ADDENDUM NO. 4

June 30, 2025

Reference: **New Canada Road (PIN 107036.00)**
City of Lakeland
Shelby County, TN

The following additions, deletions, and/or revisions shall be made part of the Plans dated **August 30, 2024,** for the referenced project. This addendum shall have precedence over the plans and specifications on all items listed and described herein; however, it shall not change the intent and requirement of the plans and specifications for any item not specifically mentioned.

ITEM NO. 1

Please replace the Bid Form in the Bid Book with the attached revised Bid Form dated June 30, 2025.

ITEM NO. 2

The following plan sheets have been revised and are included with this addendum: 2, 2-2, 2F1, 2F2, 2G13, 8B, 11 and T1B.

Questions:

Question 1: *Are there any exterior finish requirements for Retaining Walls 2 and 3?*

Response: Surface finish on exposed face of wall shall be 'Random Cut' Ashlar Stone Pattern, Color shall be Federal Specification No. 36440-Grey. Limits of formliner shall be from top of wall to minimum 1' below proposed groundline. Reinforcement on near side of wall face shall have a minimum clear cover of 2" after formliner is installed.

Question 2: *Sheet No. 11 shows a church sign to be removed and reconstructed near Station 193+00. Is the contractor responsible for this relocation?*

- *If the contractor is responsible for this relocation, who is responsible for relocating what looks to be power/lighting for the sign?*
- *How is this to be measured and paid if it is the contractor's responsibility to relocate the sign?*

Response: The Contractor shall remove the sign but is not responsible for reconstruction of sign. The sign shall be delivered to the church. Please coordinate delivery of sign with church Pastor - Kirk Kilpatrick (901)372-1179.

Question 3: *Traffic Control Plan Sheet T1A calls out a 2-lane temporary road from Station 179+64 – 187+88. Is a typical section available for this temporary road? Will the installation and removal of the temporary road be measured and paid under the respective items of work?*

Response: Pavement section for temporary road shall consist of 10" – 303-01 (Mineral Aggregate, Type A Base, Grading D); 3" – 307-01.01 (Asphalt Concrete Mix, PG64-22, BPMB-HM, Grading A) and 2" of 307-01.08 (Asphalt Concrete Mix, PG64-22, BPMB-HM, Grading BM2). Temporary road will consist of two – 11' lanes with 4' gravel shoulders. These quantities were added to the Traffic Control Quantities, Estimated Roadway Quantities and Bid Form. Please note that the removal of the temporary road will not be measured for payment, but is considered incidental to Pay Item 203-10, Embankment (Compacted In Place).

Question 4: *Who is responsible for disconnecting utilities from the existing structures to be demolished under pay items 202-06.01 and 202-06.02?*

Response: Contractor is responsible for contacting MLGW to initiate disconnection and removal of utilities. The City of Lakeland will directly pay MLGW any fees associated with disconnection and removal, if applicable.

Question 5: *Please clarify method of measurement and payment for the detention basin Outlet Control Structures, Drainage Structure Codes 30 and 38C. These structures do not appear to be included in the other drainage structure pay item quantities.*

Response: Added Pay Item 611-42.02, Type 42 Catch Basin, 4' – 8' depth to the Catch Basin Tabulation, Estimated Roadway Quantities and the Bid Form.

Question 6: *Drainage Structure Codes 47 and 85 are shown to be No. 38 catch basins. There is no pay item for a No. 38 Catch Basin. Please clarify.*

Response: Added Pay Item 611-38.03 and 611-38.05 to the Catch Basin Tabulation, Estimated Roadway Quantities and the Bid Form.

Question 7: *Is a detail available for the 6' Vinyl Coated Chain Link Fence and 12' Wide Gates?*

Response: Added 6' chain link fence and 12' wide gate detail to Plan Sheet.

Question 8: *Please address if the following items shall be the responsibility of the contractor, or whether they will be addressed by the local utility provider (Stations 182+50 to 196+00; Sheet 11).*

- *Station 186+45 (Water meter will need to be relocated)*
- *Station 190+40 (Water meter will need to be relocated)*
- *Station 190+70 (Fire Hydrant will need to be relocated)*
- *Station 191+35 (Water meter and gas valve will need to be relocated)*

Response: New Canada Road Contractor will not be responsible for relocating water meters, fire hydrant and gas valve. MLGW is responsible for the relocation of each of these items during construction. MLGW has hired ENSCOR to place a new water main

along the New Canada Road alignment after new roadbed has been graded by the roadway contractor. ENSCOR will be responsible for the water-related adjustments.

Question 9: *Will the following storm drain items be in conflict with the gas lines (Stations 182+50 to 196+00; Sheet 11D)?*

- *Structure #128 to Structure #130*
- *Structure #130 to Structure #132*

Response: The proposed storm drain runs listed above will not be in conflict with the Boardwalk gas lines. Boardwalk installed new gas in a prior move to accommodate the roadway project.

Question 9: *How is the handrail on top of Retaining Walls 2 and 3 to be paid for?*

Response: Proposed handrail will not be measured separately for payment, but will be considered incidental to the cost of the retaining walls.

Bidder Must Acknowledge Receipt of this Addendum, utilizing the attached "Addenda Acknowledgement Form." The acknowledgment form must be submitted with the bid package.

END OF ADDENDUM NO. 4

Project Name: City of Lakeland – New Canada Road

Project Number: PIN 107036.00

ADDENDA ACKNOWLEDGEMENT FORM

Bidder acknowledges receipt of the following addenda (as applicable):

Addendum No. 1 _____ Date _____

Addendum No. 2 _____ Date _____

Addendum No. 3 _____ Date _____

Addendum No. 4 _____ Date _____

_____
(Name of Bidder)

By: _____

Title: _____

PIN 107036.00 - NEW CANADA ROAD BID FORM - Revised June 30, 2025

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL ($)
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS		1	
201-01	CLEARING AND GRUBBING	LS		1	
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS		1	
202-06.01	REMOVAL OF BUILDINGS (TRACT NO.49)	LS		1	
202-06.02	REMOVAL OF BUILDINGS (TRACT NO.49)	LS		1	
202-02.21	REMOVAL OF PIPE (15")	L.F.		84	
202-02.22	REMOVAL OF PIPE (18")	L.F.		628	
202-02.23	REMOVAL OF PIPE (24")	L.F.		41	
202-02.24	REMOVAL OF PIPE (36")	L.F.		252	
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.		1,304	
203-03.10	SELECT GRANULAR MATERIAL	TON		45,000	
203-04	PLACING AND SPREADING TOPSOIL	C.Y.		34,062	
203-05	UNDERCUTTING	C.Y.		31,878	
203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.		170,860	
204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.		100	
209-05	SEDIMENT REMOVAL	C.Y.		2,043	
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.		10,342	
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.		11,135	
209-08.07	ROCK CHECK DAM	EACH		40	
209-08.08	ENHANCED ROCK CHECK DAM	EACH		28	
209-08.09	FILTER SOCK CHECK DAM	EACH		8	
209-09.01	SANDBAGS	BAG		1,588	
209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH		1	
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH		37	
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.		214	
209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH		1	
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH		4	
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH		1	
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH		6	
209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH		1	
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH		60	
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH		13	
209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH		1	
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.		397	
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON		49,491	
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON		172	
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON		1,103	
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON		4,869	
307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON		7,208	
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON		9,210	
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON		6,033	
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON		123	
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON		485	
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON		385	
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON		1,541	
411-01.10	ACS MIX(PG64-22) GRADING D	TON		979	
411-02.10	ACS MIX(PG70-22) GRADING D	TON		3,038	
415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.		2,913	
604-03.07	CLASS A CONCRETE (ISLANDS AND MEDIANS)	C.Y.		26	
604-07.02	RETAINING WALL (RETAINING WALL 2)	S.F.		5,364	
604-07.03	RETAINING WALL (RETAINING WALL 3)	S.F.		4,823	
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.		5,389	
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.		1,449	
607-05.05	24" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.		86	
607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.		764	
607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.		446	

