TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

NOTE: PROFILE AND STATIONING SHOWN ON THIS SHEET IS BASED ON THE CONSTRUCTION CENTERLINE.

REVISION: 05/01/06 DELETED PROP PROFILE DUE TO NEW PROJECT LIMITS AND NEW INTERSECTION DESIGN. ADDED PROPOSED PROFILE BASED ON NEW DESIGN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	12
CONST.	2009	18006-3210-04	12

SEE SHEET NO. 11C

MATCH LINE STA. 16+720

I4 #12 J3 #12 I5 #14 J4 #14 K1 #12 L1 #12

-5.802%

FINISHED GRADE

EXISTING G.L.

NORMAL CROWN

STA. 16+800
PROP.450 mm STORM DRAIN
FLOWS LEFT

D.A. = 7.05 ha.
STA. 16+871
375 mm CMP
FLOWS RIGHT

D.A. = 0.38 ha.
375 mm CMP
STA. 17+025
FLOWS RIGHT

VPC 17+095.42
EL. 549.11
STA. 17+100

SEE SHEET NO. 13C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 16+720 TO STA. 17+100
SCALE: 1:500 HORIZ.
1:50 VERT.

24-FEB-2010 14:21
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Roads & Design Division

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 05/01/06 MODIFIED PROP. R.O.W. DUE TO NEW INTERSECTION DESIGN AND NEW PROJECT LIMITS.

REVISION 4/10/02: DELETED PROPERTY OWNERS ADDRESSES FROM TRACTS 58, 63, & 64.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	13
CONST.	2009	18006-3210-04	13

CUMBERLAND MOUNTAIN STATE PARK

GROUND OBSCURED

9

17+200

0+000

0+100

17+300

17+400

ARCHIE DEAN BREEDING BILBREY

63

65

BM-TT10BV

BM-6555

BM-9

STA. 17+248.51
PROP. 59.7 M OF 2 @ 4.88 m X 4.57 m
SLAB CULVERT W/ DEBRIS FIN SKEW 60°

PRESENT & PROP R.O.W.

TRAIL

1- F. RES.

1- BL. BUS.

GR. PK.

GRASS

SLOPE

CLINT BURNETT AND WIFE VELMA

68

PROP R.O.W.

INV. 521.332

INV. 521.354m

SEE SHEET NO. 12

SEE SHEET NO. 14

STA. 17+100

STA. 17+460

MATCH LINE

PERMANENT WETLAND
IMPACT= 123 m2

PERMANENT WETLAND
IMPACT= 186 m2

GRADED SOLID ROCK FILL
SEE X-SECTIONS FOR DETAILS

PROP. R.O.W.

PROP. R.O.W.

PRESENT R.O.W.

P/T/CATV

4.9 m DIRT

102

R=2834.001 m
L=157.657 m
(R=9297.89')
(L=517.25')

EXISTING SLOPE EASEMENT

EXISTING CONST. EASEMENT

EXISTING DRAINAGE EASEMENT

64

HANEY BREEDING AND WIFE LELOWINE

66

JERRY D. BURNETT, ET AL.

INV. 523.260m

INV. 521.406

PRESENT & PROP R.O.W.

USBR TYPE 6 DISSIPATOR

METAL

58

MOSES E. DORTON

STA. 0+000.00 STREAM RELOCATION
N 175552.0170
E 691156.0371

STA. 1+29.04 STREAM RELOCATION
N 175662.7220
E 691103.4860

CURVE CONST. CL	CURVE STREAM REC	CURVE STREAM REC	CURVE STREAM REC	CURVE STREAM REC
PI 17+191.557	PI 0+26.058	PI 0+47.991	PI 0+68.283	PI 0+87.379
N 175,584.7835	N 175,570.7322	E 691,128.1090	N 175,604.2393	N 175,620.6878
E 691,067.3615	E 691,137.9053	Δ 21° 18' 14" (LT)	E 691,112.9713	E 691,103.1059
Δ 12° 13' 33" (RT)	Δ 17° 41' 37" (RT)	R 40.000	Δ 16° 44' 55" (RT)	Δ 31° 28' 18" (RT)
R 2,850.000	R 40.000	L 14.873	R 40.000	R 30.000
L 608.137	L 12.352	T 7.523	L 11.693	L 16.479
T 305.227	T 6.226	SE	T 5.888	T 8.453
SE	SE	DESIGN SPEED	SE	SE
DESIGN SPEED	DESIGN SPEED	TRANS. LENGTH	DESIGN SPEED	DESIGN SPEED
TRANS. LENGTH	TRANS. LENGTH		TRANS. LENGTH	TRANS. LENGTH

GROUND OBSCURED

GROUND OBSCURED

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 17+100 TO STA. 17+460
S.R. 28 / U.S. 127
SCALE: 1:500

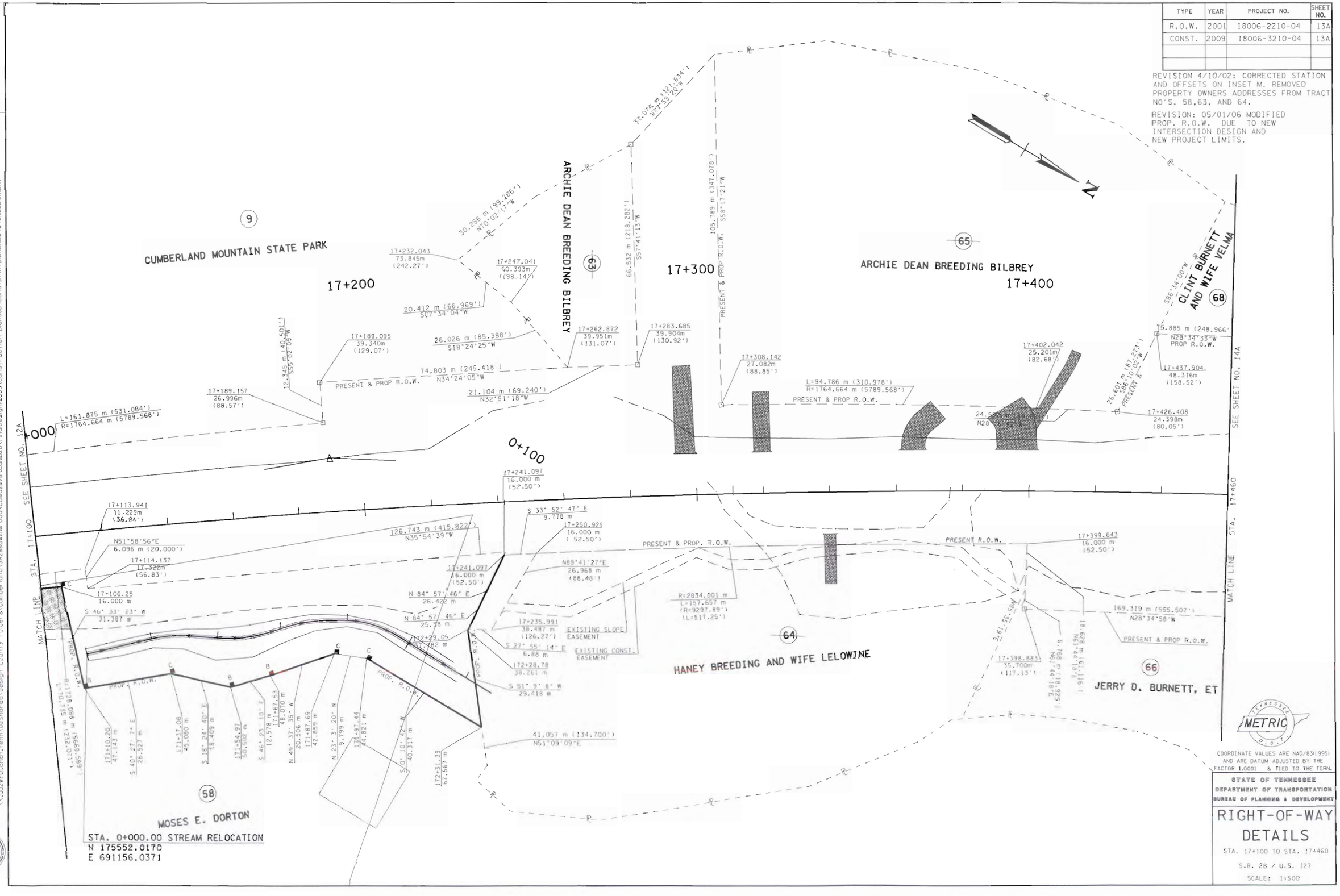
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	13A
CONST.	2009	18006-3210-04	13A

REVISION 4/10/02: CORRECTED STATION AND OFFSETS ON INSET M. REMOVED PROPERTY OWNERS ADDRESSES FROM TRACT NO'S. 58,63, AND 64.

REVISION: 05/01/06 MODIFIED PROP. R.O.W. DUE TO NEW INTERSECTION DESIGN AND NEW PROJECT LIMITS.



STA. 0+000.00 STREAM RELOCATION
N 175552.0170
E 691156.0371

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 17+100 TO STA. 17+460

S.R. 28 / U.S. 127

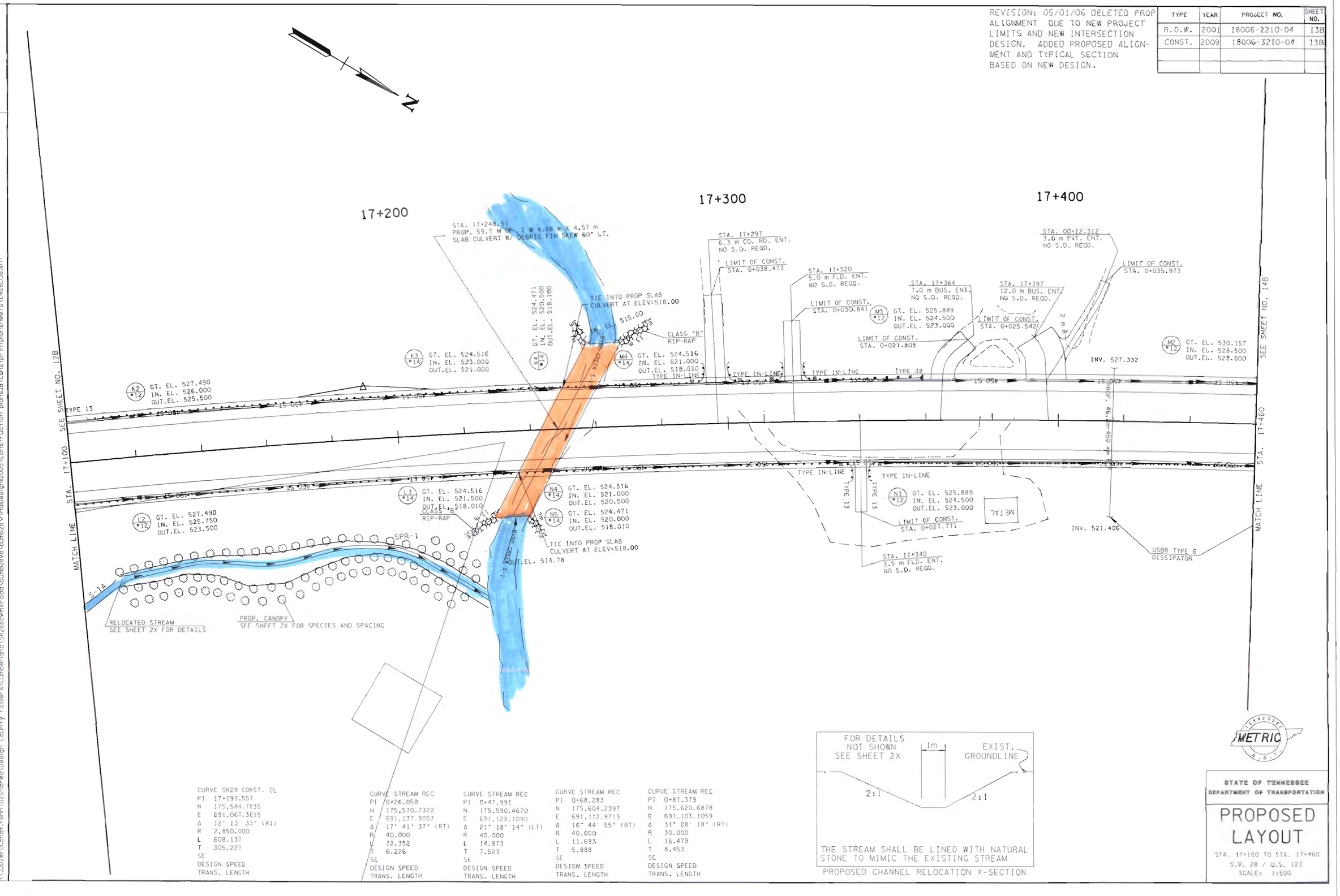
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 05/01/06 DELETED PROP ALIGNMENT DUE TO NEW PROJECT LIMITS AND NEW INTERSECTION DESIGN. ADDED PROPOSED ALIGNMENT AND TYPICAL SECTION BASED ON NEW DESIGN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	13B
CONST.	2009	18006-3210-04	13B



CURVE SR28 CONST. CL
PI 17+191.557
N 175,584.7835
E 691,067.3615
Δ 12° 13' 33" (RT)
R 2,850.000
L 608.137
T 305.227
SE
DESIGN SPEED
TRANS. LENGTH

CURVE STREAM REC
PI 0+26.058
N 175,570.7322
E 691,137.9053
Δ 17° 41' 37" (RT)
R 40.000
L 12.352
T 6.226
SE
DESIGN SPEED
TRANS. LENGTH

CURVE STREAM REC
PI 0+47.991
N 175,590.4670
E 691,128.1090
Δ 21° 18' 14" (LT)
R 40.000
L 14.873
T 7.523
SE
DESIGN SPEED
TRANS. LENGTH

CURVE STREAM REC
PI 0+68.283
N 175,604.2397
E 691,112.9713
Δ 16° 44' 55" (RT)
R 40.000
L 11.693
T 5.888
SE
DESIGN SPEED
TRANS. LENGTH

CURVE STREAM REC
PI 0+87.379
N 175,620.6878
E 691,103.1059
Δ 31° 28' 18" (RT)
R 30.000
L 16.479
T 8.453
SE
DESIGN SPEED
TRANS. LENGTH

PROPOSED CHANNEL RELOCATION X-SECTION

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 17+100 TO STA. 17+460
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

NOTE: PROFILE AND STATIONING SHOWN ON THIS SHEET IS BASED ON THE CONSTRUCTION CENTERLINE.

REVISION: 05/01/06 DELETED PROP PROFILE DUE TO NEW PROJECT LIMITS AND NEW INTERSECTION DESIGN. ADDED PROPOSED PROFILE BASED ON NEW DESIGN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	13
CONST.	2009	18006-3210-04	13

NORMAL CROWN

EXC. (UNCL.) 158.670 m³

COMMON	158.670 m³	(INCLUDES 5058 m³ OF UN-USEABLE LIMESTONE, INCLUDES 31,486 m³ TOPSOIL EXCAVATION, AND 5165 m³ FROM COUNTY ROADS.)
ROCK		
EXC.		
EMB.		
EMB.	141.219 m³	(INCLUDES 463 m³ FOR COUNTY ROADS, 15743 m³ TO REPLACE STRIPPED TOP SOIL.)

STA 17+134.96
LOW WIRE ELEV= 533.317m
T - TELEPHONE

VC = 250.0000 m
K = 26
V = 70 km/h

VPT 17+345.42
EL. 526.8008

VPC 17+455.00
EL. 531.0980

MATCH LINE STA. 17+100 SEE SHEET NO. 12C

MATCH LINE STA. 17+460 SEE SHEET NO. 14C

K2 #12 L2 #12 K3 #14 L3 #14 K4 #14 N5 #14 M4 #14 N4 #14 M3 #12 N3 #12 M2 #12 N2 #12

-3.803%

3.821%

3.821%

FINISHED GRADE

EXISTING G.L.

WOODS CLEAR WOODS

EXISTING GROUND AT STREAM RELOCATION

STREAM RELOCATION BOTTOM C.L.

HW EL. 518.23

OHW E. 515.88

VPI 0+00.00
EL. 519.1637

VPI 0+15.78
EL. 519.3984

VPI 0+65.05
EL. 518.3371

VPI 0+78.93
EL. 517.7536

VPI 0+93.70
EL. 517.2541

VPI 115.20
EL. 516.8850

VPI 17+220.42
EL. 521.8887

BRIDGE OVER BYRD CREEK
PLAN REF. F-028-1117)
STA. 17+250
SK. 60° LT.
FLOWS RIGHT
D.A. = 2640 ha.

STATION	17+248.51
STRUCTURE	60m-2@4.68X4.57M SLAB CULV. W/ DEBRIS FIN
SKEW	60°
DRAINAGE AREA	26.70 km²
DESIGN DISCHARGE(Q100)	71.9 m³/s
DISCHARGE(Q500)	95.7 m³/s
OVERTOPPING ELEV.	525.8
Q500 HEADWATER ELEV.	519.55
Q100 HEADWATER ELEV.	518.98
VELOCITY (Q100)	2.01 m/s
INLET ELEVATION	515.00
OUTLET ELEVATION	514.78
STANDARD DRAWING NUMBERS	STD-15-18, STD-15-125, STD-15-127

STA. 17+416
375 mm CMP
FLOWS RIGHT
D.A. =0.34 ha.

STATION	17+416.675
STRUCTURE	PROP. 46.2m-450mm RCP
SKEW	90°
DRAINAGE AREA	0.293 ha
DESIGN DISCHARGE(Q50)	.0635 m³/s
OVERTOPPING ELEV.	529.595
ALLOWABLE HEADWATER ELEV.	529.000
Q50 HEADWATER ELEV.	527.54
Q100 HEADWATER ELEV.	527.58
VELOCITY (Q50)	1.70 m/s
INLET ELEVATION	527.332
OUTLET ELEVATION	521.406
STANDARD DRAWING NUMBERS	DM-PB-1
INLET DRAWING NUMBERS	DM-PE-9, DM-PE-9A
OUTLET DRAWING NUMBERS	DM-PE-9, DM-PE-9A

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 17+100 TO STA. 17+460
SCALE: 1:500 HORIZ.
1:50- VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 02/26/07 ADDED FIELD ENTRANCE R.T. STA. 17+500.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	14
CONST.	2009	18006-3210-04	14

REVISION: 01/06/03 DELETED "ROBERT TOLLETT" FROM PROPERTY OWNERS NAME FOR TRACT NO. 70. CHANGED PROPERTY OWNERS NAME, DEED BOOK AND PAGE ON TRACT NO. 73. DELETED 6.0m BUS. ENT. AT STA. 17+809.5 RT. ADDED 6m BUS. ENT. AT STA. 17+810.000 RT. ADDED 6m BUS. ENT. AT STA. 17+798 RT. DELETED 3.0m PVT. ENT. AT STA. 17+824 RT.

N

68 CLINT BURNETT AND WIFE VELMA

17+500

69 CARMACK SELBY AND WIFE

17+600

71 CHARLES W. WENG AND WIFE IZETTA

72 CORDON W. SELVY AND WIFE WILMA

75 HOMER WRIGHT AND WIFE

17+700

17+800

76 U. F. W. POST 5025

PRESENT & PROP. R.O.W.

2- F. RES.

1- F. RES.

1- T. RES.

SHED

TRAILER

GRASS

2.6 m GR.

3.2 m GRASS

4.8 m ASPH.

4.6 m GR.

6.1 m CONC.

5.7 m ASPH.

1- BL. BUS.

PK.

FLAG

MATCH LINE STA. 17+460

SEE SHEET NO. 13

M-3 Toll

M-4 VFW

WMC-15A

SEE SHEET NO. 15

P/T/CATV

CONST. EASEMENT

SLOPE EASEMENT

DRAINAGE EASEMENT SEE INSET N

66 JERRY D. BURNETT, ET AL

70 BOBBIE TOLLETT

1-F. RES.

73 BRENDA KING AND HUSBAND ANTHONY

1-BR. RES.

74 W. PERKINS THORNTON

BR. PK.

1- BL. BUS.

77 PIERRE K. BERRY AND WIFE, DONNA J. BERRY

3.6 m GR.

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TDOT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 17+460 TO STA. 17+840
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	14A
CONST.	2009	18006-3210-04	14A

REVISION: 02/26/07 ADDED FIELD ENTRANCE RT. STA. 17+500.

REVISION: 01/06/03 DELETED "ROBERT TOLLETT" FROM PROPERTY OWNERS NAME FOR TRACT NO. 70. CHANGED PROPERTY OWNERS NAME, DEED BOOK AND PAGE ON TRACT NO. 77. DELETED 6.0m BUS. ENT. AT STA. 17+809.5 RT. ADDED 6m BUS. ENT. AT STA. 17+710.000 RT. ADDED 6m BUS. ENT. AT STA. 17+798 RT. DELETED 3.0m PVT. ENT. AT STA. 17+824 RT.

N

17+500

PRESENT & PROP. R.O.W.

(68) CLINT BURNETT AND WIFE VELMA

75.885 m (248.966') N26°34'33"W

10.319 m (33.856') S61°20'54"W

14.819 m (48.620') N28°39'17"W

44.991 m (147.607') S54°01'46"W

(69) CARMACK SELBY AND WIFE

17+600

PRESENT & PROP. R.O.W.

23.251 m (76.283') S52°34'05"W

32.738 m (105.439') S52°34'50"W

(72) CORDON W. SELVY AND

56.841 m (186.487') N45°24'28"W

56.630 m (185.794') N39°43'58"W

20.177 m (66.196')

36.704 m (120.419')

55.805 m (183.087') N40°50'55"W

(71) CHARLES W. WENG AND WIFE IZETTA

R=4.572 m (15.000') L=5.333 m (17.498')

28.805 m (94.505') S53°29'36"W

96.517 m (316.655') S53°29'36"W

(75) HOMER WRIGHT AND WIFE

17+700

17+693.789 41.065m (134.73')

L=64.572 m (211.900') R=4,572.000 m (15,000.000')

23.749 m (45.107') S53°23'28"W

353°23'28"W

17+800

PRESENT & PROP. R.O.W.

