Charlie A. Dooley County Executive



Sheryl L. Hodges, D.E., P.E., L.P.G. Director

September 23, 2014

ADDENDUM NO. 1

Notice to All Persons and Firms Proposing to Submit a Bid or Furnish Materials for Reavis Barracks – Mackenzie Road Infrastructure St. Louis County Project No. AR-1413 Federal Project No. STP-4901(632)

The construction contract for this project has been revised as follows:

No. 1

Delete Contract Book Page 32 of 267

No. 2

Insert New Contract Book Page 32A of 267

No. 3

Delete Contract Book Page 56 of 267

No. 4

Insert New Contract Book Page 56A of 267

No. 6

Delete Contract Book Page 76 of 267

No. 6

Insert New Contract Book Page 76A of 267

No. 7

Delete Contract Book Page 77 of 267

No. 8

Insert New Contract Book Page 77A of 267

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No. 9

Delete Contract Book Page 78 of 267

No. 10

Insert New Contract Book Page 78A of 267

No. 11

Delete Contract Book Page 255 of 267

No. 12

Insert New Contract Book Page 255A of 267

No. 13

Delete Contract Book Page 256 of 267

No. 14

Insert New Contract Book Page 256A of 267

No. 15

Delete Plan Sheet 2 of 53

No. 16

Insert New Plan Sheet 2A of 53

No. 17

Delete Plan Sheet 3 of 53

No. 18

Insert New Plan Sheet 3A of 53

No. 19

Delete Plan Sheet 4 of 53

No. 20

Insert New Plan Sheet 4A of 53

No. 21

Delete Plan Sheet 10 of 53

No. 22

Insert New Plan Sheet 10A of 53

Addendum No. 1 September 23, 2014 Page 3

ATTENTION BIDDERS: CHECK THE ADDENDUM ACKNOWLEDGEMENT IN THE BID DOCUMENTS AND COMPLETE APPROPRIATELY.

Daniel R. Naunheim, P.E. Division Manager, Design

DRN/DJF/jlh

Attachments: Contract Book Pages 32A, 56A, 76A, 77A, 78A, 255A, 256A, Plan Sheets 2A, 3A, 4A, and 10A of 53, and Addendum Receipt Acknowledgement (Please sign and return.)



September 23, 2014

ADDENDUM NO. 1

FROM: St. Louis County Department of Highways and Traffic
RE: Reavis Barracks - Mackenzie Road Infrastructure St. Louis County Project No. AR-1413 Federal Project No. STP-4901(632)
DATE: TIME:
NUMBER OF PAGES (Including Cover Letter): Fifteen (15)
IF YOU DO NOT RECEIVE ALL PAGES, CALL (314) 615-8543.
PLEASE DELIVER TO RECIPIENT AS SOON AS POSSIBLE.
UPON RECEIPT OF THIS FAX TRANSMISSION, PLEASE SIGN AND DATE (IN THE INDICATED LOCATIONS BELOW), AND FAX THIS ACKNOWLEDGEMENT TO THIS DEPARTMENT AT 615-8194 (Attn: DESIGN DIVISION) TO VERIFY RECEIPT
COMPANY RECEIVED BY

The limits and extent of tree trimming shall be discussed with and agreed to by the engineer before work proceeds.

- B. The contractor will be responsible for the timely removal of any additional branches that have been damaged as a result of the construction activities, as directed by the Engineer.
- C. When branches are removed, either after damaged or in advance of construction activities, they shall be cut off flush with the parent branch.
- D. This work will include disposition of removed branches by the Contractor.
- E. No direct payment will be made for the cost of complying with this provision.

300.10.1 AGGREGATE BASE

- A. Under all new/replaced concrete base and pavement, paved approaches and driveways, curb and gutter, concrete medians and islands, 6" sidewalk, 7" sidewalk, and curb ramps, install and compact four inch (4") thick base of Type 5 Aggregate in accordance to the applicable provisions of Section 304 of the St. Louis County Standard Specifications for Highway Construction. Prior to installation of the aggregate, contractor shall compact the subgrade as directed by the Engineer. Payment for all labor, material and equipment necessary to accomplish this item will be considered included in the contract unit price for "Type 5 Aggregate Base, 4-Inch Thick". No additional payment will be made for aggregate base in excess of four inches thick base placed under concrete channelization islands or medians.
- B. This work shall include any earthwork (excavation and/or borrow) for the aggregate base construction.

300.10.2 RECLAIMED CONCRETE MATERIAL AGGREGATE BASE

Description

This work shall consist of furnishing, crushing, stockpiling, spreading and compacting one or more courses of reclaimed concrete material aggregate on a prepared subgrade for base material in accordance with these specifications and in conformity with the lines, grades, thicknesses and typical cross sections shown on the plans or as established by the engineer.

Material

- A. Aggregate for reclaimed concrete material aggregate base may include material processed from reclaimed Portland cement concrete, lean concrete base, cement treated base or other concrete containing pozzolanic binders.
 - 1. Gradation. The aggregate for reclaimed concrete material aggregate base shall conform to Section 1007 Aggregate Base Material. Gradation and plasticity index shall be in accordance with Sec 1007.1.1 or 1007.1.2, as specified in the contract documents.

When so authorized, finish water may only be placed by use of a fine misting device, such as a Hudson sprayer.

2. The portion of the concrete pavement that is to be overlaid by the Contractor shall be surface textured with the use of a roller-bug, as directed by the Engineer.

D. Jointing of Concrete Pavement

1. Transverse contraction joints will be spaced to match existing roadway joints or on 15' to 20' intervals where the entire pavement surface is to be replaced. Contraction joints will extend full width across the pavement and through all monolithic curbs. Transverse contraction joints will be grooved with a suitable finishing tool or saw cut that will produce, at a minimum, a two inch (2") deep by three-eighths inch (3/8") wide joint. All joints are to be open, straight, continuously uniform, and neatly finished. For this contract, all grooved and saw cut joints in the pavement will be properly cleaned and sealed by St. Louis County forces. In areas where pavement removal and replacement is to extend across the entire roadway width, or where a saw cut is to extend across the entire roadway width and the nearest expansion joint is more than 400' away, the Engineer may order the construction of an expansion joint. Such joints will be placed and constructed as described under "Expansion Joint Filler Strip."

E. Curing and Weather Protection

1. Concrete pavement will be cured in accordance with Section 502.14 when polyethylene is used it should be white opaque in color. Concrete sidewalk and approaches will be cured in accordance with Section 608.3.5. Weather protection will be required per Section 502.5 "Weather Limitations".

Backfill of Completed Pavement, Approaches, and Sidewalk

Completed pavement is to be backfilled with clean dirt (Class "A" Material) that is free of debris and suitable as a sod bed. The backfill will be compacted to an elevation at which sod can be placed level with the adjacent grass and the curb line.

Method of Measurement

Quantities for the removal and replacement of concrete pavement will be measured and computed to the nearest 1/10 square yard.

Basis for Payment

A. The cost of all labor, equipment and materials necessary to complete the construction shall be included in the contract unit price for the following items:

1.	Item No. 202-22.30	Removal of Rigid Pavement
2.	Item No. 502-11.06	Concrete Pavement (6" Non-Reinforced)
3.	Item No. 509-10.30	Concrete Base (Variable Thickness, Non-Reinforced)
		Very Early Strength
4.	Item No. 509-10.40	Concrete Base (Variable Thickness, Non-Reinforced)
		High Early Strength
5.	Item No. 509-11.20	Concrete Base (Variable Thickness, Non-Reinforced)

613.3.10.2 No addition of water to the concrete shall be permitted after addition of the HRWR.

613.3.10.3 **Applicable Pavement Repair Pay Item Descriptions.** The accepted quantity for High Early Strength pavement or joint repair, not including trial slab(s), will be paid for at the contract unit price for each of the pay items included in the contract.