607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.		204	
607-57.01	REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.		122	
611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH		1	
611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH		4	
611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH		3	
611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH		5	
611-02.11	JUNCTION BOX, TYPE 2	EACH		1	
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.		3	
611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.		140	
611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH		12	
611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH		10	
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH		6	
611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH		14	
611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH		3	
611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH		5	
611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH		1	
611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH		1	
611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH		5	
611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH		52	
611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH		6	
611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH		4	
611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH		15	
611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH		1	
611-38.03	CATCH BASINS, TYPE 38, > 8' - 12' DEPTH	EACH		1	
611-38.05	CATCH BASINS, TYPE 38, > 16' - 20' DEPTH	EACH		1	
611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH		1	
611-42.02	CATCH BASINS, TYPE 42, >4' - 8' DEPTH	EACH		2	
611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH		1	
621-05.01	TEMPORARY SHORING	S.F.		2,347	
701-01.01	CONCRETE SIDEWALK (4 ")	S.F.		3,035	
701-01.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY	S.F.		156	
701-02.03	CONCRETE CURB RAMP	S.F.		5,352	
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.		1,279	
703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.		141	
707-02.11	CHAIN-LINK FENCE (6 FOOT) (VINYL COATED)	L.F.		3,137	
707-02.13	GATE - CHAIN-LINK FENCE-6',VINYL COATED (12' WIDE)	EACH		3	
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.		2,401	
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON		2,002	
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON		1,128	
709-05.08	MACHINED RIP-RAP (CLASS B)	TON		1,126	
709-05.09	MACHINED RIP-RAP (CLASS C)	TON		339	
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.		15,500	
710-05	LATERAL UNDERDRAIN	L.F.		500	
710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH		2	
710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH		19	
712-01	TRAFFIC CONTROL	L.S.		1	
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH		417	
712-06	SIGNS (CONSTRUCTION)	S.F.		1,235	
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.		948	
713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.		6,250	
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.		545	
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.		200	
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS		1	
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH		3	
714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.		9,500	
714-03.03	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 80)	L.F.		1,200	
714-05.05	PULL BOXES (14" X 24" X 12")	EACH		3	
714-06.07	CABLE (1/C #2 AWG)	L.F.		36,391	
714-06.08	CABLE (#6 COPPER SOFT DRAWN BARE - GROUND)	L.F.		12,130	
714-08.09	LIGHT STANDARD (30' WITH MAST ARM)	EACH		23	
714-08.10	LIGHT STANDARDS (BOLLARD)	EACH		94	

714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH		23	
714-09.47	LED LUMINAIRES (30 WATT)	EACH		41	
714-12.01	CONTROL CENTER (NO. 1)	LS		1	
714-25.01	ELECTRICAL CONNECTION (CONTROL CENTER NO. 1)	LS		1	
716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.		1,668	
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.		26	
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.		452	
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		33	
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.		187	
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.		293	
716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.		1	
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH		11	
716-03.09	PLASTIC WORD PAVEMENT MARKING (YIELD)	EACH		8	
716-03.10	PLASTIC WORD PAVEMENT MARKING (AHEAD)	EACH		8	
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		4	
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH		11	
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.		119	
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		23	
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.		592	
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH		13	
716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH		1	
716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH		7	
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.		14.8	
716-06.01	PAINTED WORD PVMT MARK (ONLY)	EACH		9	
716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		106	
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.		255	
716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH		5	
716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		3	
716-08.09	REMOVAL OF PAVEMENT MARKING (DOTTED LINE)	L.F.		134	
716-08.11	REMOVAL OF WORD PAVEMENT MARKING (ONLY)	EACH		5	
716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.		1.1	
716-08.23	REMOVAL OF PAVEMENT MARKINGS (STRAIGHT ARROW)	EACH		5	
716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.		11	
716-13.03	SPRAY THERMO PVMT MRKNG (60 MIL) (8IN BARRIER LINE)	L.F.		186	
717-01	MOBILIZATION	LS		1	
730-50.20	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (SOLAR POWERED)	EACH		8	
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.		7,094	
740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.		28,600	
740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.		7,416	
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT		258	
801-01.65	TEMPORARY MULCH	UNIT		170	
801-03	WATER (SEEDING & SODDING)	M.G.		1,546	
803-01	SODDING (NEW SOD)	S.Y.		150,862	
920-10.01	CONCRETE PEDESTRIAN CROSSWALK	S.F.		8,223	
920-10.04	MAILBOX REPLACEMENT	EACH		7	
TOTAL BID AMOUNT =					

Total in Words:

Contractor:

Phone:

Authorized Representative:

Print Name:

Date:

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79LPLM-F1-032
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(2)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
(2)	202-06.01	REMOVAL OF BUILDINGS (TRACT NO.49)	LS	1
(2)	202-06.02	REMOVAL OF BUILDINGS (TRACT NO.49)	LS	1
(2)	202-02.21	REMOVAL OF PIPE (15")	L.F.	84
(2)	202-02.22	REMOVAL OF PIPE (18")	L.F.	628
(2)	202-02.23	REMOVAL OF PIPE (24")	L.F.	41
(2)	202-02.24	REMOVAL OF PIPE (36")	L.F.	252
(17)(18)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1304
	203-03.10	SELECT GRANULAR MATERIAL	TON	45000
(24)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	34062
	203-05	UNDERCUTTING	C.Y.	31878
(1)(7)	203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.	170860
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	100
(18)	209-05	SEDIMENT REMOVAL	C.Y.	2043
(18)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	10342
(18)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	11135
(18)	209-08.07	ROCK CHECK DAM	EACH	40
(18)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	28
(18)	209-08.09	FILTER SOCK CHECK DAM	EACH	8
(18)	209-09.01	SANDBAGS	BAG	1588
(18)	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	1
(18)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	37
(18)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	214
(18)	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	1
(18)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	4
(18)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	1
(18)	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	6
(18)	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	2
(18)	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	60
(18)	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	13
(18)	209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	1
(18)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	397
(7)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	49491
(18)(20)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	172
(7)	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1103
(7)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4869
(7)	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	7208
(7)	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	9210
(7)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	6033
(7)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	123
(3)(7)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	485
(7)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	385
(7)	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	1541
(7)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	979
(7)	411-02.10	ACS MIX(PG70-22) GRADING D	TON	3038
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	2913
(7)	604-03.07	CLASS A CONCRETE (ISLANDS AND MEDIANS)	C.Y.	26
(14)	604-07.02	RETAINING WALL (RETAINING WALL 2)	S.F.	5364
(14)	604-07.03	RETAINING WALL (RETAINING WALL 3)	S.F.	4823