68.160 m (223.621') N32°49'55"W

(76) V. F. W. POST 5025
32 VFW LOOP
CROSSVILLE TN 38555

32.264 m (105.235') S55°02'02"W

17+758.863 51.265m (168.19')

17+828.398 51.530m (169.06')

17+828.744 39.271m (128.84')

32.741 m (107.418') N28°51'16"W

N29°24'21"W 58.295 m (191.257')

52.787 m (173.187') N30°29'14"W

60.633 m (198.926') N31°44'46"W

17+512.834 41.479m (136.08')

17+512.855 37.479m (122.96')

17+527.674 37.510 (123.06')

17+560.415 37.692 (123.66')

17+618.852 38.557m (126.50')

17+672.436 39.607m (129.95')

17+674.750 44.099m (144.68')

17+698.370 36.975m (121.31')

PRESENT & PROP. R.O.W.

17+760.022 37.564m (123.24')

MATCH LINE STA. 17+460 SEE SHEET NO. 13A

MATCH LINE STA. 17+840 SEE SHEET NO. 15A

N 28° 32' 10" W

51.176 m (167.901') N29°42'08"W

17+267.972 22.123m (72.58')

9.170 m (30.084') N29°20'00"W

17+567.801 23.220m (76.18')

66.154 m (217.040') N30°36'38"W

17+693.575 21.050m (69.06')

17+764.442 20.505m (67.27')

1.434 m (4.704') N31°37'19"W

1.646 m (5.400')

PRESENT & PROP. R.O.W.

10.577 m (34.702') N53°13'18"E

17+765.319 31.045m (101.85')

17+766.946 31.014m (101.76')

62.5 m (205.293') S52°

17+828.799 21.497m (70.20')

17+898.786 30.657m (100.58')

PRESENT & PROP. R.O.W.
169.319 m (555.507') N28°34'58"W

DRAINAGE EASEMENT SEE INSET N

CONST. EASEMENT

SLOPE EASEMENT

17+569.417 37.145m (121.87')

14.618 m (47.950') N36°41'51"E

N54°58'24"E

N52°35'51"E

N53°34'42"E

N66°26'18"E

(66) JERRY D. BURNETT, ET AL

(70) BOBBIE TOLLETT

(73) BRENDA KING AND HUSBAND ANTHONY

(74) W. PERKINS THORNTON

(77) PIERRE N. BERRY AND WIFE, DONNA J. BERRY

INSET N

17+460.797 37.037 m (121.51')

N28°34'58"W 8.000 m (26.25')

17+468.903 37.113 m (121.76')

S61°58'14"W 4.347 m (14.26')

N61°58'12"E 4.424 m (14.51')

17+460.706 41.383 m (135.77')

17+468.823 41.537 m (136.28')

S28°1'48"E 8.000 m (26.25')

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TDOT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 17+460 TO STA. 17+840

S.R. 28 / U.S. 127

SCALE: 1"=50'

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Survey & Design Division

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 01/06/03 DELETED "ROBERT TOLLETT" FROM PROPERTY OWNERS NAME FOR TRACT NO. 70. CHANGED PROPERTY OWNERS NAME, DEED BOOK AND PAGE ON TRACT NO. 77. DELETED 6.0m BUS. ENT. AT STA. 17+609.5 RT. ADDED 6m BUS. ENT. AT STA. 17+710.000 RT. ADDED 6m BUS. ENT. AT STA. 17+798 RT. DELETED 3.0m PVT. ENT. AT STA. 17+824 RT.

REVISION: 02/26/07 ADDED FIELD ENTRANCE RT. STA. 17+500.

TYPE	YEAR	PROJECT NO.	SHEET NO.
H.G.W.	2009	18009-2010-04	14B
CONST.	2009	18009-3010-04	14B

REVISION: 05/01/06 DELETED PROP ALIGNMENT DUE TO NEW PROJECT LIMITS AND NEW INTERSECTION DESIGN. ADDED PROPOSED ALIGNMENT AND TYPICAL SECTION BASED ON NEW DESIGN.

N

17+500 17+600 17+700 17+800

MATCH LINE STA. 17+460 SEE SHEET NO. 13B

MATCH LINE STA. 17+842 SEE SHEET NO. 15B

PROP. 9m-450mm RCP

INV. 529.368

LIMIT OF CONST. STA. 0+052.794

STA. 17+479 5.0 m PVT. ENT. NO S.D. REQD.

N1 #12 GT. EL. 532.699 OUT.EL. 531.000

01 #12 GT. EL. 532.437 OUT.EL. 530.987

STA. 17+813 6.0m BUS. ENT. 3m-S.S. REQD.

LIMIT OF CONST. STA. 0+040.000

P2 #12 GT. EL. 529.400 IN. EL. 527.056 OUT.EL. 527.900

8 m R V-ROCK TYPE 1

15 SY

15 SY

15 SY

N 28° 32' 10" W

TYPE 1 V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

V-ROCK

TYPE 3 V-ROCK

V-ROCK

N1 #12 GT. EL. 532.699 OUT.EL. 531.000

01 #12 GT. EL. 532.437 OUT.EL. 530.987

P2 #12 GT. EL. 529.400 IN. EL. 527.950 OUT.EL. 527.900

INV. 521.767

SPECIAL DITCH 3:1 SIDE SLOPES W/ 1m WIDE BOTTON RIP-RAP LINED.

STA. 17+500.00 3.0m FLD. ENT. 5 m-460mm S.D. REQD.

LIMIT OF CONST. STA. 0+038.000

LIMIT OF CONST. STA. 0+041.317

STA. 17+580 12.0 m BUS. ENT. 13m-450mm S.D. REQD.

LIMIT OF CONST. STA. 0+050.444

STA. 17+689 3.0 m PVT. ENT. 5m-450mm S.D. REQD.

STA. 17+710 6.0 m BUS. ENT. 7m-450mm S.D. REQD.

LIMIT OF CONST. STA. 0+056.000

LIMIT OF CONST. STA. 0+056.160

STA. 17+798 6.0 m BUS. ENT. 7m-450mm S.D. REQD.

S.R. 28

PI	17-841.002
N	476157.3679
E	690756.0062
Δ	10°16'25"
R	2600.000
L	463.176
T	232.202
E	10.348
D.C.	462.564
S.E.	8.000m/m
TRANS. LENGTH	0
DESIGN SPEED	70km/h

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 17+460 TO STA. 17+840
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 02/26/07 ADDED SIDEDRAIN STA. 17+500.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	140
CONST.	2009	18006-3210-04	140

NORMAL CROWN

VPI 17+580.00
EL. 536.0000

VPI 17+705.00
EL. 532.0938

VPI 17+791.46
EL. 529.2043

STA. 17+460 SEE SHEET NO. 15C

STA. 17+840 SEE SHEET NO. 15C

MATCH LINE

MATCH LINE

PROP. 15m-450mm SIDE-DRAIN

FINISHED GRADE

EXISTING GROUND LINE

PROP. 5m-450mm SIDE-DRAIN

PROP. 5m-450mm SIDE-DRAIN

PROP. 7m-450mm SIDE-DRAIN

PROP. 6m-450mm SIDE-DRAIN

M1 #12

N1 #12

O1 #12

P1 #12

P2 #12

-3.1250%

3.9250%

STA 17+736.586
LOW WIRE ELEV= 537.739m
4 - POWER
1 - TELEPHONE

STA 17+768.069
LOW WIRE ELEV= 535.407m
3 - POWER
2 - TELEPHONE

STA. 17+465
= 300 mm CMP
FLOWS RIGHT
D.A. = 1.02 ha.

VC = 230.000 m.
K = 35
V = 80 km/h

STATION	17+465.308
STRUCTURE	450 mm RCP
SKEW	90°
DRAINAGE AREA	0.745 ha
DESIGN DISCHARGE(Q50)	0.161 m³/s
OVERTOPPING ELEV.	531.476
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	531.644
Q100 HEADWATER ELEV.	531.655
VELOCITY (Q50)	0.86 m/s
INLET ELEVATION	529.363
OUTLET ELEVATION	526.707
STANDARD DRAWING NUMBERS	DM-PB-1
INLET DRAWING NUMBERS	DM-PE-4BA
OUTLET DRAWING NUMBERS	DM-PB-3BA

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 17+460 TO STA. 17+840
SCALE: 1:500 HORIZ.
1:50 VERT.

24-FEB-2010 14:25
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION 4/10/02: ADDED CLASS "B" RIP-RAP TO THE END OF BOX CULVERT AT STA. 17+887.6.
REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME, DEED BOOK AND PAGE ON TRACT NO. 77.
REVISION: 11/10/06 CHANGED EASEMENT LABEL FROM SLOPE EASEMENT TO DRAINAGE EASEMENT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	15
CONST.	2009	18006-3210-04	15

(76) V.F.W. POST 5025

(78) CASTO GREENE AND WIFE GENEVA
143 OLD HWY CIRCLE
CROSSVILLE TN 38555

(9) CUMBERLAND MOUNTAIN ST. PARK

17+900
18+000
18+100
18+200

FOR CONST. FIELD REVIEW ONLY

TIE SPECIAL DITCH INTO EXISTING DRAINAGE CHANNEL

STA. 18+104.7200 SURV. C.L.= STA. 1+900.000 EAST LANE RD.
N 176364.0154
E 690590.1952

SEE SHEET NO. 14
SEE SHEET NO. 16
STA. 17+840
STA. 18+220
MATCH LINE

PRESENT & PROP. R.O.W.
V-ROCK
SLOPE LINE
CONST. EASEMENT
DRAINAGE EASEMENT
TRAILER
GR. PK.
GRASS
STA. 17+887.6
PROP. 60.9 m OF 3.66 m X 3.66 m SLAB CULV.
SKEW 60° RT.
WWC-15B
375mm CMP
CONC. DITCH
P/T/CATV
PROP. 14M @ 450mm RCP
INV. 534.351m
INV. 535.314m
EW
WWC-15
375mm RCP
300mm RCP
300mm CMP
450mm CMP
3-WM's
PRES. ROW
PROP R.O.W.
POND
THREE MILE CREEK

(79) CASTO GREENE AND WIFE GENEVA
(77) PIERRE K. BERRY AND WIFE, DONNA J. BERRY
(80) ROBERT BOALICK JR.
(81) UNKNOWN
(82) RANDY L. PUGH
(83) MARGRET SHROYER AND ROBERT BILBREY

1- F. RES.
2- F. RES.
SHED
TRAILER

CURVE DC28105
PI 178+41.002
N 176,157.3679
E 690,756.0062
Δ 10° 12' 25" (LT)
R 2,600.000
L 463.177
T 232.203
SE
DESIGN SPEED
TRANS. LENGTH

2+004.378
N 176425.7291
E 6906741.3742

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 17+840 TO STA. 18+220
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME, DEED BOOK AND PAGE ON TRACT NO. 77.
REVISION: 11/10/06 CHANGED EASEMENT LABEL FROM SLOPE EASEMENT TO DRAINAGE EASEMENT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	15A
CONST.	2009	18006-3210-04	15A

76
V.F.W. POST 5025
78
CASTO GREENE AND WIFE GENEVA
143 OLD HWY CIRCLE
CROSSVILLE TN 38555
17+900
13.495 m (44.275')
S76°05'30"W
30.721 m (100.789')
S55°22'42"W
53.889 m (176.799')
S19°34'17"W
N34°3'14"W
36.393 m
(119.40')
17+865.696
39.439m
(129.39')
PRESENT & PROP. R.O.W.
16.960 m (55.64')
S10°21'55"W
17+902.554
39.091m
(128.25')
17+914.593
26.993m
(88.56')
SEE SHEET NO. 14A
STA. 17+840
MATCH LINE
N33°56'49"W
73.573 m
(241.38')
17+901.769
21.707m
(71.707')
11.656 m (38.241')
N34°08'36"E
N36°4'35"W
65.362 m
(214.44')
17+966.579
22.425m
(73.57')
PRESENT & PROP. R.O.W.
9.703 m (31.834')
N02°13'11"W
20.743 m (68.056')
N15°04'09"W
17+974.519
27.891m
(91.51')
17+993.555
35.573m
(116.71')
35.401 m (116.145')
N20°17'39"W
CONST.
EASEMENT
DRAINAGE
EASEMENT
SEE INSET P
PIERRE K. BERRY AND WIFE, DONNA J. BERRY
77
N16°25'31"E
79
CASTO GREENE AND WIFE GENEVA
18+026.871
45.976m
(150.84')
PRESENT & PROP. R.O.W.
18.568 m (60.920')
N29°19'35"W
18+069.122
54.104m
(177.51')
18+060.590
52.684m
(172.85')
L=5.911 m (19.392')
R=4.960 m (16.272')
18+091.965
56.721m
(186.09')
23.051 m (75.626')
N32°13'11"W
ROBERT BOALICK JR.
80
UNKNOWN
81
58.257 m (191.113')
N29°19'22"E
SLOPE
LINE
18+108.009
32.774 m
(107.53')
N10°6'23"W
9.100 m
(29.86')
18+115.996
28.383 m
(93.12')
N40°40'58"W
23.127 m
(75.88')
18+139.110
29.116 m
(95.52')
N27°46'29"W
21.978 m
(72.11')
18+160.687
24.984 m
(81.97')
N32°52'44"W
13.771 m
(45.18')
S79°53'37"W
8.000 m
(26.25')
18+104.175
25.723 m
(84.39')
S10°6'26"E
3.851 m
(12.63')
18+107.555
23.877 m
(78.33')
S38°29'8"E
66.832 m
(219.24')
18+173.436
23.576 m
(77.35')
INSET O
18+000
18+100
18+200
CUMBERLAND MOUNTAIN STATE PARK
9
STA. 18+104.7200 SURV. C.L.=
STA. 1+900.000 EAST LANE RD.
DRAINAGE
EASEMENT
SEE INSET O
CONST.
EASEMENT
L=236.784 m (776.847')
R=3474.476 m (11399.17')
109.374 m (358.836')
N38°46'19"W
18+152.919
23.566m
(77.32')
SLOPE
LINE
18+143.289
47.258m
(155.04')
18+183.349
34.542m
(113.33')
18+200.915
26.145m
(85.78')
18+208.676
12.887m
(42.28')
PRES. ROW
PROP R.O.W.
S81°36'5"W
15.363 m
(50.40')
DRAINAGE
EASEMENT
SEE SHT 16A
42.030 m (137.894')
N55°21'16"W
N54°17'22"W
19.270 m (63.220')
18+095.136
61.054m
(200.31')
34.809 m (114.203')
N53°17'58"W
PRESENT & PROP. R.O.W.
18+109.597
56.007m
(183.75')
48.946 m (160.584')
N35°20'33"E
82
RANDY L. PUGH
83
MARGRET SHROYER AND ROBERT BILBREY
N38°54'17"W
MATCH LINE
STA. 18+220
SEE SHEET NO. 16A
N36°25'31"E
17+828.799
21.397 m
(70.20')
N33°56'49"W
73.025 m
(246.14')
17+901.769
21.707 m
(71.22')
S35°4'35"E
55.329 m
(181.51')
17+956.628
22.287 m
(73.12')
S5°22'8"E
3.500 m
(11.48')
17+831.862
23.042 m
(75.80')
17+859.506
34.360 m
(112.73')
17+881.774
33.205 m
(108.94')
17+913.092
40.614 m
(133.24')
S11°42'44"E
30.153 m
(98.93')
S37°14'15"E
22.586 m
(74.10')
S13°55'38"E
16.119 m
(52.80')
17+896.637
38.925 m
(127.71')
N29°17'20"W
8.422 m
(27.63')
17+904.892
39.759 m
(130.44')
N29°17'20"W
8.370 m
(27.46')
S58°18'16"E
47.721 m
(156.56')
INSET P

FOR CONST.
FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

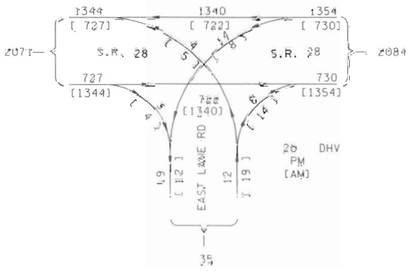
STA. 17+840 TO STA. 18+220
S.R. 28 / U.S. 127
SCALE: 1:500

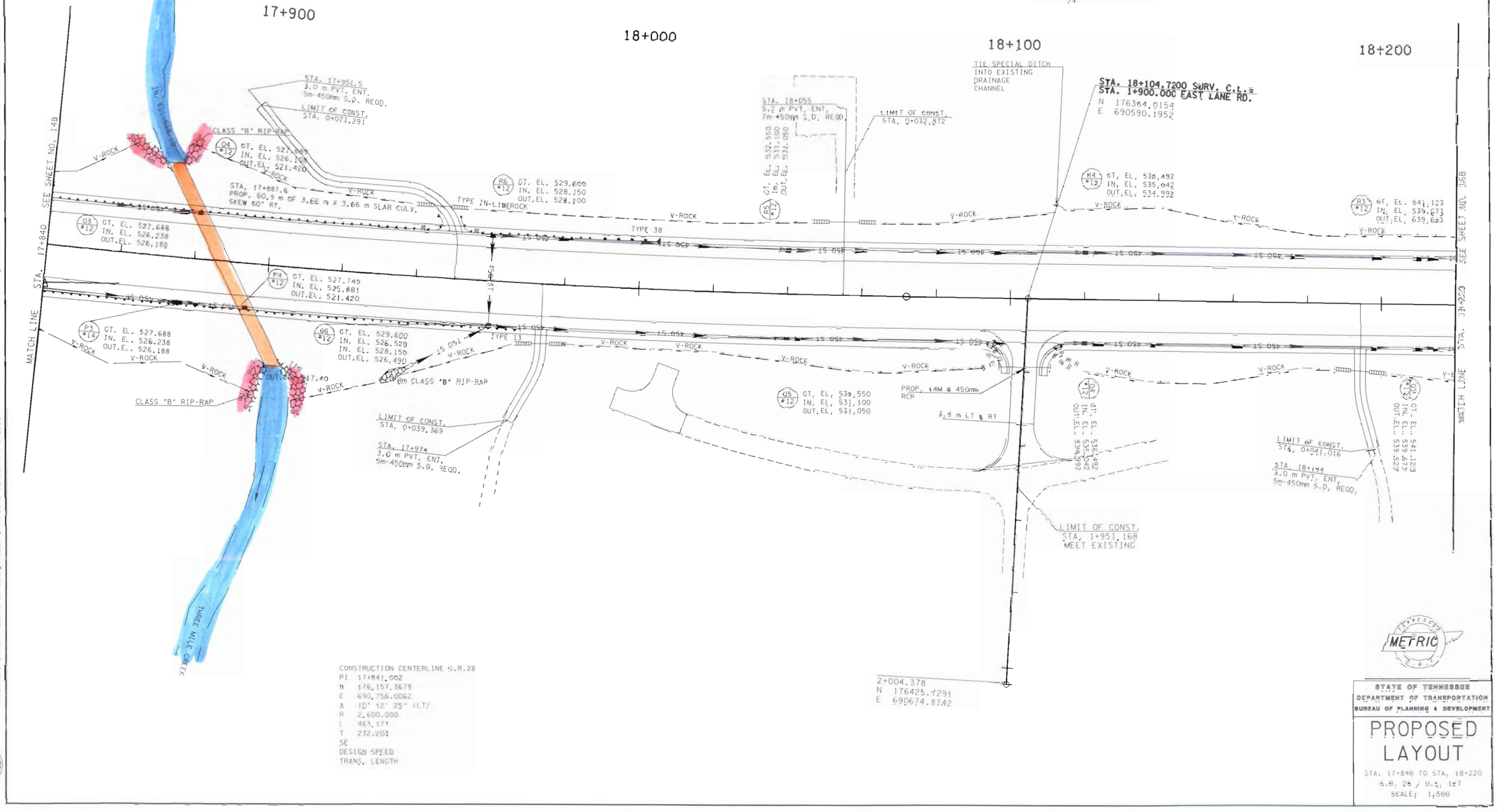
Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	15B
CONST.	2009	18006-3210-04	15B





METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 17+840 TO STA. 18+220
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	15
CONST.	2009	18006-3210-04	15

VC = 205.0750 m
K = 25
V = 70 km/h

STA 17+985.591
LOW WIRE ELEV= 536.559m
1 - TELEPHONE

STA 17+995.628
LOW WIRE ELEV= 533.606m
1 - POWER
1 - CATV

VPI 18+002.54
EL. 531.0932

VPI 17+900.00
EL. 526.0000

VPI 18+167.00
EL. 539.1580

VPI 18+178.00
EL. 539.7000

STA. 18104.72200 SIDE ST. LANE RD.
STA. 1+900.000 EAST LANE RD.

FINISHED GRADE

PROP. 5m-450mm SIDE-DRAIN

PROP. 12m-450mm SIDE-DRAIN

PROP. 7m-450mm SIDE-DRAIN

PROF. 5m-450mm SIDE-DRAIN

EXISTING G.L.

-4.928%

-4.540%

-4.928%

-5.000%

STA. 18+122
375 mm CMP
FLOWS LEFT
D.A. = 2.07 ha.

NORMAL CROWN

MATCH LINE STA. 18+220 SEE SHEET NO. 15C

MATCH LINE STA. 17+840 SEE SHEET NO. 14C

WOODS

WOODS

CLEAR

STATION	17+882.6
STRUCTURE	60.7m-1@3.66x3.66m SLAB CULV.
SKEW	60°
DRAINAGE AREA	6.81 km²
DESIGN DISCHARGE(Q100)	33.0 m³/s
DISCHARGE(Q500)	44.3 m³/s
OVERTOPPING ELEV.	528.000
Q500 HEADWATER ELEV.	522.16
Q100 HEADWATER ELEV.	521.42
VELOCITY (Q100)	2.93 m/s
INLET ELEVATION	518.10
OUTLET ELEVATION	517.40
STANDARD DRAWING NUMBERS	STD-15-100, STD-15-101

STA. 17+880
BRIDGE OVER THREE MILE CREEK
PLANS REF. F-028-1(17)
SK. 75-1
FLOWS RIGHT
D.A.= 850 ha.