613.3.10.3.1 Joint Repair (High Early Strength), Item Nos. 613-10.18 and 613-20.21

613.3.10.3.3 Concrete Pavement (High Early Strength), Item No. 509-10.40

Removal of Rigid Pavement shall be considered incidental to all Joint Repairs and no direct payment will be made

613.3.11 **Very Early Strength (4 - 6 Hour Opening Time).** For the repair to be made and opened to traffic in 4 to 6 hours after placement, the Type I/II or III Portland cement, Polycarboxylate-based high-range water reducer (HRWR), water/cement ratio and slump requirements shall be option I (Type I/II cement) or 2 (Type III cement). Water/cementitiuos ratio shall be maintained at \pm 0.02 from the target established on the mix design and shall be within the minimum-maximum range when the tolerance is applied.

613.3.11.1 Option I. The allowable Type I/II cement content shall not be less than 850 pounds or exceed 950 pounds per cubic yard.

Very Early Strength (4 – 6 Hour Opening) 9.57 sack Type I/II Cement Trial Mix Design

3.37 Sack Type I/II Cement That with De	
Material	Amount
Type I/II Cement, lbs	900
Coarse Aggregate (Class D), lbs	1630
Fine Aggregate (Class A), lbs	1080
Maximum Batch Water, lbs (gal)	342(41)
ASTM C 260 Air Entraining Agent	Dosage to
	achieve 5.5%
Polycarboxylate-based HRWR	59
(ASTM C494 Type F), ounces	
Calcium Nitrite (30% min.) Non-Chloride Accelerator	980 (7.65)
(NCA) –ASTM C 494 Type C, ounces (gal)	
¹ Aggregate Weights at SSD condition	
Type IL cement may be substituted for Type I/II cement	

613.3.11.2 Option II. The allowable Type III cement content shall not be less than 650 pounds or exceed 800 pounds per cubic yard.

Very Early Strength (4 – 6 Hour Opening) 7.00 sack Type III Cement Trial Mix Design

Material	Amount
Type III Cement, lbs	658
Coarse Aggregate (Class D), lbs ¹	1795
Fine Aggregate (Class A), lbs ¹	1170
Maximum Batch Water, lbs (gal)	250 (30)
ASTM C 260 Air Entraining Agent	Dosage to achieve 5.5%
Polycarboxylate-based HRWR (ASTM C494 Type F), ounces	100
Calcium Nitrite (30% min.) NCA ASTM C 494 Type C, ounces (6.6 gal)	842(6.6)
¹ Aggregate Weights at SSD condition	

613.3.11.2 No addition of water to the concrete shall be permitted after addition of the HRWR. All 4-6 hour very early opening concrete shall have the additional properties:

Required Very Early Strength (4 - 6 Hour Opening) Mix Properties at the Time of Placement

Property	Minimum	Maximum
Water / Cement Ratio	0.30	0.40
Temperature at time of placement, °F	88	-
Slump at the time of placement, inch	4	6
Entrained Air, percent	4.0	7.0

613.3.11.3 **Applicable Pavement Repair Pay Item Descriptions.** The accepted quantity for Very Early Strength pavement repair, not including trial slab(s), will be paid for at the contract unit price for each of the pay items included in the contract.

613.3.11.3.1 Joint Repair (Very Early Strength), Item No. 613.10.91 and Item No. 613-20.20

613.3.11.3.2 Concrete Pavement, Very Early Strength, Item No. 509-10.30

Removal of Rigid Pavement shall be considered incidental to all Joint Repairs and no direct payment will be made

- 613.3.12 **Concrete Mixing and Placement Limitations.** Weather Concrete Mixing and placement limitations shall be in accordance with Section 502.4.1.
- 613.3.13 **Entrained Air.** The quantity of air by volume entrained in early opening strength concrete shall be 5.5 ± 1.5 percent as determined in accordance with County Test Method QA-3 Air Content of Freshly Mixed Concrete by the Pressure Method.
- 613.3.14 **Consolidation.** Internal concrete vibrator(s) shall be supplied in accordance with Sec 502.3.7. Concrete shall be consolidated in accordance with Sec 502.4.7.3. Vibrators and equipment to operate vibrators shall be on-site and functional prior to arrival of concrete on site. No concrete shall be placed without operational vibrators.
- 613.3.15 If the concrete pavement has been resurfaced and where no additional structure is to be added to the existing overlay, or where the existing bituminous overlay is to be removed by milling, the repaired area shall be filled to the surface of the existing bituminous overlay with Portland cement concrete.
- 613.3.16 If the concrete pavement has been resurfaced and additional lifts are to be added over the existing overlay, the repair area shall be filled with Portland cement concrete to the surface of the underlying concrete pavement, and the remaining area shall be filled with approved hotmix asphalt to the existing bituminous overlay surface. The hot-mix asphalt shall be placed in accordance with the specifications for that mix.
- 613.3.17 When the concrete pavement requires all milled areas to be resurfaced in the same work day prior to opening the pavement to traffic, pavement repairs identified after milling will be marked for future repair, and the area shall be resurfaced as planned for that work day. No additional lifts of hot-mix asphalt will be allowed until the marked pavement is repaired. The pavement repair shall be performed in accordance with Sec 613.
- 613.3.18 **Strike-off.** Delete Section 502.3.6 and replace with the following: The use of a vibrating screed parallel to the pavement's centerline is required for full depth repairs over 10 feet in length. For repairs 10 feet or less in length use a 10-foot straight edge, pulling the tool blade parallel to the longitudinal joint.
- 613.3.19 **Concrete Pavement Repair Smoothness.** All repaired areas shall be finished to provide a smooth ride and to the satisfaction of the Engineer. Prior to surface texturing, repaired areas shall be checked with a straightedge in accordance with Sec 502.4.7.7 if required by the Engineer. When straightedged, the surface of the repaired area shall not vary more than 1/8" per 10' from a straight line between the surface of the existing pavement on each side of the repaired area, regardless if the repair is to be resurfaced or not. When the tolerance is not met, plastic concrete shall be added or removed from the repair until the surface tolerance is met.
- 613.3.20 **Surface Texturing.** No concrete shall be placed without proper texturing equipment on the job. The repair texture shall be similar to that on the surrounding pavement. For concrete not to be overlaid and placed on Arterial roads, concrete shall be finished with a wire comb in accordance with Sec 502.3.8.3. For all other conditions, concrete shall be finished with a burlap fabric drag in accordance with Sec 502.3.8.1.