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 79LPLM-F1-032
(5)(12)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	5389
(5)(12)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1449
(5)(12)	607-05.05	24" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	86
(5)(12)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	764
(5)(12)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	446
(6)(12)	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	204
(6)(12)	607-57.01	REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.	122
(4)	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	1
(4)	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	4
(4)	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	3
(2)	611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	5
(4)	611-02.11	JUNCTION BOX, TYPE 2	EACH	1
(5)	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
(5)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	140
(6)	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	12
(6)	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	10
(5)	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	6
(5)	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	14
(5)	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
(5)	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	5
(5)	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
(5)	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
(5)	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
(4)	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	52
(4)	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	6
(4)	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
(4)	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	15
(4)	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
(4)	611-38.03	CATCH BASINS, TYPE 38, > 8' - 12' DEPTH	EACH	1
(4)	611-38.05	CATCH BASINS, TYPE 38, > 16' - 20' DEPTH	EACH	1
(4)	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
(4) (36)	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	2
(4)	611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH	1
	621-05.01	TEMPORARY SHORING	S.F.	2347
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	3035
	701-01.07	EXPOSED AGGREGATE CONCRETE DRIVEWAY	S.F.	156
(7)(13)	701-02.03	CONCRETE CURB RAMP	S.F.	5352
(15)	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	1279
(16)	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.	141
(19)	707-02.11	CHAIN-LINK FENCE (6 FOOT) (VINYL COATED)	L.F.	3137
(19)	707-02.13	GATE - CHAIN-LINK FENCE-6',VINYL COATED (12' WIDE)	EACH	3
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1877
(18)(21)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	2002
(22)(28)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1128
(5)(18)(32)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1126
(5)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	339
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	15500
	710-05	LATERAL UNDERDRAIN	L.F.	500
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	2
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	19

REVISIONS:

DATE: 6/23/2025
REMOVED PAY ITEMS: 209-40.42, 604-07.07, & 606-24.10. ADDED PAY ITEM 621-05.01. REVISED QUANTITY FOR PAY ITEMS: 209-08.03, 209-08.07, 209-09.43, 209-40.33, 209-40.41, 209-40.44, 209-40.46, 209-40.47, 402-01, 402-02, 403-01, 607-06.02, 709-05.06, & 709-05.08.

DATE: 6/30/2025
ADDED PAY ITEMS 611-38.03, 611-38.05, & 611-42.02. REVISED QUANTITY FOR PAY ITEMS; 303-01, 307-01.01, 307-01.08, 402-01, 402-02, & 403-01

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANICO — REGISTERED ENGINEER — No. 109251 — STATE OF TENNESSEE
06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2

DIVISION OF ENGINEERING
NEW CANADA ROAD
ESTIMATED ROADWAY QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012 PROJECT NO.: D7008
DESIGN BY: J.T.P. DATE: 07/2022 BOOK:
DRAWN BY: T.J.H. DATE: 07/2022 SCALE: NTS

REVIEWED

DATE CITY ENGINEER DATE

6/30/2025 3:52:14 PM
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FOOTNOTES

(1) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(2) SEE TABULATED QUANTITIES SHEET 2F.
(3) ITEM TO BE USED AS DIRECTED BY THE ENGINEER.
(4) SEE TABULATED QUANTITIES SHEET NOS. 2F1 TO 2F3.
(5) SEE TABULATED QUANTITIES SHEET 2F4.
(6) SEE TABULATED QUANTITIES SHEET 2F5.
(7) SEE TABULATED QUANTITIES SHEETS 2F7.
(8) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(9) TO BE USED FOR TEMPORARY TRAFFIC CONTROL STRIPING.
(10) SEE SHEET T1B FOR SCHEDULE, ADDITIONAL SIGNS INSTALLED AS DIRECTED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT COST FOR THIS ITEM.
(11) SEE SHEET NOS. R-7 AND R-8.
(12) THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.
(13) SEE TABULATED QUANTITIES SHEET 2F6.
(14) ALL COST OF BUILDING AND INSTALLING THE RETAINING WALL, INCLUDING FOUNDATION PREPARATION, BACKFILLING, AND EXCAVATION SHALL BE INCLUDED IN THE SQUARE FOOTAGE COST OF THE RETAINING WALL.
(15) ITEM INCLUDES 929 CY FOR TYPE 6-30 AND 350 CY FOR TYPE 6-18. SEE TYPICAL SECTION SHEETS 2B THROUGH 2B10.
(16) SEE "V" - BOTTOM SPECIAL DITCH DETAIL ON SHEET 2B9.
(17) THIS ITEM IS ONLY TO BE USED FOR EPSC RELATED ITEMS. ROAD AND DRAINAGE EXCAVATION RELATED TO ROADWAY IS NOT TO BE MEASURED FOR PAYMENT, BUT IS CONSIDERED INCIDENTAL TO PAY ITEM 203-10, EMBANKMENT COMPACTED IN PLACE.
(18) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(19) VINYL COATING TO BE BLACK IN COLOR.
(20) ITEM INCLUDES 172 TONS FOR EPSC MEASURE.
(21) ITEM INCLUDES 2002 TONS FOR EPSC MEASURE.
(22) ITEM INCLUDES 1128 TONS FOR EPSC MEASURE.
(23) SEE DETAIL SHEET 2G12.
(24) 2500 CY TO BE USED IN AREAS DESIGNATED TO BE SCARIFIED.
(25) ALL COST OF BUILDING AND INSTALLING THE CONCRETE PEDESTRIAN CROSSWALK, INCLUDING ALL MATERIAL COST, SHALL BE INCLUDED IN THE SQUARE FOOTAGE COST OF THE CONCRETE PEDESTRIAN CROSSWALK. SEE DETAIL SHEET 2G1.
(26) SEE MLG&W STANDARD DRAWING 41-0260A FOR PRECAST CONCRETE ELECTRIC STREET LIGHT PULLBOX.
(27) 4' DUAL MAST ARMS AND 4' SINGLE MAST ARM.
(28) 2.43 TONS WILL BE USED FOR CROSS DRAINS.
(29) EACH UNIT SHALL INCLUDE ALL COMPONENTS NECESSARY TO INSTALL THE BOLLARD LIGHT.
(30) EACH UNIT SHALL INCLUDE A CONNECTION FROM MLG&W TRANSFORMER.
(31) ALL LIGHTING CONDUIT TO BE INSTALLED PRIOR TO PAVING OPERATIONS AND THE INSTALLATION OF THE SHARED USE PATHS AND CURB AND GUTTER.
(32) ITEM INCLUDES 1126 TONS FOR EPSC MEASURE.
(33) CONTRACTOR SHALL PROVIDE TREE STAKING FOR ALL TREES, AS SHOWN IN THE TYPICAL PLANTING DETAILS ON SHEET 4C. STAKING AND ALL OTHER ITEMS NECESSARY FOR INSTALLATION SHALL BE INCLUDED IN THE PAY ITEM FOR EACH TREE.
(34) HOLOPHANE PART NUMBER "CHA XX SL6 16D BK DBB RXXXY" WITH " BWKT 1600R 1200BC 075AB XX".
(35) DUAL AND SINGLE LUMINAIRE USE.
(36) STRUCTURES BASED ON STANDARD DRAWING D-CB-42SB WITH THE LID AND GRATE BEING REPLACED BY A GALVANIZED TRASH RACK. SEE SHEETS 2G2 & 2G3 FOR ADDITIONAL DETAILS.

