



**SR 228 SEC 29D - LINE & GRADE COST ESTIMATE**

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ECMS #: E03625					
ROUTE: 228		CALC. BY:	MMM	DATE:	2/4/2019
SECTION: 29D		CHECK BY:	BSB	DATE:	2/4/2019
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
-	EMBANKMENT	CY	249438		
0201-0001	CLEARING AND GRUBBING	LS	1	\$385,000.00	\$385,000.00
0202-0001	DEMOLITION - PARCEL 76	LS	1	\$15,000.00	\$15,000.00
0202-0001	DEMOLITION - PARCEL 74	LS	1	\$10,000.00	\$10,000.00
0203-0001	CLASS 1 EXCAVATION	CY	208984	\$15.00	\$3,134,760.00
0203-0001	CLASS 1 EXCAVATION - MEDIAN ISLANDS	CY	6368	\$15.00	\$95,520.00
0203-0001	CLASS 1 EXCAVATION - UNDERCUT	CY	61441	\$15.00	\$921,615.00
0203-0001	CLASS 1 EXCAVATION - SIDE ROADS	CY	21326	\$15.00	\$319,890.00
0205-0200	SELECTED BORROW EXCAVATION, 206 ROCK	CY	42743	\$25.00	\$1,068,575.00
0205-0364	SELECTED BORROW EXCAVATION, CLASS R-4	CY	318	\$60.00	\$19,080.00
0205-0366	SELECTED BORROW EXCAVATION, CLASS R-6	CY	1580	\$100.00	\$158,000.00
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	153825	\$2.00	\$307,650.00
0301-0006	PLAIN CEMENT CONCRETE BASE COURSE, 10" DEPTH	SY	64360	\$90.00	\$5,792,400.00
0311-0534	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 3 TO < 10 MILLION ESALS, 25.0 MM MIX, 10 " DEPTH	SY	116118	\$45.00	\$5,225,310.00
0350-0108	SUBBASE 8" DEPTH (NO. 2A)	SY	16912	\$17.25	\$291,732.00
0350-0112	SUBBASE 12" DEPTH (NO. 2A)	SY	116953	\$21.00	\$2,456,013.00
0411-6950	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 76-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	180797	\$15.00	\$2,711,955.00
0411-7970	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE (LEVELING), PG 76-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX	TON	45961.125	\$90.00	\$4,136,501.25
0411-0983	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 76-22, 3 TO < 10 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-G	SY	183809	\$12.00	\$2,205,708.00
0460-0001	BITUMINOUS TACK COAT	SY	465907	\$1.75	\$815,337.25
0491-0012	MILLING OF BITUMINOUS PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	SY	73529	\$11.00	\$808,819.00
0501-0020	PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH	SY	16127	\$90.00	\$1,451,430.00
0501-0202	REINFORCED CEMENT CONCRETE PAVEMENT, 10" DEPTH, TRUCK APRON	SY	835	\$150.00	\$125,250.00
0608-0001	MOBILIZATION	LS	1	\$5,900,000.00	\$5,900,000.00
0609-0002	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE A	LS	1	\$125,000.00	\$125,000.00
0609-0009	EQUIPMENT PACKAGE	LS	1	\$50,000.00	\$50,000.00
0619-0470	PERMANENT IMPACT ATTENUATING DEVICE, TYPE II, TEST LEVEL 3 (ENERGY ABSORBING TERMINALS, TANGENT)	EA	10	\$1,850.00	\$18,500.00
0620-0400	TERMINAL SECTION, SINGLE	EA	18	\$70.00	\$1,260.00
0620-0402	TERMINAL SECTION, BRIDGE CONNECTION	EA	4	\$77.50	\$310.00
0620-0503	REMOVE EXISTING GUIDE RAIL (CONTRACTOR'S PROPERTY)	LF	10662.5	\$1.50	\$15,993.75
0620-0870	ANCHORED BACKSLOPE TERMINAL, TYPE 1	EA	2	\$1,290.00	\$2,580.00
0620-1600	TYPE 31-S GUIDE RAIL	LF	11925	\$18.00	\$214,650.00
0620-1625	TYPE 31-SC GUIDE RAIL	LF	50	\$25.00	\$1,250.00
0620-1660	TYPE 31-STRONG POST ANCHOR TERMINAL	EA	18	\$975.00	\$17,550.00



