

52. Accept the improvements and final construction cost of \$1,979,786.69 for the Ice Cream Grade Road and Smith Grade Road Storm Damage Repair project, and take related actions ()



County of Santa Cruz Board of Supervisors

Agenda Item Submittal

From: Community Development and Infrastructure

Subject: Notice of Completion: Ice Cream Grade Road and Smith Grade Road Storm Damage Repair Project

Meeting Date: April 8, 2025

Formal Title: Accept the improvements and final construction cost of \$1,979,786.69 for the Ice Cream Grade Road and Smith Grade Road Storm Damage Repair project, and take related actions

Recommended Actions

1. Accept the improvements and approve the final cost of \$1,979,786.69 for Contract No. 22D0644, Ice Cream Grade Road PMs 1.36, 1.55, 1.60 and Smith Grade Road PMs 0.43, 0.52, 1.38, 1.90, 2.83 Storm Damage Repair project, Federal Project Nos. ER-32L0(208, 046, 210, 199, 057, 200, 227, 463);
2. Authorize Community Development and Infrastructure to file the Notice of Completion; and
3. Request Community Development and Infrastructure to return the original Notice of Completion to the Clerk of the Board.

Executive Summary

The improvements for the Ice Cream Grade Road PMs 1.36, 1.55, 1.60 and Smith Grade Road PMs 0.43, 0.52, 1.38, 1.90, 2.83 2017 Storm Damage Repair project, Federal Project Nos. ER-32L0(208, 046, 210, 199, 057, 200, 227, 463), were completed on December 19, 2024. This Notice of Completion is to accept the improvements and approve the final cost of \$1,979,786.69.

Discussion

On May 24, 2022, the Board awarded the Ice Cream Grade Road PMs 1.36, 1.55, 1.60 and Smith Grade Road PMs 0.43, 0.52, 1.38, 1.90, 2.83 2017 Storm Damage Repair project to low bidder, Graniterock Company, of San Jose, California, in the amount of \$1,297,907.08.

Project work included restoring the roadway to its pre-disaster condition at eight locations damaged during the 2017 storm events. This work also repaired additional damage caused during the December 2022 and March 2023 storms at Smith Grade PM 0.52. The project provided for replacement of a damaged culvert, headwall construction, slope repair, stitch pile wall construction, drainage improvements, rock slope protection, roadway restoration, erosion control, and revegetation.

The final construction cost exceeded the awarded contract amount by \$681,879.61 due to the additional storm damage sustained at Smith Grade post mile 0.52 during a 2023 rain event and various quantity adjustments made to reflect actual construction conditions.

Accepting the completed improvements and approving the final cost of construction will allow the recordation of the project and release all withheld retention.

Financial Impact

The original bid price was \$1,297,907.08 while the final construction cost is \$1,979,786.69 for the Ice Cream Grade Road PMs 1.36, 1.55, 1.60 and Smith Grade Road PMs 0.43, 0.52, 1.38, 1.90, 2.83 Storm Damage Repair project, Contract No. 22D0644. The contract increase of \$681,879.61 has been obligated by FHWA and appropriated in the Road Fund's GL 621217/62330 FY24-25 budget.

The total direct cost for Contract No. 22D0644 associated with this board item is \$1,979,786.69. Eligible costs will be reimbursed by the Federal Highway Administration (FHWA) at 88.53 percent. The total reimbursement from all agencies is estimated to be \$1,752,705. The local match of \$227,081.69 plus an ineligible cost portion of \$237,574 that will be paid by Senate Bill 1 (SB1) funds.

Strategic Initiatives

Equity Framework - County Facilities & Infrastructure
Operational Plan - Reliable Transportation
Climate Action - Transportation

Submitted By:

Matt Machado, Deputy CAO / Director of Community Development and Infrastructure

Recommended By:

Carlos J. Palacios, County Administrative Officer

Artificial Intelligence Acknowledgment:

Artificial Intelligence (AI) did not significantly contribute to the development of this agenda item.