REVISIONS:

DATE: 6/30/2025
ADDED FOOTNOTE 36.

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANKEY REGISTERED ENGINEER 102... STATE OF TENNESSEE
06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2-2

DIVISION OF ENGINEERING
NEW CANADA ROAD
ESTIMATED ROADWAY QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012
DESIGN BY: J.T.P. DATE: 07/2022
DRAWN BY: T.J.H. DATE: 07/2022

PROJECT NO.: D7008
BOOK:
SCALE: NTS

REVIEWED

DATE CITY ENGINEER DATE

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REVISIONS:

DATE: 6/30/2025
ADDED TYPE 42 INLETS AND FOOTNOTE FOR STRUCTURES 30 & 38C.

CATCH BASINS, DROP INLETS, MANHOLES AND JUNCTION BOXES

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 12 611-12.04 12' - 16'	TYPE 14 611-14.02 4' - 8'	TYPE 14 611-14.03 8' - 12'	TYPE 38 611-38.03 8' - 12'	TYPE 38 611-38.05 16' - 20'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'	TYPE 43 611-43.02 4' - 8'	TYPE 3 611-01.02 4' - 8'	TYPE 3 611-01.03 8' - 12'	TYPE 3 611-01.04 12' - 16'	JUNCTION BOX TYPE 2 611-02.11
	4B	New Canada Road	100+05.00	-34.50	1	403.81	14	8' x 3'	4.47	D-CB-14P				1										
	4B	New Canada Road	100+05.00	34.50	2	403.81	12	4' x 3'	4.47	D-CB-12P	1													
	4B	New Canada Road	100+55.00	34.50	3	403.60	12	4' x 3'	4.63	D-CB-12P	1													
	4B	New Canada Road	101+48.00	34.50	4	402.99	14	8' x 3'	4.70	D-CB-14P				1										
	4B	New Canada Road	101+56.00	-34.50	5	403.04	12	4' x 3'	4.50	D-CB-12P	1													
	4B	New Canada Road	101+76.00	-34.50	6	403.02	14	8' x 3'	4.71	D-CB-14P				1										
	4B	New Canada Road	101+96.00	-34.50	7	403.04	12	4' x 3'	5.29	D-CB-12P	1													
	4B	New Canada Road	102+25.00	34.50	8	403.14	12	4' x 3'	5.27	D-CB-12P	1													
	4B	New Canada Road	102+70.00	-34.50	10	403.37	12	4' x 3'	10.73	D-CB-12P		1												
	4B	New Canada Road	102+70.00	34.50	11	403.37	12	4' x 3'	5.80	D-CB-12P	1													
	4B	New Canada Road	104+20.00	-34.50	12	404.12	12	4' x 3'	4.42	D-CB-12P	1													
	4B	New Canada Road	104+20.00	34.50	13	404.12	12	4' x 3'	4.42	D-CB-12P	1													
	4B	New Canada Road	106+80.00	-34.50	14	403.91	12	4' x 3'	4.42	D-CB-12P	1													
	4B	New Canada Road	106+80.00	34.50	15	403.91	12	4' x 3'	4.42	D-CB-12P	1													
	5B	New Canada Road	108+30.00	-34.50	16	403.16	12	4' x 3'	4.54	D-CB-12P	1													
	5B	New Canada Road	108+30.00	34.50	17	403.16	14	8' x 3'	4.71	D-CB-14P				1										
	5B	New Canada Road	109+80.00	-34.50	18	402.41	12	4' x 3'	4.64	D-CB-12P	1													
	5B	New Canada Road	109+80.00	34.50	19	402.41	12	4' x 3'	4.86	D-CB-12P	1													
1)	5B	New Canada Road	111+41.29	162.21	24	404.20	42	4' x 3'																
	5B	New Canada Road	111+50.00	-34.50	21	401.31	12	4' x 3'	9.86	D-CB-12P		1												
	5B	New Canada Road	111+50.00	34.50	22	401.31	14	8' x 3'	5.78	D-CB-14P				1										
	5B	New Canada Road	111+50.00	67.55	23	399.61	42	32" x 32"	3.48	D-CB-42S								1						
	5B	New Canada Road	113+93.50	-34.50	26	397.42	14	8' x 3'	5.05	D-CB-14P				1										
	5B	New Canada Road	113+93.50	34.50	27	397.42	14	8' x 3'	4.59	D-CB-14P				1										
2)	6B	New Canada Road	127+37.02	94.47	30	368.50	42	4' x 4'	6.50	D-CB-42SB									1					
	7B	New Canada Road	137+13.77	32.50	34	360.58	14	8' x 3'	4.62	D-CB-14P				1										
	7B	New Canada Road	136+66.24	32.50	34A	360.75	12	4' x 3'	4.07	D-CB-12P	1													
	7B	New Canada Road	137+61.27	32.50	34B	360.75	12	4' x 3'	5.51	D-CB-12P	1													
	7B	New Canada Road	137+13.77	-32.50	35	360.58	14	8' x 3'	4.64	D-CB-14P				1										
	7B	New Canada Road	136+66.24	-32.50	35A	360.75	12	4' x 3'	4.07	D-CB-12P	1													
	7B	New Canada Road	137+61.27	-32.50	35B	360.75	12	4' x 3'	6.41	D-CB-12P	1													
	7B	New Canada Road	138+25.00	-32.50	36	361.24	12	4' x 3'	14.42	D-CB-12P			1											
	7B	New Canada Road	139+60.00	32.50	38A	361.63	12	4' x 3'	15.83	D-CB-12P			1											
	7B	New Canada Road	140+80.00	-32.50	37	360.71	12	4' x 3'	4.07	D-CB-12P	1													
	7B	New Canada Road	140+80.00	32.50	38	360.71	12	5' DIA	13.73	D-CB-12RB			1											
2)	7B	New Canada Road	138+58.46	132.51	38C	344.00	42	4' x 4'	7.00	D-CB-42SB									1					
	7B	New Canada Road	141+98.00	32.50	39	359.78	12	4' DIA	11.14	D-CB-12RA		1												
	7B	New Canada Road	142+04.00	-32.50	40	359.74	12	4' x 3'	4.07	D-CB-12P	1													
	7B	William Little Drive	20+64.75	15.00	41	360.53	12	4' x 3'	11.10	D-CB-12P		1												
	7B	William Little Drive	20+61.50	-15.00	42	360.47	12	4' x 3'	10.48	D-CB-12P		1												
	7B	New Canada Road	143+19.54	32.50	43	358.43	12	4' DIA	7.65	D-CB-12RA	1													
	7B	New Canada Road	144+10.00	32.50	45	356.90	12	4' x 3'	4.97	D-CB-12P	1													
	7B	New Canada Road	145+25.00	61.00	46	356.51	43	8' x 4'	7.67	D-CB-43SB										1				

