

Pre-Bid Outreach Meeting
September 5, 2012, 1:00pm

Marin Sonoma Narrows
MSN Contract A3
HOV Lane Project

In the City of Novato
In and Near Marin County
0.2 Mile North of Atherton Avenue Overcrossing to 1.4 Mile South of
Redwood Landfill Overcrossing

Caltrans District 4



MSN A3

Meeting Agenda

Caltrans Small Business Program

George Crosby, Caltrans Business Management

MSN Corridor Overview

Betsy Joseph, Project Manager

MSN A3 Contract

Gordon Sweet, Design Engineer

Networking Session

For DBE and Small Business



Caltrans Small Business Program Goals

- Increase Small Business Certification
- Increase Contracting Opportunities
- Create relationship between Prime Contractors and Small Business
- Register Your Business today

-DGS Website

<http://www.pd.dgs.ca.gov/smbus/getcertified.htm>



Caltrans Executive Order S-11-0

“California Department of Transportation, will encourage, and whenever possible increase, small business participation, including Disadvantaged Business Enterprises (DBE), in federally assisted highway and transit-related projects”.

- **25%** Certified Small Business Enterprise (SBE) goal
- **13.5%** Disadvantaged Business Enterprises (DBE) goal
- **3%** Disadvantaged Veterans Business Enterprises (DVBE) goal