RECORDED AT THE REQUEST OF:
DEPARTMENT OF COMMUNITY
DEVELOPMENT & INFRASTRUCTURE

WHEN RECORDED MAIL TO:
COUNTY OF SANTA CRUZ
CLERK OF THE BOARD
701 OCEAN STREET, ROOM 520

Free or Complimentary Recording
Per Government Code 27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the County of Santa Cruz, owner of the property hereinafter described, whose address is 701 Ocean Street, Santa Cruz, California, has caused a work of improvement more particularly described as follows:

ICE CREAM GRADE ROAD PMs 1.36, 1.55, 1.60; SMITH GRADE ROAD PMs 0.43, 0.52,
1.38, 1.90, 2.83 STORM DAMAGE REPAIR
FEMA ER-32L0(208, 046, 210, 199, 057, 200, 227, 463), CONTRACT NO. 22D0644, DPW JOB
NO. P76793, P76510, P76715, P76576, P76807, P76514, P76574, P76575

To be constructed on property more particularly described as follows:

IN THE UNINCORPORATED AREA OF THE COUNTY OF SANTA CRUZ, ALONG
ICE CREAM GRADE ROAD AT POST MILES 1.36, 1.55, 1.60
AND ALONG SMITH GRADE ROAD AT POST MILES 0.43, 0.52, 1.38, 1.90, 2.83

The work of improvement was completed by Graniterock Company, whose address is 5225 Hellyer Ave. Suite 220, San Jose, CA 95138.

The work of improvement was completed on the 19th day of December 2024, and accepted by the Board of Supervisors of said County on the 8th day of April 2025.

DATED: April 8, 2025

Matt Machado
Deputy CAO, Director of Community
Development & Infrastructure
County of Santa Cruz

The undersigned states: That he is the Director of Community Development & Infrastructure of the County of Santa Cruz, owner of the property referred to in this Notice of Completion; that the Board of Supervisors of said County on the 8th day of April 2025, accepted said work of improvement and directed the filing of the Notice of Completion; that he has read the Notice of Completion and knows the contents thereof; and that the facts stated therein are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed by me this 8th day of April 2025, at Santa Cruz, California.

Matt Machado
Deputy CAO, Director of Community
Development & Infrastructure
County of Santa Cruz

COUNTY OF SANTA CRUZ
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

**SUMMARY OF FINAL COSTS FOR
ICE CREAM GRADE ROAD PMs 1.36, 1.55, 1.60 SMITH GRADE ROAD PMs 0.43, 0.52, 1.38, 1.90, 2.83**