INV EL. 520.49

OHW EL. 518.33

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 17+840 TO STA. 18+220
SCALE: 1:500 HORIZ.
1:50 VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	16
CONST.	2009	18006-3210-04	16

REVISION 1/06/03: INCREASED SIZE OF FIELD ENTRANCE RT. OF STA. 18+287 FROM 3 TO 9m.

REVISION 3/20/07: ADDED BUSINESS ENTRANCE RT. STA:18+323.77:

REVISION 11/02/07: MOVED PRIVATE DR. RT. FROM STA. 18+393 TO STA. 18+398. CHANGED CONSTRUCTION EASEMENT ON TRACT NO. 87.

18+300 18+400 18+500

(9) CUMBERLAND MOUNTAIN STATE PARK

(85) STATE OF TENNESSEE

2- BL. TENNESSEE DEPT. OF TRANS. DISTRICT 23

GR. PK.

FLAG

ASPH. PK.

6.4 m ASPH.

PRESENT & PROP. R.O.W.

V-ROCK

V-ROCK CONC. DITCH

GRASS

CONST EASEMENT

SLOPE EASEMENT

CONST EASEMENT

300mm RCP

300mm CMP

CONC. DITCH

INV. 547.343m

INV. 549.135m

600mm RCP

PRESENT R.O.W.

PROP. R.O.W.

6.9 m ASPH.

DRAINAGE EASEMENT

CROSSVILLE MARINE

1- BL. BUS.

1- F. RES.

1- F. GAR.

1- METAL GAR.

1- BL. GAR.

SLOPE EASEMENT

CONST EASEMENT

ASPH. PK.

GRASS

FLAG

1- BR. BUS.

(83) MARGRET SHROYER AND ROBERT BILBREY

(84) HERSCHELL L. BECKER, ET UX & JEFFREY L. BECKER, ET UX

(86) ROBERT PARSONS ETAL

(87) ROY ALLRED AND WIFE THELMA

(88) BURRIS FUNERAL HOME, INC.

(89) J. LESLIE MEDGECOTH AND OTHERS

MATCH LINE STA. 18+220

MATCH LINE STA. 18+600

SEE SHEET NO. 15

SEE SHEET NO. 17

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR (.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 18+220 TO STA. 18+600
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

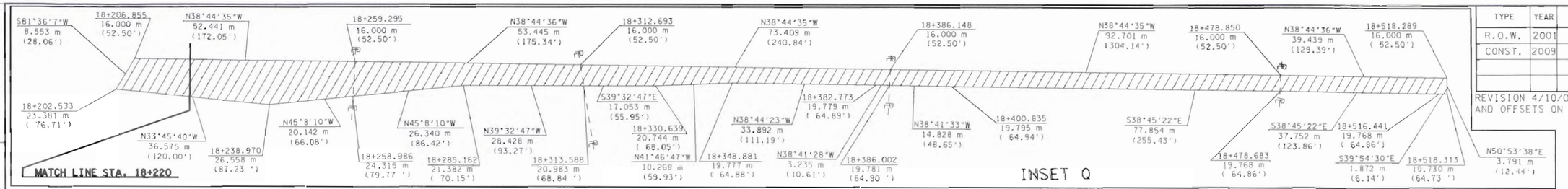
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	16A
CONST.	2009	18006-3210-04	16A

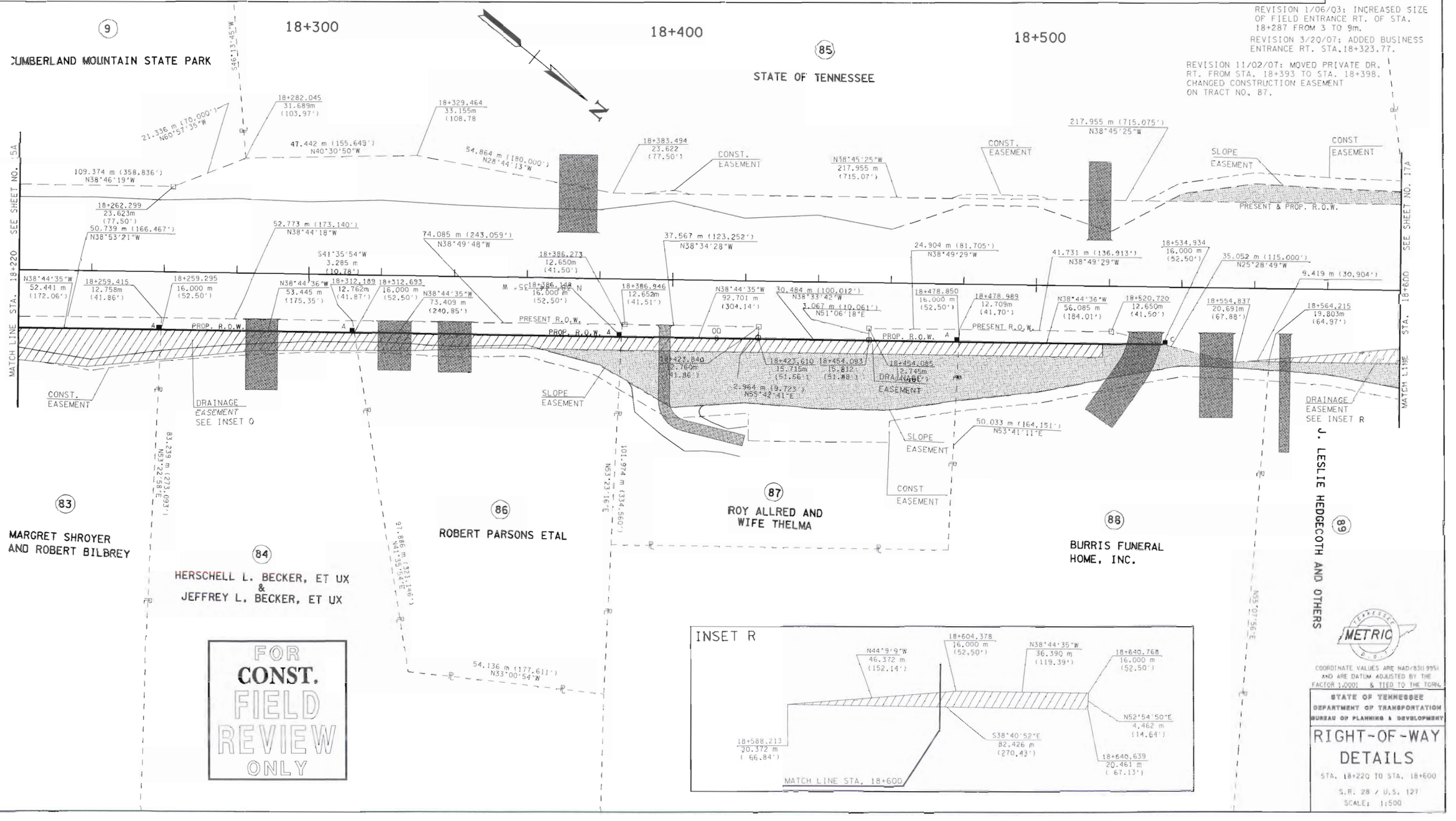
REVISION 4/10/02: CORRECTED STA. AND OFFSETS ON INSET M.

REVISION 1/06/03: INCREASED SIZE OF FIELD ENTRANCE RT. OF STA. 18+287 FROM 3 TO 9m.

REVISION 3/20/07: ADDED BUSINESS ENTRANCE RT. STA.18+323.77.

REVISION 11/02/07: MOVED PRIVATE DR. RT. FROM STA. 18+393 TO STA. 18+398. CHANGED CONSTRUCTION EASEMENT ON TRACT NO. 87.





(83)
MARGRET SHROYER AND ROBERT BILBREY

(84)
HERSCHELL L. BECKER, ET UX & JEFFREY L. BECKER, ET UX

(86)
ROBERT PARSONS ETAL

(87)
ROY ALLRED AND WIFE THELMA

(88)
BURRIS FUNERAL HOME, INC.

(89)

FOR CONST. FIELD REVIEW ONLY

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 18+220 TO STA. 18+600

S.R. 28 / U.S. 127

SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	16B
CONST.	2009	18006-3210-04	16B

REVISION 1/06/09: INCREASED SIZE OF FIELD ENTRANCE RT. OF STA. 18+287 FROM 3 TO 9m.

REVISION 3/20/09: ADDED BUSINESS ENTRANCE RT. STA. 18+323.77.

REVISION 11/02/09: MOVED PRIVATE DR. RT. FROM STA. 18+393 TO STA. 18+398 AND CATCH BASIN Q1 TO STA. 18+401.43.

N

18+300

18+400

18+500

STA. 18+374
10.0 m BUS. ENT.
11m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+034.734

STA. 18+517
6.4 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+014.228

R2 #12 GT. EL. 545.975
IN. EL. 544.524
OUT.EL. 544.474

R1 #12 GT. EL. 549.650
OUT.EL. 548.200

V-ROCK

450 SI

SEE SHEET NO. 15B

SEE SHEET NO. 17B

STA. 18+220

STA. 18+600

MATCH LINE

N 38° 44' 35" W

Q2 #12 GT. EL. 545.975
IN. EL. 544.524
OUT.EL. 544.474

LIMIT OF CONST.
STA. 0+032.208

STA. 18+287
9.0 m FLD. ENT.
10m-450mm S.D. REQD.

LIMIT OF CONST.
0+026.342

STA. 18+323.77
9.0 m BUS. ENT.
13.2m-450mm S.D. REQD.

FILL DITCH TO COVER PROP. SIDEDRAIN PIPE AND DRAIN TOWARD UTILITY STRIP

LIMIT OF CONST.
STA. 0+026.437

STA. 18+340
9.0 m BUS. ENT.
13.2m-450mm S.D. REQD.

Q1 #12 GT. EL. 549.680
OUT.EL. 548.230

LIMIT OF CONST.
STA. 0+060.000

STA. 18+398
3.0 m PVT. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+040.227

STA. 18+530
9.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+036.021

STA. 18+550
9.0 m BUS. ENT.
NO S.D. REQD.

STA. 18+586.5
3.0 m PVT. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+045.359

FOR CONST. FIELD REVIEW ONLY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 18+220 TO STA. 18+600
S.R. 28 / U.S. 127
SCALE: 1:500

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Surrey & Davis Associates

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
A.D.W.	2001	18006-2210-04	16
CONST:	2009	18006-3210-04	16

REVISION 3/20/07: ADDED SIDEDRAIN STA. 18+318.77 TO 18+345.18
REVISION 11/02/07: MOVED CATCH BASIN D1 TO STA. 18+401.93 AND SIDEDRAIN FROM STA. 18+393 TO STA. 18+398.

MATCH LINE STA. 18+220 SEE SHEET NO. 15C

MATCH LINE: STA. 18+600 SEE SHEET NO. 17C

VPC 18+265.00
EL. 544.5203

VPI 18+400.00
EL. 552.0000

VPT 18+535.00
EL. 551.4808

-0.5846%

5.5405%

PROP. 5m-450mm SIDE-DRAIN

PROP. 10m 450mm SIDE DRAIN
FINISHED GRADE

EXISTING G.L.

PROP. 26.4m-450mm SIDE-DRAIN

PROP. 5m-450mm SIDE-DRAIN

PROP. 5m-450mm SIDE-DRAIN

D1 #12

R1 #12

D2 #12

R2 #12

STA. 18+555
ROAD TO GMP
FLOWS LEFT
D.A. = 0.65 ha.

VC = 270.0000 m
K = 46
V = 90 km/h

NORMAL CROWN

18+220 18+240 18+260 18+280 18+300 18+320 18+340 18+360 18+380 18+400 18+420 18+440 18+460 18+480 18+500 18+520 18+540 18+560

559 558 557 556 555 554 553 552 551 550 549 548 547 546 545 544 543 542 541 540 539 538 537 536 535 534

METRIC

FOR CONST. FIELD REVIEW ONLY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 18+220 TO STA. 18+600
SCALE: 1:500 HORIZ.
1:50 VERT.

Survey & Design Division

24-FEB-2010 14:27
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 02/26/07: ADDED PARK TRACE DRIVE LT. P.L. STA. 18+917.820.

REVISION: 05/22/07: ADDED PERMANENT AND TEMPORARY WETLAND IMPACT FOR AREA W-1.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	17
CONST.	2009	18006-3210-04	17

REVISION: 11/27/01: ADDED PROPERTY LINE AND STA. OFFSET FOR TRACT NO.85.

REVISION: 08/05/02: DELETED 6m BUSINESS ENTRANCE LEFT AT STA. 18+618.5. ADDED 6m BUSINESS ENTRANCE LEFT AT STA. 18+650.012.

REVISION: 05/12/03: DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+727. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+721. DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+753.5. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+751.

THOMAS R TAYON AND WIFE KATHLEEN

90

GENE BURRIS AND WIFE URSA JEAN

91

600

18+700

18+800

18+900

SHED

SHED

CAR.

93

ILLA RUTH POTEET

2- STONE RES.

1- F. BUS.

1- F. BUS.

1- F. BUS.

WOOD CHAIN S/W

1- BR. MALL

METAL BLDG.

GRASS

CONST. EASEMENT

SEE SHEET NO. 16

SEE SHEET NO. 18

STA. 18+600

STA. 18+960

MATCH LINE

PRES. & PROP. R.O.W.

203

W

GRASS

EW

INV. 549.31

PROP. 3.08-450 mm RCP

PROP. 25.5m 450 mm RCP

INV. 547.15m

37.5m RCP

INV. 547.15m

EW INV. 549.31

PRES. R.O.W.

PROP. R.O.W.

102

G

P/T/CATV

GRASS

CONC. DITCH

EW 300mm CMP

10.0 ASPH.

ASPH. PK.

1- STONE MOTEL

1- BR. RES.

P/T

DRAINAGE EASEMENT

SLOPE EASEMENT

CONST. EASEMENT

SLOPE LINE

SUU104 EL-1798.37

SUU103 EL-1798.58 3' WIDE

P.L. STA. 18+917.820 S.R. 28 C.L.=
STA. 0+000.00 PARK TRACE DR.

94

JACK L. LOONEY AND OTHERS

PERMANENT WETLAND IMPACT= 0.0896 ha

TEMPORARY WETLAND IMPACT= 0.0079 ha

92

SURESH PATEL, ET UX

89

J. LESLIE HEDGECOTH AND OTHERS

END FENCE

18+955±

CONSTRUCTION CENTERLINE S.R.28
PI 18+772.922
N 176,885.1871
E 650,172.0145
Δ 7° 38' 11" SLT
R 1,746.336
L 232.751
T 116.551
SE
DESIGN SPEED
TRANS. LENGTH

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1997) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TDRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 18+600 TO STA. 18+960
S.R. 28 / U.S. 127
SCALE: 1"=50'

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 02/26/07: ADDED PARK TRACE DRIVE LT. P.L. STA. 18+917.820.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	17A
CONST.	2009	18006-3210-04	17A

REVISION: 11/27/01: ADDED PROPERTY LINE AND STA. OFFSET FOR TRACT NO.85.

REVISION: 08/05/02: DELETED 6m BUSINESS ENTRANCE LEFT AT STA. 18+618.5. ADDED 6m BUSINESS ENTRANCE LEFT AT STA. 18+650.012.

REVISION: 05/12/04: DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+727. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+721. DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+753.5. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+751.

FOR CONST. FIELD REVIEW ONLY

THOMAS R TAYON AND WIFE KATHLEEN
(90)
GENE BURRIS AND WIFE URSA JEAN
(91)
(93)
ILLA RUTH POTEET
18+700
18+800
18+900
STA. 18+600 SEE SHEET NO. 16A
STA. 18+960 SEE SHEET NO. 18A
MATCH LINE
18+601.449
23.675m
(77.50')
54.398 m (178.472')
N38°45'25"W
18+655.848
23.688m
(77.72')
18+734.078
23.699m
(77.72')
18+889.490
23.688m
(77.72')
SLOPE LINE
CONST. EASEMENT
82.042 m (269.167')
N46°22'56"W
R=1728.088 m (5669.569')
L=77.176 m (253.201')
L=153.309 m (502.980')
R=1728.088 m (5669.569')
PRES. & PROP. R.O.W.
18+640.868
12.545m
(41.16')
18+759.921
13.254m
(43.48')
18+767.432
12.625m
(41.42')
7.493 m (24.582')
N47°04'48"W
18+889.490
12.888m
(42.28')
N46°22'47"W
131.264 m
(430.66')
34.527 m (113.278')
N44°09'10"W
N38°44'35"W
36.390 m
(119.39')
18+604.378
16.000 m
(52.50')
S44°8'46"E
2.126 m
(6.98')
PRES. R.O.W.
PROP. R.O.W.
18+640.768
16.000 m
(52.50')
15.240 m (50.000')
N52°54'49"E
51.025 m (167.403')
N47°04'48"W
18+709.608
18.379m
(60.30')
18+766.987
16.000 m
(52.50')
R=1762.398 m
L=123.261 m
(R=5782.14')
(L=404.40')
123.023 m (403.618')
N24°15'53"W
18+889.128
16.000 m
(52.50')
131.485 m (431.380')
N46°24'26"W
18+606.496
15.80m
(51.84')
DRAINAGE EASEMENT SEE SHT. 16A
70.477 m (231.224')
N47°04'48"W
PRES. & PROP. R.O.W.
18+640.427
27.778m
(91.14')
SLOPE EASEMENT
CONST. EASEMENT
18+731.168
16.000 m
(52.50')
18+759.652
16.000 m
(52.50')
38.266 m (125.545')
N47°06'28"E
42.067 m (137.945')
N53°30'24"E
S53°30'24"E
DRAINAGE EASEMENT SEE INSET S
CONST. EASEMENT
SUU104
EL-1798.37
SUU103
EL-1798.58
P.L. STA. 18+917.820 S.R. 28 C.L.=
STA. 0+000.00 PARK TRACE DR.
(89)
J. LESLIE HEDGECOTH AND OTHERS
(92)
SURESH PATEL, ET UX
(94)
JACK L. LOONEY AND OTHERS

INSET S

SEE SHT. 18A FOR CONTINUATION

18+696.308
19.985 m
(65.57')
N47°8'48"W
35.444 m
(116.29')
18+731.168
16.000 m
(52.50')
N41°39'52"W
28.744 m
(94.30')
18+759.652
16.000 m
(52.50')
S42°15'5"E
7.402 m
(24.29')
18+766.987
16.000 m
(52.50')
R=1762.398 m
L=123.260 m
(R=5782.13')
(L=404.40')
18+889.128
16.000 m
(52.50')
N46°22'46"W
131.263 m
(430.65')
19+020.391
16.000 m
(52.50')
N40°35'43"W
13.516 m
(44.34')
18+709.672
19.909 m
(65.32')
N40°35'43"W
50.114 m
(164.42')
18+759.210
20.529 m
(65.35')
N40°35'43"W
5.984 m
(19.63')
18+765.727
20.698 m
(67.91')
18+766.502
20.768 m
(68.14')
N39°27'53"W
1.399 m
(4.59')
N39°27'45"W
33.531 m
(110.01')
18+799.561
22.778 m
(74.73')
S44°5'15"E
34.005 m
(111.57')
18+833.129
22.271 m
(73.07')
S46°14'25"E
74.556 m
(244.61')
18+906.966
21.992 m
(72.15')
S42°15'5"E
54.270 m
(178.05')
18+961.095
25.900 m
(84.97')
S45°0'52"E
28.062 m
(92.07')
N47°43'44"W
29.435 m
(96.57')
18+989.149
26.569 m
(87.17')
19+018.571
25.902 m
(84.98')
S47°43'44"E
45.434 m
(149.06')
MATCH LINE STA. 18+960

METRIC

COORDINATE VALUES ARE (NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 18+600 TO STA. 18+960

S.R. 28 / U.S. 127

SCALE: 1:500

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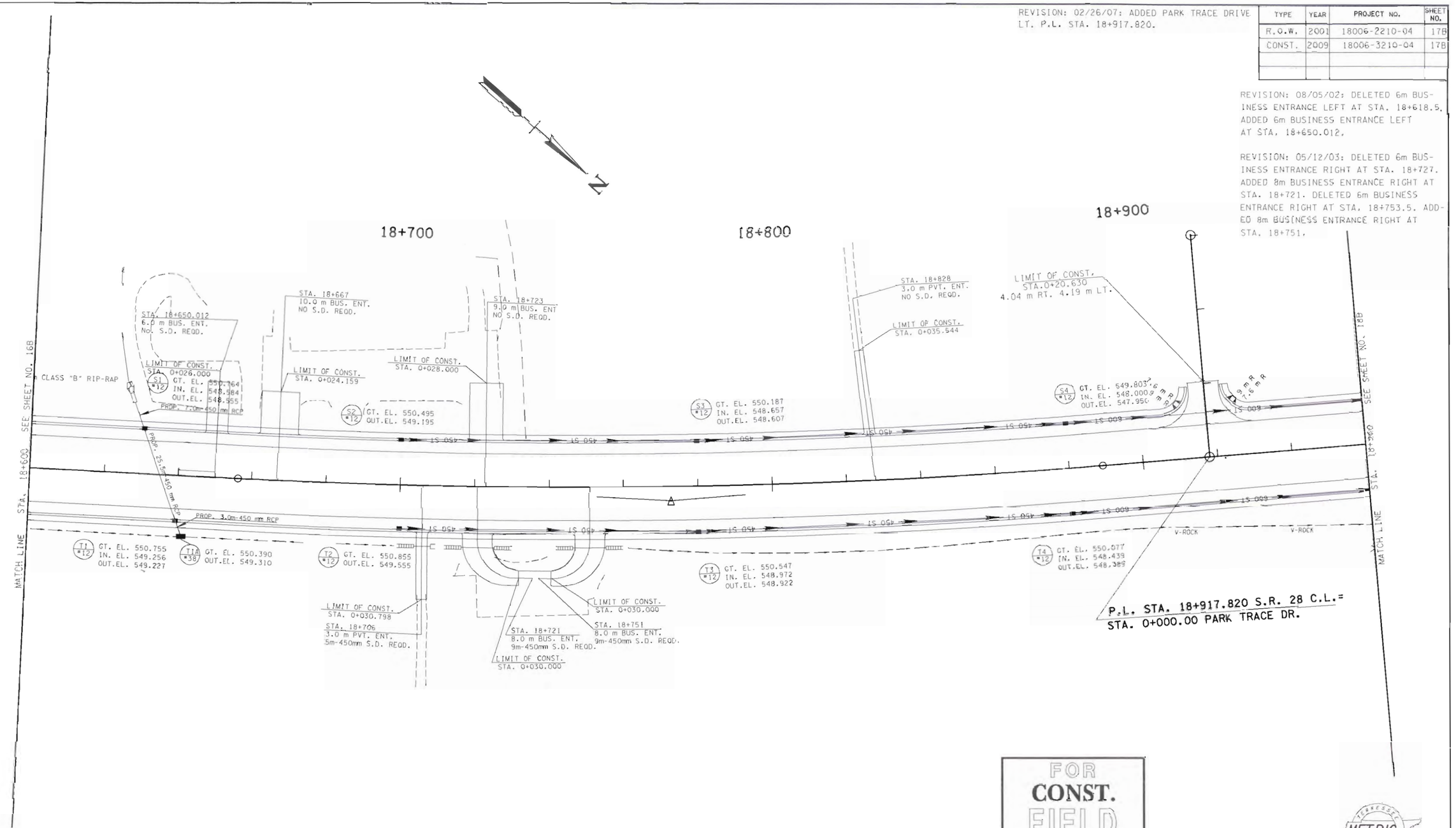
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION: 02/26/07: ADDED PARK TRACE DRIVE LT. P.L. STA. 18+917.820.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	17B
CONST.	2009	18006-3210-04	17B

REVISION: 08/05/02: DELETED 6m BUSINESS ENTRANCE LEFT AT STA. 18+618.5. ADDED 6m BUSINESS ENTRANCE LEFT AT STA. 18+650.012.