1) EXISTING CITY OF MEMPHIS 6-72 INLET TO BE CONVERTED TO #42 INLET

2) STRUCTURES BASED ON STANDARD DRAWING D-CB-42SB WITH THE LID AND GRATE BEING REPLACED BY A GALVANIZED TRASH RACK. SEE SHEETS 2G2 & 2G3 FOR ADDITIONAL DETAILS.

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANKEY
REGISTERED ENGINEER
No. 102350
STATE OF TENNESSEE
06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2F1

DIVISION OF ENGINEERING
TABULATED QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012
DESIGN BY: J.T.P. DATE: 07/2022
DRAWN BY: T.J.H. DATE: 07/2022

PROJECT NO.: D7008
BOOK:
SCALE: N/A

REVIEWED

DATE CITY ENGINEER DATE

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REVISIONS:

DATE: 6/30/2025
ADDED TYPE 38 INLETS FOR STRUCTURES 47 & 85.

CATCH BASINS, DROP INLETS, MANHOLES AND JUNCTION BOXES

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 12 611-12.04 12' - 16'	TYPE 14 611-14.02 4' - 8'	TYPE 14 611-14.03 8' - 12'	TYPE 38 611-38.03 8' - 12'	TYPE 38 611-38.05 16' - 20'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'	TYPE 43 611-43.02 4' - 8'	TYPE 3 611-01.02 4' - 8'	TYPE 3 611-01.03 8' - 12'	TYPE 3 611-01.04 12' - 16'	JUNCTION BOX TYPE 2 611-02.11
8B	New Canada Road	145+54.00	-32.50	47	350.38	38	4' x 4'	8.49	D-CB-38SB						1								
8B	New Canada Road	145+54.00	32.50	48	354.61	12	4' x 3'	6.92	D-CB-12P	1													
8B	New Canada Road	146+13.00	32.50	50	354.24	12	4' x 3'	4.77	D-CB-12P	1													
8B	New Canada Road	146+28.00	32.50	52	354.22	14	8' x 3'	4.47	D-CB-14P				1										
8B	New Canada Road	146+44.00	-32.50	53	353.80	NO. 3	5' DIA	10.08	D-MH-2												1		
8B	New Canada Road	146+43.00	32.50	54	354.24	12	4' x 3'	4.07	D-CB-12P	1													
8B	New Canada Road	147+34.30	-13.93	55	355.35	NO. 3	7' x 7'	10.66	D-MH-6												1		
8B	New Canada Road	147+58.17	7.41	56	355.56	NO. 3	5' DIA	10.50	D-MH-2												1		
8B	New Canada Road	147+98.22	-14.00	57	355.78	NO. 3	5' DIA	7.13	D-MH-2											1			
8B	New Canada Road	148+24.50	32.50	59	355.68	12	4' x 3'	6.55	D-CB-12P	1													
8B	New Canada Road	149+57.02	32.50	61	355.80	14	8' x 3'	5.70	D-CB-14P				1										
8B	New Canada Road	149+75.02	32.50	62	355.83	12	4' x 3'	5.52	D-CB-12P	1													
8B	New Canada Road	150+00.00	32.50	65	355.94	12	4' x 3'	5.37	D-CB-12P	1													
8B	New Canada Road	151+65.00	32.50	67	359.18	12	4' x 3'	4.07	D-CB-12P	1													
8B	New Canada Road	153+00.00	32.50	68	363.74	12	4' x 3'	4.07	D-CB-12P	1													
8B	New Canada Road	156+65.00	32.50	70	363.46	12	4' x 3'	4.07	D-CB-12P	1													
9B	New Canada Road	158+50.00	32.50	72	361.34	12	4' x 3'	4.07	D-CB-12P	1													
9B	New Canada Road	160+60.00	32.50	78	359.68	12	4' x 3'	4.07	D-CB-12P	1													
9B	New Canada Road	162+00.00	32.50	81	355.41	12	4' x 3'	4.07	D-CB-12P	1													
9B	New Canada Road	164+00.00	32.50	84	348.65	12	4' x 3'	4.07	D-CB-12P	1													
9B	New Canada Road	165+24.78	-42.80	85	341.75	38	5' 2" x 5' 2"	17.39	D-CB-38SC							1							
9B	New Canada Road	165+00.00	32.50	86	347.08	12	4' x 3'	3.90	D-CB-12P	1													
9B	New Canada Road	165+24.44	32.50	88	346.91	14	8' x 3'	4.17	D-CB-14P				1										
9B	New Canada Road	165+63.44	32.50	90	346.81	14	8' x 3'	4.66	D-CB-14P				1										
9B	New Canada Road	166+02.44	32.50	93	346.91	14	8' x 3'	4.31	D-CB-14P				1										
9B	New Canada Road	166+55.00	32.50	95	347.26	12	4' x 3'	4.56	D-CB-12P	1													
9B	New Canada Road	168+50.00	32.50	97	348.58	12	4' x 3'	4.28	D-CB-12P	1													
10B	New Canada Road	173+60.00	32.50	101	348.67	12	4' x 3'	4.14	D-CB-12P	1													
10B	New Canada Road	174+25.00	33.00	102	348.18	12	4' x 3'	4.31	D-CB-12P	1													
10B	New Canada Road	175+75.00	34.50	104	347.04	12	4' x 3'	7.33	D-CB-12P	1													
10B	New Canada Road	177+28.71	34.50	109	346.10	12	4' x 3'	4.01	D-CB-12P	1													
10B	New Canada Road	177+64.71	34.50	111	346.06	14	8' x 3'	4.57	D-CB-14P				1										
10B	New Canada Road	178+00.71	34.50	113	346.10	12	4' x 3'	5.21	D-CB-12P	1													
10B	New Canada Road	178+50.00	34.50	115	346.29	12	4' x 3'	7.87	D-CB-12P	1													
10B	New Canada Road	180+25.00	34.50	117	348.06	12	4' x 3'	4.07	D-CB-12P	1													
11B	New Canada Road	185+25.00	34.50	119	349.42	12	4' x 3'	4.07	D-CB-12P	1													
11B	New Canada Road	187+00.00	34.50	124	347.91	12	4' x 3'	4.07	D-CB-12P	1													
11B	New Canada Road	189+50.00	34.50	128	345.76	12	4' x 3'	4.07	D-CB-12P	1													
11B	New Canada Road	192+00.00	34.50	130	342.45	12	4' x 3'	4.91	D-CB-12P	1													
11B	New Canada Road	194+00.00	34.50	132	338.40	12	4' x 3'	4.91	D-CB-12P	1													
11B	New Canada Road	196+00.00	34.50	134	334.44	12	4' x 3'	5.01	D-CB-12P	1													
12B	New Canada Road	197+42.00	34.50	136	332.97	12	5' DIA	7.63	D-CB-12RB	1													
12B	New Canada Road	197+65.91	34.50	138	332.90	12	5' DIA	7.99	D-CB-12RB	1													
12B	New Canada Road	197+91.61	34.50	140	332.87	14	9' x 9'	8.47	D-CB-14SE					1									
12B	New Canada Road	198+17.91	34.50	142	332.90	12	5' DIA	8.96	D-CB-12RB		1												
12B	New Canada Road	198+24.30	4.99	143	333.46	NO. 3	5' DIA	10.09	D-MH-2												1		
12B	New Canada Road	199+46.90	5.00	145	334.09	NO. 3	7' DIA	15.50	D-MH-2													1	
12B	New Canada Road	199+46.90	34.50	146	333.54	12	4' x 3'	15.20	D-CB-12S			1											
12B	New Canada Road	199+46.90	85.20	146A	326.04	NO. 3	5' DIA	14.32	D-MH-2													1	
12B	Memphis Arlington Road	64+27.88	-15.17	149	311.14	NO. 2 JB	4' x 4'	6.60	D-JBS-2														1
13B	New Canada Road	208+18.13	0.00	152	328.01	NO. 3	5' DIA	14.07	D-MH-2													1	