MSN A3 – Project Overview

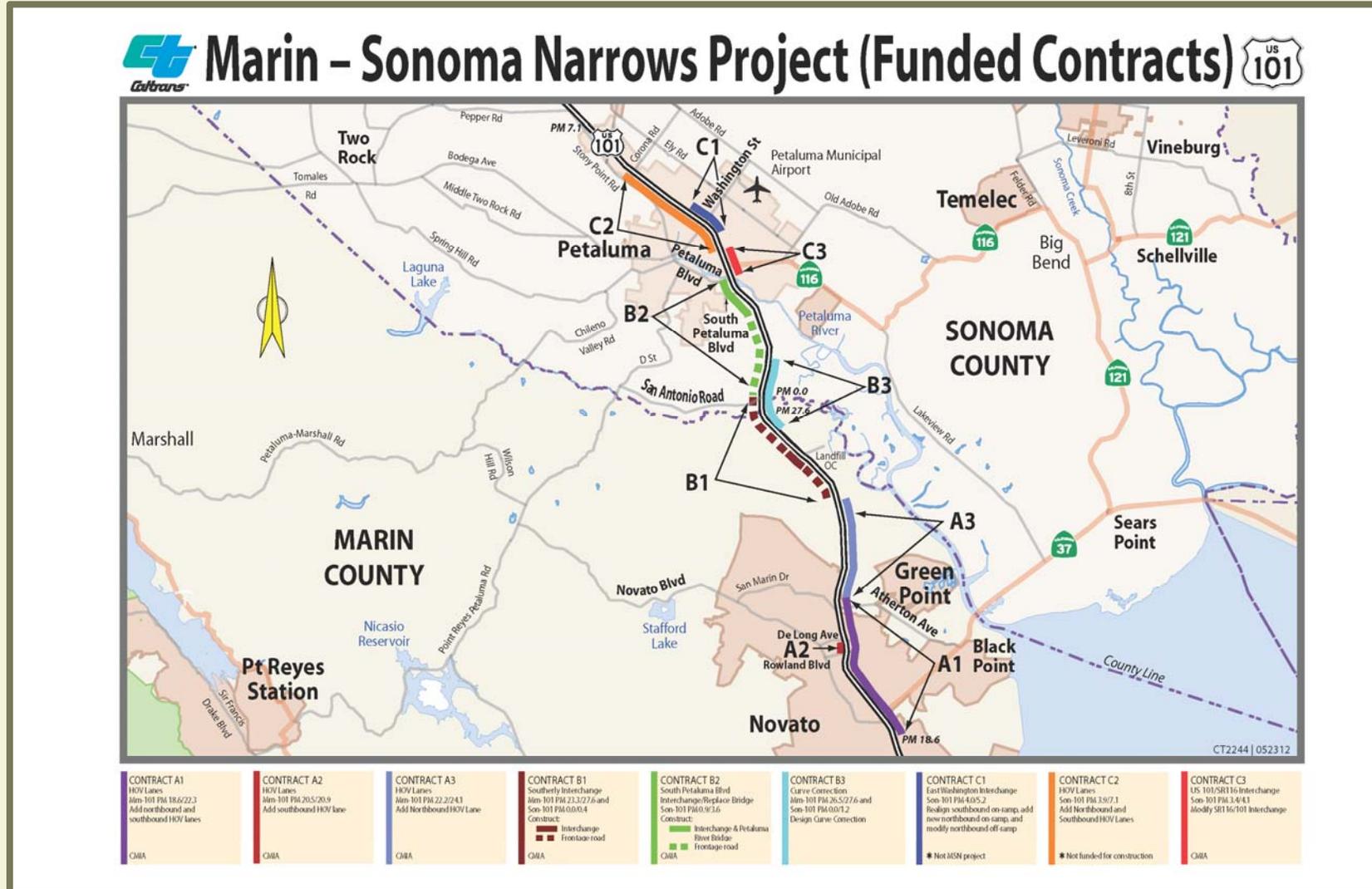


Project Segments

- **Segment C**
Route 116 to North of Corona Road
(4.2 miles)
- **Segment B**
North of Atherton to Route 116
(8.1 miles) – (Currently Expressway)
- **Segment A**
Route 37 to North of Atherton Ave.
(3.7 miles)



MSN A3 Project Overview



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Advertise and Bid Opening Schedule

■ Advertise Date

- July 30, 2012

■ Bid Opening Date

- October 3, 2012

■ Award

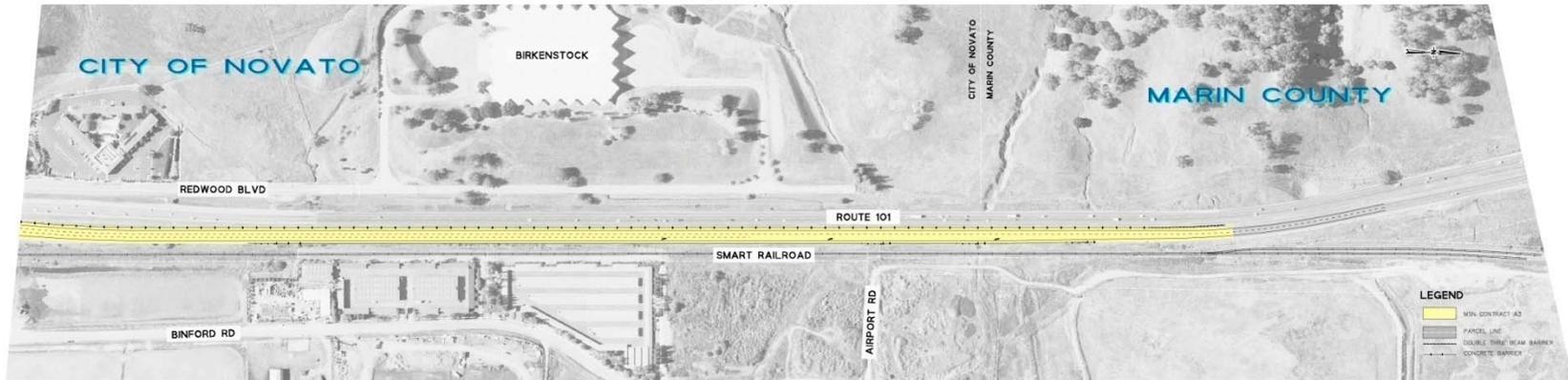
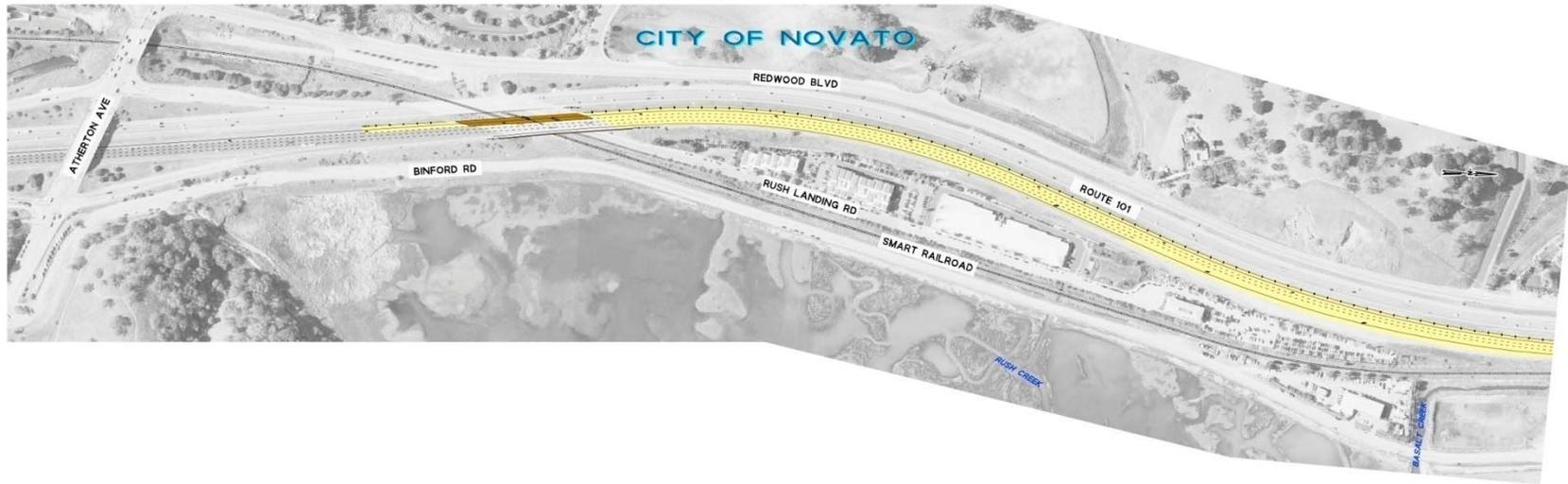
- Before December 3, 2012