STORM DAMAGE REPAIR PROJECTS

Contract No.: 22D0644

Public Works No.: P76576, P76807, P76514, P76574, P76575, P76793, P76510, P76715

Contract Amount: \$1,297,907.08

Contractor: Graniterock Construction

Item No	Item Description	Unit of Measure	Original Quantity	Unit Price	Bid Item Total	Total Quantity to Date	Total Payment to Date	Difference of Payment
SMITH GRADE ROAD PM 0.43 [P76576]								
1	LEAD COMPLIANCE PLAN	LS	1.0	\$333.00	\$333.00	1.00	\$ 333.00	\$ -
2	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
3	TRAFFIC CONTROL SYSTEM	LS	1.0	\$18,000.00	\$18,000.00	1.00	\$ 18,000.00	\$ -
4	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
5	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZ WASTE)	LF	490.0	\$3.00	\$1,470.00	0.00	\$ -	\$ (1,470.00)
6	TEMPORARY HIGH-VIS FENCE	LF	255.0	\$5.00	\$1,275.00	250.00	\$ 1,250.00	\$ (25.00)
7	REMOVE TREE	EA	1.0	\$7,500.00	\$7,500.00	0.00	\$ -	\$ (7,500.00)
8	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
9	ROADWAY EXCAVATION [F]	CY	236.0	\$90.00	\$21,240.00	236.00	\$ 21,240.00	\$ -
10	SUBGRADE ENHANCEMENT GEOGRID	SQYD	944.0	\$10.00	\$9,440.00	944.00	\$ 9,440.00	\$ -
11	ROLLED EROSION CONTROL PRODUCT (JUTE MESH) [F]	SQFT	420.0	\$2.31	\$970.20	420.00	\$ 970.20	\$ -
12	HYDROSEED [F]	SQFT	420.0	\$0.46	\$193.20	420.00	\$ 193.20	\$ -
13	CLASS 2 AGGREGATE BASE (CY)	CY	119.0	\$200.00	\$23,800.00	119.00	\$ 23,800.00	\$ -
14	HOT MIX ASPHALT (TYPE A)	TON	85.0	\$260.00	\$22,100.00	86.86	\$ 22,583.60	\$ 483.60
15	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	128.0	\$20.00	\$2,560.00	120.00	\$ 2,400.00	\$ (160.00)
16	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	120.0	\$20.00	\$2,400.00	120.00	\$ 2,400.00	\$ -
17	6" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	163.0	\$100.00	\$16,300.00	124.00	\$ 12,400.00	\$ (3,900.00)
18	6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	LF	39.0	\$175.00	\$6,825.00	31.00	\$ 5,425.00	\$ (1,400.00)
19	FLUME DOWNDRAIN	LF	8.0	\$350.00	\$2,800.00	8.00	\$ 2,800.00	\$ -
20	18" TAPERED INLET	EA	3.0	\$2,000.00	\$6,000.00	3.00	\$ 6,000.00	\$ -
21	ROCK SLOPE PROTECTION (150lb Class 3, Meth B) [F]	CY	3.0	\$285.00	\$855.00	3.00	\$ 855.00	\$ -
22	ROCK SLOPE PROTECTION FABRIC (CLASS B)	SQYD	8.0	\$4.00	\$32.00	8.00	\$ 32.00	\$ -
23	6" THERMOPLASTIC TRAFFIC STRIPE	LF	490.0	\$6.00	\$2,940.00	400.00	\$ 2,400.00	\$ (540.00)
24	MOBILIZATION	LS	1.0	\$9,000.00	\$9,000.00	1.00	\$ 9,000.00	\$ -
CCO	CCO Description	Unit						
1	Dispose of Contaminated Soil	TON		\$61.83		247.830	\$ 15,323.33	\$ 15,323.33
2	Delays	LS		\$463.48		1	\$ 463.48	\$ 463.48
SMITH GRADE ROAD PM 0.52 [P76807]								
1	LEAD COMPLIANCE PLAN	LS	1.0	\$333.00	\$333.00	1.00	\$ 333.00	\$ -
2	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
3	TRAFFIC CONTROL SYSTEM	LS	1.0	\$18,000.00	\$18,000.00	1.00	\$ 18,000.00	\$ -
4	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
5	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZ WASTE)	LF	358.0	\$3.00	\$1,074.00	0.00	\$ -	\$ (1,074.00)
6	TEMPORARY HIGH-VIS FENCE	LF	194.0	\$5.00	\$970.00	200.00	\$ 1,000.00	\$ 30.00
7	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
8	ROADWAY EXCAVATION [F]	CY	158.0	\$90.00	\$14,220.00	158.00	\$ 14,220.00	\$ -
9	SUBGRADE ENHANCEMENT GEOGRID	SQYD	630.0	\$10.00	\$6,300.00	630.00	\$ 6,300.00	\$ -
10	ROLLED EROSION CONTROL PRODUCT (JUTE MESH) [F]	SQFT	711.0	\$2.31	\$1,642.41	711.00	\$ 1,642.41	\$ -
11	HYDROSEED [F]	SQFT	711.0	\$0.46	\$327.06	711.00	\$ 327.06	\$ -
12	CLASS 2 AGGREGATE BASE (CY)	CY	80.0	\$200.00	\$16,000.00	80.00	\$ 16,000.00	\$ -
13	HOT MIX ASPHALT (TYPE A)	TON	61.0	\$260.00	\$15,860.00	64.15	\$ 16,679.00	\$ 819.00
14	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	64.0	\$20.00	\$1,280.00	56.00	\$ 1,120.00	\$ (160.00)
15	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	126.0	\$20.00	\$2,520.00	126.00	\$ 2,520.00	\$ -
16	6" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	89.0	\$100.00	\$8,900.00	71.00	\$ 7,100.00	\$ (1,800.00)
17	6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	LF	43.0	\$175.00	\$7,525.00	35.00	\$ 6,125.00	\$ (1,400.00)
18	FLUME DOWNDRAIN	LF	8.0	\$350.00	\$2,800.00	8.00	\$ 2,800.00	\$ -
19	18" TAPERED INLET	EA	3.0	\$2,000.00	\$6,000.00	3.00	\$ 6,000.00	\$ -
20	ROCK SLOPE PROTECTION (150lb Class 3, Meth B) [F]	CY	3.0	\$285.00	\$855.00	3.00	\$ 855.00	\$ -
21	ROCK SLOPE PROTECTION (CLASS 8)	SQYD	8.0	\$4.00	\$32.00	8.00	\$ 32.00	\$ -

