



17575 Peak Avenue
Morgan Hill, CA 95037-4128
TEL: (408) 778-6480
FAX: (408) 779-7236
www.morganhill.ca.gov

Addendum No. 1

DATE: May 3, 2022
TO: ALL PLANHOLDERS OF THE 2022 PAVEMENT REHABILITATION PROJECT
FROM: YAT CHO – PROJECT ENGINEER
RE: CLARIFICATION

1. Replace Bid Schedule I with the attached Bid Schedule 1R.
2. Replace Plan Sheet 1 with the attached Plan Sheet 1 and Add Sheet 27 and 28 to the Project Plans and Specifications.
3. Replace Technical Specification Section 19 with Section 19R.

ADDENDUM ACKNOWLEDGMENT

Bidder acknowledges receipt of this addendum, which shall be attached to the proposal.

Contractor's Representative

Date

THIS DOCUMENT SHALL BECOME A PART OF THE PROJECT SPECIFICATIONS

BID SCHEDULE IR – GENERAL

2022 Pavement Rehabilitation Project

This Bid Schedule must be completed in ink and included with the sealed Bid Proposal. Pricing must be provided for each Bid Item as indicated. Items marked “(SW)” are Specialty Work that must be performed by a qualified Subcontractor. The lump sum or unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the “Extended Total Amount” column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal Form. Quantities shown are required for bid purposes and may or may not be final pay quantities. Actual quantities, if different, must be substantiated during the Project by the Contractor (either by field measurement, trucking tags, or other means acceptable to the Engineer).

AL = Allowance CF = Cubic Feet CY = Cubic Yard EA = Each LB =
 LF = Linear Foot LS = Lump Sum SF = Square TON = Ton (2000 lbs)

Bid Item No.	Description of Bid Item	Estimated Quantity/Unit of Measure	Unit Price	Extended Total Amount
1	Mobilization	LS		
2	Traffic Control Systems	LS		
3	Pavement Striping, Markings and Markers Removal	LS		
4	6' Wide Wedge Grind (2")	121,000 SF		
5	20' Wide Conform Grind (2")	15,000 SF		
6	2" Full Pavement Grind/Mill	208,000 SF		
7	2" Fill (1/2" Asphalt Concrete)	2,850 Tons		
8	3" Full Pavement Grind/Mill	67,500 SF		
9	3" Fill (1/2" Asphalt Concrete)	1,382 Tons		
10	4" Full Pavement Grind/Mill	119,100 SF		
11	4" Fill (1/2" Asphalt Concrete)	3,100 Tons		

12	2" Asphalt Concrete Overlay	6,800 Tons		
13	Slurry Seal	43,500 SY		
14	Cape Seal	14,500 SY		
15	Crack Sealing (Revokable)	100,000 LF		
16	4" Full Depth Asphalt Concrete Pavement Repair (Revokable)	40,000 SF		
17	Locate, Lower and Raise Manhole Frame and Cover	37 EA		
18	Locate, Lower and Raise Valve Box and Cover	37 EA		
19	Locate, Lower and Raise Monument Box and Cover	20 EA		
20	Locate and Raise Valve Box Cover	257 EA		
21	Locate and Raise Manhole Frame and Lid	86 EA		
22	Locate and Raise Monument Box and Cover	6 EA		
23	Type E Traffic Detector Loops	28 EA		
24	Type E (Modified) Traffic Detector Loops	9 EA		
25	6" Striping White Thermoplastic	439 LF		
26	12" Striping White Thermoplastic	1,720 LF		
27	12" Striping Yellow Thermoplastic	90 LF		