REVISION: 05/12/03: DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+727. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+721. DELETED 6m BUSINESS ENTRANCE RIGHT AT STA. 18+753.5. ADDED 8m BUSINESS ENTRANCE RIGHT AT STA. 18+751.



CONSTRUCTION CENTERLINE S.R.28
PI 18+772.922
N 176,885.1871
E 690,172.0145
Δ 7° 38' 11" (LT)
R 1,746.376
L 232.757
T 116.451
SE
DESIGN SPEED
TRANS. LENGTH

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

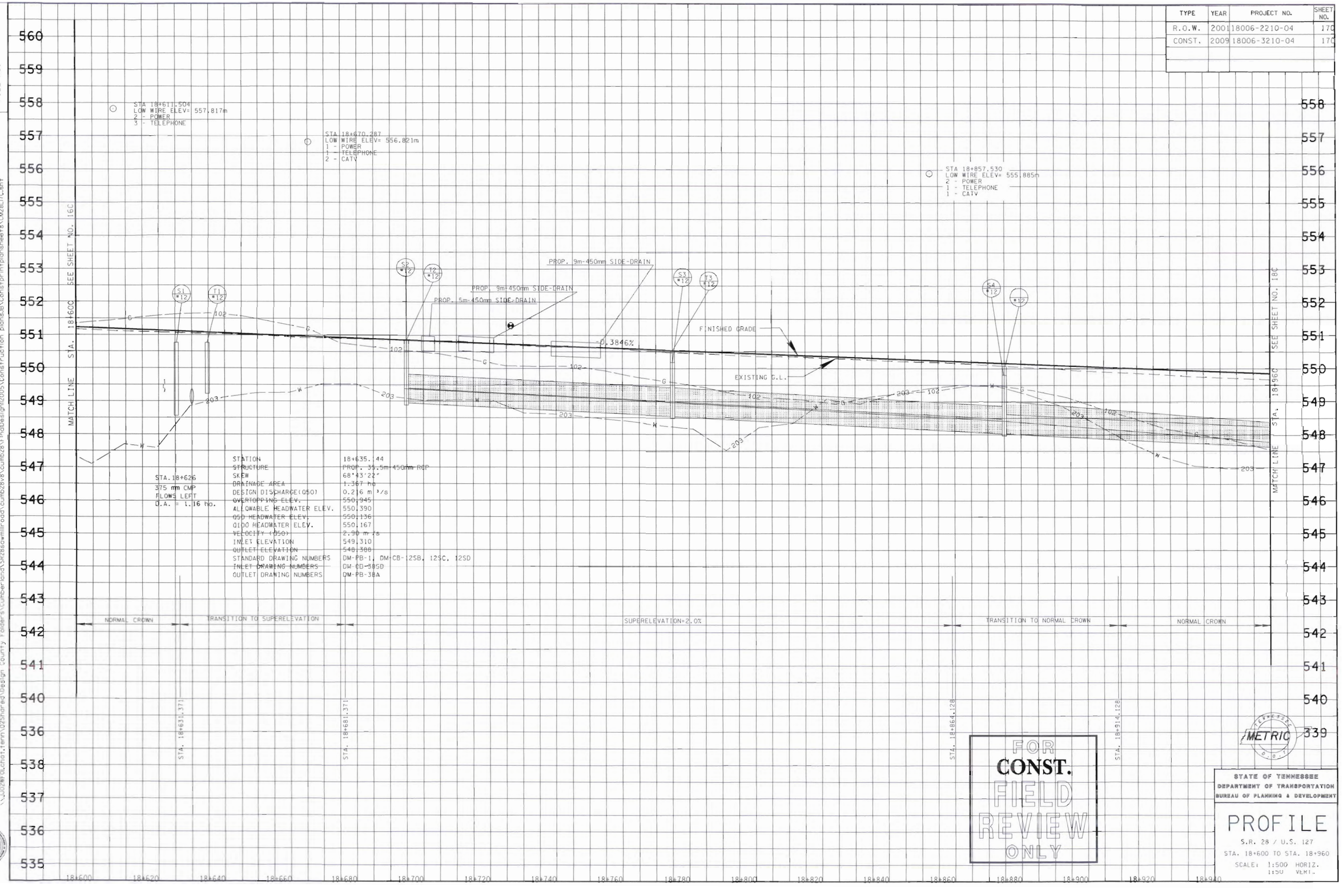
STA. 18+600 TO STA. 18+960
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	17C
CONST.	2009	18006-3210-04	17C



FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 18+600 TO STA. 18+960
SCALE: 1:500 HORIZ.
1:50 VERT.

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2216-04	18
CONST.	2009	18006-3210-04	18

REVISION: 05/22/07: ADDED PERMANENT AND TEMPORARY WETLAND IMPACT FOR AREA W-1.

CITY LIMITS

1- F. STORAGE

TENNIS COURT

VOLLEYBALL COURT

1- F. RES.

1- STONE & F. CHURCH

19+000

19+100

19+200

19+300

4+100

93
ILLA RUTH POTEET

GRASS

DRAINAGE EASEMENT

GR. PK.

ASPH. PK.

ASPH. PK.

PRESENT & PROP. R.O.W.

PROP. 6.7m-1050 mm RCP

INV. 547.594m

450mm CMP

375mm CMP

381mm CMP

INV=550.191

INV=550.464

23.711
19+244.503

N43°41'43"E

SEE SHEET NO. 17

SEE SHEET NO. 19

STA. 18+960

STA. 19+320

MATCH LINE

STREAM 5

CONC. DITCH

PRES. R.O.W.

PROP. R.O.W.

CROSSVILLE CITY LIMITS

STREAM 5 C/L

BEGIN RIP-RAP 18+934

END RIP-RAP 19+193

WETLAND
2833 m2
0.2833 ha
W-1

CONST. EASEMENT

DRAINAGE EASEMENT

CONST EASEMENT

PERMANENT WETLAND
IMPACT= 0.0896 ha

TEMPORARY WETLAND
IMPACT= 0.0079ha
SEE EROSION
CONTROL PLANS

GATE

3' WIDE

BRICK/IRON FENCE
3' WIDE & 10' HT.

19+267.307 SURV. C.L.=
4+200.000 GRAHAM LANE
N 1119220.4088
E 689843.9677

2.5' STONE RET. WALL

94
JACK L. LOONEY
AND OTHERS

96
JACK L. LOONEY & OTHER

BARN

BARN

CARPORT

SHED

98
VIRGIE O. DENTON

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 18+960 TO STA. 19+320
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	18A
CONST.	2009	18006-3210-04	18A

FOR CONST. FIELD REVIEW ONLY

INSET T

N60°54'59"W 3.794 m (12.45')
18+977.514 41.049 m (134.74')
N60°54'59"W 4.206 m (13.80')
18+967.842 42.097 m (138.1')
18+975.586 44.105 m (144.7')
N28°55'38"E 14.534 m (47.68')
N28°55'39"E 21.102 m (69.23')
18+971.528 28.038 m (91.99')
18+980.938 23.692 m (77.73')
N28°55'38"E 4.492 m (14.74')
18+972.668 23.692 m (77.73')
S46°22'56"E 8.270 m (27.13')

19+000 19+100 19+200 19+300 4+100

CUMBERLAND TRINITY TABERNACLE, INC.

95

97 J.H. GRAHAM AND OTHERS

93 ILLA RUTH POTEET

CROSSVILLE CITY LIMITS N43°53'22"E

3 m CONST EASEMENT

DRAINAGE EASEMENT SEE INSET T

18+971.532 23.692m (77.73')

SEE SHEET NO. 17A

STA. 18+960

PRESENT & PROP. R.O.W.

249.982 m (820.148') N46°22'56"W

19+199.942 23.703m (77.77')

N43°41'43"E 210.517 (690.67')

110.022 (360.96') N43°41'43"E

4+161.004 7.620

4+161.079 7.620

19+221.514 R=15.240 (50.00') L=23.914 (78.45') 23.703m (77.77')

21.572 m (70.774') N46°22'56"W

22.988 (75.42') N46°23'54"W

R=15.240 (50.00' L=23.964 (78.62'

206.810 m (678.506') N46°23'54"W

23.711 19+244.503

168.891 m (554.431') N46°24'02"W

19+276.760 12.949m (42.48')

SEE SHEET NO. 19A STA. 19+320

MATCH LINE

19+020.391 16.000 m (52.50')

19+020.975 12.842m (42.13')

PROP. R.O.W.

19+080.031 12.796m (41.98')

N46°22'46"W 255.870 m (839.47')

19+211.073 12.788m (41.93')

19+276.261 16.000 m (52.50')

131.485 m (431.380') N46°24'26"W

59.056 m (193.754') N46°24'26"W

PRESENT R.O.W. PROP. R.O.W.

131.042 m (429.925') N46°23'11"W

65.688 m (215.510') N46°13'56"W

PROP. R.O.W.

SLOPE EASEMENT

DRAINAGE EASEMENT SEE INSET S

CONST. EASEMENT

19+267.307 SURV. C.L.= 4+200.000 GRAHAM LANE N 177226.4908 E 689813.8677

CROSSVILLE CITY LIMITS N52°55'43"E

94 JACK L. LOONEY AND OTHERS

64.592 m (539.899') S34°02'15"W

96 JACK L. LOONEY & OTHER

98 VIRGIE O. DENTON

INSET S CONT.

SEE SHT 19A FOR CONTINUATION

N46°22'46"W 255.869 m (839.46')

N46°13'47"W 85.560 m (280.71')

19+276.261 16.000 m (52.50')

N46°22'46"W 188.903 m (619.76')

19+063.992 24.806 m (81.38')

S48°9'19"E 49.642 m (162.87')

19+113.610 23.267 m (76.34')

S48°4'48"E 47.695 m (156.48')

19+161.284 21.852 m (71.69')

S46°46'45"E 36.918 m (121.12')

19+198.201 21.595 m (70.85')

N47°8'34"W 77.318 m (253.67')

N47°8'33"W 8.242 m (27.04')

19+275.512 20.565 m (67.47')

19+283.754 20.455 m (67.11')

S46°20'33"E 185.974 m (610.15')

MATCH LINE STA. 19+320

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 18+960 TO STA. 19+320

S.R. 28 / U.S. 127

SCALE: 1:500

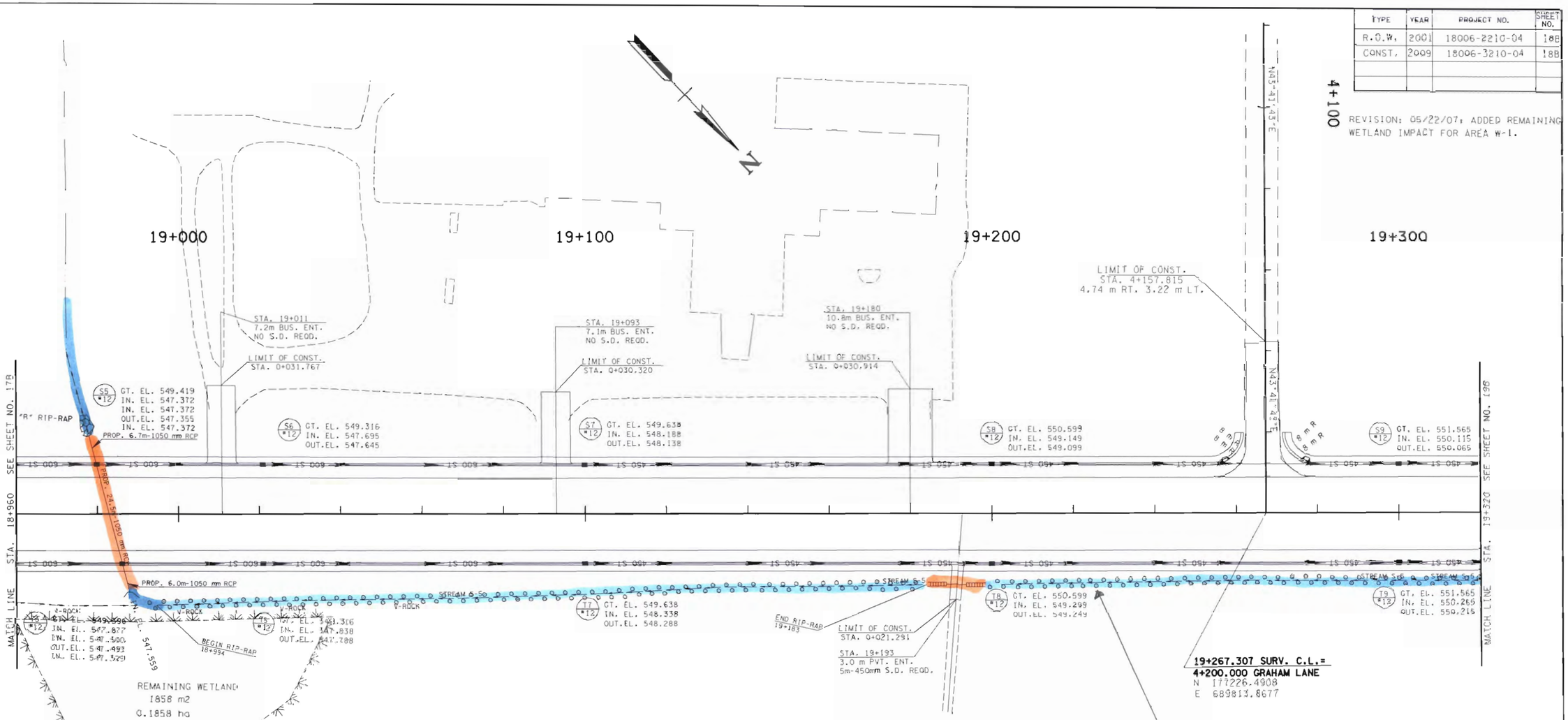
Survey & Design Division

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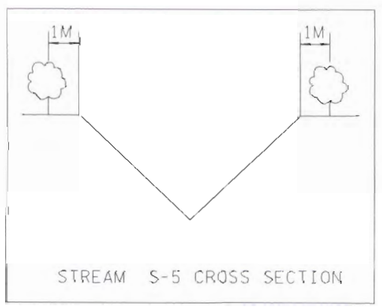
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	18B
CONST.	2009	18006-3210-04	18B

REVISION: 05/22/07; ADDED REMAINING WETLAND IMPACT FOR AREA W-1.



NOTE: RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE PROPOSED STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS.



802-13.03 Cephalanthus occidentalis (buttonbush) 2-5 ft in height, containerized
802-13.20 Calycanthus floridus (sweet shrub) 2-5 ft in height, containerized
802-13.06 Hydrangea quercifolia (oakleaf hydrangea) 2-5 ft in height, containerized
802-12.10 Sambucus canadensis (elderberry) 2-5 ft in height, containerized

Shrubs shall be planted on 10 ft. centers along both sides of the new channel.

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 18+960 TO STA. 19+320
S.R. 28 / U.S. 127
SCALE: 1:500

05-MAR-2010 08:40
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	18C
CONST.	2009	18006-3210-04	18C

NORMAL CROWN

VC = 120.0000 m
K = 89
V = 110 km/h

VPC 18+990.00
EL. 549.7308

VPT 19+110.00
EL. 550.0800

STA 19+224.037
LOW WIRE ELEV= 558.332m
4 - POWER

STA 19+217.737
LOW WIRE ELEV= 557.725m
1 - TELEPHONE

MATCH LINE STA. 18+960 SEE SHEET NO. 17C

MATCH LINE STA. 19+320 SEE SHEET NO. 19C

FINISHED GRADE

EXISTING G.L.

0.5946%

0.9665%

PROP. 5m-450mm SIDE-DRAIN

STA 18+983
900 mm CMP
FLOWS LEFT
D.A. = 1.81 ha.

STATION	18+983.016
STRUCTURE	PROP. 37.2m-1050mm RCP
SKEW	75° 19' 25"
DRAINAGE AREA	8.735 ha
DESIGN DISCHARGE (Q50)	0.885 m³/s
OVERTOPPING ELEV.	549.581
ALLOWABLE HEADWATER ELEV.	549.500
Q50 HEADWATER ELEV.	548.451
Q100 HEADWATER ELEV.	549.295
VELOCITY (Q50)	3.07 m/s
INLET ELEVATION	547.559
OUTLET ELEVATION	547.301
STANDARD DRAWING NUMBERS	DM-PB-1, DM-CB-12SB, 12SC, 12SD
INLET DRAWING NUMBERS	DM-PE-1
OUTLET DRAWING NUMBERS	DM-PE-1

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 18+960 TO STA. 19+320
SCALE: 1:500 HORIZ.
1:50 VERT.

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Harris & Dailor Division

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	19
CONST.	2009	18006-3210-04	19

REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION. ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND 2+540.00 LT.

REVISION: 05/12/03: DELETED 7m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570. ADDED 6m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570.

REVISION 06/21/04: DELETED CONSTRUCTION EASEMENT ON TRACT NO. 105.

J.H. GRAHAM AND OTHERS (97)

JOHN W. ELDRIDGE AND EMMA LEE COWAN (99)

19+400

19+500

19+600

STA. 19+496.015 SURV. C.L.=
STA. 2+100.000 MALVER DR.
N 177384.2715
E 689648.1006

STA. 2+400.000 SOUTHGATE DR.
STA. 19+582.825 SURV. C.L.=
2+323.892
N 177389.3265
E 689532.6768

CONST. EASEMENT

CROSSVILLE PROPERTIES LIMITED (105)

HAYDEN C. SMITH ETUX LEVA (107)

TEMPORARY WETLAND IMPACT= .0246 ha.

PERMANENT WETLAND IMPACT= .0109 ha.

W-2 WETLAND 1116 m2 0.1116 ha

WOODED

PRESENT & PROP. R.O.W.

SEE SHEET NO. 18

SEE SHEET NO. 20

STA. 19+320

STA. 19+680

STREAM S-5

CONC. DITCH INV. 551.836m 600mm CMP INV. 551.793m CONC. DITCH

INV. 552.794m INV. 552.688m

600mm CMP

PROP. 13.6m Ø 450mm RCP

MATCH LINE

SLOPE EASEMENT

CONST. EASEMENT

DRAINAGE EASEMENT

VIRGIE O. DENTON (98)

2+214.776
N 177451.8094
E 689741.1024

CONST. EASEMENT GRASS	POINT	TOP	INVERT
	MH 1	557.29	555.31
	MH 2	553.33	552.27

VIRGIE O. DENTON (100)

NORRIS SORRELLS ETUX EMMA (101)

DAHL G. BLUM ETUX PATRICIA (102)

HERBERT L. TRANCE (103)

JOE LEE SMITH ETUX SARAH (104)

WOODED LOT

B & W PROPERTIES (106)

2+581.808
N 177521.3351
E 689650.9446

2+200

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 19+320 TO STA. 19+680
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

INSET S
CONTINUED

19+465.189
16.000 m
(52.50')
N1°18'45"W
6.462 m
(21.20')
19+469.727
20.574 m
(67.50')

INSET U

19+518.270
16.000 m
(52.50')
S80°51'32"W
5.574 m
(18.28')
19+514.899
20.435 m
(67.04')
N46°22'47"W
84.154 m
(276.10')
S46°14'35"E
90.644 m
(297.42')
19+602.424
16.000 m
(52.50')
N25°10'25"E
21.289 m
(69.85')
19+604.943
20.649 m
(67.74')

99
JOHN W. ELDRIDGE AND EMMA LEE COWAN

REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION. ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND 2+540.00 LT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	19A
CONST.	2009	18006-3210-04	19A

REVISION: 05/12/03: DELETED 3m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570. ADDED 6m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570.

REVISION 06/21/04: DELETED CONSTRUCTION EASEMENT ON PARCEL NO. 105.

19+400
19+500
19+600

97
J.H. GRAHAM
AND OTHERS

STA. 19+496.015 SURV. C.L.=
STA. 2+100.000 MALVER DR.