ITEMIZED BID

FEDERAL PROJECT NO. STP-4901(632) COUNTY PROJECT NO. AR-1413

PAGE 1 0F 5

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
ROADW	AY ITEMS				
201-20.16	Tree Removal, Over 15"	INCH	81		
202-20.10	Removal of Improvements	L.S.	1		
202-20.10	Removal of Rigid Pavement	S.Y.	4,913.9		
203-10.00	Class "A" Excavation	C.Y.	767.4		
203-10.30	Land Disturbance Permits	L.S.	1		
304-05.04	Type 5 Aggregate Base (4" Thick)	S.Y.	6,900.5		
404-12.72	Superpave Asphaltic Concrete SP 125 (PG 70-22) DLP *	TON	8,079.9		
405-30.10	Type "C" Bituminous Concrete (Pavement)	TON	320.0		
405-30.20	Type "D" Bituminous Concrete (Pavement)	TON	109.5		
407-10.27	Tack Emulsified Asphalt (SS-1H) *	GAL.	7,350		
412-10.02	Pavement Surfacing and Texturing (0" to 2"), Concrete or Asphalt *	S.Y.	67,332		
502-11.06	Concrete Pavement (6" Non-Reinforced)	S.Y.	211.0		
509-10.30	Concrete Base (Variable Thickness, Non-Reinforced), Very Early Strength **	S.Y.	2,527.5		

^{*} INDICATES CHANGE IN QUANTITY UNDER ADDENDUM NO. 1

^{**} INDICATES PAY ITEMS ADDED UNDER ADDENDUM NO. 1
ITEM NOS. 509-10.30, 509-10.40, AND 509-11.20 REPLACE ITEM NOS. 502-11.08, 509-10.08, AND 509-10.18

ITEMIZED BID

FEDERAL PROJECT NO. STP-4901(632) COUNTY PROJECT NO. AR-1413

PAGE 2 0F 5

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
509-10.40	Concrete Base (Variable Thickness, Non-Reinforced), High Early Strength **	S.Y.	622.4		
509-11.20	Concrete Base (Variable Thickness, Non-Reinforced) **	S.Y.	1,580.0		
603-10.35	Adjust Water Service Valve Box to Grade	EACH	2		
604-20.00	Remove and Replace Grated Inlet Top	EACH	1		
604-20.30	Adjusting Manhole to Grade	EACH	34		
604-21.95	Replace Precast Inlet Top	EACH	1		
604-90.40	Adjust Inlet Stone to Grade	EACH	8		
608-10.90	Remove & Replace Concrete Median / Island	S.Y.	213.7		
608-50.96	Remove & Replace Paved Approach (6")	S.Y.	88.7		
608-50.97	Remove & Replace Paved Approach (7")	S.Y.	248.1		
609-10.10	Concrete Curb Type, "S"	L.F.	66		
609-10.93	Remove and Replace Curb & Gutter (Various Widths), Vertical / Mountable	L.F.	35		
609-20.11	Integral Curb (6" Height and Under)	L.F.	1,424		
609-20.90	Remove and Replace integral Curb (6" Height and Under)	L.F.	1,539		