MSN A3 Project Location



MSN A3 Project Overview



MSN A3

Project Overview – Benefits / Objectives

- Operational and Corridor Improvements
 - New HOV Lane – Extends MSN A1 HOV Lane 1.7 Miles to the North

- Improved Traffic Safety
 - Standard 10-Foot Inside and Outside Shoulders
 - Mainline Reprofile and Superelevation Modifications
 - Structural Modification (North Novato OH Bridge Widen and Seismic Retrofit)

- Facilitate Seamless Future Implementation of Phase 2
 - Holds Current Horizontal Alignment
 - Accommodates future Southbound HOV Lanes and Minimize Re-Work/Throwaway Costs



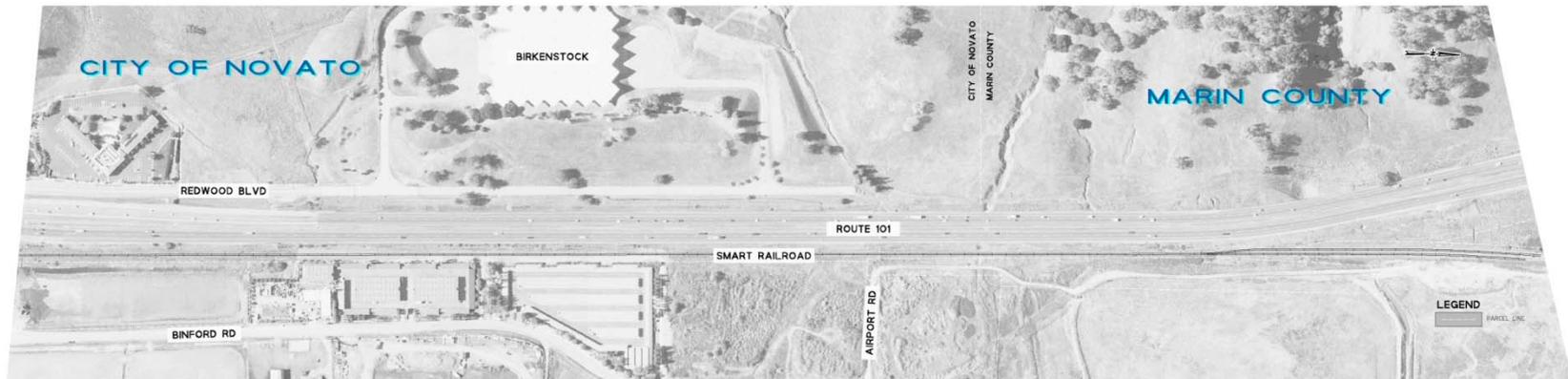
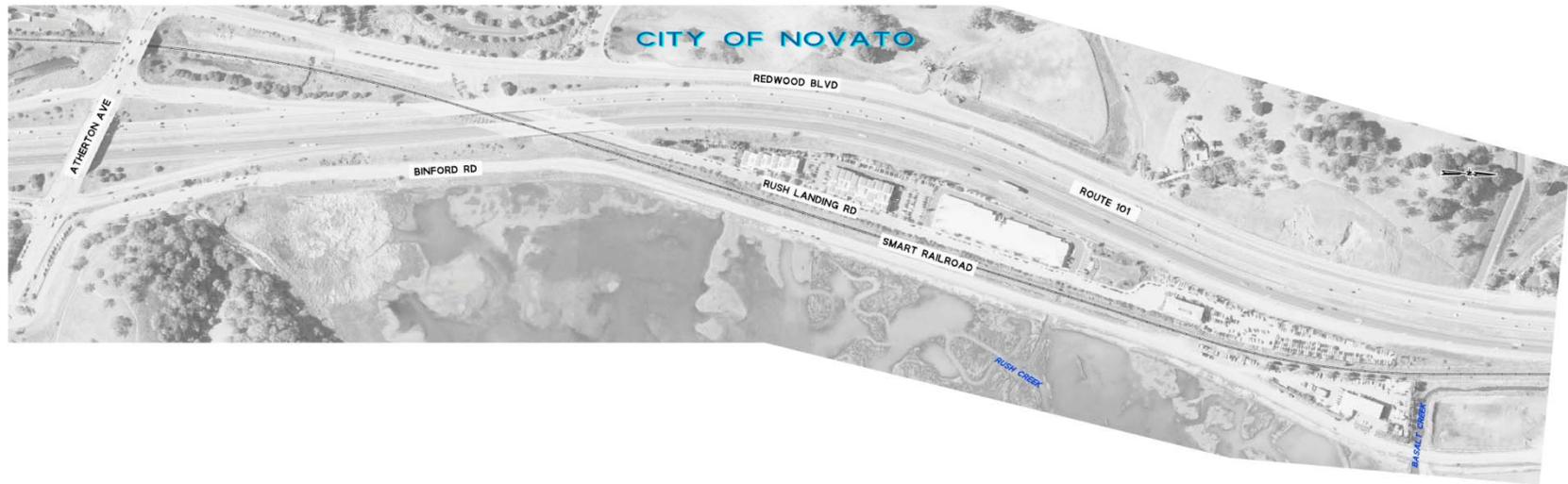
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Project Overview – Scope of Work/Major Work