STA. 19+582.825 SURV. C.L.=
STA. 2+400.000 SOUTHGATE DR.

105
CROSSVILLE PROPERTIES
LIMITED

SEE SHEET NO. 18A
SEE SHEET NO. 20A
STA. 19+320
STA. 19+680
MATCH LINE

138.102 (453.09')
N46°23'54"W
206.810 m (678.508')
N46°23'54"W
PRESENT & PROP. R.O.W.
19+428.324
23.771m
(77.99')
S43°44'44"W
PROP & PRESENT ROW
N46°21'57"W
145.127 m (476.138')
19+570.036
23.738 m
(77.89')
19+573.451
23.737m
(77.88')
CONST. EASEMENT
PRESENT ROW
N43°54'23"E
194.942 m (181.458')
S44°43'44"W
2+365.213
9.526 m
(31.26')
S60°49'32"W
11.617 m
(38.12')
S42°29'39"W
180.432 m (263.885')
PROP & PRESENT ROW
62.80± m (206.043')
N46°21'57"W
PROP & PRESENT ROW
19+656.815
23.717m
(77.81')
48.536 m (159.239')
N46°21'57"W
19+594.043
23.754m
(77.93')
S79°20'29"W
19+638.916
12.921m
(42.39')
79.621 m (261.221')
S44°12'34"W

19+465.689
16.000 m
(52.50')
19+482.508
12.880m
(42.26')
19+500.978
12.876m
(42.24')
N46°22'46"W
188.904 m
(619.77')
19+445.754
12.887m
(42.28')
36.756 m (120.592')
N46°23'26"W
N1°18'46"W
20.961 m
(68.77')
N46°22'47"W
36.272 m
(119.01')
19+556.542
16.000 m
(52.50')
19+555.055
12.866m
(42.21')
47.883 m
(157.10')
19+609.467
12.902m
(42.33')
19+626.424
16.000 m
(52.50')
168.991 m (554.431')
N45°24'02"W
PRESENT R.O.W.
PROP. R.O.W.
PRESENT R.O.W.
PROP. R.O.W.
PRESENT ROW
PROP. R.O.W.
SLOPE EASEMENT
CONST. EASEMENT
SLOPE EASEMENT
DRAINAGE EASEMENT SEE INSET S
DRAINAGE EASEMENT SEE INSET U
S80°54'32"W
35.006 m
(118.14')
S15°10'26"W
10.138 m
(33.27')
N53°14'12"E
32.859 m (107.804')
2+527.944
13.482 m
(44.23')
N53°47'10"E
43.231 m (141.832')
N53°47'10"E
3.80 m (12.47')
N53°47'10"E
56.39 m (185.01')
2+136.217
10.254 m
(33.65')
57.594 m (188.955')
N51°40'17"E
60.556 m (198.654')
N51°40'17"E
2+443.857
8.472 m
(27.80')
53.172 m (174.448')
N36°37'02"W
19+474.442
69.906m
(229.35')
104
JOE LEE SMITH ETUX SARAH
100
VIRGIE O. DENTON
103
HERBERT L. TRANCE
106
B & W PROPERTIES
SLOPE EASEMENT
CONST EASEMENT
L=11.863 m (38.922')
R=7.620 m (25.000')
11.80± m (39.736')
N36°18'36"W
10310
10313
5040
5041
5043
5044
5045
51.595 m (169.274')
N36°28'48"W
58.188 m (174.501')
N35°38'41"W
45.281 m (148.559')
N52°57'50"E
19+492.498
23.829m
(234.94')
45.947 m (149.760')
N52°57'50"E
30.703 m (100.730')
N37°58'30"W
10315
47.952 m (157.327')
PRESENT ROW
L=11.620 m (38.124')
R=7.620 m (25.000')
N38°58'30"W
98
VIRGIE O. DENTON
101
NORRIS SORRELLS ETUX EMMA
102
DAHL G. BLUM ETUX PATRICIA

FOR CONST.
FIELD REVIEW ONLY

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 19+320 TO STA. 19+680

S.R. 28 / U.S. 127

SCALE: 1"=50'

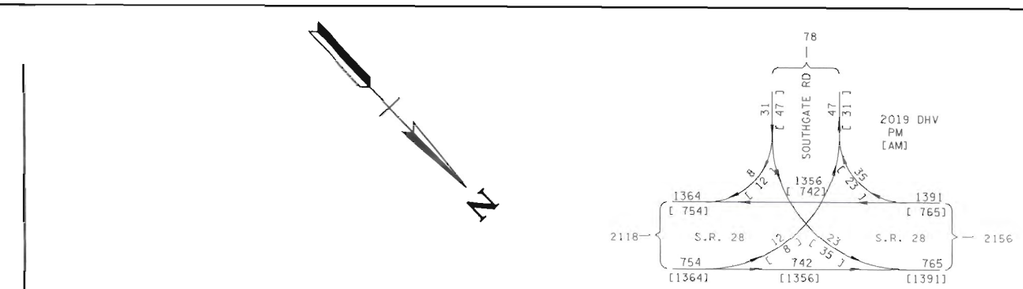
Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	19B
CONST.	2009	18006-3210-04	19B

REVISION: 05/12/03: DELETED 3m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570. ADDED 6m PVT. DRV. ENTRANCE RIGHT AT STA. 19+570.
REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION. ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND STA. 2+540.00 LT.



19+400 19+500 19+600

SEE SHEET NO. 18B

STA. 19+320

STA. 19+341
3.0 m PVT. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+025.000

S10 #12 GT. EL. 552.532
IN. EL. 551.052
OUT.EL. 551.002

STA. 19+496.015 SURV. C.L.=
STA. 2+100.000 MALVER DR.
N 177384.2715
E 689648.3006

STA. 19+496
3.0 m PVT. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+024.120

S11 #12 GT. EL. 553.576
IN. EL. 552.126
OUT.EL. 552.076

STA. 19+582.825 SURV. C.L.=
STA. 2+400.000 SOUTHGATE DR.
N 177444.1600
E 689565.4566

N 177389.3265
E 689532.6768

STA. 2+333.892
4.46 m RT. &
4.61 m LT.

TRANS.
17.24:1 RT.

STA. 2+354
4.58 m LT & RT

LIMIT OF CONST.
STA. 2+333.892

N43°54'24"E

TRANS. 15.27:1 LT.

REMAINING WETLAND
1007 m2
0.1007 ha

W1 #12 GT. EL. 555.00
IN. EL. 553.98
OUT.EL. 553.90

S14 #12 GT. EL. 554.469
OUT.EL. 553.015

IN. EL. 554.000

SEE SHEET NO. 20B

STA. 19+680

MATCH LINE

N 46° 22' 46" W

STREAM S-5

T10 #12 GT. EL. 552.726
IN. EL. 551.426
OUT.EL. 551.376

PROP. 19.6m @
450mm RCP

T11 #12 GT. EL. 553.576
IN. EL. 552.276
OUT.EL. 552.226

T12 #12 GT. EL. 554.465
OUT.EL. 553.165

SHRUBS
SEE SHEET
18B

LIMIT OF CONST.
STA. 0+040.492

STA. 19+413
3.0 m PVT. ENT.
5m-450mm S.D. REQD.

STA. 2+150
3.3 m LT & RT

TRANS. 160:1 RT

STA. 2+170
RT 3.425 & LT2.878

TRANS. 47.39:1 LT

LIMIT OF CONST.
STA. 0+016.568

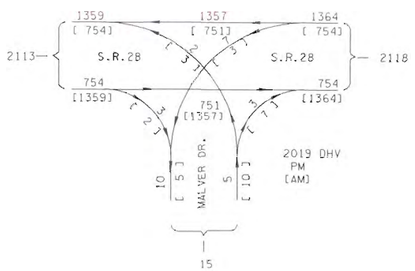
STA. 2+162.5
3.0 m PVT. ENT.
5m-450mm S.D. REQD.

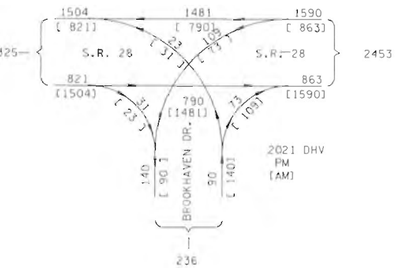
N37°57'15"E

3.95

LIMIT OF CONST.
STA. 2+170.000

2+214.776
N 177451.8094
E 689741.1024





STA. 19+625.745 SURV. C.L.=
STA. 2+500.000 BROOKHAVEN DR.
N 177473.7696
E 689554.3858

N34°26'56"E

2+581.808
N 177521.3351
E 689620.9446

LIMIT OF CONST.
STA. 2+560.000

TYPE 38

X1 #12 GT. EL. 555.069
IN. EL. 552.781
OUT.EL. 553.706

BEGINNING RETAINING WALL
STA. 19+648.19
OFFSET 15.5M

TOP-554.181
INV. 553.310

TOP-554.501
INV. 553.483

LIMIT OF CONST.
STA. 0+028.72

TOP-554.231
INV. 553.68

STA. 2+540
8.0 m BUS. ENT.

NOTE: FOR THE TEMPORARY WETLAND IMPACT THE CONTRACTOR SHALL REMOVE APPROXIMATELY 1 FOOT OF TOPSOIL AND STOCKPILE. AFTER CONSTRUCTION, THE TEMPORARY WETLAND IMPACT AREA SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AS SOON AS POSSIBLE BY USING THE STOCKPILED TOPSOIL, ENSURING THAT THE ELEVATION WILL NOT ALLOW DRAINAGE OF THE REMAINING WETLAND.

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 19+320 TO STA. 19+680
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION 05/30/06: MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION.			
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	19
CONST.	2009	18006-3210-04	19

NORMAL CROWN

STA 19+402.840
LOW WIRE ELEV= 559.320m
2 - POWER
1 - TELEPHONE
1 - CATV

STA 19+542.784
LOW WIRE ELEV= 559.798m
2 - POWER
1 - TELEPHONE
1 - CATV

STA. 19+436.015 SURV. C.L.
STA. 2+100.000 MAYER DR.

STA. 19+582.875 SURV. C.L.
STA. 2+400.000 SOUTHGATE DR.

STA. 19+625.745 SURV. C.L.
STA. 2+500.000 BROOKHAVEN DR.

FINISHED GRADE

EXISTING G.L.

0.9665%

MATCH LINE STA. 19+320 SEE SHEET NO. 18C

MATCH LINE STA. 19+680 SEE SHEET NO. 20C

PROP. 5m-450mm SIDE-DRAIN

PROP. 14m-450mm SIDE-DRAIN

PROP. 5m-450mm SIDE-DRAIN

MH 2 19+490.700 6.503m RIGHT
TOP 553.33
INVERT 552.27

MH 8 19+555.892 4.283m RIGHT
TOP 554.07
INVERT 552.57

MH 5 19+595.352 24.574m LEFT
TOP 554.17
INVERT 552.97

MH 7 19+614.975 4.346m RIGHT
TOP 554.64
INVERT 552.28

MH 4 19+597.644 4.232m RIGHT
TOP 554.38
INVERT 552.50

STA 19+659.211
EXISTING 450mm RCP
SKEW 75 08'07" RT
FLOWS RIGHT
INLET 555.980m
OUTLET 555.991m

THROUGH PIPE ON BROOKHAVEN DR.
D.A. 1.9, RUNOFF DRAINS

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 19+320 TO STA. 19+680
SCALE: 1:500 HORIZ.
1:50 VERT.

24-FEB-2010 15:39
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION. ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND 2+540.90 LT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18008-8210-94	20
CONST.	2009	18008-3210-94	20

CARL DOUGLAS SMITH AND WIFE PATRICIA
4+370.000
N 177443.4771
E 689398.0906

JUANITA GLADYS DAVIS
DENISE K. MELTON
ELIZABETH HOLLINGSWORTH
FINLEY HOLLINGSWORTH AND WIFE ELIZABETH
CROSSVILLE MASONIC LODGE #483
SENIOR CITIZENS OF CUMBERLAND CO.
AMERICAN LEGION POST #163
RUTH ANN KERLEY & JERRY KERLEY
LELIA M. PHILLIPS GATLIN
SAMUEL A. RYAN AND WIFE DONNA
B&W PROPERTIES
RUBY TOLLETT HUGHES
FRANKLIN HENRY

19+700
19+800
19+900
20+000

SEE SHEET NO. 19
SEE SHEET NO. 21
STA. 19+680
STA. 21+060
MATCH LINE

3.2 m ASPH.
3.0 m GR.
CONST. EASEMENT
SLOPE EASEMENT
LAWN
1- F. RES.
1- GAR.
1- F. BUS.
CONC. PK.
PROP & PRESENT R.O.W.
0.051 mm LOW PRESSURE SEWER LINE 0.75 m OF COVER
300mm CMP
375mm CMP
450mm CMP
CONC. DITCH
ASPH. PK.
1- BR. MASONIC LODGE
1- F. SENIOR CITIZENS CENTER
1- BR. AMERICAN LEGION
1- BR. BUS. MEDICAL CENTER
1- BR. RES.
PRESENT R.O.W. LIMITS
PROP. R.O.W.
MH 10
MH 11
MH 12
XCP 5
6.0 m ASPH.
WELL
GAR.
PLAY HOUSE
WOODS & LIGHT BRUSH
UNDEVELOPED

POINT	TOP	INVERT
MH 9	554.38	551.65
MH 10	554.47	550.79

POINT	TOP	INVERT
MH 11	562.23	550.25
MH 12	548.24	545.95

19+709.999 SURV. C.L.=
4+500.000 WILSON LANE
0+000.000 P.I. WILSON LANE
N 177531.8947
E 689493.3923

NOTE: GAS LINES HAVE 0.75 m OF COVER
NOTE: WATER LINES HAVE 0.75 m OF COVER

FOR CONST. FIELD REVIEW ONLY

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 19+680 TO STA. 21+060
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION, ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND 2+540.00 LT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	20A
CONST.	2009	18006-3210-04	20A

CARL DOUGLAS SMITH AND WIFE PATRICIA
4+370.000
N 177443.4771
E 689398.0906
108
55.057 m (180.633') N48°23'06"W
55.057 m (180.633') N48°23'06"W
31.102m (102.04ft) S46°04'05"E
JUANITA GLADYS DAVIS
109
60.466m (198.38ft) N47°08'45"E
37.861 m (124.21') S47°02'36"W
52.758 m (173.091') N48°15'26"W
RUTH ANN KERLEY & JERRY KERLEY
107
S47°08'45"W
S45°11'52"W
81.511 m (267.42')
64.650 m (212.11')
32.364 m (106.182') N44°50'22"W
4+411.228
6.485
110
LELIA M. PHILLIPS GATLIN
111
SAMUEL A. RYAN AND WIFE DONNA
19+700
19+800
DENISE K. MELTON
112
ELIZABETH HOLLINGSWORTH
113
114
FINLEY HOLLINGSWORTH AND WIFE ELIZABETH
19+900
116
CROSSVILLE MASONIC LODGE #483
117
SENIOR CITIZENS OF CUMBERLAND CO
20+000
AMERICAN LEGION POST #163
119
122.69m (402.56') S44°26'08"W
CONST. EASEMENT
SLOPE EASEMENT
SEE SHEET NO. 21A
SEE SHEET NO. 19A
CONST. EASEMENT
SLOPE EASEMENT
35.767 m (117.345') N46°21'57"W
30.426 m (99.823') N46°21'57"W
48.536 m (159.239') N46°21'57"W
19+705.351 23.705m (77.77')
12.215 m (40.076') N46°21'57"W
19+717.566 23.702m (77.76')
19+753.333 23.694m (77.74')
CONST. EASEMENT
19+783.759 23.686m (77.71')
19+784.160 23.686m (77.71')
S44°28'28"W
0.401 m (1.314') N46°21'57"W
30.026 m (98.509') N46°21'04"W
19+814.185 23.671m (77.66')
36.628 m (120.171') N46°21'04"W
19+850.814 23.653m (77.60')
46.061 m (151.118') N46°21'04"W
6.017 m (19.741') N46°23'38"W
19+850.814 23.653m (77.53')
CONST. EASEMENT
19+902.892 23.632m (77.53')
60.838 m (199.600') N46°23'38"W
S44°28'00"W
S45°11'52"W
19+963.730 23.641m (77.58')
61.059 m (200.324') N46°23'38"W
PRESENT ROW
20+024.789 23.663m (77.63')
82.105 m (269.374') N46°23'38"W
PROP. & PRESENT R.O.W.
STA. 19+680
STA. 20+060
MATCH LINE
142.738 m (468.300') N46°20'29"W
N46°22'47"W 217.052 m (712.12')
19+781.654 13.016m (42.70')
76.125 m (249.754') N46°20'48"W
19+857.779 CPC 13.060m (42.85')
139.415 m (457.397') N46°20'48"W
19+997.194 13.140m (43.11')
20+013.487 16.000 m (52.50')
20+030.988 19.073m (62.58')
20+045.999 21.708m (71.22')
PRESENT & PROP. R.O.W.
49.551 m (162.569') N36°25'18"W
15.240 m (50.000') N46°25'18"W
35.159 m (115.350') N36°34'16"W
19+857.490 16.000 m (52.50')
CONST. EASEMENT
SLOPE EASEMENT
SLOPE EASEMENT
CONST. EASEMENT
N46°22'46"W 139.266 m (456.91')
19+996.755 16.000 m (52.50')
115
RUBY TOLLETT HUGHES
106
B&W PROPERTIES
118
FRANKLIN HENRY
BC 455.84 m (1283.645') N52°20'29"E
CC 455.84 m (1283.645') N52°20'29"E
29.805 m (97.785') N36°31'52"W
19+709.999 SURV. C.L.=
4+500.000 WILSON LANE
0+000.000 P.L. WILSON LANE
N 177531.8947
E 689493.3923

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 19+680 TO STA. 20+060
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	20B
CONST.	2009	18006-3210-04	20B

REVISION 05/30/06: ADDED RETAINING WALL AND MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION. ADDED PROP. BUSINESS ENTRANCE AT STA. 19+710.4 RT. AND 2+540.00 LT.

4+370.000
N 177443.4771
E 689398.0906

N47°08'45"E

19+700 19+800 19+900 20+000

LIMIT OF CONST.
STA. 0+050.000
1.6 m LT. & RT.

S45°51'15"W

SEE SHEET NO. 19B

BEGIN TRANS.
P.L. STA.0+040.000
3.3 m LT & RT

S46°08'45"W

STA. 19+789.5
3.6 m BUS. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+022.109

STA. 19+777
3.3 m PVT. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+026.908

STA. 19+806
3.9 m BUS. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+025.598

LIMIT OF CONST.
STA. 0+032.152

STA. 19+817
3.1 m PVT. ENT.
5m-450mm S.D. REQD.

STA. 19+830
3.1 m PVT. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+027.046

STA. 19+881.5
3.1 m PVT. ENT.
5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+024.604

STA. 19+914
9.0 m BUS. ENT.
10m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+028.301

STA. 19+955.5
9.0 m BUS. ENT.
10m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+031.352

LIMIT OF CONST.
STA. 0+024.244

STA. 19+977
9.7 m BUS. ENT.
11m-450mm S.D. REQD.

STA. 20+014
6.5 m BUS. ENT.
7.5m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+029.802

STA. 20+036
8.0 m BUS. ENT.
9m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+027.696

SEE SHEET NO. 21B

W2 ▪12 GT. EL. 555.673
OUT.EL. 554.257

W3 ▪12 GT. EL. 555.426
OUT.EL. 553.976

W4 ▪12 GT. EL. 552.155
IN. EL. 550.705
OUT.EL. 550.655

W5 ▪12 GT. EL. 550.133
IN. EL. 548.683
OUT.EL. 548.633

9 m R

45 m R

450 ST

STA. 19+680

555.069
553.781
553.706

STA. 20+060

150 ST

TYPE IN-LINE

TYPE IN-LINE

TYPE 13

END RETAINING WALL
STA. 19+705.231

TOP-1818.22
INV. 1814.83

TOP-1819.21
INV. 1815.90

LIMIT OF CONST.
STA. 0+036.916

STA. 19+710.4
7.4 m BUS. ENT.

X2 ▪12 GT. EL. 555.673
IN. EL. 553.393
IN. EL. 554.010
IN. EL. 552.838
OUT.EL. 552.762

M2 MH IN. EL. 553.003
OUT.EL. 552.928

19+709.999 SURV. C.L.=
4+500.000 WILSON LANE
0+000.000 P.L. WILSON LANE
N 177531.8947
E 689493.3923

X3 ▪12 GT. EL. 555.673
IN. EL. 552.458
OUT.EL. 552.382

X4 ▪12 GT. EL. 555.426
IN. EL. 552.109
OUT.EL. 552.034

X5 ▪12 GT. EL. 552.717
IN. EL. 550.977
OUT.EL. 550.902

LIMIT OF CONST.
STA. 0+030.363

STA. 19+941.5
5.0 m PVT. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+026.808

STA. 20+000
3.0 m PVT. ENT.
NO S.D. REQD.

X6 ▪12 GT. EL. 549.384
IN. EL. 547.634
OUT.EL. 547.559

LIMIT OF CONST.
STA. 0+031.824

STA. 20+042
3.0 m PVT. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+031.871

STA. 20+059
9.3 m BUS. ENT.
NO S.D. REQD.

MATCH LINE

MATCH LINE

N

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 19+680 TO STA. 20+060
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

05-MAR-2010 08:43
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	20
CONST.	2009	18006-3210-04	20

REVISION 05/30/06: MODIFIED STORM DRAINAGE SYSTEM DUE TO MEDICAL CENTER CONSTRUCTION.

NORMAL CROWN

SEE SHEET NO. 19C

STA. 19+680

STA 19+714.686
LOW WIRE ELEV= 561.625m
2 - POWER
1 - TELEPHONE
1 - CATV

VPT 19+741.00
EL. 556.176

STA 19+781.491
LOW WIRE ELEV= 560.708m
2 - POWER
2 - TELEPHONE

VPT 19+826.00
EL. 557.0000

STA 19+942.604
LOW WIRE ELEV= 561.074m
4 - POWER

VPT 19+917.00
EL. 553.8168

PROP. 5m-450mm SIDE-DRAIN

PROP. 5m-450mm SIDE-DRAIN

0.9665%

FINISHED GRADE

EXISTING G.L.

