

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			SHEET UC-4				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURE	160	TN		\$ -
	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	490	SY		\$ -
	5325800000-E	1510	8" WATER LINE	1,335	LF		\$ -
	5326200000-E	1510	12" WATER LINE	31	LF		\$ -
	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	1,605	LB		\$ -
	5546000000-E	1515	8" GATE VALVE	5	EA		\$ -
	5558000000-E	1515	12" GATE VALVE	1	EA		\$ -
	5648000000-N	1515	RELOCATE WATER METER	3	EA		\$ -
	5686500000-E	1515	WATER SERVICE LINE	192	LF		\$ -
	5691300000-E	1510	8" SANITARY GRAVITY SEWER	97	LF		\$ -
	5775000000-E	1525	4' DIA UTILITY MANHOLE	2	EA		\$ -
	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	9.4	LF		\$ -
	5804000000-E	1530	ABANDON 12" UTILITY PIPE	53	LF		\$ -
	5816000000-N	1530	ABANDON UTILITY MANHOLE	2	EA		\$ -
	5835700000-E	1540	16" ENCASEMENT PIPE	185	LF		\$ -
			UTILITY CONST. TOTAL				\$ -

R-5863

FINAL

County: Clay

EXHIBIT "B"

Prepared By: ADC/LK
Requested By: 3/11/25

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			SHEET UC-5				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCT	150	TN		\$ -
	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	460	SY		\$ -
	5325800000-E	1510	8" WATER LINE	1,370	LF		\$ -
	5648000000-N	1515	RELOCATE WATER METER	5	EA		\$ -
	5686500000-E	1515	WATER SERVICE LINE	170	LF		\$ -
				UTILITY CONST. TOTAL			\$ -

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			SHEET UC-6				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCT	240	TN	\$	-
	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	730	SY	\$	-
	5325200000-E	1510	2" WATER LINE	210	LF	\$	-
	5325600000-E	1510	6" WATER LINE	194	LF	\$	-
	5325800000-E	1510	8" WATER LINE	1,385	LF	\$	-
	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	765	LB	\$	-
	5536000000-E	1515	2" GATE VALVE	2	EA	\$	-
	5540000000-E	1515	6" GATE VALVE	1	EA	\$	-
	5562000000-E	1515	8" INSERTION VALVE	1	EA	\$	-
	5648000000-N	1515	RELOCATE WATER METER	2	EA	\$	-
	5649000000-N	1515	RECONNECT WATER METER	1	EA	\$	-
	5686500000-E	1515	WATER SERVICE LINE	83	LF	\$	-
	5691300000-E	1510	8" SANITARY GRAVITY SEWER	435	LF	\$	-
	5775000000-E	1525	4' DIA UTILITY MANHOLE	2	EA	\$	-
	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	11.3	LF	\$	-
	5816000000-N	1530	ABANDON UTILITY MANHOLE	2	EA	\$	-
	5835600000-E	1540	12" ENCASEMENT PIPE	40	LF	\$	-
	5835700000-E	1540	16" ENCASEMENT PIPE	40	LF	\$	-
			UTILITY CONST. TOTAL			\$	-

[illegible]

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			SHEET UC-8				
	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCT	70	TN		\$ -
	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	200	SY		\$ -
	5325200000-E	1510	2" WATER LINE	35	LF		\$ -
	5325600000-E	1510	6" WATER LINE	84	LF		\$ -
	5325800000-E	1510	8" WATER LINE	333	LF		\$ -
	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	1,155	LB		\$ -
	5536000000-E	1515	2" GATE VALVE	1	EA		\$ -
	5540000000-E	1515	6" GATE VALVE	1	EA		\$ -
	5546000000-E	1515	8" GATE VALVE	1	EA		\$ -
	5648000000-N	1515	RELOCATE WATER METER	4	EA		\$ -
	5686500000-E	1515	WATER SERVICE LINE	125	LF		\$ -
	5691300000-E	1510	8" SANITARY GRAVITY SEWER	137	LF		\$ -
	5768000000-E	1520	SANITARY SEWER CLEAN-OUT	5	EA		\$ -
	5768500000-E	1520	SEWER SERVICE LINE	269	LF		\$ -
	5775000000-E	1525	4' DIA UTILITY MANHOLE	3	EA		\$ -
	5828000000-N	1530	REMOVE UTILITY MANHOLE	1	EA		\$ -
	5835700000-E	1540	16" ENCASMENT PIPE	130	LF		\$ -
				UTILITY CONST. TOTAL			\$ -