^{**} INDICATES PAY ITEMS ADDED UNDER ADDENDUM NO. 1

ITEM NOS. 509-10.30, 509-10.40, AND 509-11.20 REPLACE ITEM NOS. 502-11.08, 509-10.08, AND 509-10.18

SUBTOTAL DECLETATION				REAVIS BARRACKS - MACKENZIE ROAD INFRASTRUCTURE ST. LOUIS COUNTY PROJECT NO. AR-1413 FEDERAL PROJECT NO. STP-4901 (632)	
SUBTOTAL	PROJECT TOTAL	UNIT	ITEM NO.	DESCRIPTION	REMARKS
				ROADWAY ITEMS	
81	81	UNIT	201-20.16	TREE REMOVAL, OVER 15"	
	1	L.S.	202-20.10	REMOVAL OF IMPROVEMENTS	
4,913.9	4,913.9	S.Y.	distribute in the state of the state in the	REMOVAL OF RIGID PAVEMENT	Includes sawcutting and removal of adjacent curbing where applicable.
697.6	767.4	C.Y.		CLASS "A" EXCAVATION LAND DISTURBANCE PERMITS	10% added.
6,273.2	6,900.5	S.Y.		TYPE 5 AGGREGATE BASE (4" Thick)	Includes 10% additional.
7,345.3	8,079.9	TON		SUPERPAVE ASPHALTIC CONCRETE MIXTURE SP125 (PG 70-22) DLP *	Estimated at 2" thick and 2.16 Ton/ CY. Includes 10% additional.
320.0	320.0	TON		TYPE "C" BITUMINOUS CONCRTE (PAVEMENT)	Estimated at 2.16 Ton/ CY.
109.5	109.5	TON			Estimated at 2.16 Ton/ CY.
7,350 61,211	7,350 67,332	GAL S.Y.		TACK-EMULSIFIED ASPHALT (SS-1H) * PAVEMENT SURFACING AND TEXTURING (0" - 2"), CONCRETE OR ASPHALT *	Estimated at 0.12 Gallon / SY. Includes side street approaches, 10% additional shown.
211.0	211.0	S.Y.		CONCRETE PAVEMENT (6" NON-REINFORCED)	miciales side street approaches. 1070 additional shown.
2,527.5	2,527.5	S.Y.		CONCRETE BASE (VARIABLE THICKNESS, NON-REINFORCED), VERY EARLY STRENGTH **	
622.4	622.4	S.Y.	509-10.40	CONCRETE BASE (VARIABLE THICKNESS, NON-REINFORCED), HIGH EARLY STRENGTH **	
1,580.0	1,580.0	S.Y.		CONCRETE BASE (VARIABLE THICKNESS, NON-REINFORCED) **	
2	2	EACH		ADJUST WATER SERVICE VALVE BOX TO GRADE	
1 34	1 34	EACH EACH		REPLACE INLET GRATES AND ADJUST TO GRADE ADJUSTING MANHOLE TO GRADE	Includes replacement of precast concrete inlet seat.
	1	EACH		REPLACE PRECAST INLET TOP	
8	8	EACH		ADJUST INLET STONE TO GRADE	
213.7	213.7	S.Y.		REMOVE AND REPLACE CONCRETE MEDIAN / ISLAND	Includes sawcutting.
88.7	88.7	S.Y.		REMOVE AND REPLACE PAVED APPROACH (6")	Includes sawcutting.
248.1	248.1	S.Y.		REMOVE AND REPLACE PAVED APPROACH (7")	Includes sawcutting.
66 35	66 35	L.F.		CONCRETE CURB, TYPE "S" REMOVE AND REPLACE CURB & GUTTER (VARIOUS WIDTHS), VERTICAL/ MOUNTABLE	Includes sawcutting and aggregate base as needed.
1,424	1,424			INTEGRAL CURB (6" HEIGHT AND UNDER)	
1,539	1,539	L.F.		REMOVE AND REPLACE INTEGRAL CURB (6" HEIGHT AND UNDER)	Includes sawcutting.
1	1	L.S.		STANDARD TRAFFIC CONTROL DEVICES	Not shown on B sheets
4	4	EACH		ARROW PANEL, TYPE "B" (NOISELESS), RENTAL	
613.3	613.3	S.Y.		JOINT REPAIR - TRANSVERSE, HIGH EARLY STRENGTH	Includes all items as described in Special Provision 1100.70.8. Includes Removal of Rigid Pavement
74.6 36.6	74.6 36.6	S.Y.		JOINT REPAIR - TRANSVERSE, VERY EARLY STRENGTH JOINT REPAIR - LONGITUDINAL, VERY EARLY STRENGTH	Includes all items as described in Special Provision 1100.70.8. Includes Removal of Rigid Pavement Includes all items as described in Special Provision 1100.70.8. Includes Removal of Rigid Pavement
33.3	33.3	S.Y.		JOINT REPAIR - LONGITUDINAL, HIGH EARLY STRENGTH	Includes all items as described in Special Provision 1100.70.8. Includes Removal of Rigid Pavement
1	1	L.S.		MOBILIZATION	Not shown on B sheets
2,138	2,138	L.F.	 	REMOVAL OF PAVEMENT STRIPING, PAINT	Not shown on B Sheets; See Huntingdon / I-55 Traffic Control Plans for details
93	93	S.F.		REMOVAL OF PAVEMENT MARKINGS, PAINT	Not shown on B Sheets; See Huntingdon / I-55 Traffic Control Plans for details
4,724 20	4,724	L.F. S.Y.		TEMPORARY PAVEMENT STRIPING, TAPE (INCLUDES REMOVAL) SODDING	Not shown on B Sheets; See Huntingdon / I-55 Traffic Control Plans for details Includes 10% additional.
1450	1,595	S.Y.		STRIP SODDING	Includes 10% additional.
4.0	4.0	C.Y.		TOPSOIL	Includes grubbing
	1	EACH		RESTORATION FOR TREE / STUMP REMOVAL	Located at 9539 Cloverhurst Drive. Includes removal of exsiting stump. Not shown on B shows a straight of the
1	1	L.S.	806-45.00	INLET PROTECTION	Not shown on B sheets
				COUNTY TRAFFIC SIGNAL ITEMS	
2	2	EACH		SIGNAL HEAD, TYPE 1S, PEDESTRIAN	
10 256	10	EACH L.F.		DETECTOR, PEDESTRIAN PUSH BUTTON, FREEZEPROOF	nen de Benederal de la compactación de la compactación de la compactación de la compactación de la compactació La compactación de la compactación
and the second s	256		904-01.00	CONDUIT, 1"	Handrick and the comment of the comm Handrick and the comment of t
256 624		فسترجب كالمتراث فيتمار فيستنا فسيترسط أمك	904-52 00		
624 105	624 105	LF.	904-52.00 904-54.00	CONDUIT, 4"	May require boring under existing pavement.
624		L.F.	904-54.00	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT	
624 105 2	105 2	L.F. L.F. EACH	904-54.00 904-74.99	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT)	
624 105 2 341	105 2 341	L.F. L.F. EACH L.F.	904-54.00 904-74.99 904-83.05	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR	
624 105 2 341 600	105 2 341 600	L.F. EACH L.F. L.F.	904-54.00 904-74.99 904-83.05 904-85.05	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES)	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. EACH L.F. L.F. L.F. L.F.	904-54.00 904-74.99 904-83.05 904-85.05 904-85.06	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT)	
624 105 2 341 600	105 2 341 600	L.F. EACH L.F. L.F.	904-54.00 904-74.99 904-83.05 904-85.05 904-85.06 904-85.18	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES)	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. EACH L.F. L.F. L.F. L.F. L.F.	904-54.00 904-74.99 904-83.05 904-85.05 904-85.06 904-85.18 904-90.17 904-95.10	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. EACH L.F. L.F. L.F. L.F. L.F. EACH	904-54.00 904-74.99 904-83.05 904-85.05 904-85.06 904-85.18 904-90.17 904-95.10	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. EACH L.F. L.F. L.F. L.F. EACH EACH EACH	904-54.00 904-74.99 904-83.05 904-85.05 904-85.06 904-85.18 904-90.17 904-95.10	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH	904-54.00 904-74.99 904-83.05 904-85.05 904-85.18 904-90.17 904-95.10 904-95.40	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS	
624 105 2 341 600 10,743	105 2 341 600 10,743	L.F. EACH L.F. L.F. L.F. L.F. EACH EACH EACH	904-54.00 904-74.99 904-83.05 904-85.05 904-85.18 904-90.17 904-95.10 904-95.40	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX	Not shown on B sheets As directed by the Engineer
624 105 2 341 600 10,743 1,693 4 6 6 6	105 2 341 600 10,743 1,693 4 6 6 6	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH EACH EACH EACH EACH	904-54.00 904-74.99 904-83.05 904-85.06 904-85.18 904-90.17 904-95.10 904-95.40 201-20.11 412-20.00 608-60.08	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS CLEARING VEGETATION FROM THE PEDESTRIAN ACCESS ROUTE SIDEWALK GRINDING CONCRETE SIDEWALK, CURB RAMP	Not shown on B sheets As directed by the Engineer Includes all items as described in Special Provision 100.20.9 and sawcutting as needed
624 105 2 341 600 10,743 1,693 4 6 6 6	105 2 341 600 10,743 1,693 4 6 6 6	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH EACH EACH EACH S.Y.	904-54.00 904-74.99 904-83.05 904-85.05 904-85.18 904-90.17 904-95.10 904-95.40 201-20.11 412-20.00 608-60.08 608-60.94	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS CLEARING VEGETATION FROM THE PEDESTRIAN ACCESS ROUTE SIDEWALK GRINDING CONCRETE SIDEWALK, CURB RAMP REMOVE AND REPLACE CONCRETE SIDEWALK (4" THICK)	Not shown on B sheets As directed by the Engineer Includes all items as described in Special Provision 100.20.9 and sawcutting as needed Includes sawcutting.
624 105 2 341 600 10,743 1,693 4 6 6 6	105 2 341 600 10,743 1,693 4 6 6 6	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH EACH S.Y. S.Y.	904-54.00 904-74.99 904-83.05 904-85.06 904-85.18 904-90.17 904-95.10 904-95.40 201-20.11 412-20.00 608-60.08 608-60.94 608-60.96	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS CLEARING VEGETATION FROM THE PEDESTRIAN ACCESS ROUTE SIDEWALK GRINDING CONCRETE SIDEWALK, CURB RAMP REMOVE AND REPLACE CONCRETE SIDEWALK (4" THICK) REMOVE AND REPLACE CONCRETE SIDEWALK (6" THICK)	Not shown on B sheets As directed by the Engineer Includes all items as described in Special Provision 100.20.9 and sawcutting as needed
624 105 2 341 600 10,743 1,693 4 6 6 6	105 2 341 600 10,743 1,693 4 6 6 6	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH EACH EACH EACH S.Y.	904-54.00 904-74.99 904-83.05 904-85.06 904-85.18 904-90.17 904-95.10 904-95.40 201-20.11 412-20.00 608-60.08 608-60.94 608-60.96	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS CLEARING VEGETATION FROM THE PEDESTRIAN ACCESS ROUTE SIDEWALK GRINDING CONCRETE SIDEWALK, CURB RAMP REMOVE AND REPLACE CONCRETE SIDEWALK (4" THICK) REMOVE AND REPLACE CONCRETE SIDEWALK (6" THICK) TRUNCATED DOMES FOR CURB RAMPS (Retrofit Construction)	Not shown on B sheets As directed by the Engineer Includes all items as described in Special Provision 100.20.9 and sawcutting as needed Includes sawcutting.
624 105 2 341 600 10,743 1,693 4 6 6 6	105 2 341 600 10,743 1,693 4 6 6 6	L.F. L.F. L.F. L.F. L.F. EACH EACH EACH EACH S.Y. S.Y.	904-54.00 904-74.99 904-83.05 904-85.06 904-85.18 904-90.17 904-95.10 904-95.40 201-20.11 412-20.00 608-60.08 608-60.94 608-60.96	CONDUIT REPAIR (LOCATE BROKEN CONDUIT, EXCAVATE, REMOVE EXISTING CABLE, REPAIR/ REPLACE CONDUIT REINSTALL CABLE, BACKFILL AND RESTORE). (DOES NOT INCLUDE SIDEWALK OR PAVEMENT REMOVAL & REPLACEMENT) CABLE, SIGNAL, #14 GAUGE, 5 CONDUCTOR CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN CONDUIT AND PULL BOXES) CABLE DETECTOR LOOP, #14 GAUGE, 1 CONDUCTOR, W/ TUBE JACKET (IN SAWED SLOT) CABLE, PUSH BUTTON AND/ OR DETECTOR LOOP LEAD-IN, #18 GAUGE, 2 CONDUCTOR (SHIELDED) PREFORMED PULL BOX (17"W x 30"L x 26" min. H), REINFORCED POLYMER CONCRETE W/ 1' CONCRETE APRON OPENING DRILLED IN EXISTING CONCRETE PULL BOX ADJUSTMENT OF CONCRETE PULL BOX PEDESTRIAN AND BICYCLE ITEMS CLEARING VEGETATION FROM THE PEDESTRIAN ACCESS ROUTE SIDEWALK GRINDING CONCRETE SIDEWALK, CURB RAMP REMOVE AND REPLACE CONCRETE SIDEWALK (4" THICK) REMOVE AND REPLACE CONCRETE SIDEWALK (6" THICK)	Not shown on B sheets As directed by the Engineer Includes all items as described in Special Provision 100.20.9 and sawcutting as needed Includes sawcutting.