-3.7447%

PROP. 10m-450mm SIDE-DRAIN

PROP. 10m-450mm SIDE-DRAIN

PROP. 11m-450mm SIDE-DRAIN

-3.7452%

PROP. 9.6m-450mm SIDE-DRAIN

PROP. 9.0m-450mm SIDE-DRAIN

TIE INTO EXISTING PARKING LOT STORM DRAIN SYSTEM

MATCH LINE

VC = 170.0000 m
K = 39
V = 80 km/h

MH 9 19+721.778 7.186m RIGHT
TOP 554.38
INVERT 551.65

MH 10 19+830.272 6.840m RIGHT
TOP 554.47
INVERT 550.79

MH 11 19+936.743 7.316m RIGHT
TOP 552.23
INVERT 550.25

MH 12 20+040.417 10.101m RIGHT
TOP 548.24
INVERT 545.95

SEE SHEET NO. 21C

MATCH LINE STA. 20+060

565 564 563 562 561 560 559 558 557 556 555 554 553 552 551 550 549 548 547 546 545 544 543 542 541 540

19+680 19+700 19+720 19+740 19+760 19+780 19+800 19+820 19+840 19+860 19+880 19+900 19+920 19+940 19+960 19+980 20+000 20+020

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 19+680 TO STA. 20+060
SCALE: - 1:500 HORIZ.
1:50 VERT.

Pierce & Davis Engineers

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-94	21
CONST.	2009	18006-3210-04	21

LEGEND	WETLAND IMPACTS
	AREA OF PERMANET IMPACT = 18.59 M²
	VOLUME OF PERMANENT IMPACT = 37.18 M³
	AREA OF PERMANET IMPACT = 18.98 M²
	VOLUME OF PERMANENT IMPACT = 37.96 M³

119
AMERICAN LEGION POST #163

123
CENTRAL BAPTIST CHURCH, INC.
GR. PK.
1 BR. CHURCH
ASPH. PK.

124
JEAN H. DUFREE
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

122
JEAN H. DUFREE
8250 PRIVATE LANE
ANNANDALE VA 22003
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

121
LLOYD L. SCARLETT
AND WIFE SHIRLEY

120
AND JIM
WIFE OAKES
DORTHY

2+700.000
N 177740.3655
E 689129.6944

STA. 20+115.731 SURV. C.L.=
STA. 2+800.000 SHEPARDS WAY
N 177811.8013
E 689199.6725

STA. 0+160 S.R.392 RAMP 2 =
STA. 20+285.994 S.R. 28 OFFSET 8.983m

STA. 3+385.821 S.R.392=
STA. 20+391.558 S.R.28
N 178005.452
E 689003.362

3+270.000
N 177942.7361
E 688905.9999

0+000.000
N 177948.434
E 688929.835

0+000.000
N 177958.810
E 688919.189

POINT	TOP	INVERT
MH 15	539.15	536.01
MH 16	540.64	536.72
MH 15A	540.02	536.30
MH 17	540.08	536.84
MH 18	540.90	538.24

INTERSECTION CONSTRUCTED SEE NRS-01.283 SECTION 404 # 200101486

20+100
20+200
20+300
20+400
0+100
3+300
3+400
691+0

1200mm RCP
TOP 547.978
OUT 542.678
1200mm IN 542.678
STREAM 6 / 900mm RCP
6.7 m ASPH.
203
SLOPE EASEMENT
3 m CONST EASEMENT
PROP. & PRESENT R.O.W.
PRESENT & PROP. R.O.W.
LAWN
CONC. DITCH
INV=545.04B
INV=541.31B
TOP 544.457
TOP 544.457
OUT 541.160
450mm IN 541.35
300mm IN 541.40
450mm RCP
EXIST. 375mm RCP
STREAM 6 / 900mm RCP
INV. 539.183m
PROP. 900 mm RCP
TIE INTO EXISTING 900 mm RCP
PROP. 27.5m-1200 mm RCP
EXIST. DRAINAGE EASEMENT
EXIST. SLOPE EASEMENT
EXIST. CONST EASEMENT
EXIST. DRAINAGE EASEMENT
WOODS
SCARIFY & OBLITERATE TOPSOIL AND SEED
SEE WETLAND IMPACT TABLE THIS PAGE
PROP. 4.5m-600mm RCP
EXIST. 25.5m-600mm RCP
INV. 538.345m
INV. 538.363m
INV. 538.513m
600mm CMP
375mm CMP
300mm CMP
MH 15
TOP=540.129
INV=537.592
MH 15A
TOP=539.478
INV=537.069
TOP=538.902
INV=537.844
TOP=539.529
INV=537.849
INV=537.347
INV=537.359
TOP=539.621
TOP=539.569
INV=537.976
TOP=539.798
INV=537.816
(OE) SURV.
PRESENT & PROP. R.O.W.
PROP. & PRESENT R.O.W.
MATCH LINE STA. 20+060 SEE SHEET NO. 20
MATCH LINE STA. 20+440 SEE SHEET NO. 22

NOTE: GAS LINES HAVE 0.75 m OF COVER
NOTE: WATER LINES HAVE 0.75 m OF COVER
NOTE: POWER LINES HAVE 0.75 m OF COVER

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 20+060 TO STA. 20+440
S.R. 28 / U.S. 127
SCALE: 1:500

METRIC

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	21A
CONST.	2009	18006-3210-04	21A

FOR CONST. FIELD REVIEW ONLY

INSET W
SEE PROJ. NO. 18083-2208-04

INSET X
SEE PROJ. NO. 18083-2208-04

AMERICAN LEGION POST #163

119

PRESENT ROW

2+700.000
N 177740.3655
E 689129.6944

N44°24'34"E

219.103 m (718.839')
S44°23'03"W

3 m CONST EASEMENT

SLOPE EASEMENT

20+100

CONST. EASEMENT

82.105 m (269.374')
N46°23'38"W

SLOPE EASEMENT

20+106.894
23.654m
(77.60')

PROP. & PRESENT R.O.W.

20+125.217
23.510m
(77.13')

6.403 m (21.006')
N46°23'38"W

STA. 20+060 SEE SHEET NO. 20A

MATCH LINE

STA. 20+115.731 SURV. C.L.=
STA. 2+800.000 SHEPARDS WAY
N 177811.8013
E 689199.6725

20+131.622
29.785m
(97.72')

20+131.622
23.689m
(77.72')

20+200

20+227.730
29.785m
(97.72')

20+253.045
29.470m
(96.69')

96.107 m (315.312')
N46°22'46"W

6.096 m (20.000')
S43°37'14"W

PROP. & PRESENT R.O.W.

1.604 m (5.263')
N43°27'00"W

20+318.215
28.214m
(92.57')

N45°50'51"W
25.315 m
(83.05')

N44°27'11"W
60.170 m
(197.41')

STA. 0+160 S.M.392 RAMP 2 =
STA. 20+285.994 S.R. 28 OFFSET 8.983m

20+314.818
21.962m
(72.05')

CONST. EASEMENT

20+348.888
21.776m
(71.44')

14.536 m (113.306')
N43°49'20"W

20+300

123

CENTRAL BAPTIST CHURCH, INC.

N46°22'46"W
142.541 m
(467.66')

20+262.103
16.000 m
(52.50')

N46°20'2"W
20.511 m
(67.30')

20+280.942
21.162m
(69.43')

23+320.000
20.729 m
(68.01')

45.309 m (148.644')
N45°53'18"W

19.406 m (101.195')
N30°39'05"W

PRESENT R.O.W.

20+241.566
16.000 m
(52.50')

EXIST. DRAINAGE EASEMENT
SEE INSET W
SEE PROJECT 18083-2208-04

EXIST. SLOPE EASEMENT

EXIST. CONST. EASEMENT

EXIST. DRAINAGE EASEMENT
SEE INSET X
SEE PROJECT 18083-2208-04

20+211.206
48.257m
(158.32')

20+222.737
58.188m
(190.91')

S17°41'8"E
34.795 m
(114.16')

S25°14'57"E
13.873 m
(45.51')

S47°44'27"E
18.577 m
(60.95')

S01°52'56"E
20.808 m
(68.27')

S17°53'24"W
45.756 m
(150.14')

PRESENT & PROP. R.O.W.

8+450.000
35.000 m
(114.83')

3+471.022
32.647 m
(107.11')

OLD US 127

STA. 3+385.821 S.R. 392 =
STA. 20+391.558 S.R. 28

MATCH LINE STA. 20+440 SEE SHEET NO. 22A

20+99.026
16.000 m
(52.50')

20+099.905
16.951m
(55.56')

20+124.112
22.116m
(72.56')

20+160.605
29.031m
(95.24')

20+179.258
33.909m
(111.25')

5.278 m (17.318')
N00°14'59"E

37.542 m (123.156')
N35°39'03"W

24.756 m (81.220')
N34°17'22"W

N31°55'03"W
19.400 m
(63.649')

PRES. & PROP. R.O.W.

78.858 m (258.753')
N32°44'25"W

20+080.643
27.698m
(90.87')

35.022 m (114.901')
N22°11'40"W

20+158.616
39.545m
(129.75')

17.012 m (55.814')
N30°42'24"W

23.410 m (76.806')
N61°50'23"W

N22°15'39"E
15.218 m
(49.928')

20+174.996
44.191m
(144.82')

24.063 m (78.952')
N73°23'23"W

20+197.201
54.279m
(178.08')

20+217.158
67.726m
(222.20')

S10°7'55"E
34.593 m
(113.49')

JIM OAKES
AND WIFE DORTHY

120

121

LLOYD L. SCARLETT
AND WIFE SHIRLEY

122

JEAN H. DUFREE
8250 PRIVATE LANE
ANNANDALE VA 22003
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

20+400

124

JEAN H. DUFREE
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

0+000.000
N 177948.434
E 688925.835

45.929 m (150.357')
S00°00'15"E

0+000.000
N 177958.840
E 688919.789

N35°26'55"E
16.414 m
(53.852')

20+382.627
85.071m
(279.10')

20+429.126
92.086m
(302.40')

S59°48'7"W
33.498 m
(110.01')

20+375.476
52.134m
(171.04')

20+422.067
40.040m
(136.85')

N35°17'2"E
3.455 m
(11.335')

47.146 m (154.711')
N19°28'39"W

0+100

40.557 m (133.105')
S38°08'55"W

S.R. 392

METRIC

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 20+060 TO STA. 20+440

S.R. 28 / U.S. 127

SCALE: 1:500

24-FEB-200 (54)
\\J002WFD\chat-tenn\02shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28vb\cumb28\FinalDesign\2005\Construction plans\JB\Constprtntplansheets\CM28L2IA.sht

Survey & Design 15-Acre

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	14B
CONST.	2006	18006-3210-04	21B

2+700.000
N 177740.3655
E 689129.6944

LIMIT OF CONST.
STA. 2+731.000

STA. 2+731.000
3.00 m RT. &
3.00 m LT.

20+100 | 20+200 | 20+300 | 20+400

1200mm RCP
TOP 547.978
OUT 542.678
1200mm IN 542.678

STA. 20+115.731 SURV. C.L.=
STA. 2+800.000 SHEPARDS WAY
N 177811.8013
E 689199.6725

STA. 2+754
6.2 m BUS. ENT.
7m-450mm S.D. REQD.

LIMIT OF CONST.
STA. 0+017.211

STREAM E
300mm RCP
STA. 2+760.000
6.00m LT. & 3.00m RT

TOP 544.457
TOP 544.457
OUT 541.160
450mm IN 541.36
900mm IN 541.46

EXIST. 450mm RCP

W6 #12 GT. EL. 546.388
IN. EL. 544.938
OUT.EL. 544.888

Y1 #12 GT. EL. 542.843
OUT.EL. 541.193

Y2 #12 GT. EL. 540.695
IN. EL. 539.245
OUT.EL. 538.195

PROP. 4.5m-675mm RCP

Y2A #12 GT. EL. 539.491
OUT.EL. 538.355

Y3 #12 GT. EL. 540.489
IN. EL. 538.568
IN. EL. 538.244
OUT.EL. 538.213

EXIST. 25.5m-600mm RCP

ENS SIDEWALK AND
CURB AND GUTER
STA. 3+312.160

STA. 3+385.821 C.P.392=
STA. 20+391.568 S.R.28
N 178005.452
E 689003.362

Y4 #12 GT. EL. 540.335
OUT.EL. 539.150

392 RAMP 1
392 RAMP 2

GT. EL. 540.710
OUT.EL. 539.450
PROP. 6m-450mm RCP PIPE

EW OUT. EL. 539.380

INV. 538.363m

450mm RCP
INV. 539.
STA. 20+422.

SEE SHEET NO. 22B

STA. 20+060 SEE SHEET NO. 20B

MATCH LINE

450 ST

LIMIT OF CONST.
STA. 0+040.883

STA. 20+091.064
6.5 m PVT. ENT.
NO S.D. REQD.

X7 #12 GT. EL. 546.137
IN. EL. 544.487
IN. EL. 544.387
OUT.EL. 544.312

X1 #12 GT. EL. 540.583
OUT.EL. 539.133

PROP. 27.5m-1200 mm RCP

TIE INTO EXISTING 900 mm RCP

PROP. 900 mm RCP

6m CLASS "B" RIP RAP

STA 20+284.588 TIE INTO
EXISTING SIDEWALK AND 6 GUTTER

Z2 #12 GT. EL. 540.129
IN. EL. 538.216
IN. EL. 537.921
OUT.EL. 537.692

OUT.EL. 537.154
OUT.EL. 537.495

TOP-538.902
INV-537.844

TOP-539.629
INV-537.844

TOP-539.629
INV-537.289

INV-537.537

INV-537.347
INV-537.359

TOP-539.62

INV-537.816

TOP-539.565
INV-537.978

TOP-539.798

SEE WETLAND IMPACT TABLE
THIS PAGE

WETLAND MIDIGATION COMPLETED ON
PROJECT #18083-2208-04 SEE PROJECT FOR
DETAILS

2021 DHV
PM
[AM]

SHEPARDS WAY

S.R. 28

PROP. 392

1404

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 20+060 TO STA. 20+440
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	210
CONST.	2009	18006-3210-04	210

NORMAL CROWN

TRANSITION TO SUPERELEVATION

SUPERELEVATION=2.0%

STA. 20+241.566

STA. 20+296.566

VFC 20+230.00
EL. 542.2450

FINISHED GRADE

EXISTING G.L.

VC = 200.0000 m
K = 35
V = 80 km/h

STA 20+329.460
LOW WIRE ELEV= 547.181m
1 - POWER

VPT 20+420.00
EL. 540.5488

STA 3+385.321 S.R.392 =
STA 20+391.558 S.R.28

SEE SHEET NO. 22C

STA. 20+440

MATCH LINE

MATCH LINE STA. 20+060

SEE SHEET NO. 20C

-3.7449%

-3.1449%

+2.0488%

+2.0488%

WG #12
X7 #12
X8 #12
Y1 #12
Y2 #12
Z1 #12
X3 #12
Z2 #12

MH 13 20+117.060 29.743m RIGHT
TOP 545.85
INVERT 544.21

PROP. 1200mm RCP OUTLET PIPE

STA 20+165.561
EXISTING 910mm CMP
SKEW 60°20'39"RT
FLOWS RIGHT
INLET 541.400m
OUTLET 539.183m
D.A. = 21.0 ha.

PROP. 600mm RCP
TIE INTO EXISTING 600mm RCP

MH 14 20+190.321 48.650m RIGHT
TOP 540.12
INVERT 538.08

MH 14A 20+249.811 87.121m RIGHT
TOP 538.58
INVERT 536.58

MH 15B 20+263.973 94.644m RIGHT
TOP 538.61
INVERT 535.61

VPI 20+300.00
EL. 538.3000

MH 15 20+309.233 12.526m RIGHT
TOP 539.15
INVERT 536.01

MH 16 20+440.611 10.267m RIGHT
TOP 540.64
INVERT 535.72

MH 15B 20+393.727 9.475m RIGHT
TOP 540.01
INVERT 536.30

STATION	20+165.561
STRUCTURE	PROP. 900 & 1050mm RCP
SKEW	60°20'39"
DRAINAGE AREA	21.0 ha
DESIGN DISCHARGE(Q50)	2.216 m³/s
OVERTOPPING ELEV.	544.545
ALLOWABLE HEADWATER ELEV.	543.200
Q50 HEADWATER ELEV.	542.148
Q100 HEADWATER ELEV.	542.176
VELOCITY (Q50)	3.99 m/s
INLET ELEVATION	541.160
OUTLET ELEVATION	538.698
STANDARD DRAWING NUMBERS	DM-PB-1, DM-CB-12SB, 12SC, 12SD
INLET DRAWING NUMBERS	EXISTING CATCH BASIN
OUTLET DRAWING NUMBERS	DM-PE-1

STATION	20+314.487
STRUCTURE	PROP. 8.5m-600mm RCP
SKEW	88°45'56"
DRAINAGE AREA	1.0 ha
DESIGN DISCHARGE(Q50)	0.412 m³/s
OVERTOPPING ELEV.	540.236
ALLOWABLE HEADWATER ELEV.	539.491
Q50 HEADWATER ELEV.	539.180
Q100 HEADWATER ELEV.	539.214
VELOCITY (Q50)	0.45 m/s
INLET ELEVATION	538.355
OUTLET ELEVATION	537.495
STANDARD DRAWING NUMBERS	DM-PB-1, DM-CB-12SB, 12SC, 12SD
INLET DRAWING NUMBERS	DM-CB-38SD
OUTLET DRAWING NUMBERS	DM-PE-4BA

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127

STA. 20+060 TO STA. 20+440

SCALE: 1:500 HORIZ.
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Surveyor's Duties

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

FOR CONST. FIELD REVIEW ONLY

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	22
CONST.	2009	18006-3210-04	22

REVISION 4/10/02: REMOVED PROPERTY OWNERS ADDRESSES FROM TRACT NO'S. 122, AND 125.

REVISION 03/12/03: CHANGED PROPERTY OWNERS NAME ON TRACT NO. 130.

REVISION 07/20/04: ADDED 7.0 m CURB CUT LEFT AT STA. 20+639.

N

S.R.28
PI 205+69.231
N 178,124.6515
E 688,871.3728
Δ 24° 14' 59" (RT)
Δs 0° 59' 05"
Δc 49° 16' 49" (RT)
Rc 1,600.000
Lc 538.404
Ts 323.465
Ls 55.000
SE
DESIGN SPEED
TRANS. LENGTH

125 JEAN H. DUFREE
SEE PROJECT NO. 18083-2206-04
FOR R.O.W. ACQUISITION

0+177 20+500 20+600 20+700 20+800 0+100

156 BUSTER L. CAMPBELL, ET UX

129 CHARLES RAMOS, ET UX

POINT | TOP | INVERT
MH 20 | 544.09 | 542.41
MH 21 | 546.55 | 545.54

129 CHARLES RAMOS, ET UX

127 JOE CRUMP AND WIFE ELIZABETH

130 LUTHER BEAM & SERVICES, LLC.

133 WILLIAM DEAN HENRY

132 HENRY GIBSON AND WIFE BONNIE

WOODS
EXIST. CONST EASEMENT
EXIST. SLOPE EASEMENT
PROP. & PRESENT R.O.W.
4.0 m GRASS
3 m CONST EASEMENT
SEE SHEET NO. 21
MH 17
MH 18
MH 20
MH 21
STA. 0+160 S.R.392 RAMP 1 =
STA. 20+507.141 S.R. 28 OFFSET 8.997 m
2@ 1.524 x 2.438 m BOX CULVERT
STA. 20+440
MATCH LINE
SEE SHEET NO. 23
STA. 20+800

122 JEAN H. DUFREE
SEE PROJECT NO. 18083-2206-04
FOR R.O.W. ACQUISITION

126 FRANCES BANNER, ET AL

STA. 20+621.407 SURV. C.L.=
STA. 3+000.000 WELLS RD.
N 178186.7251
E 688862.3683

EXIST. SLOPE EASEMENT
EXIST. CONST EASEMENT
PRESENT & PROP. R.O.W.
PROP. & PRESENT R.O.W.
PROP. R.O.W.
6.4 m ASPH.
WOODS

OLD S.R. 28
PI 4+665.430
N 178197.3274
E 688939.5064
Δ 5°18'19"
D 200.000
R 18.519
L 9.266
T 0.215
E 18.512
L.C. 0.000
S.E.
TRANS. LENGTH
DESIGN SPEED 70

N38°53'04"W
PI 3+071.363

122A

WELLS RD.
PT 3+071.363
N 178225.3958
E 688922.3454
Δ 8°31'39"
R 550.000
L 81.858
T 41.005
E 1.526
L.C. 81.783
S.E. 0.000m/m
TRANS. LENGTH 0
DESIGN SPEED 70km/h

PC 4+656.164
PT 4+674.683
4+600.000 178146.3961 688980.5801
PT 3+112.216
3+114.928 N 178254.2712 E 688955.1677

128A

3+063.774 WELLS RD. =
4+700.000 OLD S.R. 28
N 178222.1233 E 688915.2002

128 CHARLES E. GADDIS AND WIFE ANNIE

131 IRA L. SHERILL

P(UG) P/CATV/d G 102 ASPH. PK. 1- BL. BUS. SOUTH SIDE MUFFLER PROP. R.O.W. TRAILER GRASS 1- BL. BUS. GORE MOTOR CO. GR. PK. 1- BL. BUS. MR. COMPLETE AUTO CLINIC 3 m CONST EASEMENT SLOPE EASEMENT DRAINAGE ESMT. SEE SHT. 23 TRAILER RES. 9.0 m GR. 3.4 m GR. M3 VS 203

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 20+440 TO STA. 20+800
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	22A
CONST.	2009	18006-3210-04	22A

REVISION 4/10/02: CORRECTED STATION AND OFFSETS ON INSET 22A; REMOVED PROPERTY OWNERS ADDRESSES FROM TRACT NO'S. 122, AND 125.