R-5863

FINAL

County: Clay

EXHIBIT "B"

Prepared By: ADC/LK
Requested By: 3/11/25

Line Item	Des	Sec No.	Description	Quantity	Unit	Price	Amount
			SHEET UC-9				
	5768000000-E	1520	SANITARY SEWER CLEAN-OUT	2	EA		\$ -
	5768500000-E	1520	SEWER SERVICE LINE	170	LF		\$ -
				UTILITY CONST. TOTAL			\$ -

ITS and Signals Unit Engineer's Estimate

TIP NO. :	R-5863
COUNTY :	CLAY
TYPE OF WORK :	TRAFFIC SIGNAL PAY ITEMS
LOCATION :	US 64 & US 64 Business-Hot Spot Convenience Store, HAYESVILLE, NC

ITEM NUMBER	SECTION	UNITS	DESCRIPTION	14-1308T1	14-1308T2	14-1308	TOTAL
7060000000-E	1705	LF	SIGNAL CABLE	1550		1525	3075
7120000000-E	1705	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	10		10	20
7132000000-E	1705	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)	2		2	4
7264000000-E	1710	LF	MESSENGER CABLE (3/8")	525		500	1025
7300000000-E	1715	LF	UNPAVED TRENCHING (4 conduits, 2 inch)	20		20	40
7348000000-N	1716	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	1			1
7360000000-N	1720	EA	WOOD POLE	4			4
7372000000-N	1721	EA	GUY ASSEMBLY	8			8
7408000000-E	1722	EA	1" RISER WITH WEATHERHEAD	1			1
7420000000-E	1722	EA	2" RISER WITH WEATHERHEAD	3			3
7576000000-N	SP	EA	METAL STRAIN SIGNAL POLE			4	4
7613000000-N	SP	EA	SOIL TEST			4	4
7614100000-E	SP	CY	DRILLED PIER FOUNDATION			24	24
7630000000-N	SP	EA	METAL STRAIN POLE DESIGN			4	4
7636000000-N	1745	EA	SIGN FOR SIGNALS	2		2	4
7684000000-N	1750	EA	SIGNAL CABINET FOUNDATION	1			1
7696000000-N	1751	EA	CONTROLLER WITH CABINET (TYPE 2070LX, BASE MOUNTED)	1			1
7901000000-N	1753	EA	CABINET BASE EXTENDER	1			1
7980000000-N	SP	EA	GENERIC SIGNAL ITEM (MICROWAVE VEHICLE DETECTION SYSTEM - MULTIPLE ZONES)	4		4	8

Estimates Summary for TIP Project # R-5863

NCPProject #:

FA-Project#:

WBS Number

County: Clay

Description: US 64 BUSINESS FROM US 64 TO SR 1307 (MAIN STREET)

Date of Estimate: 2/21/2025

Prepared By: DANE FREDDE

THERMOPLASTIC (4", 90 MILS)			
T13	(4") YELLOW DOUBLE CENTER	760	LF
T1	(4") WHITE EDGELINE	501	LF
T2	WHITE SOLID LANE LINE	60	LF
T3	(4") 10 FT. WHITE SKIP	195	LF
T4	(4") 3 FT. - 9 FT./SP WHITE MINISKIP	27	LF
T5	(4") 2 FT. - 6 FT./SP WHITE MINISKIP	25	LF
TOTAL (4", 90 MILS)		1568	LF
THERMOPLASTIC(6", 90 MILS)			
T21	(6") WHITE SOLID LANE LINE	12284	LF
T23	(6") 3 FT. - 9 FT./SP WHITE MINISKIP	25	LF
T24	(6") 2 FT. - 6 FT./SP WHITE MINISKIP	335	LF
T30	(6") YELLOW EDGELINE	535	LF
T33	(6") YELLOW DOUBLE CENTER	14890	LF
TOTAL (6", 90 MILS)		28069	LF
THERMOPLASTIC (8", 90 MILS)			
T41	(8") WHITE DIAGONAL	142	LF
THERMOPLASTIC (12", 90 MILS)			
T50	(12") WHITE GORELINE	100	LF
T51	(12") WHITE DIAGONAL	297	LF
T52	(12") YELLOW DIAGONAL	266	LF
T55	(12") 3 FT. - 3 FT./SP WHITE MINISKIP	69	LF
TOTAL (12", 90 MILS)		732	LF
THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)			
T100	ALPHANUMERIC CHAR. (90 MIL)	6	EA

Estimates Summary for TIP Project # R-5863

NCPProject #:

FA-Project#:

WBS Number

County: Clay

Description: US 64 BUSINESS FROM US 64 TO SR 1307 (MAIN STREET)

Date of Estimate: 2/21/2025

Prepared By: DANE FREDDE

THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)		
T114	FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW	4 EA
T70	LEFT TURN ARROW	6 EA
T71	RIGHT TURN ARROW	4 EA
T72	STRAIGHT ARROW	5 EA
T73	COMBO STRAIGHT/LEFT	1 EA
T74	COMBO STRAIGHT/RIGHT	1 EA
T76	COMBO LEFT/RIGHT/STRAIGHT	1 EA
TOTAL PAVEMENT MARKING SYMBOLS (90 MILS)		22 EA
THERMOPLASTIC HEATED-IN-PLACE (90 MILS)		
T90	BICYCLE SYMBOL	24 EA
T91	BICYCLE STRAIGHT ARROW	24 EA
TOTAL HEATED-IN-PLACE (90 MILS)		48 EA
GENERIC PAVEMENT MARKING ITEM (SP)		
	24" Yield Thermo	48 LF
THERMOPLASTIC GENERIC PAVEMENT MARKING ITEM (1205)		
T61	WHITE STOPBAR (24", 90 MIL)	337 LF
T62	WHITE CROSSWALK LINE (24", 90 MIL)	640 LF
TOTAL GENERIC PAVEMENT MARKING ITEM (1205)		977 LF
SNOWPLOWABLE RAISED PAVEMENT MARKERS		
MF	CRYSTAL & RED , (@ 80 FT spacing, w/15 extra)	21 EA
ME	YELLOW & YELLOW , (@ 80 FT spacing)	8 EA
ME	YELLOW & YELLOW , (@ 80 FT spacing, w/52 extra)	59 EA
ME	YELLOW & YELLOW , (@ 80 FT spacing)	8 EA
ME	YELLOW & YELLOW , (@ 80 FT spacing)	66 EA
TOTAL SNOWPLOWABLE RAISED PAVEMENT MARKERS		162 EA

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

STATIONARY WORK ZONE SIGNS		
ADV TURN ARROW LT (M5-1)	1 signs	2 SF
ADV TURN ARROW RT (M5-1)	1 signs	2 SF
BE PREPARED TO STOP (W3-4)	2 signs	32 SF
BEGIN ROAD WORK	2 signs	32 SF
BUSINESS (M4-3)	55 signs	110 SF
DETOUR (M4-8)	73 signs	146 SF
DETOUR AHEAD (W20-2)	3 signs	48 SF
DIAGONAL ARROW (RT) (W16-7P)	2 signs	4 SF
END DETOUR (M4-8a)	3 signs	9 SF
END RD WORK (G20-2a)	2 signs	16 SF
HIAWASSEE ST. (SP-1)	22 signs	99 SF
LT TURN ARROW (M6-1)	25 signs	55 SF
NEXT LT (SP-4)	5 signs	18 SF
NEXT RT (SP-4)	5 signs	18 SF
ONE LANE RD (W20-4)	2 signs	32 SF
PED XING (W11-2)	2 signs	13 SF
RD CLSD (W20-3)	10 signs	160 SF
RD CLSD 1000 FT (W20-3)	4 signs	64 SF
RD CLSD 500 FT(W20-3)	4 signs	64 SF
RT TURN ARROW (M6-1)	14 signs	31 SF
SIDEWALK CLSD AHD CROSS HERE (R9-11)	1 signs	2 SF
SIGNAL AHD (W3-3)	2 signs	32 SF

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

STOP HERE ON RED (R10-6)	2 signs	12	SF
STRAIGHT ARROW (M6-3)	34 signs	74	SF
US ROUTE MARKER 64 (M1-4)	55 signs	495	SF
TOTAL STATIONARY WORK ZONE SIGNS			1570 SF
PORTABLE WORK ZONE SIGNS			
BE PREPARED TO STOP (W3-4)	4 signs	64	SF
CTR LANE CLOSED (W20-5)	4 signs	64	SF
DETOUR AHEAD (W20-2)	4 signs	64	SF
FLAGGER SIGN (W20-7a)	4 signs	64	SF
LANE REDUCTION SIGN LT (W4-2)	2 signs	32	SF
LANE REDUCTION SIGN RT (W4-2)	2 signs	32	SF
LT LANE CLSD (W20-5)	2 signs	32	SF
LT LANE CLSD (W20-5)	2 signs	32	SF
NEXT LT (SP-4)	2 signs	7	SF
NEXT RT (SP-4)	2 signs	7	SF
ONE LANE RD (W20-4)	4 signs	64	SF
RD CLSD 1000 FT (W20-3)	4 signs	64	SF
RD CLSD 500 FT(W20-3)	4 signs	64	SF
RD CLSD AHEAD (W20-3)	12 signs	192	SF
RT LANE CLSD (W20-5)	2 signs	32	SF
RT LANE CLSD (W20-5)	2 signs	32	SF
TOTAL PORTABLE WORK ZONE SIGNS			846 SF