22	RESET ROADSIDE SIGN	EA	1.0	\$250.00	\$250.00	0.00	\$ -	\$ (250.00)
23	6" THERMOPLASTIC TRAFFIC STRIPE	LF	358.0	\$6.00	\$2,148.00	404.00	\$ 2,424.00	\$ 276.00
24	MOBILIZATION	LS	1.0	\$9,000.00	\$9,000.00	1.00	\$ 9,000.00	\$ -
CCO	CCO Description	Unit						
1	Dispose of Contaminated Soil	TON		\$61.83		165.86	\$ 10,255.12	\$ 10,255.12
2	Delays	LS		\$463.48		1.00	\$ 463.48	\$ 463.48
3	Stitch Pile Wall	LS		\$700,769.00			LS	\$ 603,997.09
SMITH GRADE ROAD PM 1.38 [P76514]								
1	TRAFFIC CONTROL SYSTEM	LS	1.0	\$15,000.00	\$15,000.00	1.00	\$ 15,000.00	\$ -
2	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
3	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
4	TEMPORARY REINFORCED SILT FENCE	LF	80.0	\$5.00	\$400.00	80.00	\$ 400.00	\$ -
5	CLEARING AND GRUBBING (LS)	LS	1.0	\$1,200.00	\$1,200.00	1.00	\$ 1,200.00	\$ -
6	ROCK SLOPE PROTECTION (1/2 T, Class 7, Met A)	CY	120.0	\$450.00	\$54,000.00	120.00	\$ 54,000.00	\$ -
7	ROCK SLOPE PROTECTION FABRIC (CLASS B)	SQYD	78.0	\$4.00	\$312.00	78.00	\$ 312.00	\$ -
8	STRUCTURE BACKFILL [F]	CY	20.0	\$400.00	\$8,000.00	20.00	\$ 8,000.00	\$ -
9	FIBER ROLL	LF	50.0	\$25.50	\$1,275.00	50.00	\$ 1,275.00	\$ -
10	HYDROSEED	SQFT	500.0	\$0.46	\$230.00	500.00	\$ 230.00	\$ -
11	CLASS 2 AGGREGATE BASE (CY)	CY	5.0	\$220.00	\$1,100.00	5.00	\$ 1,100.00	\$ -
12	HOT MIX ASPHALT (TYPE A)	TON	4.0	\$260.00	\$1,040.00	5.29	\$ 1,375.40	\$ 335.40
13	MOBILIZATION	LS	1.0	\$6,000.00	\$6,000.00	1.00	\$ 6,000.00	\$ -
CCO	CCO Description	Unit						
2	Delays	LS		\$463.48		1.00	\$ 463.48	\$ 463.48
SMITH GRADE ROAD PM 1.90 [P76574]								
1	TRAFFIC CONTROL SYSTEM	LS	1.0	\$4,500.00	\$4,500.00	1.00	\$ 4,500.00	\$ -
2	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
3	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
4	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
5	ROADWAY EXCAVATION	CY	45.0	\$225.00	\$10,125.00	45.00	\$ 10,125.00	\$ -
6	CLASS 2 AGGREGATE BASE (CY)	CY	27.0	\$400.00	\$10,800.00	33.00	\$ 13,200.00	\$ 2,400.00
7	HOT MIX ASPHALT (TYPE A)	TON	18.0	\$260.00	\$4,680.00	19.29	\$ 5,015.40	\$ 335.40
8	MOBILIZATION	LS	1.0	\$3,000.00	\$3,000.00	1.00	\$ 3,000.00	\$ -
CCO	CCO Description	Unit						
1	Dispose of Contaminated Soil	TON		\$61.83		47.25	\$ 2,921.47	\$ 2,921.47
2	Delays	LS		\$463.48		1.00	\$ 463.48	\$ 463.48
SMITH GRADE ROAD PM 2.83 [P76575]								
1	TRAFFIC CONTROL SYSTEM	LS	1.0	\$13,000.00	\$13,000.00	1.00	\$ 13,000.00	\$ -
2	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
3	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
4	CLEARING AND GRUBBING (LS)	LS	1.0	\$11,500.00	\$11,500.00	1.00	\$ 11,500.00	\$ -
5	24" PLASTIC PIPE [F]	LF	30.0	\$750.00	\$22,500.00	30.00	\$ 22,500.00	\$ -
6	NOT USED	0	0.0	\$0.00	\$0.00	0.00	\$ -	\$ -
7	STRUCTUREAL CONCRETE, HEADWALL [F]	CY	5.3	\$3,000.00	\$15,900.00	5.30	\$ 15,900.00	\$ -
8	BAR REINFORCING STEEL (RET WALL) [F]	LB	312.5	\$5.00	\$1,562.50	312.50	\$ 1,562.50	\$ -
9	ROCK SLOPE PROTECTION (1/4 T, Class 7, Met A) (TON)	CY	6.0	\$650.00	\$3,900.00	6.00	\$ 3,900.00	\$ -
10	FLUME DOWNDRAIN	LF	12.0	\$350.00	\$4,200.00	12.00	\$ 4,200.00	\$ -
11	CLASS 2 AGGREGATE BASE (CY)	CY	20.0	\$700.00	\$14,000.00	20.00	\$ 14,000.00	\$ -
12	HOT MIX ASPHALT (TYPE A)	TON	14.0	\$260.00	\$3,640.00	15.29	\$ 3,975.40	\$ 335.40
13	6" THERMOPLASTIC TRAFFIC STRIPE	LF	74.0	\$6.00	\$444.00	86.00	\$ 516.00	\$ 72.00
14	MOBILIZATION	LS	1.0	\$8,000.00	\$8,000.00	1.00	\$ 8,000.00	\$ -
CCO	CCO Description	Unit						
2	Delays			\$463.48		1.00	\$ 463.48	\$ 463.48
ICE CREAM GRADE ROAD PM 1.36 [P76793]								
1	LEAD COMPLIANCE PLAN	LS	1.0	\$333.00	\$333.00	1.00	\$ 333.00	\$ -
2	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
3	TRAFFIC CONTROL SYSTEM	LS	1.0	\$26,000.00	\$26,000.00	1.00	\$ 26,000.00	\$ -
4	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
5	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZ WASTE)	LF	244.0	\$3.00	\$732.00	0.00	\$ -	\$ (732.00)
6	TEMPORARY HIGH-VIS FENCE	LF	269.0	\$5.00	\$1,345.00	300.00	\$ 1,500.00	\$ 155.00
7	REMOVE TREE	LS	1.0	\$5,000.00	\$5,000.00	0.00	\$ -	\$ (5,000.00)
8	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
9	ROADWAY EXCAVATION [F]	CY	297.0	\$140.00	\$41,580.00	297.00	\$ 41,580.00	\$ -
10	SUBGRADE ENHANCEMENT GEOGRID	SQYD	1,059.0	\$10.00	\$10,590.00	1059.00	\$ 10,590.00	\$ -

