 25' (LT)
21+00.00 30' (LT)
22+05.83 30' (LT)
22+05.83 25' (LT)
23+65.56 30' (LT)
25' (LT)
23+45.00 30' (LT)
25' (LT)
24+01.47 52' (LT)
24+01.71 30' (LT)
24+01.75 25' (LT)
24+22.00 55' (LT)
30' (LT)
25' (LT)
24+84.52 30' (LT)
25' (LT)

INV=1752.30
INV=1734.28
INV=1761.56

REMOVE
REMOVE DI
PLUG & ABANDON
CONST. PAVED SWALE GRADE TO DRAIN TO CB
PROP. 2'-6" C & G

24' DR.
EXISTING R/W
20' DR.
12' DR.
36' DR.
16' DR.
11' BST
SLOPE STREET
GRAVEL
PROPOSED DRIVEWAY GRADE 16%

EX. DRIVE EXCEEDS 20% GRADE. TIE IN CURB CUT WITH DRIVE.

EXTEND PIPE 5 FT

ADJUST 3 WATER VALVE BOXES

REGRADE CORNER OF DRIVEWAY

PLACE SIDEWALK 2FT BEHIND CURB TO ACCOMMODATE MAIL BOXES

DETAIL 2
STANDARD "V" DITCH
(Not to Scale)

Natural Ground — 2:1 — D — 2:1 — Natural Ground
Min. D= 1Ft.
DDE = 2 CY

STA. 24+07 TO 24+12

PI Sta 20+75.43
Δ = 5°56'06.4" (LT)
D = 2°16'25.1"
L = 261.04'
T = 130.64'
R = 2,520.00'
SE = 0.028
RO = 58.10'

6
ROBERT L. and wife,
DOROTHY B. LYDAY

N45°13'23"E 262.12'

8
MARK FORTNER

PI Sta 24+25.05
Δ = 1°52'20.6" (LT)
D = 1°34'26.6"
L = 118.95'
T = 59.48'
R = 3,640.00'
SE = 0.02
RO = 41.44'

S 38°32'39" W 94.06'

S 40°50'54" W 61.46'

SEE SHEET 11 & 12 FOR PROFILE

$$$$USERNAME$$$$ $$$$SYSTIME$$$$ $$$$DGN$$$$ $$$$USERPROFILE$$$$

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PROJECT REFERENCE NO.	SHEET NO.
R-5118	7
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — SEAL 28220 — ENGINEER — DEREK M. SCHRADER — 10/26/18

HYDRAULICS ENGINEER — SEAL 030453 — ENGINEER — MARION C. CARPER — 10/25/18

NAD 83

(10) TRUSTEES OF: NORTH CAROLINA WEST DISTRICT OF THE WESLEYAN CHURCH AND BRYSON CITY CORNERSTONE WESLEYAN CHURCH
D.B. 208 PG. 762

(13) MOUNTAIN MORTGAGE INVESTMENT COMPANY
D.B. 120 PG. 683

25

PCSta. 25+82.72

PTSta. 28+51.15

PCSta. 29+17.30

CHORD BEARING = N39°26'39"E
CHORD DISTANCE=194.47
RADIUS=950.00
ARC LENGTH=194.81

MATCHLINE -L- 25+00 SEE SHEET 6

MATCHLINE -L- STATION 30+00 SEE SHEET 8

WIDTH VARIES -L- STA 25+40 TO 25+70 LT.

25+82.72 30' (LT)

25+82.72 25' (LT)

POND

PAVED SURFACE

24" DR.

15"

SR 1323

N 43° 41' 50.8" W

14' DR.

30" DR.

SIGN

EXISTING R/W

CB

EIP

BL-5

N 64° 12' 12.6" W

28+76.00 40' (LT) 25' (LT)

28+95.00 40' (LT) 25' (LT)

28+51.15 30' (LT) 25' (LT)

PLACE 1 TON CLASS B RIP RAP 5 SY FILTER FABRIC

29+17.30 30' (LT)

29+17.30 25' (LT)

IS BUS

11" BST

15" CMP REMOVE

STEPS

16' DR.

TRAILER

36" DR.

