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ARCADIS US, INC.
1210 PREMIER DRIVE, SUITE 200
CHATTANOOGA, TN

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
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ROADWAY & STRUCTURE DRAWINGS.....	1A
ESTIMATED ROADWAY QUANTITIES	2
TABULATED QUANTITIES	2F

YEAR	PROJECT NO.	SHEET NO.
2025	58S002-S3-004	ROADWAY-SIGN 2
REV. 07.21.25 SHEET ADDED.		
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION		
SIGNATURE SHEET		

ROADWAY INDEX

SHEET NAME	SHEET NO.
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SIGNATURE SHEET	ROADWAY-SIGN2
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STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
10-101.00 STANDARDS ROADWAY DRAWINGS		
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
10-104.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
S-F-1	03-01-23	HIGH VISIBILITY FENCE
S-F-10B	06-28-19	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
10-106.00 SAFETY DESIGN AND GUARDRAILS		
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-CC-1	10-01-24	CRASH CUSHION
S-GR31-1	03-13-25	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRS-3	06-28-19	SPECIAL CASE GUARDRAIL FOOTING
S-GRS-8		SAFETY PLAN AT SIDEROADS OR DRIVEWAYS FOR LOW SPEED ROADWAYS
S-GRT-1A		LAYOUT OF FLARED GUARDRAIL (TL- 3)
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRA-3	01-09-24	TYPE 13 GUARDRAIL ANCHOR

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
S-GR28-3M	01-28-22	GUARDRAIL HEIGHT ADJUSTMENT
10-107.00 EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-33	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-33A	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

STANDARD TRAFFIC DESIGN DRAWINGS

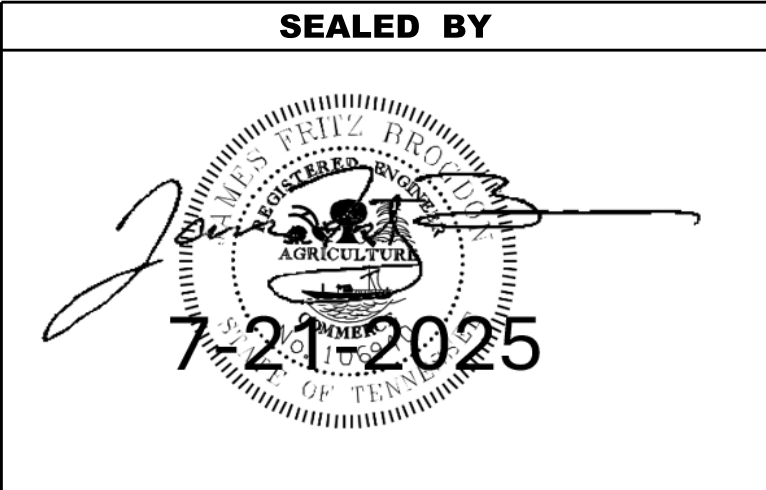
10-200.00 SIGNS		
T-S-20	07-11-17	SIGN DETAILS
10-204.00 PAVEMENT MARKINGS		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
10-205.00 WORK ZONES		
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD
T-WZ-PBR1	03-26-25	INTERCONNECTED PORTABLE BARRIER RAIL
T-WZ-PBR2	03-26-25	DETAILS FOR WORK ZONE CHANNELIZATION DEVICES
T-WZ-PCB3	03-26-25	PORTABLE CONCRETE BARRIER RAIL DETAILS

STANDARD STRUCTURE DRAWINGS

10-301.00 LRFD BOX CULVERTS	
STD-17-1	INDEX OF DRAWINGS
STD-17-2	TERMINOLOGY OF DRAWINGS
STD-17-3	GENERAL NOTES
STD-17-4	DESIGN SECTION LIMITS
STD-17-5	TYPICAL SECTIONS AND DETAILS
STD-17-6	TYPICAL ELEVATION
STD-17-8	EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 6"
STD-17-17	06-01-11 BACKFILL AND DRAINAGE DETAILS
STD-17-18	BACKFILL DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
P-I-H	2025	58S002-S3-004	1A
PS&E	2025	58S002-S3-004	1A

REV. 07.21.25
ADDED SHEET ROADWAY-SIGN2
TO ROADWAY INDEX.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY & STRUCTURE
DRAWINGS