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		RESPONSIBILITY A 2 1	NA.	authorized by my seal are	111 OF IEL FA	responsibility for all other	Se Carlo Drawings, Specifications, Carlo Se Carl	documents or instruments	relating to or intended to be used for any part of the	Military project or ellever
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	PREPARED BY:		DESIGN DIVISION	1050 N. LINDBERGH BLVD	ST. LOUIS, MISSOURI 63132	(314) 615-8543		DANIEL JOSEBH EALIKE	PROFESSIONAL ENGINEER	LICENISE NO 2007002782
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REAVIS BARRACKS ROAD -MACKENZIE ROAD INFRASTRUCTURE SUMMARY OF QUANTITIES

DJF

DJF CHECKED:

SHEET SEQUENCE: 2A OF 53

1-20.16			TREE REMOVAL, OV As directed by the En	A Committee of the Comm	
	<u>LOCATION</u>	SIDE (Rt / Lt)		QUANTITY (INCHES)	REMARKS
	10001 Shapfield Ln 10001 Shapfield Ln	Rt Rt		25 18	
	10001 Shapfield Ln	Rt B4		20 18	
	10001 Shapfield Ln	Rt			
	TOTAL			81	
2-22.30	As dire		REMOVAL OF RIGID PA		cent curbing where applicable.
	LOCATION	SIDE		QUANTITY	REMARKS
		(Rt / Lt)		S.Y.(0.1)	
	Reavis Barracks / Mackenzie	(Rt / Lt)		2,527.5	R&R concrete base (see Item No. 509-10.30)
				622.4 1,580.0	R&R concrete base (see Item No. 509-10.40) R&R concrete base (see Item No. 502-11.20)
	Mackenzie Rd at Bonton Dr	Rt		184.0	For reconstruction of north approach (includes curb removal)
	TOTAL			4,913.9	
3-10.00			CLASS "A" EXCAV		
	For use under 6" & 7" concrete LOCATION	pavement, 6" sidewalks & SIDE		oproaches, co QUANTITY	oncrete medians, and other joint/ base repairs as noted. REMARKS
		(Rt / Lt)		C.Y.(0.1)	
	Reavis Barracks / Mackenzie	(Rt / Lt)		280.8	R&R concrete base (see Item No. 509-10.30)
				69.2 175.6	R&R concrete base (see Item No. 509-10.40) R&R concrete base (see Item No. 502-11.20)
	D	20 (2.0)			
	Reavis Barracks / Mackenzie	(Rt / Lt)		84.2	For joint repair, 4" depth (See Item nos. 613-10.18, 613-10.91, 613-20.20, 613-20.21)
	Reavis Barracks / Mackenzie	(Rt / Lt)		9.9	R&R 6" paved approach (see Item No. 608-50.96), 4" depth
				27.6	R&R 7" paved approach (see Item No. 608-50.97), 4" depth
	Mackenzie at Mackenzie Rd	(Rt / Lt)		23.7	R&R concrete median / island (see Item No. 608-10.90), 4" depth
	Mackenzie at Mackenzie Rd	(Rt / Lt)		2.7	R&R 6" sidewalk (see Item No. 608-60.96), 4" depth
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	이 마음이 그 그는 그들은 이 아름이 되는 것을 하고 그들은 사람들은 이 사람들은 그 그는 것이다고 하는 것이				
	Mackenzie Rd at Bonton Dr	Rt		24.0	For reconstruction of north approach, 4" depth
	Mackenzie Rd at Bonton Dr TOTAL	Rt		24.0 697.6	For reconstruction of north approach, 4" depth
4-05.04	TOTAL		TYPE 5 AGGREGATE (697.6 (4" THICK)	
4-05.04	TOTAL		bus stop pads, paved ap	697.6 (4" THICK)	oncrete medians, and other joint/ base repairs as noted. REMARKS
4-05.04	TOTAL For use under 6" & 7" concrete	pavement, 6" sidewalks &	bus stop pads, paved ap	697.6 (4" THICK) oproaches, co	oncrete medians, and other joint/ base repairs as noted.
4-05.04	TOTAL For use under 6" & 7" concrete	pavement, 6" sidewalks &	bus stop pads, paved ap	697.6 (4" THICK) oproaches, co QUANTITY S.Y.(0.1)	oncrete medians, and other joint/ base repairs as noted. REMARKS R&R 8" concrete base (see Item No. 509-10.08)
4-05.04	TOTAL For use under 6" & 7" concrete LOCATION	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 [4" THICK) oproaches, concluded the conclusion of the concl	oncrete medians, and other joint/ base repairs as noted. REMARKS
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt / Lt)	bus stop pads, paved ap	697.6 [4" THICK) oproaches, co QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08)
4-05.04	TOTAL For use under 6" & 7" concrete LOCATION	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, co QUANTITY S.Y.(0.1) 2,527.5 622.4	ncrete medians, and other joint/ base repairs as noted. REMARKS R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt / Lt)	bus stop pads, paved ap	697.6 [4" THICK) oproaches, co QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) R&R 8" concrete base (see Item No. 502-11.08)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt / Lt) (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, co QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt / Lt) (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, concentration of the	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, concentration QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, concentration QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-11.08) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 [4" THICK) oproaches, concentration QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90)
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, concentration QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96)
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total	pavement, 6" sidewalks & SIDE (Rt / Lt)	bus stop pads, paved ap	697.6 (4" THICK) oproaches, concepts of the second	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach
4-05.04	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total	pavement, 6" sidewalks & SIDE (Rt / Lt)	ALTIC CONCRETE MIXTermined by the Engineer.	697.6 (4" THICK) oproaches, concepts, concept	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96)
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total Exact locati	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer.	697.6 [4" THICK) oproaches, concentration 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * By 2" thick, estimated at 2.16 T/CY.
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total Exact locati	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer.	697.6 (4" THICK) oproaches, concepts QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate QUANTITY TON (0.1) 4,226.8	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ety 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie TOTAL Exact locati LOCATION	pavement, 6" sidewalks & SIDE (Rt / Lt) SUPERPAVE ASPH/ions & quantities to be determined by the sidewalks & SUPERPAVE ASPH/ions & quantities to be determined by the sidewalks & SIDE (Rt / Lt) (Rt	ALTIC CONCRETE MIXTermined by the Engineer.	697.6 [4" THICK) oproaches, concepts of the c	REMARKS REMARKS R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ely 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total Exact locati LOCATION Mackenzie Rd Mackenzie Rd Mackenzie Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) SUPERPAVE ASPH/ ions & quantities to be determined by the second seco	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane	697.6 (4" THICK) oproaches, concepts of QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate QUANTITY TON (0.1) 4,226.8 191.5 1,758.7 56.9	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ely 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach Side Street Approaches (includes Shapfield)
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total Exact locati LOCATION Mackenzie Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr	697.6 (4" THICK) oproaches, concepts, concept	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ely 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Total Exact locati LOCATION Mackenzie Rd Mackenzie Rd Mackenzie Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) SUPERPAVE ASPH/ ions & quantities to be determined by the second s	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane EOM at I-55	697.6 [4" THICK) oproaches, concentration QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate QUANTITY TON (0.1) 4,226.8 191.5 1,758.7 56.9 1,043.8 67.7 7,345.3	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ely 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane Side Street Approaches (excludes Mullally Dr)
	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Mackenzie Rd at Bonton Dr TOTAL Exact locati LOCATION Mackenzie Rd Mackenzie Rd Mackenzie Rd Mackenzie Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane EOM at I-55	697.6 (4" THICK) oproaches, concepts of QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate QUANTITY TON (0.1) 4,226.8 191.5 1,758.7 56.9 1,043.8 67.7 7,345.3	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * Ply 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane Side Street Approaches (excludes Mullally Dr) MENT)
4-12.72	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Mackenzie Rd at Bonton Dr TOTAL Exact locati LOCATION Mackenzie Rd Mackenzie Rd Mackenzie Rd Mackenzie Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) SUPERPAVE ASPH/ ions & quantities to be determined by the second s	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane EOM at I-55 "BITUMINOUS CONCRES to be determined by the store to be stored	697.6 (4" THICK) oproaches, concepts, concept	R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * aly 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane Side Street Approaches (excludes Mullally Dr) MENT)
4-12.72	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Mackenzie Rd at Bonton Dr TOTAL Exact locati LOCATION Mackenzie Rd Mackenzie Rd Reavis Barracks Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane EOM at I-55 "BITUMINOUS CONCRES to be determined by the store to be stored	697.6 (4" THICK) oproaches, or QUANTITY S.Y.(0.1) 2,527.5 622.4 1,580.0 757.8 88.7 248.1 213.7 24.0 211.0 6,273.2 TURE SP125 Approximate QUANTITY TON (0.1) 4,226.8 191.5 1,758.7 56.9 1,043.8 67.7 7,345.3 RETE (PAVE ne Engineer.	ncrete medians, and other joint/ base repairs as noted. REMARKS R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * Ply 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane Side Street Approaches (excludes Mullally Dr) MENT) Estimated at 2.16 T/CY.
4-12.72	For use under 6" & 7" concrete LOCATION Reavis Barracks / Mackenzie Mackenzie Rd at Bonton Dr TOTAL Exact locati LOCATION Mackenzie Rd Mackenzie Rd Reavis Barracks Rd	pavement, 6" sidewalks & SIDE (Rt / Lt) (Rt /	ALTIC CONCRETE MIXTermined by the Engineer. TO Bonton Dr Shapfield Lane EOM at I-55 "BITUMINOUS CONCRES to be determined by the store to be stored	697.6 (4" THICK) oproaches, concepts, concept	ncrete medians, and other joint/ base repairs as noted. REMARKS R&R 8" concrete base (see Item No. 509-10.08) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 509-10.18) R&R 8" concrete base (see Item No. 502-11.08) For joint repair (see Item Nos. 613-10.18, 613-10.91, 613-20.20, & 613-20.21) R&R 6" paved approach (see Item No. 608-50.96) R&R 7" paved approach (see Item No. 608-50.97) R&R concrete median / island (see Item No. 608-10.90) R&R 6" sidewalk (see Item No. 608-60.96) For reconstruction of north approach (PG 70-22) DLP * ety 2" thick, estimated at 2.16 T/CY. REMARKS Mainline (full width) ending at Bonton Dr south approach Side Street Approaches Mainline (full width) beginning at Bonton Dr south approach Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane Side Street Approaches (excludes Mullally Dr) MENT) Estimated at 2.16 T/CY.