- Inside and Outside Mainline Widening for Shoulder and HOV
- Concrete Barrier Improvements
- North Novato Overhead (Widen) - Bridge. No. 27-0094R
- Drainage and Storm Water Treatment Improvements
- Corridor Utility Relocation
 - None; PG&E and Verizon Utilities are Cleared during MSN B1



MSN A3 Existing Existing Conditions



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Existing Conditions

- ❖ PM R22.2 to 24.1 (1.7 Miles) – Construction Limits
- ❖ Rural, Divided, 4 and 6 Lane Expressway with 2-3 Lanes in NB/SB Direction
 - ❖ 12' Lanes
 - ❖ 5' Inside Shoulders
 - ❖ 8' Outside Shoulders
- ❖ Access-Controlled R/W with 3 Remaining “Access Control Breaks” along SMART Corridor
- ❖ North Novato Overhead (Bridge No. 27-0094R)
 - ❖ Constructed in 1975 as part of the Novato Bypass Project when US 101 was Realigned
 - ❖ Bridge Spanning over SMART Corridor and Rush Landing Road (Former Highway 101)
 - ❖ 2-Abutments and 3 Bent Structures
 - ❖ Highly-Skewed (68°) with 4-Spans Measuring a Total Length of around 445'
 - ❖ 52'-8" (Varies) Width Composed of 3-12' Lanes, 10' Outside Shoulder, and 5' Inside Shoulder)
 - ❖ 25'-4" Vertical Clearance Provided over SMART
 - ❖ Type 9M Barriers/Railings



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Existing Conditions

❖ Rush Landing Road

- ❖ 2-Lane Local Road Provides Connectivity to Businesses from Redwood Boulevard
- ❖ 2-13.5' Lanes, Sidewalk, and no bike path/stripping
- ❖ City Facility

❖ Drainage

- ❖ 14 Existing Cross Culverts
 - ❖ RCP, CMP, and RCB Boxes

❖ Utilities

- ❖ Water – NMWD – 2-30" Aqueduct Crossings and 3-12" Water Main Crossings
- ❖ Electrical - PG&E –
 - ❖ 4 Overhead Crossings (12 and 60kV and Telephone)
 - ❖ 18 Longitudinal OH Poles (To be relocated in MSN B1)
- ❖ Gas, Telephone, and CATV (Joint Trench) – PG&E, Comcast, and Verizon – 4 to 6 Conduits (2-inch)
- ❖ Sewer – Novato Sanitary District – 2-10" Lines
- ❖ Fiber Optic – QWEST– 2" Conduit



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Project Features and Components



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Project Features and Components