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANKEY
REGISTERED ENGINEER
STATE OF TENNESSEE

06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2F2

DIVISION OF ENGINEERING
TABULATED QUANTITIES

SURVEY: F & A, INC. DATE: 03/2012
DESIGN BY: J.T.P. DATE: 07/2022
DRAWN BY: T.J.H. DATE: 07/2022

PROJECT NO.: D7008
BOOK:
SCALE: N/A

REVIEWED

DATE CITY ENGINEER DATE

7/1/2025 7:45:07 AM
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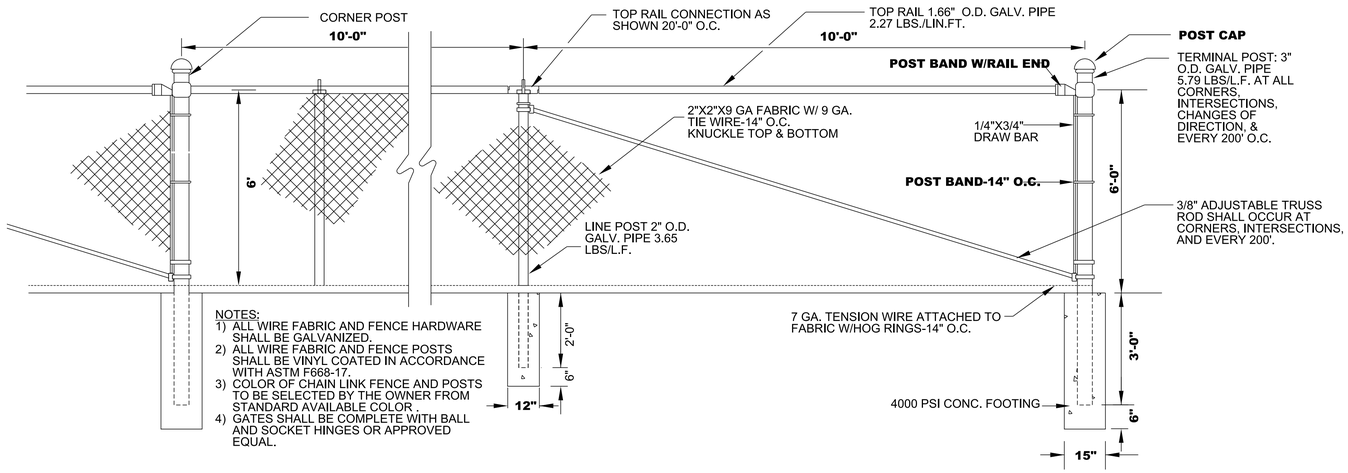
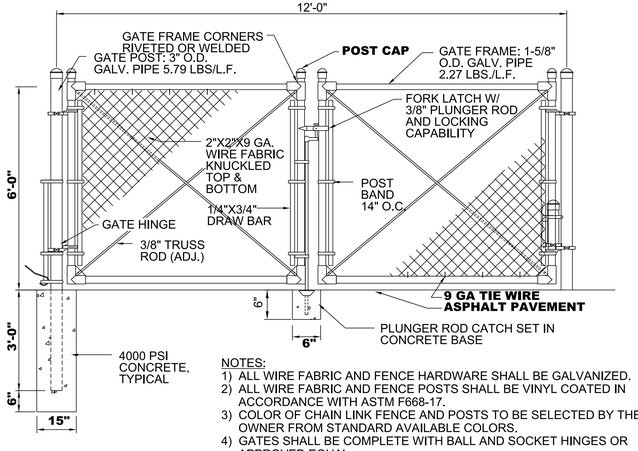
REVISIONS:

DATE: 6/30/2025
ADDED FENCE AND GATE DETAILS.



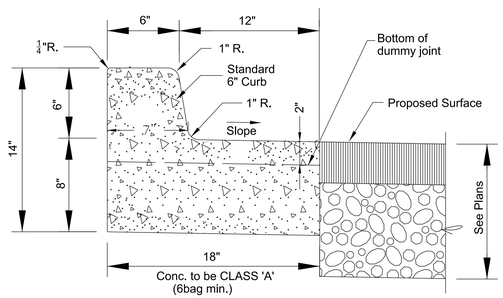
NOTES:
1) ALL WIRE FABRIC AND FENCE HARDWARE SHALL BE GALVANIZED.
2) ALL WIRE FABRIC AND FENCE POSTS SHALL BE VINYL COATED IN ACCORDANCE WITH ASTM F668-17.
3) COLOR OF CHAIN LINK FENCE AND POSTS TO BE SELECTED BY THE OWNER FROM STANDARD AVAILABLE COLOR.
4) GATES SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.

6' FENCE DETAIL



NOTES:
1) ALL WIRE FABRIC AND FENCE HARDWARE SHALL BE GALVANIZED.
2) ALL WIRE FABRIC AND FENCE POSTS SHALL BE VINYL COATED IN ACCORDANCE WITH ASTM F668-17.
3) COLOR OF CHAIN LINK FENCE AND POSTS TO BE SELECTED BY THE OWNER FROM STANDARD AVAILABLE COLORS.
4) GATES SHALL BE COMPLETE WITH BALL AND SOCKET HINGES OR APPROVED EQUAL.