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

BARRICADE MOUNTED WORK ZONE SIGNS		
DETOUR ARROW (M4-10L)	3 signs	18 SF
DETOUR ARROW (M4-10R)	3 signs	18 SF
RD CLSD (R11-2)	22 signs	220 SF
RD CLSD 1/2 MI, LOC TRAFFIC ONLY (R11-3)	2 signs	25 SF
RD CLSD 1/4 MI, LOC TRAFFIC ONLY (R11-3)	4 signs	50 SF
RD CLSD TO TRAFFIC (R11-4)	8 signs	100 SF
SIDEWALK CLSD CROSS HERE (R9-11a)	1 signs	2 SF
TOTAL BARRICADE MOUNTED WORK ZONE SIGNS 433 SF		
FLASHING ARROW BOARD		
(3 months, 720 hours ea)		2 EA
PORTABLE CHANGEABLE MESSAGE SIGN		
(0 months, 0 hours ea)		7 EA
PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)		
, (4 @ 30 days)		120 DAY
TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM		
		1 EA
DRUMS		
From Sta.10+30 - - to Sta. 73+25 - -, (@ 80 FT spacing, w/395 extra)		473 EA
SEQUENTIAL FLASHING WARNING LIGHTS		
, (@ 40 FT spacing)		129 EA

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

BARRICADES (TYPE III)	
	408 LF
FLAGGER (BY DAY)	
, (1 @ 180 days)	180 DAY
TMA	
	4 EA
PORTABLE CONCRETE BARRIER	
	72 LF
WATER FILLED BARRIER	
	840 LF
RESET WATER FILLED BARRIER	
	835 LF
LAW ENFORCEMENT	
(720 hours ea)	720 HR
SKINNY DRUM	
, (@ 10 FT spacing, w/13 extra)	13 EA
TUBULAR MARKERS (FIXED)	
, (@ 6 FT spacing)	9 EA
GENERIC TRAFFIC CONTROL ITEM (SP)	
Pedestrian Channelizing Devices	130 LF

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

GENERIC TRAFFIC CONTROL ITEM (SP)

Pedestrian Transport Service Trips	650 EA
Temporary Curb Ramps	1 EA
Audible Warning Devices	13 EA

PAINT (4")

P10 (4") YELLOW EDGELINE (1X)	706 LF
P13 (4") YELLOW DOUBLE CENTER (1X)	20492 LF
P1 (4") WHITE EDGELINE (1X)	19166 LF
P3 (4") 10 FT. WHITE SKIP (1X)	27 LF
P4 (4") 3 FT. - 9 FT./SP WHITE MINISKIP (1X)	123 LF
P5 (4") 2 FT. - 6 FT./SP WHITE MINISKIP (1X)	61 LF

TOTAL (4") 40575 LF

PAINT (8")

P40 (8") WHITE GORELINE (1X)	170 LF
P41 (8") WHITE DIAGONAL (1X)	151 LF
P46 (8") WHITE CROSSWALK LINE (1X)	1053 LF

TOTAL (8") 1374 LF

PAINT (12")

P55 (12") 3 FT. - 3 FT./SP WHITE MINISKIP (1X)	74 LF
--	-------

PAINT (24")

P61 (24") WHITE STOPBAR (1X)	163 LF
P62 (24") WHITE CROSSWALK LINE (1X)	144 LF

TOTAL (24") 307 LF

Estimates Summary for TIP Project # R-5863

NCPProject #: 47516.1.1
FA-Project#:
WBS Number
County: Clay
Description:

Date of Estimate: 3/24/2023
Prepared By: Joshua Roemer

PAINT MARKING SYMBOLS		
P111	FISH-HOOK LEFT/STRAIGHT ARROW	1 EA
P112	FISH-HOOK RIGHT/STRAIGHT ARROW	1 EA
P114	FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW	2 EA
TOTAL MARKING SYMBOLS		4 EA
GENERIC PAVEMENT MARKING ITEM (SP)		
		45 LF
24" Yield Paint		