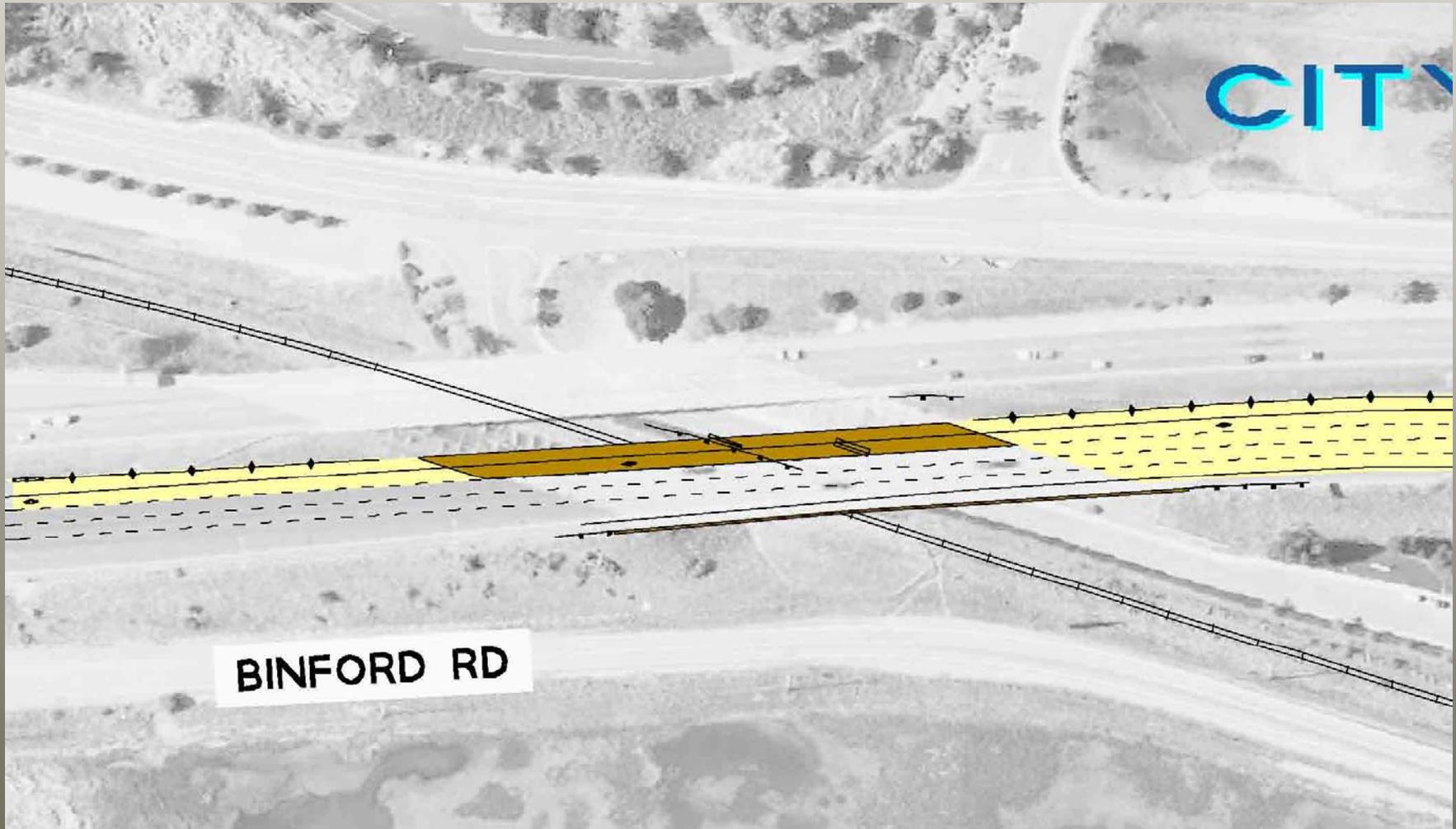
■ North Novato Overhead (Widen)

- 18'-4" Widen (Inside)
- 3 New Bent Structures (with 16"Ø Class 200, Alt "W" Piles)
- 2 New Abutment Structures (with 72"Ø CISS Piles)
- Seismic Retrofit, Including Constructing Grade-Beam (with 16"Ø Class 200, Alt "W" Piles)
- Cast in Place Box Girder
- Concrete Barrier (Type 732R) Replacement (Outside Shoulder)
- Concrete Barrier (Type 732) Placement (Inside Shoulder)
- Chain Link Railing (Type 7 Mod) on top of barrier over railroad
- Installation of Railroad Crash Wall(SMART)