REVISION 03/12/03: CHANGED PROPERTY OWNERS NAME ON TRACT NO. 130.

REVISION 07/20/04: ADDED 7.0 m CURB CUT LEFT AT STA. 20+639.

INSET 22A

20+456.998
29.958 m
(98.287')
N23°55'38"W
12.000 m
(39.37')
20+468.360
26.747 m
(87.75')
S66°4'23"W
6.666 m
(21.87')
N66°4'23"E
7.579 m
(24.87')
20+455.218
28.443 m
(93.32')
S14°17'35"E
9.536 m
(31.29')
20+466.382
19.438 m
(63.77')
20+463.727
19.471 m
(63.88')
S38°39'51"E
2.687 m
(8.82')

0+177

125
JEAN H. DUFREE
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

20+582.204
45.422m
(149.02')

S17°57'59"W

0+100
S17°35'W
47.156 m (154.711')

EXIST. DRAINAGE EASEMENT
SEE INSET 22A

EXIST. CONST EASEMENT

EXIST. SLOPE EASEMENT

PROP & PRESENT ROW

20+463.727
19.471m
(63.88')

SEE SHEET NO. 21A

STA. 0+160 S.R. 392 RAMP 1 =
STA. 20+507.141 S.R. 28 OFFSET 8.997 m

20+509.486
17.392m
(57.06')
20+515.528
17.462m
(57.29')
20+530.956
17.631m
(57.84')

44.320 m (145.406')
N43°46'09"W

5.976 m (19.606')
N36°59'43"W

EXIST. SLOPE EASEMENT

EXIST. CONST EASEMENT

122
JEAN H. DUFREE
SEE PROJECT # 18083-2208-04
FOR R.O.W. ACQUISITION

S43°15'43"E
25.694 m (84.297')

S43°06'15"E
30.799 m (101.047')

S39°48'28"E
46.642 m (153.023')

PRESENT ROW 70.816 m (232.335')

S39°48'28"E
73.576 m
(241.39')

N38°53'04"W

PI 3+071.363

N39°48'28"W
22.307 m
(73.19')

S39°48'28"E
73.486 m
(241.10')

N44°11'32"W

122A

PC 4+656.164

PT 4+674.683

4+600.000
N 178146.3981
E 688980.9801

N11°17'10"E
7.967 m
(26.14')

20+612.316
18.316m
(60.09')

R=1728.088m
L=95.707m (314.00')
PRESENT & PROP. R.O.W. C

20+607.192
18.283 m
(59.99')

3+024.120
8.025 m
(26.33')

N50°32'00"E
40.272 m (132.126')

N50°25'25"E
47.717 m
(156.75')

N50°25'25"E
46.935 m
(153.99')

20+600

20+622.095
67.575m
(221.70')

27.758 m (91.070')
N62°34'39"W

46.864 m (153.752')
N62°39'31"W

S37°04'01"W
67.351 m (220.921')

S37°04'29"W
49.574 m (162.157')

156
BUSTER L. CAMPBELL, ET UX

20+645.238
81.140m
(266.21')

20+692.510
110.901m
(363.85')

58.278 m (191.200')
N62°46'04"W

53.662 m (176.059')
S21°07'09"W

129
CHARLES RAMOS, ET UX

127
JOE CRUMP AND WIFE ELIZABETH

20+668.039
18.038m
(59.18')

3 m CONST EASEMENT

29.216 m (95.853')
N32°28'22"W

R=1766.365 m
L=39.057 m
(R=5795.15')
(L=128.14')

20+639.149
18.108m
(59.41')

R=1727.661 m
L=46.276 m
(R=5668.17')
(L=151.82')

20+593.260
18.309m
(60.07')

R=2010.858 m
L=7.354 m
(R=6597.29')
(L=24.13')

20+600.530
18.270m
(59.94')

20+700

20+718.042
64.484m
(211.56')

Z=191.070
N 178264.1025
E 688708.8509

20+727.569
41.389m
(135.79')

S16°41'10"W
25.560 m
(83.86')

S22°52'50"W
9.662 m
(31.70')

S22°52'50"W
29.460 m
(96.68')

R=1764.651 m
L=77.951 m
(R=5789.53')
(L=259.74')

20+745.121
18.066m
(59.27')

20+746.264
16.262m
(53.35')

35.277 m (115.737')
N28°52'10"W

130
BEST FINANCIAL SERVICES, LLC
LUTHER & BEAM

131
IRA L. SHERILL

132
HENRY GIBSON AND WIFE BONNIE

133
WILLIAM DEAN HENRY

20+800

3+250.624
5.181 m
(17.00')

S62°15'44"W
9.662 m
(31.70')

3+250.000
8.755 m
(28.72')

S32°55'44"W
17.609 m
(57.77')

S40°33'44"W
17.609 m
(57.77')

S62°15'44"W
44.55')

PROP. R.O.W.

N27°32'13"W
12.568 m
(41.23')

20+762.207
18.671m
(61.26')

20+781.185
16.387m
(53.76')

20+793.626
16.326m
(53.56')

PRESENT ROW

3 m CONST EASEMENT

SLOPE EASEMENT

DRAINAGE ESMT.
SEE SHT. 23A

N52°46'44"E

S75°38'43"E
10.989 m
(36.06')

3+025.885
5.556 m
(18.23')

3 m CONST EASEMENT

S2°54'47"E
3.423 m (11.23')

S2°54'47"E
1.106.651'

E 688708.8509

128
CHARLES E. GADDIS AND WIFE ANNIE

28.549 (93.67')
N48°28'30"W

S7°49'5
N22°56'12"

128A

3+063.774 WELLS RD.=
4+700.000 OLD S.R. 28
N 178221.1253
E 688915.4002

WILMA B. CRAVENS
136

MATCH LINE STA. 20+440

MATCH LINE STA. 20+800

SEE SHEET NO. 23A

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 — USED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 20+440 TO STA. 20+800
S.R. 28 / U.S. 127
SCALE: 1"=500

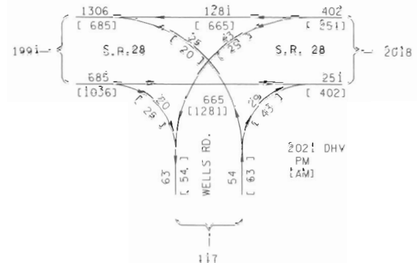
Survey & Design Division

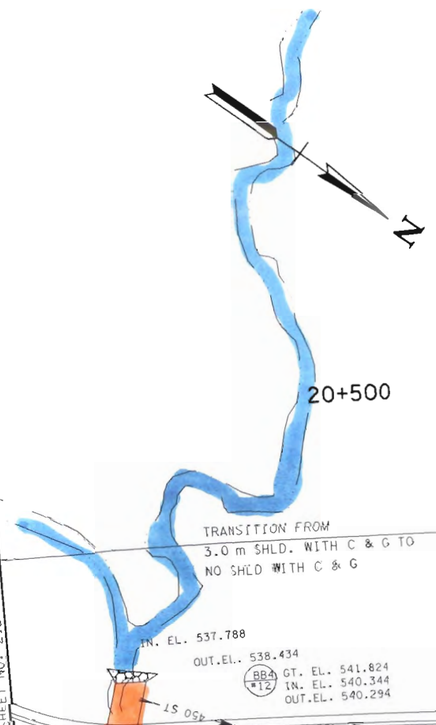
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	22B
CONST.	2009	18006-3210-04	22B

REVISION 07/20/04: ADDED 7.0 m CURB CUT LEFT AT STA. 20+639.





20+600

20+700

20+

TRANSITION FROM
3.0 m SHLD. WITH C & G TO
NO SHLD WITH C & G

IN. EL. 537.788
OUT.EL. 538.434

BB4 #12 GT. EL. 541.824
IN. EL. 540.344
OUT.EL. 540.294

STA. 20+609
9.0 m BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
STA. 0+029.380

BB3 #12 GT. EL. 544.188
IN. EL. 542.708
OUT.EL. 542.658

STA. 20+621.000

STA.20+663
6.0 m PVT. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+029.380

STA.20+639
7.0 m CURB CUT
NO S.D. REQD.

STA. 20+714
3.0 m PVT. ENT.
NO S.D. REQD.
LIMIT OF CONST.
STA. 0+030.344

BB4 #12 GT. EL. 547.064
IN. EL. 545.614
OUT.EL. 545.564

STA. 20+758
8.0 m BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
STA. 0+030.334

BB1 #12 GT. EL. 550.739
OUT.EL. 549.289

SEE SHEET NO. 23B

STA. 20+440

MATCH LINE

15 @ 450 ST

PROP. 6.2%

CC8 #12 GT. EL. 541.463
IN. EL. 539.983
OUT.EL. 539.933

OUT.EL. 538.587

STA. 20+486.237 TIE INTO EXISTING
SIDEWALK AND CURB & GUTTER

CC5 #12 GT. EL. 543.271
IN. EL. 541.821
OUT.EL. 541.771

STA. 20+621.407 SURV. C.L.=
STA. 3+000.000 WELLS RD.
N 178186.7251
E 688862.3683 MEET EXISTING
8 m R

CC6 #12 GT. EL. 545.502
IN. EL. 544.052
OUT.EL. 544.002

8 m R

CC5 #12 GT. EL. 546.704
IN. EL. 545.224
OUT.EL. 545.174

LIMIT OF CONST.
STA. 0+022.631

STA. 20+652
12.0 m BUS. ENT.
NO S.D. REQD.

UNKNOWN STREET
LIMIT OF CONST.
STA. 0+034.124

STA. 20+714.5
6.0 m PVT. ENT.
NO S.D. REQD.

CC7 #12 GT. EL. 548.490
IN. EL. 547.040
OUT.EL. 546.990

LIMIT OF CONST.
STA. 0+022.082

STA. 20+745.5
9.0 m BUS. ENT.
NO S.D. REQD.

CC1 #12 GT. EL. 549.959
OUT.EL. 548.519

OUT.EL. 546.412

MATCH LINE

STA. 20+800

N38°53'04"W
PI 3+021.363
N44°11'23"W

4+600.000
N 178146.3961
E 688980.5801

PC 4+656.164

PT 4+674.683

LIMIT OF CONST.
STA. 3+060.500
3.3 m LT. & RT.

3+063.774 WELLS RD. =
4+700.000 OLD S.R. 28
N 178222.1253
E 688915.4002

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 20+440 TO STA. 20+800
S.R. 28 / U.S. 127
SCALE: 1:500

Harris & Dodge Design

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	220
CONST.	2009	18006-3210-04	220

STATION	20+454.798
STRUCTURE	5.853 M OF 2 @ 2.44 M X 1.52 M
SKEW	75° LT
DRAINAGE AREA	316 ha
DESIGN DISCHARGE(Q50)	13.5 m³/s
OVERTOPPING ELEV.	541.591
ALLOWABLE HEADWATER ELEV.	540.000
Q50 HEADWATER ELEV.	539.35
Q100 HEADWATER ELEV.	539.57
VELOCITY (D50)	3.46 m/s
INLET ELEVATION	537.488
OUTLET ELEVATION	537.578
STANDARD DRAWING NUMBERS	
INLET DRAWING NUMBERS	K-38-132.10, STDM-10-1
OUTLET DRAWING NUMBERS	K-38-132.48-133, STDM-10-1

SUPERELEVATION=2.0%

STA 20+618.322
LOW WIRE ELEV= 551.137m
2 - POWER
1 - TELEPHONE

STA 20+578.403
LOW WIRE ELEV= 550.469m
5 - POWER
1 - CATV

VC = 100.0000 m
K = 97
V = 110 km/h

VPT 20+609.50
EL. 544.772

STA. 3+000.000 WELLS RD.

STA. 20+621.407 SURV. C.L.

STA 20+730.203
LOW WIRE ELEV= 557.016m
5 - POWER

STA 20+704.684
LOW WIRE ELEV= 553.796m
TEMP. = 2°.

FINISHED GRADE
EXISTING G.L.

3.080B%
2.048B%
3.090B%

VPC 20+509.50
EL. 542.3324

VPI 20+558.50
EL. 543.4168

MH 22 20+790.471 11.710m LEFT
TOP 549.92
INVERT 547.50

MH 21 20+700.706 10.863m LEFT
TOP 546.55
INVERT 545.54

MH 20 20+614.412 13.567m LEFT
TOP 544.09
INVERT 542.41

MH 18 20+528.336 12.337m LEFT
TOP 540.90
INVERT 538.24

MH 17 20+441.482 19.090m LEFT
TOP 540.08
INVERT 536.84

MH 16 20+440.811

TIE INTO PROP. BOX CULV.
PROP. 2@2.44X1.52m
TIE INTO EXIST. BOX.

STA 20+455
EXISTING 2@ 1.524 x 2.438 m BOX CULVERT
SKEW 75° LT
FLOWS RIGHT

MATCH LINE STA. 20+440 SEE SHEET NO. 21C

MATCH LINE STA. 20+800 SEE SHEET NO. 23C

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 20+440 TO STA. 20+800
SCALE: 1:500 HORIZ.
1:50 VERT.

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	23
CONST.	2009	18006-3210-04	23

REVISION 1/06/03: CHANGED PROPERTY OWNERS NAME ON TRACT NO. 134.

FOR CONST. FIELD REVIEW ONLY

GENE BURGESS & WIFE FRANCES
DEBBIE KAYE WHITTAKER
CURTIS LEE HONEYCUTT AND WIFE CAROLYN JANE HONEYCUTT
CARL COOPER & WIFE MARY
CARL J. COOPER AND WIFE MARY
CHARLES NORROD AND WIFE JOYCE
DONALD G. HOOIE, ET UX
WILMA B. CRAVENS

134A 134B 134C 134 135 136 137 138

1- STONE RES. 1- F. RES. 1- BR. RES. SHED

4+800.000 LEE JUNE ST. =
N 178380.8957
E 688736.6626

3+263.671 DUNBAR LANE=

STA. 20+815.000 SURV. C.L.=
STA. 3+300.000 DUNBAR LANE
N 178353.7772
E 688764.7670

20+800 SEE SHEET NO. 22
STA. 20+900
21+000
21+100
STA. 21+160 SEE SHEET NO. 24
MATCH LINE
MATCH LINE

N54°01'43"W 5.3 m ASPH.
PROP. 11.5m-600mm RCP
PROP. 19m-600mm RCP
PROP. 22.3m-600mm RCP
PROP. 12m-600mm RCP
PROP. 6m-900mm RCP
PROP. 13m-900mm RCP
EW INV. 548.952m
INV. 549.204m
INV. 550.799m
MH 24
MH 25
MH 26
MH 27
CLASS B RIP-RAP
CLASS C RIP-RAP
SLOPE EASEMENT
CONST. EASEMENT
3 m CONST EASEMENT
PRESENT & PROP. R.O.W.
GRASS & GRAVEL
GRASS
LAWN
WOODS
P/CATV
P/T
SHED
1.0 m ASPH.
5.3 m ASPH.
300mm CMP
600mm CMP

POINT	TOP	INVERT
MH 22	549.92	547.50
MH 23	551.02	548.02
MH 24	552.15	550.28

POINT	TOP	INVERT
MH 25	554.05	551.35
MH 26	553.88	551.79

DUNBAR LANE
PI 3+261.970
N 178330.5022
E 688733.6883
Δ 32°38'47"
D 50.000
L 28.489
T 14.643
R 100
E 2.106
S.C.C. 0.000m/m
TRANS. LENGTH
DESIGN SPEED 70km/h
PC 3+247
PT 3+275.816
AH. N53°10'13"E

CURVE DSCS28108
PI 211+12.732
N 178,622.9898
E 688,637.6235
Δs 24° 45' 01" (LT)
θs 3° 06' 13"
Δc 18° 32' 36" (LT)
Rc 600.000
Lc 194.184
Ts 164.207
Ls 65.000
SE
DESIGN SPEED
TRANS. LENGTH

NOTE: GAS LINES HAVE 0.75 m OF COVER
NOTE: WATER LINES HAVE 0.76 m OF COVER
NOTE: POWER LINES HAVE 0.75 m OF COVER

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 20+800 TO STA. 21+160
S.R. 28 / U.S. 127
SCALE: 1:500

METRIC

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	23A
CONST.	2009	18006-3210-04	23A

REVISION 9/10/02: CORRECTED STA. AND OFFSETS ON INSET Y AND INSET Z.
REVISION 1/06/03: CHANGED PROPERTY OWNERS NAME ON TRACT NO. 134.

CARL COOPER & WIFE MARY (134A)
DEBBIE KAYE WHITTAKER (134B)
GENE BURGESS & WIFE FRANCES (134C)
CURTIS LEE HONEYCUTT AND WIFE KAROLYN JANE HONEYCUTT (134)
CARL J. COOPER AND WIFE MARY (137)
CHARLES NORROD AND WIFE JOYCE (135)
DONALD G. HOOIE. (138)
FIRST BABTIST CHURCH (139)
WILMA B. CRAVENS (136)

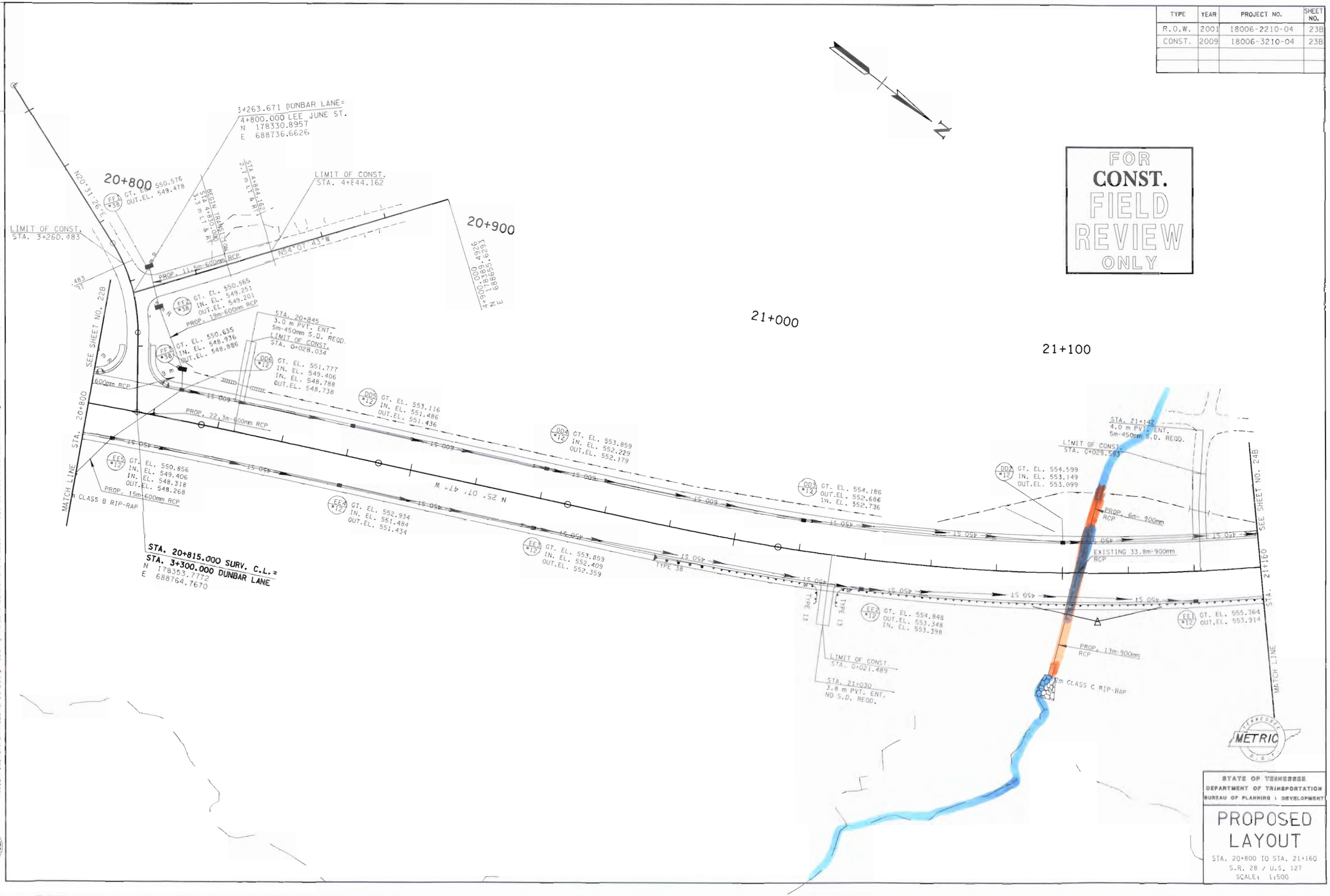
STA. 20+800 SEE SHEET NO. 22A
MATCH LINE STA. 21+169 SEE SHEET NO. 24A
STA. 20+815.000 SURV. C.L.= STA. 3+300.000 DUNBAR LANE
N 478853.7772
E 688764.7670
4+263.671 DUNBAR LANE=
4+800.000 LEE JUNE ST.
1783B0.8957
688736.6626
PROP. & PRESENT R.O.W.
PROP. R.O.W.
PRESENT ROW
SLOPE EASEMENT
CONST. EASEMENT
3 m CONST EASEMENT
DRAINAGE EASEMENT SEE INSET Y
DRAINAGE EASEMENT SEE INSET Z
PROP. & PRESENT ROW
INSET 1
INSET Y
INSET Z
21+000
21+100
FOR CONST. FIELD REVIEW ONLY
METRIC
COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR [.0001] & TIED TO THE TGRN.
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT
RIGHT-OF-WAY DETAILS
STA. 20+800 TO STA. 21+169
S.R. 28 / U.S. 127
SCALE: 1:500

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	23B
CONST.	2009	18006-3210-04	23B

FOR CONST. FIELD REVIEW ONLY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 20+800 TO STA. 21+160
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2216-04	23C
CONST.	2009	18006-3210-04	23C