6' X 12' CHAIN LINK GATE



NOTES:
1. Pre-cut exp. joints material shall be in all exp. joints.
2. Dummy joints shall be installed at 10ft. Intervals, maximum.
3. Exp. joints shall be installed at 40ft., maximum.
4. Exp. joints shall be installed at ends of radius.
5. Exp. joints shall be located a minimum of 5ft. from inlet structures.

Slope 3/16 " per ft. or same slope as pavement

6-18 CURB & GUTTER

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANKEY — REGISTERED ENGINEER — STATE OF TENNESSEE
06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. 2G13

DIVISION OF ENGINEERING
NEW CANADA ROAD
6-18 CURB DETAILS

SURVEY: F & A, INC. DATE: 03/2012
DESIGN BY: J.T.P. DATE: 07/2022
DRAWN BY: T.J.H. DATE: 07/2022

PROJECT NO.: D7008
BOOK:
SCALE: NTS

REVIEWED

DATE CITY ENGINEER DATE

6/30/2025 3:55:42 PM
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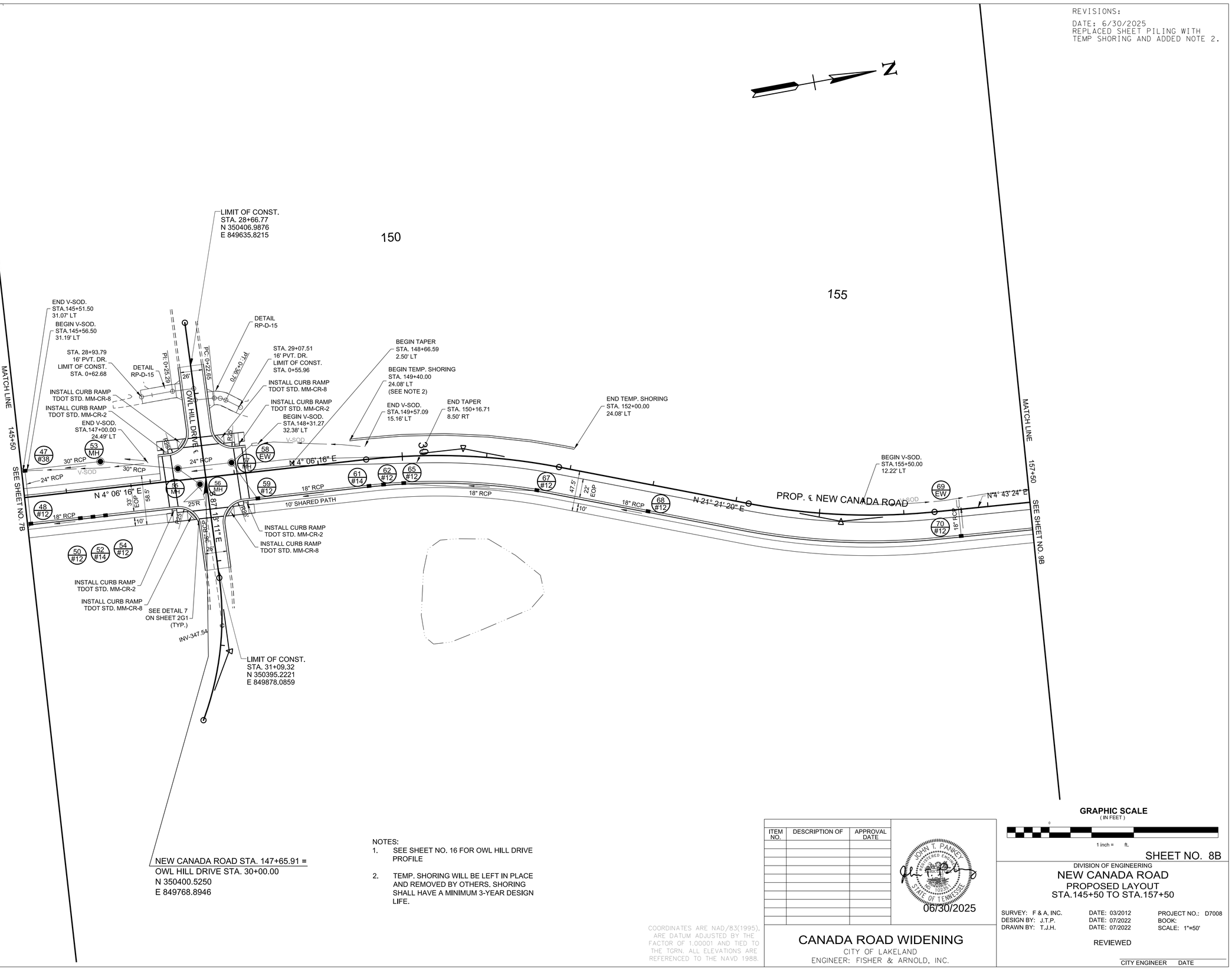
REVISIONS:

DATE: 6/30/2025
REPLACED SHEET PILING WITH
TEMP SHORING AND ADDED NOTE 2.



NOTES:
1. SEE SHEET NO. 16 FOR OWL HILL DRIVE PROFILE
2. TEMP. SHORING WILL BE LEFT IN PLACE AND REMOVED BY OTHERS. SHORING SHALL HAVE A MINIMUM 3-YEAR DESIGN LIFE.

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANCH
REGISTERED ENGINEER
No. 102351
STATE OF TENNESSEE
06/30/2025

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

CANADA ROAD WIDENING

CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

GRAPHIC SCALE
(IN FEET)

1 inch = ft.

SHEET NO. 8B

DIVISION OF ENGINEERING

NEW CANADA ROAD
PROPOSED LAYOUT
STA.145+50 TO STA.157+50

SURVEY: F & A, INC.	DATE: 03/2012	PROJECT NO.: D7008
DESIGN BY: J.T.P.	DATE: 07/2022	BOOK:
DRAWN BY: T.J.H.	DATE: 07/2022	SCALE: 1"=50'

REVIEWED

CITY ENGINEER DATE

6/30/2025 3:56:24 PM
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PROPOSED T.C.E.

PROPOSED P.S.E.

PROPOSED DRAIN ESMT.

PROPOSED L.S. ESMT.

NOTES:
1. CONTRACTOR TO DELIVER SIGN TO CHURCH UPON REMOVAL. PLEASE COORDINATE WITH PASTOR KIRK KILPATRICK AT (901) 372-1179.

REVISIONS:

DATE: 6/30/2025
CHANGED CHURCH SIGN CALLOUT AND ADDED NOTE 1.

CITY OF LAKELAND TENNESSEE, A TENNESSEE MUNICIPAL CORPORATION

52

NEW CANADA ROAD STA. 183+10.19 =
CANADA ROAD CONNECTOR NORTH STA. 70+00.00
N 353896.9001
E 850023.5482

185

190

195

1 ST BRICK

CITY OF LAKELAND TENNESSEE, A TENNESSEE MUNICIPAL CORPORATION

NEW CANADA ROAD STA. 195+75.00 =
FIRST BAPTIST DRIVEWAY STA. 20+68.05
N 355153.3132
E 850135.9972

39 ⚠

PROP. R.O.W.