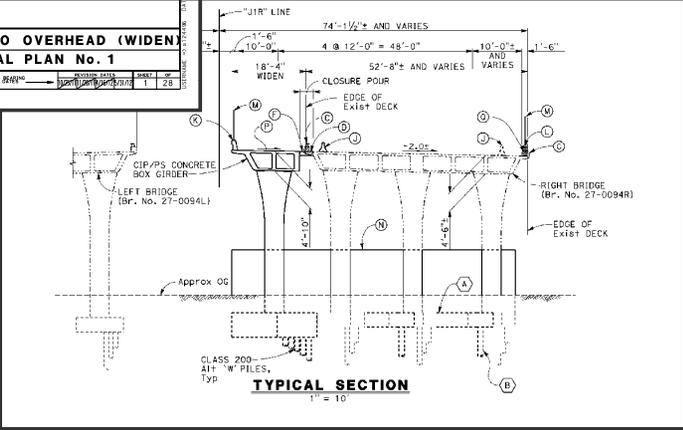
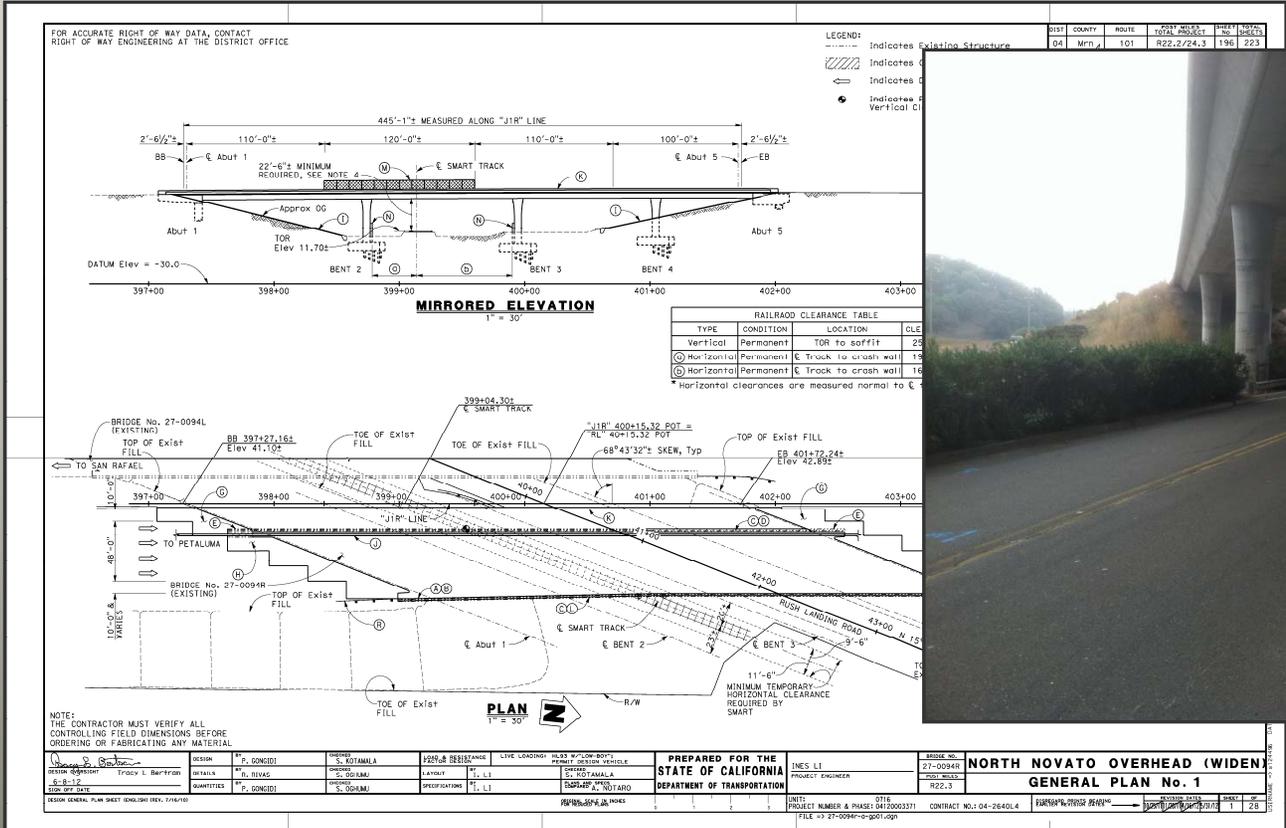


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North Novato Overhead (Widen)



North Novato Overhead (Widen)



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Project Features and Components