42" CMP RETAIN

28+51.15 25' (RT)

28+51.15 30' (LT)

29+17.30 25' (RT)

29+17.30 30' (RT)

29+80.00 25' (RT)

29+80.00 30' (RT)

GRAVEL

(12) BEVERLY ROSS
D.B. 156 PG. 38

(11) BARBARA CATES McHAN
D.B. 200 PG. 649
D.B. 223 PG. 33

(14) MATTIE COLEMAN PATE
D.B. 86 PG. 48

(35) MARY H. BROWN
D.B. 211 PG. 328
D.B. 51 PG. 395

(36) CHARLES JENKINS
D.B. 301 PG. 303

(15) LESLIE POWELL
PEGGY PARRISH
D.B. 85 PG. 114

96.79' S33°45'50"E

82.80' S 49°24'29" E

61.96' N 32°12'46" W

R=222.55' ARC=15.55'

R=222.55' ARC=15.73'

R=65.33' ARC=29.42'

109.16' N 85°01'41" E

18.48' N39°36'41"E

164.91' N39°36'41"E

188.38' N35°44'47"E

197.99' N35°00'00"E

63.82' N27°37'05"E

46.61' S54°28'48"E

EASEMENT

INSTALL 300 LF OF 4" SHOULDER DRAIN & 30 LF OF 4" OUTLET PIPE. CONNECT TO EXIST. C.B. INSTALL 4' BEHIND BACK OF CURB PE NCDOT STD. 816.02