MATCH LINE 182+50

SEE SHEET NO. 10

WOODS

TOP OF CUT

TREES

PRESENT R.O.W.

ASPHALT

MB

CANADA ROAD

CHURCH SIGN TO BE REMOVED (SEE NOTE 1)

46

MATCH LINE 196+00

SEE SHEET NO. 12

N 6° 48' 46" E

95°00'

37

S 78° 11' 14" E

CANADA ROAD CONNECTOR NORTH

PC 71+44.97

PROP. ℄ NEW CANADA ROAD

PC 193+35.01

TOE OF FILL

PROP. R.O.W.

GRAVEL

INV= 353.76 15" RCP

INV= 352.23

INV= 355.35

CONC

TEXAS GAS #1

TEXAS GAS #2

TEXAS GAS #3

TEXAS GAS #4

INV= 321.95

INV= 321.15 12" CMP

38

AREA TO BE SCARIFIED

INV= 356.65 15" CMP

CANADA ROAD

45

ALAN WEYMOUTH

INTERNATIONAL HARVESTER MANAGERIAL PARK DRIVEWAY STA. 10+00.00 =
NEW CANADA ROAD STA. 188+59.42 =
FIRST BAPTIST DRIVEWAY STA. 10+00.00
N 354442.2478
E 850088.7003

1 ST BRICK

FIRST BAPTIST CHURCH–LAKELAND

CANADA ROAD CONNECTOR NORTH
PI 73+18.59
N 353,831.6808
E 850,335.3877
Δ 37° 35' 55" (RT)
D 11° 14' 04"
R 510.00
L 334.67
T 173.61
SE R.C.
DESIGN SPEED 25 MPH

SHEILA M. COUNCIL, TRUSTEE

46

FIRST BAPTIST CHURCH OF LAKELAND, TENNESSEE A TENNESSEE NONPROFIT CORPORATION

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

ITEM NO.	DESCRIPTION OF	APPROVAL DATE
⚠	REV. ℄ TRACT 39	2/11/14

JOHN T. PANCOAST
REGISTERED ENGINEER
No. 109281
STATE OF TENNESSEE

06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

GRAPHIC SCALE
(IN FEET)
50 0 25 50 100 200
1 inch = 50 ft.

SHEET NO. 11

DIVISION OF ENGINEERING
NEW CANADA ROAD
PRESENT LAYOUT
STA.182+50 TO STA.196+00

SURVEY: F & A, INC. DATE: 03/2012
DESIGN BY: J.T.P. DATE: 07/2022
DRAWN BY: T.J.H. DATE: 07/2022

PROJECT NO.: D7008
BOOK:
SCALE: 1"=50'

REVIEWED

CITY ENGINEER DATE

6/30/2025 3:57:02 PM
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REVISIONS:

DATE: 6/30/2025
ADDED PAY ITEM NUMBERS
303-01, 307-01.01, 307-01.08,
402-01, 402-02, & 403-01.

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY			
			PHASE 1	PHASE 2	PHASE 3	TOTAL
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1765			1765
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	303			303
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	197			197
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	2.71			3
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	10.71			11
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	0.76			1
712-01	TRAFFIC CONTROL	L.S.	0.33	0.33	0.33	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	86	213	118	417
(1) 712-06	SIGNS (CONSTRUCTION)	S.F.	611	234	390	1235
712-06.16	SIGNS (CONSTRUCTION)(REDUCED SPEED WARNING)	EACH				
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	384	432	132	948
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH				3
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		5	18	23
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	62	274	256	592
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH		6	7	13
716-05.09	PAINTED PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		1		1
716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH		2	5	7
716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	0.5	7.7	6.6	14.8
716-06.01	PAINTED WORD PVMT MARK (ONLY)	EACH		5	4	9
716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.		76	30	106
716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.		41	214	255
716-08.06	REMOVAL OF PAVEMENT MARKING (TURN-LANE ARROW)	EACH		2	3	5
716-08.07	REMOVAL OF PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH		2	1	3
716-08.09	REMOVAL OF PAVEMENT MARKING (DOTTED LINE)	L.F.			134	134
716-08.11	REMOVAL OF WORD PAVEMENT MARKING (ONLY)	EACH		2	3	5
716-08.20	REMOVAL OF PAVEMENT MARKING (LINE)	L.M.		0.3	0.8	1.1
716-08.23	REMOVAL OF PAVEMENT MARKINGS (STRAIGHT ARROW)	EACH		3	2	5

FOOTNOTES:

(1) SEE THIS SHEET FOR SCHEDULE, ADDITIONAL SIGNS INSTALLED AS DIRECTED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT COST FOR THIS ITEM.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
	TRAFFIC FLOW
	REMOVE PAVEMENT STRIPING
	TEMPORARY BARRICADE (TYPE III)

TRAFFIC CONTROL SIGNS

M.U.T.C.D. NO.	DESCRIPTION	SIZE (IN)	NO. REQUIRED				ITEM NO. 712-06 S.F.	ITEM NO. 712-06.16 EACH
			PHASE 1	PHASE 2	PHASE 3	TOTAL		
G20-1	ROAD WORK NEXT 2 MILES	64X24	2			2	21	
G20-2	END ROAD WORK	36X18	11			11	50	
G20-2	END ROAD WORK	48X24	6		2	8	64	
R1-1	STOP	36X36	3	10	13	26	234	
R1-3P	ALL WAY	18X6		2	4	6	5	
R11-2	ROAD CLOSED	48X30	11	13	23	47	470	
W8-17	SHOULDER DROP OFF SYMBOL	36X36	8	1	2	11	99	
W8-17P	SHOULDER DROP OFF PLAQUE	24X18	8	1	2	11	33	
W20-1	ROAD WORK AHEAD	36X36	11			11	99	
W20-1	ROAD WORK 1 MILE	48X48	2			2	32	
W20-1	ROAD WORK 1/2 MILE	48X48	2			2	32	
W20-1	ROAD WORK 1000 FT	48X48	6			6	96	
						Total	1235	0

ITEM NO.	DESCRIPTION OF	APPROVAL DATE

JOHN T. PANCO — REGISTERED ENGINEER — No. 102531 — STATE OF TENNESSEE

06/30/2025

CANADA ROAD WIDENING
CITY OF LAKELAND
ENGINEER: FISHER & ARNOLD, INC.

SHEET NO. T1B

DIVISION OF ENGINEERING
TRAFFIC CONTROL
PHASING NOTES, LEGEND AND TABULATION

SURVEY: F & A, INC. DATE: 03/2012 PROJECT NO.: D7008
DESIGN BY: J.T.P. DATE: 07/2022 BOOK:
DRAWN BY: T.J.H. DATE: 07/2022 SCALE: N/A

REVIEWED

DATE CITY ENGINEER DATE

6/30/2025 3:57:53 PM
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