11	ROLLED EROSION CONTROL PRODUCT (JUTE MESH) [F]	SQFT	2,228.0	\$2.31	\$5,146.68	2228.00	\$ 5,146.68	\$ -
12	HYDROSEED [F]	SQFT	2,228.0	\$0.46	\$1,024.88	2228.00	\$ 1,024.88	\$ -
13	CLASS 2 AGGREGATE BASE (CY)	CY	260.0	\$200.00	\$52,000.00	260.00	\$ 52,000.00	\$ -
14	HOT MIX ASPHALT (TYPE A)	TON	83.0	\$215.00	\$17,845.00	98.56	\$ 21,190.40	\$ 3,345.40
15	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	122.0	\$20.00	\$2,440.00	114.00	\$ 2,280.00	\$ (160.00)
16	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	14.0	\$100.00	\$1,400.00	14.00	\$ 1,400.00	\$ -
17	12" PLASTIC PIPE	LF	14.0	\$500.00	\$7,000.00	14.00	\$ 7,000.00	\$ -
18	6" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	140.0	\$115.00	\$16,100.00	110.00	\$ 12,650.00	\$ (3,450.00)
19	6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	LF	33.0	\$230.00	\$7,590.00	28.00	\$ 6,440.00	\$ (1,150.00)
20	TAPERED INLET	EA	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
21	ROCK SLOPE PROTECTION (60lb, Class 2, Met B) (CY) [F]	CY	2.0	\$285.00	\$570.00	2.00	\$ 570.00	\$ -
22	ROCK SLOPE PROTECTION FABRIC (CLASS B)	SQYD	9.0	\$4.00	\$36.00	9.00	\$ 36.00	\$ -
23	6" THERMOPLASTIC TRAFFIC STRIPE	LF	244.0	\$6.00	\$1,464.00	526.00	\$ 3,156.00	\$ 1,692.00
24	MOBILIZATION	LS	1.0	\$15,000.00	\$15,000.00	1.00	\$ 15,000.00	\$ -
CCO	CCO Description	Unit						
1	Dispose of Contaminated Soil	TON		\$61.83		311.89	\$ 19,284.16	\$ 19,284.16
2	Delays			\$463.48		1	\$ 463.48	\$ 463.48
ICE CREAM GRADE ROAD PM 1.55 [P76510]								
1	LEAD COMPLIANCE PLAN	LS	1.0	\$333.00	\$333.00	1.00	\$ 333.00	\$ -
2	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
3	TRAFFIC CONTROL SYSTEM	LS	1.0	\$29,000.00	\$29,000.00	1.00	\$ 29,000.00	\$ -
4	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
5	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZ WASTE)	LF	291.0	\$3.00	\$873.00	0.00	\$ -	\$ (873.00)
6	TEMPORARY HIGH-VIS FENCE	LF	318.0	\$5.00	\$1,590.00	300.00	\$ 1,500.00	\$ (90.00)
7	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
8	ROADWAY EXCAVATION [F]	CY	393.0	\$140.00	\$55,020.00	393.00	\$ 55,020.00	\$ -
9	SUBGRADE ENHANCEMENT GEOGRID	SQYD	1,302.0	\$10.00	\$13,020.00	1302.00	\$ 13,020.00	\$ -
10	ROLLED EROSION CONTROL PRODUCT (JUTE MESH) [F]	SQFT	2,513.0	\$2.31	\$5,805.03	2513.00	\$ 5,805.03	\$ -
11	HYDROSEED [F]	SQFT	2,513.0	\$0.46	\$1,155.98	2513.00	\$ 1,155.98	\$ -
12	CLASS 2 AGGREGATE BASE (CY)	CY	344.0	\$200.00	\$68,800.00	308.91	\$ 61,782.00	\$ (7,018.00)
13	HOT MIX ASPHALT (TYPE A)	TON	100.0	\$215.00	\$21,500.00	112.19	\$ 24,120.85	\$ 2,620.85