* INDICATES CHANGE IN QUANTITY UNDER ADDENDUM NO. 1

LOCATION	SIDE	QUANTITY	Estimated at 2.16 T/CY. REMARKS
	(Rt / Lt)	TON (0.1)	
9437 Mackenzie	Rt	1.5	For use on drive approach
9501 Mackenzie	Rt	1.5	For use on drive approach
9650 Reavis Rd (church)	Rt	1.5	For use on drive approach
9777 Mackenzie 9516 Reavis Barracks	Rt Rt	1.5 1.5	For use on drive approach
9512 Reavis Barracks	Rt	1.5	For use on drive approach For use on drive approach
4834 Reavis Barracks	Rt	1.5	For use on drive approach
4828 Reavis Barracks	Ri	1.5	For use on drive approach
4824 Reavis Barracks	Ri	1.5	For use on drive approach
4816 Reavis Barracks	Rt	1.5	For use on drive approach
4814 Reavis Barracks	Rt	1.5	For use on drive approach
4808 Reavis Barracks	Rt	1.5	For use on drive approach
4804 Reavis Barracks	Rt	1.5	For use on drive approach
4716 Reavis Barracks	Rt	1.5	For use on drive approach
4712 Reavis Barracks	Rt	1.5	For use on drive approach
4710 Reavis Barracks 4700 Reavis Barracks	Rt Rt	1.5 1.5	For use on drive approach For use on drive approach
9225 Reavis Barracks		1.5	For use on drive approach
9253 Reavis Barracks		1.5	For use on drive approach
9427 Reavis Barracks		1.5	For use on drive approach
9435 Reavis Barracks	Lt	1.5	For use on drive approach
9439 Reavis Barracks	Lt	1.5	For use on drive approach
9501 Reavis Barracks	Lt	1.5	For use on drive approach
9505 Reavis Barracks	L	1.5	For use on drive approach
9509 Reavis Barracks	Lt.	1.5	For use on drive approach
9513 Reavis Barracks	Lt	1.5	For use on drive approach
9521 Reavis Barracks	Lt	1.5	For use on drive approach
9940 Mackenzie		1.5	For use on drive approach
9930 Mackenzie	Lt.	1.5	For use on drive approach
9926 Mackenzie	Lt	1.5	For use on drive approach
9860 Mackenzie		1.5 1.5	For use on drive approach
9814 Mackenzie 9810 Mackenzie	Lt Lt	1.5	For use on drive approach For use on drive approach
9764 Mackenzie	Lt	1.5	For use on drive approach
9760 Mackenzie		1.5	For use on drive approach
9654 Mackenzie		1.5	For use on drive approach
9648 Mackenzie	<u> </u>	1.5	For use on drive approach
9644 Mackenzie	Lt	1.5	For use on drive approach
9536 Upland Dr		1.5	For use on drive approach
9506 Mackenzie		1.5	For use on drive approach
9458 Mackenzie	Lt	1.5	For use on drive approach
9454 Mackenzie		1.5	For use on drive approach
9450 Mackenzie	Lt.	1.5	For use on drive approach
9446 Mackenzie		1.5	For use on drive approach
9440 Mackenzie 9436 Mackenzie	Lt Lt	1.5 1.5	For use on drive approach For use on drive approach
9426 Mackenzie	Le la companya di santana di santa	1.5	For use on drive approach
9422 Mackenzie	Lt	1.5	For use on drive approach
9422 Mackenzie		1.5	For use on drive approach
9342 Mackenzie		1.5	For use on drive approach
9340 Mackenzie	Lt.	1.5	For use on drive approach
9338 Mackenzie		1.5	For use on drive approach
9336 Mackenzie		1.5	For use on drive approach
9332 Mackenzie		1.5	For use on drive approach
9330 Mackenzie	Lt	1.5	For use on drive approach
9328 Mackenzie	Lt	1.5	For use on drive approach
9324 Mackenzie	Lt.	1.5	For use on drive approach
9320 Mackenzie		1.5	For use on drive approach
9318 Mackenzie	Lt	1.5	For use on drive approach
9316 Mackenzie		1.5 1.5	For use on drive approach For use on drive approach
9314 Mackenzie 9310 Mackenzie	Lt.	1.5	For use on drive approach
9308 Mackenzie		1.5	For use on drive approach
9306 Mackenzie	L	1.5	For use on drive approach
9304 Mackenzie	Lt	1.5	For use on drive approach
9302 Mackenzie	L	1.5	For use on drive approach
9280 Mackenzie	L	1.5	For use on drive approach
9278 Mackenzie	Lŧ	1.5	For use on drive approach
9274 Mackenzie	$\mathbf{L}_{\mathbf{t}}$	1.5	For use on drive approach
9270 Mackenzie	L	1.5	For use on drive approach
9122 Mackenzie	Li	1.5	For use on drive approach
9118 Mackenzie	Lt	1.5	For use on drive approach
9112 Mackenzie	Lt	1.5	For use on drive approach
			districtive de l'internation de la committe de la La committe de la co
TOTAL		109.5	·霍· 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

TYPE "D" BITUMINOUS CONCRETE (PAVEMENT)

COUNTY PROJECT NO.