NOTCH SIDEWALK AROUND MANHOLE

PLACE SIDEWALK 2 FT BEHIND CURB TO ACCOMMODATE MAIL BOXES

SEE SHEETS 12 FOR PROFILE

8/17/98

#####USERNAME#####

#####FILENAME#####

#####DESIGN#####

#####STATUS#####

#####TIME#####

#####DATE#####

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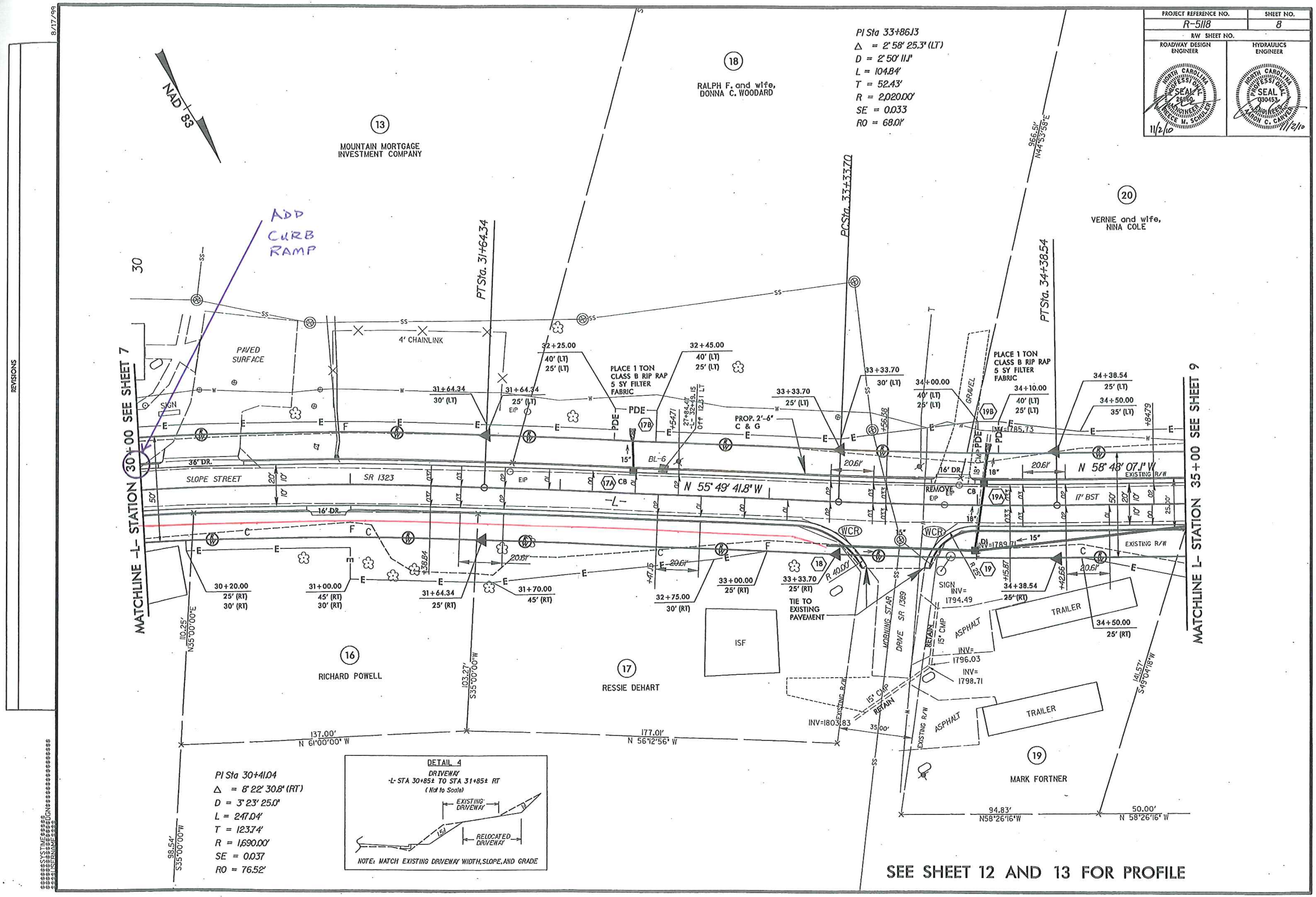
PROJECT REFERENCE NO. R-5118
SHEET NO. 8
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 026560 ENGINEER REECE M. SCHULER
11/2/10
NORTH CAROLINA PROFESSIONAL SEAL 030453 ENGINEER AARON C. CARVER
11/2/10
REVISIONS
8/17/99
NAD 83
ADD CURB RAMP
13
MOUNTAIN MORTGAGE INVESTMENT COMPANY
18
RALPH F. and wife, DONNA C. WOODARD
20
VERNIE and wife, NINA COLE
16
RICHARD POWELL
17
RESSIE DEHART
19
MARK FORTNER
PI Sta 33+86.13
Δ = 2°58′25.3″ (LT)
D = 2°50′11.1″
L = 104.84′
T = 52.43′
R = 2,020.00′
SE = 0.033
RO = 68.01′
PI Sta 30+41.04
Δ = 8°22′30.8″ (RT)
D = 3°23′25.0″
L = 247.04′
T = 123.74′
R = 1,690.00′
SE = 0.037
RO = 76.52′
PT Sta. 31+64.34
PC Sta. 33+33.70
PT Sta. 34+38.54
966.51′ N44°53′58″E
MATCHLINE -L- STATION 30+00 SEE SHEET 7
MATCHLINE L- STATION 35+00 SEE SHEET 9
SLOPE STREET
SR 1323
N 55°49′41.8″ W
N 58°48′07.1″ W
-L-
17′ BST
PAVED SURFACE
4′ CHAINLINK
SIGN
36′ DR.
16′ DR.
GRAVEL
PLACE 1 TON CLASS B RIP RAP 5 SY FILTER FABRIC
PROP. 2′-6″ C & G
BL-6
27+84.47 -L- 32+49.15 Off 12.31 LT
REMOVE EIP
CB
DI
INV=1785.73
INV=1789.71
INV=1794.49
INV=1796.03
INV=1798.71
INV=1803.83
15″ CMP RETAIN
18″ CMP
TIE TO EXISTING PAVEMENT
EXISTING R/W
MORNING STAR DRIVE SR 1389
ASPHALT
TRAILER
ISF
WCR
R 40.00′
R 25′
32+25.00 40′ (LT) 25′ (LT)
32+45.00 40′ (LT) 25′ (LT)
31+64.34 30′ (LT)
31+64.34 25′ (LT)
33+33.70 25′ (LT)
33+33.70 30′ (LT)
34+00.00 40′ (LT) 25′ (LT)
34+10.00 40′ (LT) 25′ (LT)
34+38.54 25′ (LT)
34+50.00 35′ (LT)
30+20.00 25′ (RT) 30′ (RT)
31+00.00 45′ (RT) 30′ (RT)
31+64.34 25′ (RT)
31+70.00 45′ (RT)
32+75.00 30′ (RT)
33+00.00 25′ (RT)
33+33.70 25′ (RT)
34+38.54 25′ (RT)
34+50.00 25′ (RT)
110.25′ N35°00′00″E
98.54′ S35°00′00″W
103.27′ S35°00′00″W
137.00′ N 61°00′00″ W
177.01′ N 56°12′56″ W
35.00′
141.57′ S49°04′18″W
94.83′ N58°26′16″W
50.00′ N 58°26′16″ W
DETAIL 4
DRIVEWAY
-L- STA 30+85± TO STA 31+85± RT
(Not to Scale)
EXISTING DRIVEWAY
RELOCATED DRIVEWAY
NOTE: MATCH EXISTING DRIVEWAY WIDTH, SLOPE, AND GRADE
SEE SHEET 12 AND 13 FOR PROFILE
$$$$SYSTIME$$$$
$$$$DGN$$$$
$$$$USERNAME$$$$