28	24" Striping White Thermoplastic	198 LF		
29	Caltrans Detail 1	108 LF		
30	Caltrans Detail 2	2,289 LF		
31	Caltrans Detail 9	1,873 LF		
32	Caltrans Detail 15	932 LF		
33	Caltrans Detail 21	529 LF		
34	Caltrans Detail 22	17,946 LF		
35	Caltrans Detail 27B	31,873 LF		
36	Caltrans Detail 29	3,936 LF		
37	Caltrans Detail 31	1637 LF		
38	Caltrans Detail 38	2015 LF		
39	Caltrans Detail 38A	872 LF		
40	Striping Detail 39	8,672 LF		
41	TYPE I (24) Arrow	2 EA		
42	TYPE IV (L) Arrow	31 EA		
43	TYPE IV (R) Arrow	9 EA		
44	TYPE VI Arrow	3 EA		
45	TYPE VII (R) Arrow	2 EA		
46	White Word Marking "STOP"	21 EA		
47	White Word Marking "KEEP"	3 EA		
48	White Word Marking "CLEAR"	3 EA		

49	White Word Marking "PED"	2 EA		
50	White Word Marking "XING"	2 EA		
51	Two-Way Blue Hydrant Reflectors	89 EA		
52	Supplemental Work	LS	\$100,000	\$100,000

Bid Schedule I Total	
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END OF BID SCHEDULE IR

TOTAL BASE BID: BID SCHEDULE IR - \$ _____

Note: The amount entered as the "Total Base Bid" should be identical to the Base Bid amount entered in Section 1 of the Bid Proposal form.

19.0R TRAFFIC STRIPES, PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS

a. Description: This work shall be done in accordance with Section 84 of the CSS, as modified by these Technical Provisions. Traffic stripes and pavement marking items shall include replacing all existing traffic stripes, words, and symbols, reflective and non- reflective pavement markers, and fire hydrant blue marker as required on the streets to be resurfaced. Included also is any necessary removal, temporary delineation, site survey of existing layout and traffic control. It may be necessary to phase the construction of the striping in the interest of public safety. This work includes creating as-builts of the existing striping layout and replacing said striping back to the original layout unless otherwise directed by the Engineer in writing.

The Contractor shall install striping, where possible, prior to opening the roadway to traffic and when indicated by the public's safety or convenience. If required, removal of existing striping shall be by wet sand blasting. All traffic stripes and pavement markings, new or existing, within or adjacent to the work limits, which become defaced or damaged during the Contractor's operations, shall be replaced by the Contractor at its expense concurrently with other traffic marking operations in the immediate area. The Engineer shall be the sole judge as to which stripes or legends are defaced or damaged. All new traffic striping shall include the reflective markers in conformance with the Caltrans Traffic Manual.

b. Materials: Materials shall be in conformance with CSS Section 84-2 "Traffic Stripes and Pavement Markings" and Section 81-3 "Pavement Markers". Thermoplastic material for traffic stripes shall be applied at a minimum thickness of 0.060 inch, except crosswalks shall be applied at a minimum thickness of 0.12 inch. All crosswalks and bike lane striping shall be non-skid. Thermoplastic material for pavement markings shall be applied at a thickness of .100-.150 inch. All streets are to receive thermoplastic stripes and pavement markings.

Templates or stencils for pavement markings shall be of "English unit" dimensions and shall be approved by the Engineer prior to application.

c. Method of Construction: Construction and installation shall be per Sections 81 and 84 of the CSS. Removal of existing facilities shall be per Sections 84-9.01 and 84-9.03 of the CSS.

Temporary "cat tracks" shall be placed for all striping (including limit lines) immediately after completing slurry sealing or asphalt concrete overlay of any street. Upon approval of the Contractor's cat tracking, all streets shall receive the first coat of permanent centerline, lane lines, stop limit lines, and crosswalks no sooner than seven (7) calendar days following the final resurfacing of the street. The Contractor shall maintain all temporary traffic striping, markings, and markers until the final striping, markings, and markers are installed and to the City's satisfaction.

At locations with traffic loop detector restoration, the Contractor shall schedule the work such that the traffic loop detector restoration will occur prior to the permanent striping, markings, and marker installation.

Pavement marker (blue marker) shall be per the requirements of the State Standard Plans.

d. Temporary Traffic Stripes and Pavement Markings: "Scrub seal Marker," as distributed by MV Plastics, Inc., 533 W. Collings Avenue, Orange, CA 714-532-1522, or approved equal, shall be used for temporary traffic stripes and shall be installed at 24' spacing, immediately after obliteration of any existing striping.