ESTIMATED ROADWAY QUANTITIES				
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58S002-S3-004
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
(16)	202-01.13	REMOVAL OF PIPE (66" CMP)	L.F.	140
	202-01.56	REMOVAL OF STRUCTURES & OBSTRUCTIONS (CB, STA. 13+39.03 OFF. 32.5')	LS	1
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	2443
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	85
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	50
	204-08	FOUNDATION FILL MATERIAL	C.Y.	3
(2), (3)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	96
(4)	209-03.53	STREAM MITIGATION - ARTICULATED CONCRETE MAT	S.Y.	660
(2), (3)	209-05	SEDIMENT REMOVAL	C.Y.	13
(2), (3)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	244
(2), (3)	209-09.01	SANDBAGS	BAG	360
(2), (3)	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	4
(2), (3)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	32
(2), (3)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	222
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	99
(5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	145
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	96
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	0.3
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	3
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	150
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	437
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	5488
	602-01	STRUCTURAL STEEL	LB	180.5
(14)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	13
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB	2550
(6), (7)	604-07.01	RETAINING WALL (R1, STA. 13+00.39 TO STA. 13+33.46 RT)	S.F.	155
(6), (7)	604-07.02	RETAINING WALL (R2, STA. 13+46.30 TO STA. 13+72.10 RT)	S.F.	134
(2)	621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	40
(15)	621-05.02	TEMPORARY SHORING	LS	1
	705-04.09	EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	1
	705-06.02	W BEAM GR (TYPE 2) MASH TL3 (LONG POST)	L.F.	196
	705-06.10	GR TERMINAL TRAILING END (TYPE 13) MASH TL-3	EACH	1
	705-06.11	GR TERMINAL (INLINE) MASH TL-3	EACH	2
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	1
	706-06.03	RADIUS RAIL	L.F.	60
	706-10.26	ROUNDED END ELEMENT	EACH	1
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	130
	707-01.12	END & CORNER POST ASSEMBLY (CHAIN-LINK FENCE 6')	EACH	2
(12)	707-06.01	REMOVAL OF FENCE (TRACT 1)	L.F.	130
(11)	707-06.03	REMOVAL AND RESET FENCE (TRACT 1)	L.F.	130
(2), (3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	43
(2), (3)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	50
(2), (3)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	23
(2), (3)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	16
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	290
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	100
	712-06	SIGNS (CONSTRUCTION)	S.F.	269
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	20
(13)	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	4500
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	40
	712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	2500
	716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	55
	716-01.22	SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO-DIR) (1 COLOR)	EACH	10
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	130
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	55
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	2
	716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	0.1
(18)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	1

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 58S002-S3-004
717-01	MOBILIZATION	LS	1
(10) 730-01.04	MODIFICATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT	LS	1
(2), (3) 740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	240
(2), (3) 740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	619
(2), (3) 801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	9
(2), (3), (8) 801-01.38	NATVE SEED MX FINAL STABILIZATN OF SLOPES	UNIT	14
801-01.65	TEMPORARY MULCH	UNIT	1
(2), (3), (9) 801-03	WATER (SEEDING & SODDING)	M.G.	2
(2), (3) 805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	800