AR-1413 FEDERAL PROJECT NO. STP-4901(632) E-W GATEWAY TIP NO. 5609-14 MSD BASE MAP: 26-J, 27-J

SHEET SEQUENCE:

3A OF 53

			CK-EMULSIFIED ASI Estimated at 0.12	Gal / S.Y.		509-10.40			As directed by the	e Engineer.	HIGH EARLY STRENGTH **
	<u>LOCATION</u>	FROM	TO	QUANTITY GAL. (10)	REMARKS		LOCATION	SIDE (Rt / Lt)	DIMENSIONS (L x W)	QUANTITY S.Y. (1.0)	<u>REMARKS</u>
	Mackenzie Rd	EOM at Gravois Rd	Bonton Dr	4,418	Includes side street approaches		Mackenzie at Irene Place	Rt	28' x 22'	68.4	curb lane and through lane
							9347 Mackenzie	Rt	10' x 11'	12.2	curb lane
	Mackenzie Rd / Reavis Barracks Rd	Bonton Dr	Shapfield Lane	1,816	Includes side street approaches		9425 Mackenzie 9441 Mackenzie	Rt Rt	12' x 22' 8.5' x 10'	29.3 9.4	curb lane and through lane shoulder
	Reavis Barracks Rd	Shapfield Lane	EOM at I-55	1,111	Includes side street approaches		9801 Mackenzie	Rt Rt	8.5' x 15'	14.2	shoulder
	TOTAL			7,350	Rounded to nearest 10 Gal.		4812 Reavis Barracks Reavis Barracks at Ummelmann	Rt Rt	35' x 9' 22' x 30'	35.0 73.3	shoulder curb lane, through lane, and shoulder
	TOTAL			7,330	Rounded to hearest 10 Gal.		4700 Reavis Barracks	Rt	23' x 10'	25.6	shoulder
					RETE OR ASPHALT *		9926 Mackenzie 9918 Mackenzie		8.5' x 27' 29' x 22'	25.5 70.9	shoulder curb lane and through lane
	Approximately 2" depth but may vary LOCATION	/. Additional depth for u	ise in reestablishing cu <u>TO</u>	QUANTITY	es butt joints and side streets. As directed by the Engineer. REMARKS		9890 Mackenzie	<u>L</u> i	14' x 11'	17.1	through lane
				S.Y. (1.0)			9764 Mackenzie 9548 Mackenzie		17.5' x 11' 72' x 11'	21.4 88.0	through lane curb lane
	Mackenzie Rd	EOM at Gravois Rd	Bonton Dr	35,223	Mainline (full width) ending at Bonton Dr south approach		9522 Mackenzie	Ē	36' x 11'	44.0	through lane
	Mackenizie IV	LOW at Gravois Nu		1,596	Side Street Approaches		9406 Mackenzie 9321 Mackenzie		14' x 11' 8' x 11'	17.1 9.8	curb lane through lane
	Mackenzie Rd / Reavis Barracks Rd	Bonton Dr	Shapfield Lane	14,656 474	Mainline (full width) beginning at Bonton Dr south approach		9122 Mackenzie	Ĺ	22' x 25'	61.1	curb lane and through lane
	Reavis Barracks Rd	Shapfield Lane	EOM at I-55	8,698	Side Street Approaches (includes Shapfield) Mainline (full width) beginning at Shapfield Lane		TOTAL			622.4	
				564	Side Street Approaches (excludes Mullally Dr)						
	TOTAL			61,211		509-11.20			ASE (VARIABLE THIC tions & quantities to be		
							<u>LOCATION</u>	SIDE		QUANTITY	REMARKS
	<u> </u>	Exact location	SIDEWALK GR ons & quantities to be o		e Engineer.			(Rt / Lt)		S.Y. (1.0)	
	LOCATION	SIDE		QUANTITY	<u>REMARKS</u>		E.O.M. at I-55	Lt	450' x 22'		curb lane and through lane
		(Rt / Lt)		(EACH)	d new paragraphic designation of the control of the The control of the control of		Southridge Apartment Building Southridge Apartment Building	Lt Lt	130' x 12' 32' x 12'		through lane through lane
	Reavis Barracks / Mackenzie	Rt / Lt		46			Southridge Apartment Building	Ľ	88' x 12'	117.3	through lane
	TOTAL			46			Southridge Apartment Building	Lt	110' x 12'	146.7	through lane
<u> </u>						<u>#</u> ************************************					
			RETE PAVEMENT (6"				TOTAL			1,580.0	
	LOCATION	SIDE	ons & quantities to be o	QUANTITY		603-10.35		ADJUS	ST WATER SERVICE	VALVE BOX TO	GRADE
		(Rt / Lt)		S.Y. (1.0)					tions & quantities to be		
	Mackenzie at Bonton Dr	Rt		211.0	For north approach reconstruction;		LOCATION	SIDE (Rt / Lt)		QUANTITY EACH	REMARKS
					includes rolled curbing and thickened sections						
	TOTAL			211.0			Mackenzie at Bonton Dr (north approach) 9306 Mackenzie	Rt Lt		1	for curb ramp reconstruction, NW corner
	CONCRE	ETE BASE (VARIABL			VERY EARLY STRENGTH **						
	LOCATION	SIDE	As directed by the DIMENSIONS	Engineer. QUANTITY	REMARKS		TOTAL			<u> </u>	
	LOCATION	(Rt / Lt)	(L x W)	S.Y. (1.0)	Nawakka	604-20.27			CE INLET GRATES A		
							LOCATION Exact locati	ons & quantities to be SIDE	e determined by the En	gineer. Includes i	eplacement of concrete inlet seat. REMARKS
	700 Sterling PI (Citizen's National Bank) 700 Sterling PI (Citizen's National Bank)	Rt Rt	26' x 26' 21' x 27'	75.1 63.0	curb lane and through lane curb lane and through lane			(Rt / Lt)		EACH	
	700 Sterling PI (Citizen's National Bank)	Rt	10' x 27'	30.0	curb lane and through lane		9940 -9946 Bonton Dr	Rt			Replace concrete inlet seats and adjust to grade
	Mackenzie at Sterling Place Mackenzie at Reavis Rd	Rt Rt	22' x 137' 45' x 12'	334.9 60.0	curb lane and through lane curb lane						
	Reavis Road	Rt	24' x 27'	72.0			TOTAL				
	9765 Mackenzie (Phillips 66) 10001 Shapfield Ln	Rt Rt	33' x 12' 50' x 25'	44.0 138.9	curb lane curb lane and through lane	604-20.30			ADJUSTING MANH		
	4834 Reavis Barracks	Rt	30' x 33.5'	111.7	curb lane, through lane, and center turn lane		LOCATION	Exact locat	tions & quantities to be	QUANTITY	e Engineer. REMARKS
	4824 Reavis Barracks	Rt Lt	38' x 23' 37' x 22'	97.1 90.4	curb lane and through lane curb lane and through lane	44 - 1845 - 1850 - 1851 - 1855 24 - 1851 - 1852 - 1853 - 1853 - 1853 45 - 1853 - 1853 - 1853 - 1853		(Rt / Lt)		<u>EACH</u>	
	Reavis Barracks at Villa Ridge Ct Reavis Barracks at Villa Ridge Ct		50' x 22'	122.2	curb lane and through lane		9700 Sterling Pl. (Citizens National Bank)	Rt			
	Reavis Barracks at Villa Ridge Ct		41' x 12'	54.7 672.2	curb lane		Mackenzie at Sterling Place	Rt		1	for curb ramp reconstruction, NW corner
	Reavis Barracks at Villa Ridge Ct Huntingdon Lane	Lt Lt	275' x 22' 20' x 52.5'	672.2 116.7	curb lane and through lane located on Huntingdon Lane		9617 Irene Place 9441 Mackenzie	Rt Rt		2	
	Huntingdon Lane	<u>L</u>	35' x 12.5'	48.6	right turn lane		9777 Mackenzie	Rt		1	
	9207 Reavis Barracks 9209 Reavis Barracks		32' x 22' 40' x 24'	78.2 106.7	curb lane and through lane curb lane and through lane		9801 - 9815 Mackenzie (county park) 9137 Reavis Barracks	Rt I t			
	Reavis Barracks at Zenith Drive		100' x 12'	133.3	curb lane		Mackenzie at Lydell Dr	<u> </u>			for curb ramp reconstruction, SE corner
	Reavis Barracks at Sterling Place	11	25' x 28'	77.8	curb lane and through lane		Reavis Barracks / Mackenzie	(Rt / Lt)		25	all located in mailine pavement
	TOTAL			2,527.5			TOTAL			34	
									REPLACE PRECA	ST INI ET TOP	
						004-21.90			tions & quantities to be		
							<u>LOCATION</u>	SIDE (Rt / Lt)		QUANTITY EACH	<u>REMARKS</u>
								INLILU		- LAUN	
								<u> Piri dia bahan bahatakan</u> d			
							9430 Mackenzie	Lt		1	
							9430 Mackenzie TOTAL	Lt		1	
								Lt		1	
						604-90.40			ADJUST INLET STO		e Engineer.
						604-90.40		Exact locat SIDE		determined by the QUANTITY	e Engineer. REMARKS
						604-90.40	TOTAL	Exact locat		determined by th	
						604-90.40	LOCATION 9355 Mackenzie	Exact locat SIDE		determined by the QUANTITY	<u>are the control of t</u>
						604-90.40	LOCATION 9355 Mackenzie 9785 Mackenzie	Exact locat SIDE (Rt / Lt)		determined by the QUANTITY	<u>are the control of t</u>
	ATES CHANGE IN QUANTITY	IINDED ADDEN	DUM NO 4			604-90.40	LOCATION 9355 Mackenzie	Exact locat SIDE (Rt / Lt) Rt Rt		determined by the QUANTITY	<u>are the control of t</u>