14	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	190.0	\$20.00	\$3,800.00	182.00	\$ 3,640.00	\$ (160.00)
15	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	8.0	\$100.00	\$800.00	8.00	\$ 800.00	\$ -
16	12" PLASTIC PIPE	LF	6.0	\$500.00	\$3,000.00	6.00	\$ 3,000.00	\$ -
17	6" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	251.0	\$115.00	\$28,865.00	186.00	\$ 21,390.00	\$ (7,475.00)
18	6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	LF	60.0	\$230.00	\$13,800.00	62.00	\$ 14,260.00	\$ 460.00
19	TAPERED INLET	EA	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
20	ROCK SLOPE PROTECTION (60lb, Class 2, Met B) (CY) [F]	CY	2.0	\$285.00	\$570.00	2.00	\$ 570.00	\$ -
21	ROCK SLOPE PROTECTION FABRIC (CLASS B)	SQYD	11.0	\$4.00	\$44.00	11.00	\$ 44.00	\$ -
22	6" THERMOPLASTIC TRAFFIC STRIPE	LF	291.0	\$6.00	\$1,746.00	580.00	\$ 3,480.00	\$ 1,734.00
23	MOBILIZATION	LS	1.0	\$15,000.00	\$15,000.00	1.00	\$ 15,000.00	\$ -
CCO	CCO Description	Unit						
1	Dispose of Contaminated Soil	TON		\$61.83		412.75	\$ 25,520.33	\$ 25,520.33
2	Delays	LS		\$463.48		1.00	\$ 463.48	\$ 463.48
ICE CREAM GRADE ROAD PM 1.60 [P76715]								
1	LEAD COMPLIANCE PLAN	LS	1.0	\$333.00	\$333.00	1.00	\$ 333.00	\$ -
2	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1.0	\$1,800.00	\$1,800.00	1.00	\$ 1,800.00	\$ -
3	TRAFFIC CONTROL SYSTEM	LS	1.0	\$29,000.00	\$29,000.00	1.00	\$ 29,000.00	\$ -
4	JOB SITE MANAGEMENT	LS	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
5	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZ WASTE)	LF	278.0	\$3.00	\$834.00	0.00	\$ -	\$ (834.00)
6	TEMPORARY HIGH-VIS FENCE	LF	287.0	\$5.00	\$1,435.00	300.00	\$ 1,500.00	\$ 65.00
7	REMOVE TREE	LS	2.0	\$5,000.00	\$10,000.00	0.00	\$ -	\$ (10,000.00)
8	CLEARING AND GRUBBING (LS)	LS	1.0	\$4,000.00	\$4,000.00	1.00	\$ 4,000.00	\$ -
9	ROADWAY EXCAVATION [F]	CY	381.0	\$155.00	\$59,055.00	381.00	\$ 59,055.00	\$ -
10	SUBGRADE ENHANCEMENT GEOGRID	SQYD	1,223.0	\$10.00	\$12,230.00	1223.00	\$ 12,230.00	\$ -
11	ROLLED EROSION CONTROL PRODUCT (JUTE MESH) [F]	SQFT	1,182.0	\$2.31	\$2,730.42	1182.00	\$ 2,730.42	\$ -
12	HYDROSEED [F]	SQFT	1,182.0	\$0.46	\$543.72	1182.00	\$ 543.72	\$ -
13	CLASS 2 AGGREGATE BASE (CY)	CY	333.0	\$200.00	\$66,600.00	333.00	\$ 66,600.00	\$ -
14	HOT MIX ASPHALT (TYPE A)	TON	96.0	\$215.00	\$20,640.00	116.86	\$ 25,124.90	\$ 4,484.90
15	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	149.0	\$20.00	\$2,980.00	138.00	\$ 2,760.00	\$ (220.00)
16	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	7.0	\$100.00	\$700.00	7.00	\$ 700.00	\$ -
17	12" PLASTIC PIPE	LF	11.0	\$500.00	\$5,500.00	11.00	\$ 5,500.00	\$ -