SUPERELEVATION=2.0%
TRANSITION TO NORMAL CROWN
NORMAL CROWN
TRANSITION TO SUPERELEVATION
SUPERELEVATION=3.1%

STA. 20+834.970
STA. 20+889.970
STA. 20+948.525
STA. 21+013.525

STA 20+893.053
LOW WIRE ELEV= 560.904m
4 - POWER
1 - CATV

STA 21+134.404
LOW WIRE ELEV= 562.125m
3 - POWER

VPC 20+850.00
EL. 552.3564
VPI 20+900.00
EL. 553.8968
VPT 20+952.00
EL. 554.1949

EXISTING G.L.
FINISHED GRADE
0.5161%
5.0808%
PROP. 5m-450mm SIDE-DRAIN

SEE SHEET NO. 22C
STA. 20+800
MATCH LINE
SEE SHEET NO. 24C
STA. 21+160
MATCH LINE

STA. 20+815.000 SURV. C.L.=
STA. 3+300.000 DUNBAR LANE

STA 20+804.647
EXISTING 340mm RCP
SKEW 82 14'35"LT
FLOWS RIGHT
INLET 548.952m
OUTLET 549.392m
D.A. = 1.17 ha

MH 23 20+804.295 35.035m LEFT
TOP 551.02
INVERT 548.02

MH 24 20+881.065 10.112m LEFT
TOP 554.19
INVERT 550.28
L = 103.0000 m
K = 39
V = 90 km/h

STATION	20+816.394
STRUCTURE	PROP. 600mm RCP
SKEW	55°52'15"
DRAINAGE AREA	4.62 ha
DESIGN DISCHARGE(Q50)	0.796 m³/s
OVERTOPPING ELEV.	551.695
ALLOWABLE HEADWATER ELEV.	551.000
Q50 HEADWATER ELEV.	
Q100 HEADWATER ELEV.	
VELOCITY (Q50)	7.68 m/s
INLET ELEVATION	548.418
OUTLET ELEVATION	546.412
STANDARD DRAWING NUMBERS	DM-PB-1, DM-CB-125B, 125C, 125D
INLET DRAWING NUMBERS	DM-CB-385D
OUTLET DRAWING NUMBERS	DM-PE-48A

MH 25 20+995.073 10.680m LEFT
TOP 554.05
INVERT 551.35

MH 26 21+076.874 1.485m LEFT
TOP 553.88
INVERT 551.79

MH 27 21+154.022 8.545m LEFT
TOP 554.00
INVERT 552.05

STA 21+104.756
EXISTING 910mm RCP
SKEW 75 28'36"LT
FLOWS RIGHT
INLET 549.204m
OUTLET 550.799m
D.A. = 8.82 ha

STATION	21+104.756
STRUCTURE	PROP. 19m-900mm RCP
SKEW	75°26'36"
DRAINAGE AREA	6.67 ha
DESIGN DISCHARGE(Q50)	0.965 m³/s
OVERTOPPING ELEV.	554.826
ALLOWABLE HEADWATER ELEV.	554.500
Q50 HEADWATER ELEV.	553.027
Q100 HEADWATER ELEV.	553.113
VELOCITY (Q50)	4.6 m/s
INLET ELEVATION	551.075
OUTLET ELEVATION	548.595
STANDARD DRAWING NUMBERS	DM-PB-1
INLET DRAWING NUMBERS	DM-PE-48A
OUTLET DRAWING NUMBERS	DM-PE-38A

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 20+800 TO STA. 21+160
SCALES: 1:500 HORIZ.
1:50 VERT.

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

FOR CONST. FIELD REVIEW ONLY

SOUTHBEND DR.		SOUTHBEND DR.	
PI	5+036.250	PI	5+082.929
N	178855.7383	N	178901.7608
E	688272.5983	E	688261.8921
Δ	23°19'36"	Δ	15°32'54"
R	100.000	R	50.000
L	40.713	L	13.568
T	20.642	T	6.826
E	2.108	E	0.464
L.C.	40.432	L.C.	13.527
S.E.	0.000	S.E.	0.000
TRANS. LENGTH	0	TRANS. LENGTH	0
DESIGN SPEED	70	DESIGN SPEED	70

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	24
CONST.	2009	18006-3210-04	24

REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO. 153. CHANGED PROPOSED BUS. ENT. AT STA. 21+453.3 RT FROM 8m TO 6m. ADDED PROPOSED 6m BUS. ENT. AT STA. 21+437.8 RT.

REVISION: 05/12/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO. 143.

REVISION: 04/08/04 ADDED 12m BUS. ENT. AT STA. 21+176.88 RT.

139
FIRST BAPTIST CHURCH

153
CUMBERLAND COUNTY

5+000.000
N 178826.5697
E 688294.1208

21+200 21+300 21+400 21+500

UNDERGROUND TANKS
1@ 4000 gal.
2@ 10000 gal.
FAC. NO. 4-180056

ROBERT W. AGEE
143
1-BL. BUS. MINIT CHECK MKT.
1-F. BUS.
144
1-METAL BUS. SHADDEN TIRE CO.
1-BL. BUS. AL'S PRODUCE
147
148
ALFRED L. MYERS AND WIFE BETTY
JOHN E. BLEVINS
1-BR. BUS. ALLSTATE INS.
149
CUMBERLNAD MEDICAL CENTER, INC.

CUMBERLAND MEDICAL CENTER INC.

CONST. EASEMENT
SLOPE EASEMENT
PROP. & PRESENT R.O.W.
PROP. 1m 600mm RCP
PROP. 1m 1500mm RCP
GAS PUMP AWNING
ASPH. PK.
GRASS
MH 29
INV. 552.533m
INV. 552.211m
INV. 551.995m
INV. 561.114m
SEE SHEET NO. 23
SEE SHEET NO. 25
STA. 21+160
STA. 21+520
MATCH LINE
N 49° 52' 48" W
P/T/CATV
CONST. EASEMENT
3 m CONST. EASEMENT
GRASS C.B.P. RAP
1-ROCK BUS. PLATEAU PHYSICAL THERAPY
GR. PK.
140
MARK BURRIS AND WIFE SUE
FLYNN SIGN CO.
P.O. BOX 424
CROSSVILLE TN 38555
141
1-BL. BUS. CUMBERLAND ORTHOPEDICS
142
ROBERT W. TURNEY
1-BL. BUS. UNIFORM SHOP
1-BR. BUS. FLORAL SHOPPE
146
WILMA B. CRAVENS
CUMBERLAND MEDICAL CENTER, INC.
1-BR. BUS. VOLUNTEER ELEC.
145
VOLUNTEER ELECTRIC COOPERATIVE
136
WILMA B. CRAVENS
BEGIN STREAM

POINT	TOP	INVERT
MH 27	554.00	552.06
MH 28	554.88	553.33
MH 29	555.61	554.01

POINT	TOP	INVERT
CB 1	555.24	553.65
MH 1	557.66	554.92
CB 2	559.19	555.71

NOTE: GAS LINES HAVE 0.75 m OF COVER
NOTE: WATER LINES HAVE 0.75 m OF COVER
NOTE: POWER LINES HAVE 0.75 m OF COVER

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR $ 0.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 21+160 TO STA. 21+520
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET No.
R.O.W.	2001	18006-2210-04	24A
CONST.	2008	18006-3210-04	24A

REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO. 153. CHANGED PROPOSED BUS. ENT. AT STA. 21+453.3 RT FROM 8m TO 6m. ADDED PROPOSED 6m BUS. ENT. AT STA. 21+437.8 RT.

REVISION: 05/12/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO. 143.

REVISION: 04/08/04 ADDED 12m BUS. ENT. AT STA. 21+176.88 RT.

FOR CONST. FIELD REVIEW ONLY

INSET 2

21+237.524
18.426 m
(60.45 ')

N49°40'10"W
11.960 m
(39.24')

21+849.321
18.337 m
(60.16 ')

S88°20'49"W
10.493 m
(34.43')

21+230.002
25.568 m
(83.88 ')

N88°20'51"E
19.383 m
(63.59')

S1°39'9"E
8.000 m
(26.25')

21+235.299
31.423 m
(103.10')

(139) FIRST BAPTIST CHURCH

(153) CUMBERLAND COUNTY

21+200 21+300 21+400 21+500

ROBERT W. AGEE (143)

(144)

ALFRED L. MYERS AND WIFE BETTY (147)

(148) JOHN E. BLEVINS

(149) CUMBERLNAD MEDICA CENTER, INC.

CUMBERLAND MEDICAL CENTER INC.

S38°52'38"E 37.788 m (124.04') S25°20'7"W

35.299 m (115.810') N39°42'25"W

384 m (80.000') N48°24'...

24.395 m (80.034') S50°14'15"W

73.762 m (242.000') N67°45'45"W

48.836 m (155.661') S39°41'19"W

49.046 m (160.88') S40°31'37"W

51.095 m (167.635') S40°45'15"W

15.241 m (50.002') N49°45'00"W

42.041 m (137.99') S40°45'15"W

28.835 m (68.357') N49°45'00"W

21+504.091
18.019m
(59.12')

11.730 m (38.482') N47°50'50"W

21+515.856
19.517m
(64.03')

21+484.312
18.063m
(59.26')

21+545.469
17.754m
(58.25')

SEE SHEET NO. 23A

SEE SHEET NO. 25A

STA. 21+160

STA. 21+520

MATCH LINE

MATCH LINE

R=561.869 m
L=79.569 m
(R=1850.29')
(L=261.05')

CONST. EASEMENT

SLOPE EASEMENT

PROP. & PRESENT R.O.W.
N49°45'21"W
29.195 m(95.76')

21+233.928
18.382m
(60.31')

21+263.459
18.558m
(60.89')

74.836 m (245.525')
N49°45'06"W

21+338.315
18.392m
(60.34')

92.091 m (302.135')
N49°45'00"W

N49°45'00"W
37.666 m (123.57')

21+430.406
18.183m
(59.66')

21+468.072
18.098m
(59.38')

L=47.051 m (154.365')
R=600.413 m (1969.855')

L=61.016 m (200.183')
R=600.413 m (1969.855')

21+167.253
18.894m
(61.99')

21+234.722
18.498m
(60.69')

21+226.497
18.625m
(61.11')

DRAINAGE EASEMENT SEE INSET 2

CONST. EASEMENT

21+256.429
18.327m
(60.13')

53.340 m (175.000')
N49°49'30"W

21+309.707
18.359m
(60.28')

FROP. & PRESENT R.O.W.

N49°49'30"W
46.717 m
(153.27')

21+356.423
18.406m
(60.38')

60.987 m (200.089')
N49°49'30"W

21+417.444
18.463m
(60.58')

69.654 m (228.546')
N49°49'30"W

3 m CONST. EASEMENT

21+487.072
18.530m
(60.79')

N49°4'59"W
42.799 m
(140.42')

N49°4'59"W
42.799 m
(140.42')

N39°45'52"E 62.181 m (204.07')

N39°45'52"E 59.173 m (194.10')

N39°43'04"E 60.396 m (198.18')

N39°43'04"E 60.396 m (198.18')

N40°22'15"E

N39°57'51"E

N40°22'15"E 46.883 m (153.82')

FLYNN SIGN CO. (141)

(140) MARK BURRIS AND WIFE SUE

60.893 m (199.781')
N48°37'05"W

(142) ROBERT W. TURNEY

(146) WILMA B. CRAVENS

CUMBERLAND MEDI CENTER, INC.

54.946 m (114.652')
N51°52'03"W

(150)

(145) VOLUNTEER ELECTRIC COOPERATIVE

(136) WILMA B. CRAVENS

MET-RIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

RIGHT-OF-WAY DETAILS

STA. 21+160 TO STA. 21+520

S.R. 28 / U.S. #27

SCALE: 1:500

Survey & Design Division

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

24-FEB-2010 15:46
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SOUTHBEND DR.
PI 5+036.250
N 178855.7383
E 688272.5983
Δ 23°19'36"
R 100.000
L 40.713
T 20.642
E 2.108
L.C. 40.432
S.E. 0.000
TRANS. LENGTH 0
DESIGN SPEED 80

SOUTHBEND DR.
PI 5+082.929
N 178901.7608
E 688261.8921
Δ 15°32'54"
R 50.000
L 13.568
T 6.826
E 0.464
L.C. 13.527
S.E. 0.000
TRANS. LENGTH 0
DESIGN SPEED 80

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	24B
CONST.	2009	18006-3210-04	24B

REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO. 153. CHANGED PROPOSED BUS. ENT. AT STA. 21+453.3 RT FROM 8m TO 6m. ADDED PROPOSED 6m BUS. ENT. AT STA. 21+437.8 RT.

REVISION: 04/08/04 ADDED 12m BUS.ENT. AT STA. 21+176.88 RT.

N
E
5+000.000
178826.5697
688294.1208
S 25° 20" W

21+200
21+300
21+400
21+500

SEE SHEET NO. 23B
STA. 21+160
MATCH LINE
SEE SHEET NO. 25B
STA. 21+520
MATCH LINE

GG1 #12 GT. EL. 555.012 OUT.EL. 553.562

STA. 21+200
8.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+030.000

GG6 #12 GT. EL. 555.694
IN. EL. 553.878
IN. EL. 552.239
OUT.EL. 552.189

PROP. 4m-1500mm RCP

#MH GT. EL. 555.293
IN. EL. 552.533
IN. EL. 552.823
OUT.EL. 552.508

LL2 #38 GT. EL. 554.000
OUT.EL. 552.877

STA. 21+280.4
12.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+023.374

STA. 21+330
12.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+025.720

PROP. 1m-600mm Y RCP

EXIST 1200mm RCP

GG5 #12 GT. EL. 556.163
IN. EL. 554.713
OUT.EL. 554.663

STA. 21+372
12.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+026.858

GG4 #12 GT. EL. 557.397
IN. EL. 555.947
OUT.EL. 555.897

STA. 21.420.6
12.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+030.174

STA. 21+459
11.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+025.024

GG3 #12 GT. EL. 559.803
IN. EL. 558.353
OUT.EL. 558.303

STA. 21+476
8.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+027.710

LL1 #38 GT. EL. 563.846
OUT.EL. 562.396

GG2 #12 GT. EL. 564.327
IN. EL. 562.877
IN. EL. 562.336
OUT.EL. 562.286

EXISTING 20m-1500mm RCP

PROP. 17.7m-1500mm RCP

TYPE 13
64
14

N 49° 52' 48" W

JJ1 #38 OUT. EL. 551.146
7m CLASS C RIP-RAP

LIMIT OF CONST.
STA. 0+023.661

STA. 21+176.88
12.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+020.030

STA. 21+215
10.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+022.717

STA. 21+283
8.0 m BUS. ENT.
NO S.D. REQD.

HH6 #12 GT. EL. 555.999
IN. EL. 552.018
IN. EL. 553.500
OUT.EL. 551.968

HH5 #12 GT. EL. 555.793
IN. EL. 554.193
IN. EL. 554.075
OUT.EL. 554.025

KK1 #38 GT. EL. 555.715
OUT.EL. 554.265

LIMIT OF CONST.
STA. 0+026.159

STA. 21+346
8.6 m BUS. ENT.
NO S.D. REQD.

JJ3 #38 GT. EL. 556.395
IN. EL. 554.845
OUT.EL. 554.895

HH4 #12 GT. EL. 556.507
IN. EL. 555.057
IN. EL. 554.855
OUT.EL. 554.850

LIMIT OF CONST.
STA. 0+025.842

STA. 21+371
7.4 m BUS. ENT.
NO S.D. REQD.

JJ2 #38 GT. EL. 556.572
IN. EL. 555.237
OUT.EL. 555.187

LIMIT OF CONST.
STA. 0+025.767

STA. 21+408
7.2 m BUS. ENT.
NO S.D. REQD.

JJ1 #38 GT. EL. 557.687
OUT. EL. 556.237

STA. 21+425.3
6.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+026.021

HH3 #12 GT. EL. 559.803
IN. EL. 558.353
OUT.EL. 558.303

STA. 21+437.8
6.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+029.015

LIMIT OF CONST.
STA. 0+029.015

STA. 21+454
6.0 m BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
STA. 0+032.795

STA. 21+479
8.0 m BUS. ENT.
NO S.D. REQD.

HH2 #12 GT. EL. 564.007
IN. EL. 562.557
OUT.EL. 562.507

LIMIT OF CONST.
STA. 0+038.384

STA. 21+495
8.0 m BUS. ENT.
NO S.D. REQD.

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 21+160 TO STA. 21+520
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	24
CONST.	2009	18006-3210-04	24

SUPERELEVATION=3.1%
TRANSITION TO NORMAL CROWN
NORMAL CROWN
TRANSITION TO SUPERELEVATION
STA. 21+207.709
STA. 21+272.709
STA. 21+479.779
STA 21+483.527
LOW WIRE ELEV= 570.572m
3 - POWER
1 - FIBER OPTIC
VPC 21+493.99
EL. 563.4425
VPT 21+480.00
EL. 561.2462
VC = 150.0000 m
K = 25
V = 70 Km/h
VPC 21+310.00
EL. 556.0129
VPT 21+385.00
EL. 556.4000
0.5164%
0.461%
MATCH LINE STA. 21+160 SEE SHEET NO. 23C
MATCH LINE STA. 21+520 SEE SHEET NO. 25C
EXISTING G.L.
FINISHED GRADE
DD1 #12
HH6 #16
DD2 #12
HH5 #12
KK1 #38
GG5 #12
HH4 #12
JJ3 #38
JJ2 #38
GG4 #12
JJ1 #38
GG3 #12
HH3 #12
LL1 #16
GG2 #12
P(UG)
P(UB)
SA
ST
203
304
1219
610
STA 21+258.441
EXISTING 1520mm RCP
SKEW 60°15'09"LT
FLOWS RIGHT
INLET 552.211m
OUTLET 551.995m
D.A. 22.43 ha
MH 28 21+257.226 10.747m LEFT
TOP 554.88
INVERT 551.33
MH 29 21+268.659 40.054m LEFT
TOP 555.61
INVERT 554.01
CB 1 21+322.269 12.207m LEFT
TOP 556.23
INVERT 553.65
MH 3 21+405.757 14.056m LEFT
TOP 557.66
INVERT 554.82
CB 3 21+446.814 18.624m RIGHT
TOP 558.19
INVERT 555.76
STATION 21+258.441
STRUCTURE PROP. 24.7m-1500mm RCP
SKEW 60°15'09"
DRAINAGE AREA 22.43 ha
DESIGN DISCHARGE(Q50) 6.875 m³/s
21+160 21+180 21+200 21+220 21+240 21+260 21+280 21+300 21+320 21+340 21+360 21+380 21+400 21+420 21+440 21+460 21+480 21+500

FOR CONST.
FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROFILE

S.R. 28 / U.S. 127
STA. 21+160 TO STA. 21+520
SCALE: 1:500 HORIZ.
1:50 VERT.

Survey & Design Section

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CUMBERLAND COUNTY, TENNESSEE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2001	18006-2210-04	25
CONST.	2009	18006-3210-04	25

REVISION: 01/06/03 CHANGED PROPERTY OWNERS NAME ON TRACT NO'S. 151 & 152. DELETED PROP. R.O.W. ON TRACT NO.151 DUE TO ENVIROMENTAL CONCERNS.

FOR CONST. FIELD REVIEW ONLY

END PROJECT NO. 18006-2210-04
STA. 21+604.558 R.O.W.

5+200.000
N 178872.5636
E 688198.5327

5+270.699 JUSTICE CENTER DR.
5+100.000 SOUTHBEND DR.
N 178916.8164
E 688253.6686

5+256.647
5.138 m
(16.86')

21+600

21+700

21+800

153 CUMBERLAND COUNTY

154

149

151 CUMBERLAND MEDICAL CENTER

152 MED-ARTS

155 CUMBERLAND MEDICAL CENTER, INC.

CUMBERLAND MEDICAL CENTER, INC.

1-BR. BUS. UROLOGY CLINIC

1-BR. BUS.

2-BR. CUMBERLAND MEDICAL CENTER

1-BR. RES.

N13°05'45"W

N28°38'38"W

N14°56'E

21+586.085 SURV. C.L. JUSTICE CENTER DR.
5+300.000 JUSTICE CENTER DR.
N 178935.1576
E 688276.5203

21+584.132 SURV. C.L. HAYES ST.
0+000.000 P.T. HAYES ST.
N 178933.701
E 688277.819

CURVE DC28109
PI 216+22.540
N 178,954.2304
E 688,244.5412
Δ 23° 20' 42" (RT)
R 582.125
L 237.185
T 120.261
SE
DESIGN SPEED
TRANS. LENGTH

NOTE: GAS LINES HAVE 0.75 m OF COVER
NOTE: WATER LINES HAVE 0.75 m OF COVER
NOTE: POWER LINES HAVE 0.75 m OF COVER

PRESENT R.O.W.
PROP. R.O.W.
PRESENT & PROP. R.O.W.

5.7 m ASPH.
7.6 m ASPH.
5.6 m ASPH.
5.3 m ASPH.
4.4 m ASPH.
13.4 m ASPH.
17.8 m ASPH.
6.1 m ASPH.
2.7 m ASPH.
7.3 m ASPH.
6.6 m ASPH.
7.8 m ASPH.

P/T/CATV
P/T/CATV PARALLEL PARKING
GR. PK.
ASPH. PK.
ASPH.
GRASS
LAWN
WEEDS
CONC. CURB
BUSINESS ENTRANCE
ASPH. PL.
ASPH. PK. DELIVERY ENTRANCE
DELIVERY ENTRANCE PK.
CANOPY
1-METAL BUS. ROY'S CITGO
ISLD TOP 666.05 CLOGGED
10 TANKS
1@ 3000 gal.
1@ 4000 gal.
10 1000 gal.
FAC. 18-4-18067 GRASS

SEE SHEET NO. 24 STA. 21+520

MATCH LINE

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TCRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 21+520 TO STA. 21+810
S.R. 28 / U.S. 127
SCALE: 1:500

Survey & Design Division

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