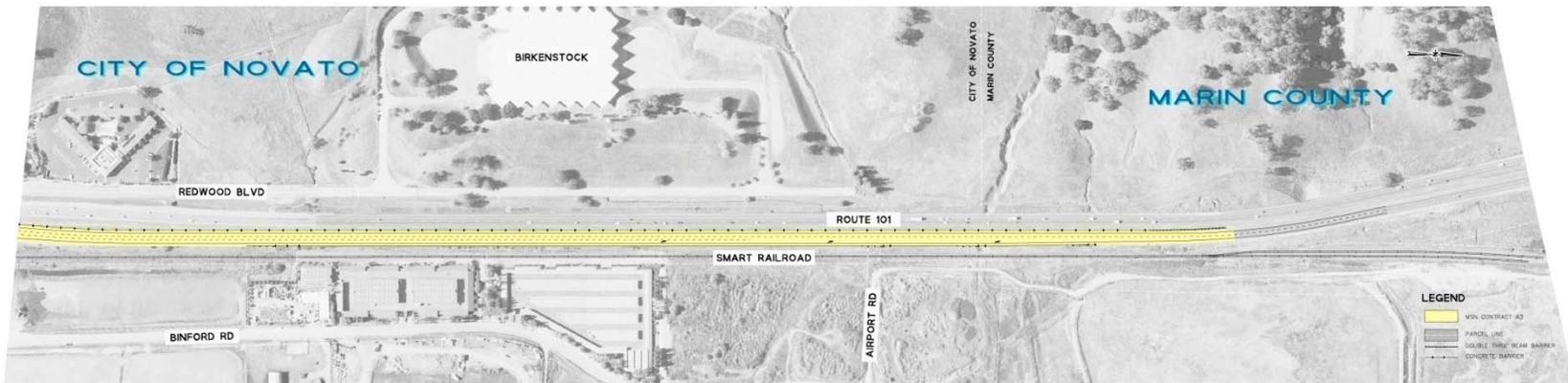
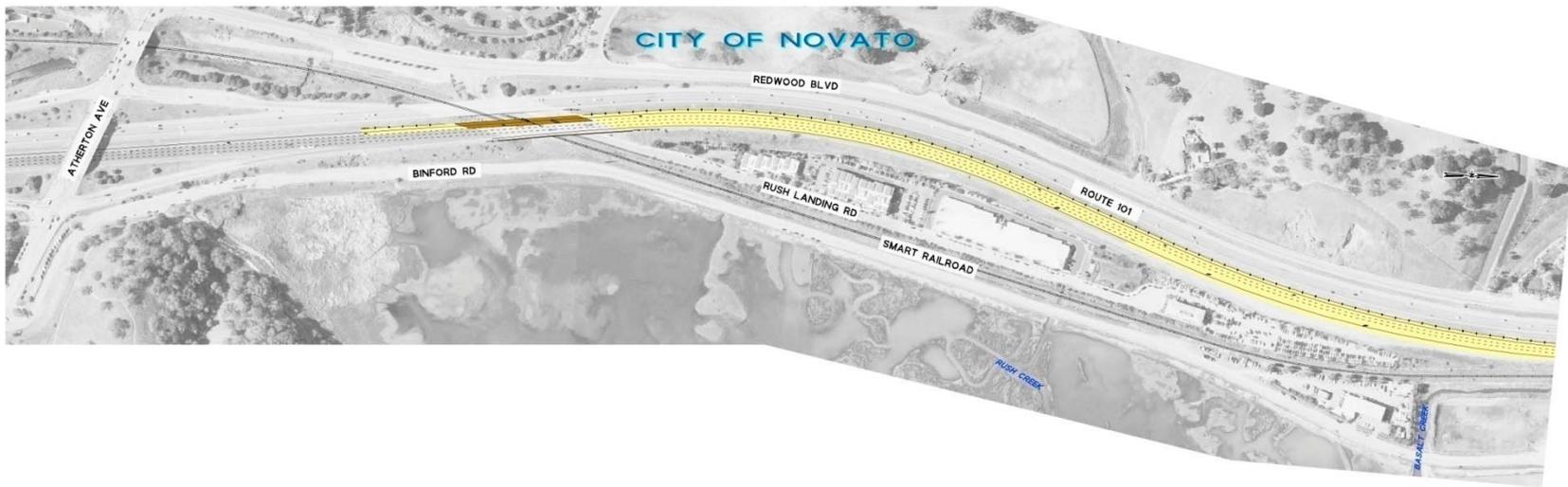
■ Mainline Improvements

- HOV Lane and 10' Outside and Inside Shoulder Widening/Replacement
 - TI=14 for All Widening, including Full Pavement Section of RHMA-G, LCB, AS (CI 4)
- Median Concrete Barrier (Type 60C) Installation
- Cross Section Correction
 - Standardize Crowned and Superelevated Areas with 0.15 to 0.95 HMA-A)
 - Digouts
- Profile Corrections to Achieve Minimum Longitudinal Profile of 0.3%
- AC Overlay Over Entire NB 101 Area
 - 0.10 HMA-O



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Project Features and Components



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Project Features and Components

■ Drainage and Storm Water Treatment Improvements

- Drainage Strategy
 - Maintain Existing Drainage Patterns, Including Existing Median Swales
 - Sheet Flow Off Freeway (Depending on Superelevation and Crown)
 - Intercept with New Drainage Systems (Shoulder Inlets) along Barrier and Shoulders (with Dike)
- Drainage Structures
 - 3 Culverts will be Upsized to 4'x2' RCBs beneath NB US 101
 - 40 Adjusted or New Drainage Inlets
 - 6 New Drainage Systems (Connecting to Existing Cross Culvert Systems)
- Storm Water Quality Strategy
 - Infiltration Strips (Where 15' Width is Available and Flat Grades)
 - Linear Bioretention Swales
 - Flat graded swales with Imported Biofiltration Soil and Underdrain System
 - RWQCB Approved



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Major Contract Items – Roadway Work

- Temporary Railing (Type K) – 33,700 LF
- Roadway Excavation – 23,900 CY
- Class 4 Aggregate Base – 11,900 CY
- Hot Mix Asphalt – 13,000 TON
- Hot Mix Asphalt (Open Graded) – 3,740 TON
- Rubberized HMA (Gap Graded) – 3,840 TON
- Concrete Barrier (Type 60C) – 8,120 LF



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Major Contract Items – Structure Work