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0627-3020	TEMPORARY BARRIER, TEST LEVEL 3, BARRIER DEFLECTION DISTANCE < />=2'	LF	18000	\$90.00	\$1,620,000.00
0628-3020	RESET TEMPORARY BARRIER, TEST LEVEL 3, BARRIER DEFLECTION DISTANCE < />=2'	LF	18000	\$75.00	\$1,350,000.00
0630-0001	PLAIN CEMENT CONCRETE CURB	LF	1001	\$50.00	\$50,050.00
0633-0200	PLAIN CONCRETE MOUNTABLE CURB, TYPE A	LF	33592	\$35.00	\$1,175,720.00
0633-0230	PLAIN CONCRETE MOUNTABLE CURB, ROUNDABOUT TRUCK APRON CURB	LF	654	\$65.00	\$42,510.00
0641-0005	PLAIN CEMENT CONCRETE CURB GUTTER	SY	785	\$145.00	\$113,825.00
0676-0001	CEMENT CONCRETE SIDEWALK	SY	851	\$87.75	\$74,675.25
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	\$55,000.00	\$55,000.00
0686-0050	CONSTRUCTION SURVEYING, TYPE D	LS	1	\$7,500.00	\$7,500.00
0689-0003	CPM SCHEDULE	LS	1	\$15,000.00	\$15,000.00
0803-0001	PLACING STOCKPILED TOPSOIL	CY	15445	\$18.50	\$285,732.50
0804-0001	SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING MULCH	LB	445	\$15.25	\$6,786.25
0804-0003	SEEDING AND SOIL SUPPLEMENTS - FORMULA D, INCLUDING MULCH	LB	2864	\$13.25	\$37,948.00
0951-0150	TRAFFIC SIGNAL SUPPORT, 50' MAST ARM	EA	8	\$300,000.00	\$2,400,000.00
0962-1004	24" WHITE WATERBORNE PAVEMENT MARKINGS	LF	1107	\$5.95	\$6,586.65
0962-1009	24" YELLOW WATERBORNE PAVEMENT MARKINGS	LF	165	\$5.95	\$981.75
0962-1060	WHITE WATERBORNE PAVEMENT LEGEND, "STRAIGHT ARROW", 12'-0" X 1'-8"	EA	4	\$65.00	\$260.00
0962-1061	WHITE WATERBORNE PAVEMENT LEGEND, "RIGHT ARROW", 12'-0" X 3'-0"	EA	26	\$73.25	\$1,904.50
0962-1062	WHITE WATERBORNE PAVEMENT LEGEND, "LEFT ARROW", 12'-0" X 3'-0"	EA	58	\$73.25	\$4,248.50
0962-1063	WHITE WATERBORNE PAVEMENT LEGEND, "THRU AND RIGHT ARROW", 20'-0" X 3'-7"	EA	5	\$175.00	\$875.00
0962-1035	WHITE WATERBORNE PAVEMENT LEGEND, "YIELD LINE", 24" X 36" TRIANGLE, (MIN 4 TRIANGLES PER LINE)	LF	53	\$40.00	\$2,120.00
0962-1000	4" WHITE WATERBORNE PAVEMENT MARKINGS	LF	398	\$0.13	\$51.74
0962-1005	4" YELLOW WATERBORNE PAVEMENT MARKINGS	LF	7822	\$0.13	\$1,016.86
0962-1001	6" WHITE WATERBORNE PAVEMENT MARKINGS	LF	68319	\$0.15	\$10,247.85
0962-1006	6" YELLOW WATERBORNE PAVEMENT MARKINGS	LF	35005	\$0.15	\$5,250.75
1002-0053	REINFORCEMENT BARS, EPOXY COATED	LB	382878	\$1.75	\$670,036.50
1005-1147	STEEL BEAM BEARING PILES, HP14X102	LF	906	\$100.00	\$90,600.00
1005-1248	STEEL BEAM (NORMAL DUTY) PILE TIP REINFORCEMENT, HP 14X102	EA	42	\$150.00	\$6,300.00
1018-0001	REMOVAL OF EXISTING BRIDGE	LS	2	\$30,000.00	\$60,000.00
8030-0001	BRIDGE STRUCTURE, AS DESIGNED S-xxxxx	LS	1	\$1,208,385.00	\$1,208,385.00
8030-0002	BRIDGE STRUCTURE, AS DESIGNED S-xxxxx	LS	1	\$1,004,095.00	\$1,004,095.00
9000-0001	REMOVE TRAFFIC SIGNAL	EA	6	\$30,000.00	\$180,000.00
9005-0500	MANDATORY PRE-DRILLING FOR STEEL BEAM PILES	LF	420	\$100.00	\$42,000.00



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SECTION: 29D		CHECK BY:	BSB	DATE:	2/4/2019
<b>ITEM NO.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>TOTAL COST</b>
				SUBTOTAL:	\$49,332,346.35
				DRAINAGE & SWM (15%):	\$7,399,851.95
				EROSION AND SEDIMENT CONTROL (10%):	\$4,933,234.64
				MAINTENANCE AND PROTECTION OF TRAFFIC (7%):	\$3,453,264.24
				SIGNING (4%):	\$1,973,293.85
		3% / year	6 years	Through 2025	\$12,076,558.39
				CONTINGENCY (20%):	\$15,833,709.88
				CONSTRUCTION SUBTOTAL:	\$95,002,259.31
				CONSTRUCTION OVERSIGHT (12%):	\$11,400,271.12
				<b>TOTAL ESTIMATED COST:</b>	<b>\$106,402,530.42</b>