COUNTY PROJECT NO.
AR-1413

FEDERAL PROJECT NO.
STP-4901(632)

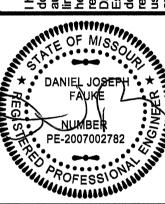
E-W GATEWAY TIP NO.
5609-14

MSD:
N/A

MSD BASE MAP: 26-J, 27-J

REV. DATE BY APP. DESCRIPTION OF STRIPTION O

hereby specify that the documents intended to be authorized by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part of the



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DESIGN DIVISION 1050 N. LINDBERGH BLVD ST. LOUIS, MISSOURI 63132 (314) 615-8543

HIGHWAYS & TRAFFIC
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PUBLIC WORKS
PUBLIC WORKS

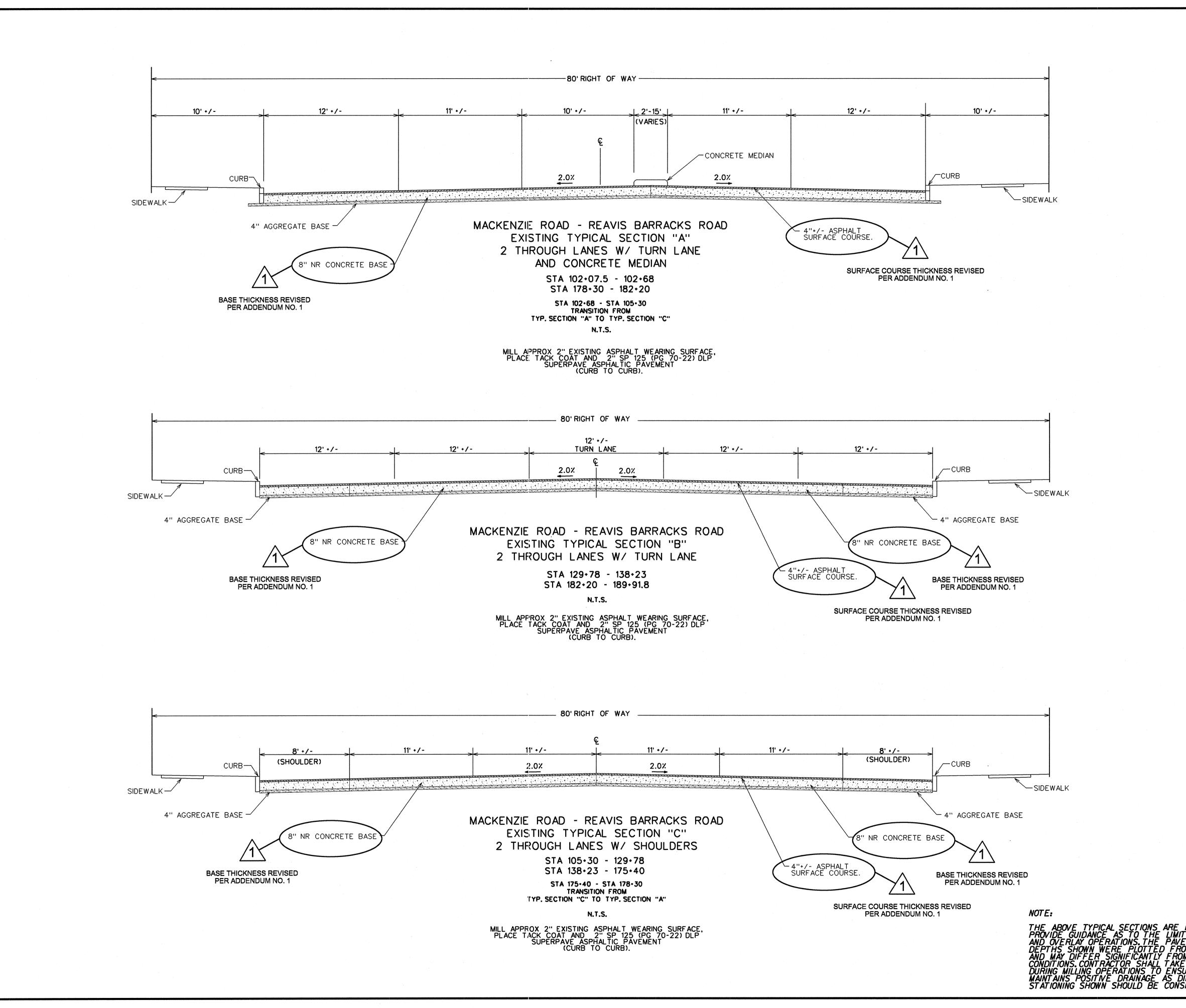
MACKENZIE ROAD INFRASTRUCTURE

SIGNED:

DESIGNED: DJF

CHECKED:

SHEET SEQUENCE: 4A OF 53



COUNTY PROJECT NO. AR-1413 FEDERAL PROJECT NO. STP-4901(632) E-W GATEWAY TIP NO. 5609-14 26-J, 27-J DATE: SEDY 23 2014

DJF

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CHECKED: SHEET SEQUENCE: 10A OF 53