FOOTNOTES

- (1) INCLUDES 29 CUBIC YARDS FOR EPSC AND 2414 FOR GENERAL PROJECT CHANNEL QUANTITY CALCULATED FROM SURFACES. EXCAVATION FOR CONSTRUCTION OF RETAINING WALLS CALCULATED FROM CROSS SECTION END AREAS.
- (2) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (3) FOR EROSION PREVENTION AND SEDIMENT CONTROL.
- (4) FOR STREAM CHANNEL STABILIZATION. TO BE USED AS SPECIFIED ON PLANS. SEE DETAILS SHEETS.
- (5) INCLUDES 15 TONS FOR EPSC AND 130 TONS FOR PAVEMENT REPAIRS.
- (6) RETAINING WALL SHALL BE MSE MODULAR BLOCK FACING RETAINING WALL.
- (7) SEE SPECIAL NOTES SHEET 2D.
- (8) PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 30 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.
- (9) INCLUDES 2000 GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL
- (10) THE COST BID WILL INCLUDE ANY MODIFICATIONS (INCLUDING TIMING) REQUIRED FOR THE TRAFFIC SIGNAL SYSTEM LOCATED AT THE INTERSECTION OF SR-2/US11 @ SHELLMOUND ROAD/PLEASANT GROVE ROAD TO FACILITATE CONSTRUCTION DURING THE DURATION OF THE PROJECT. THIS COST WILL ALSO INCLUDE RETURNING THE TRAFFIC SIGNAL (INCLUDING TIMING) TO ITS ORIGINAL CONDITION AT THE COMPLETION OF THE PROJECT.
- (11) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND RESET THE EXISTING FENCE ON TRACT 1. IT SHALL BE RESET IN A MANNER AS TO ALLOW FOR CONSTRUCTION OF THE PROPOSED CHANNEL AND MAINTAIN ACCESS CONTROL FOR TRACT 1. THE RESET LOCATION SHALL BE COORDINATED WITH THE OWNER OF TRACT 1.
- (12) AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, THE REMOVAL SHALL BE COORDINATED WITH INSTALLATION OF THE PROPOSED FENCE AS TO MAINTAIN ACCESS CONTROL TO TRACT 1. THE REMOVAL AND INSTALLATION SHALL BE COORDINATED WITH THE OWNER OF TRACT 1.
- (13) TO BE USED AT THE DIRECTION OF THE ENGINEER.
- (14) INCLUDES 2 CUBIC YARDS FOR SPECIAL GUARDRAIL FOOTING.
- (15) ESTIMATED AT 400 SF TO BE USED AS NECESSARY TO FACILITATE CONSTRUCTION OF THE RETAINING WALL AND BOX CULVERT EXTENSION.
- (16) THE REMOVED PIPE SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL.
- (17) FOR SPECIAL GUARDRAIL FOOTING
- (18) CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
P-I-H	2025	58S002-S3-004	2
PS&E	2025	58S002-S3-004	2

REV. 07.21.25
ADDED ITEM 105-01 CONSTRUCTION STAKES,
LINES AND GRADES. REVISED 604-01.01 AND
604-01.02.

SEAL BY

James F. Kelly

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PROVOST

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

REV. 07.21.25
REVISED BOX CULVERT TABULATION.

TOPSOIL							
IF EXISTING TOPSOIL IS SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
8766	163	0	163	85	85	0	78
IF EXISTING TOPSOIL IS NOT SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
0	N/A	N/A	N/A	0	N/A	0	N/A

ESTIMATED GRADING QUANTITIES									
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY				
		EXC.	EMB.	EXC.	SHRINK = 20 % SWELL = 20 %				
MAINLINE		305	6	244	<div> <div>EXC.</div> <div>EMB.</div> </div> <div>1824 VS. -14</div> <div>AVAILABLE = 1810</div> <div>WASTE MATERIAL = 2172</div>				
SIDE ROADS		0	0						
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		0	0						
INDEPENDENT DITCHES		1946	8	1557					
TEMPORARY CONSTRUCTION EXITS		29	0	24					
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)		0	0						
TOPSOIL (EMB.)		0							
TOPSOIL (EXC.)		163							
TOPSOIL TOTALS (SEE TOPSOIL TABLE)									
ROCK (C.Y.)		TOTALS (C.Y.)							
EXC.	EMB.	EXC. (UNCL.) EMB. (UNCL.)		EXC (COMMON)		EXC. (AVAIL.)		EXC. (ADJ.)	
0	0	2443	14	2443	2280	1824			

PROPOSED GUARDRAIL													
SHEET NO.	LOCATION												
		SIDE		STATIONS		W BEAM GR (TYPE 2) LONG POST MASH TL3 705-06.02 (L.F.)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)	EARTH PAD FOR TYPE 38 GR END TREATMENT 705-04.09 (EACH)	GR TERMINAL TRAILING END (TYPE 13) MASH TL-3 705-06.10 (EACH)	GR TERMINAL (INLINE) MASH TL3 705-06.11 (EACH)	RADIUS RAIL 706-06.03 (L.F.)	ROUNDED END ELEMENT 706-10.26 (EACH)	REMARKS
						LT	RT	FROM	TO				
4	SR 2		X	11+83.37	14+21.37	196	1	1	1	2	60	1	
TOTALS						196	1	1	1	2	60	1	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**TABULATED
QUANTITIES**