All other traffic control and safety markings such as crosswalks, arrows, lane tapers, etc. shall be marked using paint or reflective tape.

e. Layout: All layout and cat tracking shall be performed by and at the expense of the Contractor, and shall be approved by the Engineer prior to placement of the permanent striping, markings, and markers. Schedule

cat tracking with the City at least 48 hours in advance of the actual cat tracking work. Unless otherwise noted on the project plans and prior to obliteration of the existing striping for grinding and paving construction, the Contractor shall be responsible for documenting the existing roadway striping, markers, and markings configuration for restoration of the final striping treatment.

f. Traffic Stripes: Unless otherwise stated, all striping shall be hot liquid thermoplastic. All areas to receive traffic stripes shall be swept immediately prior to applying thermoplastic to remove all loose rock.

g. Pavement Markers: All markers shall be placed using hot melt bituminous adhesive exclusively. All non-reflective markers shall be the ceramic type.

h. Pavement Markings: Legends, crosswalks, and stop bars, shall be thermoplastic unless otherwise stated. When thermoplastic is applied for crosswalks or bike lane striping, the following composition shall be used with a maximum thickness of 0.12 inches (3.0 mm):

Binder	20%	(18% min)
Glass Beads	20%	(15% min)
TiO ₂ Pigment	10%	(7%min)
Filler	35%	(37% max)
Cullet	15 %	(10% min)

The crushed glass cullet in such mixture shall be produced from cullet of clear glass, with a maximum size of 850 micrometers (100% passing by weight) and a minimum size of 425 micrometers (0-5% passing by weight). The skid resistance shall be a minimum of 55 BPN.

i. Measurement and Payment: Measurement and payment for removal of existing striping, markings, and markers shall be included in the contract lump sum bid item for “Remove Pavement Markers, Striping, and Markings.” Refer to section 10.00, “Clearing and Grubbing” of these technical Provisions.

The quantity for pavement striping bid items shall be measured and paid by the actual number lineal feet as measured in the field. For striping requiring multiple lines, the composite section will count as a lineal foot of striping for payment, not the total length of the individual component lines. Pavement markers used in traffic striping shall not be measured and paid separately. The bid items for pavement striping are “6” Striping White **Thermoplastic**”, “12” Striping White **Thermoplastic** ”, “ **12” Striping Yellow Thermoplastic**”, “24” Striping White **Thermoplastic**”, “**Caltrans Detail 1**”, “Caltrans Detail 2”, “Caltrans Detail 9”, “Caltrans Detail 15”, “Caltrans Detail 21”, “Caltrans Detail 22”, “Caltrans Detail 27B”, “Caltrans Detail 29”, “Caltrans Detail 31”, “Caltrans Detail 38”, “Caltrans Detail 38A” and “Caltrans Detail 39”.

The quantity for “TYPE I (24) Arrow”, “TYPE IV (L) Arrow”, “TYPE IV (R) Arrow”, “TYPE VI Arrow”, “TYPE VI Arrow”, “TYPE VII (R) Arrow”, “WHITE WORD MARKING “STOP”, “WHITE WORD MARKING “KEEP”, “WHITE WORD MARKING “CLEAR”, WHITE WORD MARKING “PED” and WHITE WORD MARKING “XING”. shall be measured and paid per marking/legend installed, as specified in the bid schedule.

The quantity for the “Two-Way Blue Hydrant Reflectors” shall be measured and paid by each reflector installed.

The contract price paid for the bid items related to traffic stripes, pavement markings, and raised reflective markers as specified herein shall include full compensation for furnishing all labor, material, equipment,

tools, and incidentals to install the traffic stripes, pavement markings, and pavement markers, complete in place, including removal of existing pavement striping and markings, referencing existing striping and markings, layout and cat-tracking, and temporary pavement delineation, as shown on the plans, as specified herein and as directed by the Engineer.