18	6" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	221.0	\$115.00	\$25,415.00	221.00	\$ 25,415.00	\$ -
19	6" NON-PERFORATED PLASTIC PIPE UNDERDRAIN	LF	28.0	\$230.00	\$6,440.00	28.00	\$ 6,440.00	\$ -
20	TAPERED INLET	EA	1.0	\$2,500.00	\$2,500.00	1.00	\$ 2,500.00	\$ -
21	ROCK SLOPE PROTECTION (60lb, Class 2, Met B) (CY) [F]	CY	2.0	\$285.00	\$570.00	2.00	\$ 570.00	\$ -
22	ROCK SLOPE PROTECTION FABRIC (CLASS B)	SQYD	9.0	\$4.00	\$36.00	9.00	\$ 36.00	\$ -
23	6" THERMOPLASTIC TRAFFIC STRIPE	LF	278.0	\$6.00	\$1,668.00	580.00	\$ 3,480.00	\$ 1,812.00
24	MOBILIZATION	LS	1.0	\$15,000.00	\$15,000.00	1.00	\$ 15,000.00	\$ -
0	ICE CREAM GRADE PM 1.60 [P76715]	0	0.0	\$0.00	\$0.00	0.00	\$ -	\$ -
CCO	CCO Description	Unit			CCO Total			
1	Dispose of Contaminated Soil	TON		\$ 61.83		\$ 400.05	\$ 24,735.09	\$ 24,735.09
2	Delays	LS		\$ 463.48		\$ 1.00	\$ 463.48	\$ 463.48
2	Install overside drain and TC	LS		\$ 6,941.71		\$ 1.00	\$ 6,941.71	\$ 6,941.71
2	Install tapered inlet and TC	LS		\$ 4,578.52		\$ 1.00	\$ 4,578.52	\$ 4,578.52

SUMMARY	
Original Bid	\$1,297,907.08
Changes	\$681,879.61
Final Cost	\$1,979,786.69