- Structure Excavation (Type D) – 1,497 CY
- Furnish Piling (Class 200)(Alt W) – 5,275 LF
- Drive Piling (Class 200)(Alt W) – 79 EA
- Furnish Cast-in-Steel Shell Concrete Piling (NSP 72) – 341 LF
- Drive Cast-in-Steel Shell Concrete Piling (NSP 72) – 4 EA
- Structural Concrete, Bridge – 1,384 CY
- Bar Reinforcing Steel (Bridge) – 466,457 LB



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Potential Small Business Items of Work: 1/2

| Item No. | | Item Description | Unit of Measure | Estimated Quantity |
|----------|--------|---|-----------------|--------------------|
| 1 | 071321 | TEMPORARY FENCE (TYPE CL-6) | LF | 560.00 |
| 2 | 071325 | TEMPORARY FENCE (TYPE ESA) | LF | 1,330.00 |
| 3 | 073005 | 15" TEMPORARY CULVERT | LF | 50.00 |
| 4 | 074028 | TEMPORARY FIBER ROLL | LF | 26,100.00 |
| 5 | 074033 | TEMPORARY CONSTRUCTION ENTRANCE | EA | 13.00 |
| 6 | 074038 | TEMPORARY DRAINAGE INLET PROTECTION | EA | 54.00 |
| 7 | 074040 | TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX) | SQYD | 3,860.00 |
| 8 | 074041 | STREET SWEEPING | LS | LS |
| 9 | 074042 | TEMPORARY CONCRETE WASHOUT (PORTABLE) | LS | LS |
| 10 | 120090 | CONSTRUCTION AREA SIGNS | LS | LS |
| 11 | 120100 | TRAFFIC CONTROL SYSTEM | LS | LS |
| 12 | 130100 | JOB SITE MANAGEMENT | LS | LS |
| 13 | 150662 | REMOVE METAL BEAM GUARD RAILING | LF | 310.00 |
| 14 | 150714 | REMOVE THERMOPLASTIC TRAFFIC STRIPE | LF | 20,400.00 |
| 15 | 150715 | REMOVE THERMOPLASTIC PAVEMENT MARKING | SQFT | 260.00 |
| 16 | 150722 | REMOVE PAVEMENT MARKER | EA | 2,120.00 |
| 17 | 150742 | REMOVE ROADSIDE SIGN | EA | 10.00 |
| 18 | 150770 | REMOVE ASPHALT CONCRETE PAVEMENT (SQFT) | SQFT | 840.00 |



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Potential Small Business Items of Work: 2/2

| Item No. | | Item Description | Unit of Measure | Estimated Quantity |
|----------|--------|---|-----------------|--------------------|
| 19 | 160102 | CLEARING AND GRUBBING (LS) | LS | LS |
| 20 | 203021 | FIBER ROLLS | LF | 12,700.00 |
| 21 | 203026 | MOVE-IN/MOVE-OUT (EROSION CONTROL) | EA | 5.00 |
| 22 | 203034 | ROLLED EROSION CONTROL PRODUCT (NETTING) | SQFT | 45,800.00 |
| 23 | 280000 | LEAN CONCRETE BASE | CY | 6,410.00 |
| 24 | 394074 | PLACE HOT MIX ASPHALT DIKE (TYPE C) | LF | 260.00 |
| 25 | 394076 | PLACE HOT MIX ASPHALT DIKE (TYPE E) | LF | 2,480.00 |
| 26 | 394077 | PLACE HOT MIX ASPHALT DIKE (TYPE F) | LF | 250.00 |
| 27 | 510090 | STRUCTURAL CONCRETE, BOX CULVERT | CY | 21.00 |
| 28 | 832001 | METAL BEAM GUARD RAILING | LF | 320.00 |
| 29 | 839581 | END ANCHOR ASSEMBLY (TYPE SFT) | EA | 2.00 |
| 30 | 839584 | ALTERNATIVE IN-LINE TERMINAL SYSTEM | EA | 4.00 |
| 31 | 839585 | ALTERNATIVE FLARED TERMINAL SYSTEM | EA | 2.00 |
| 32 | 840504 | 4" THERMOPLASTIC TRAFFIC STRIPE | LF | 19,800.00 |
| 33 | 840515 | THERMOPLASTIC PAVEMENT MARKING | SQFT | 330.00 |
| 34 | 840526 | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7) | LF | 22,500.00 |
| 35 | 850101 | PAVEMENT MARKER (NON-REFLECTIVE) | EA | 1,860.00 |
| 36 | 850111 | PAVEMENT MARKER (RETROREFLECTIVE) | EA | 700.00 |



MSN A3 Compliance with Permits

US Army Corps of Engineers – 404 Nationwide Permit

Regional Water Quality Control Board - Section 401 Clean Water Act Permit

SMART – Sonoma Marin Area Rail Transit



MSN A3

- Bidder Inquiries

- -Fill out Bidder Inquiry form

- -Office Engineer Website



<http://www.dot.ca.gov/hq/esc/oe/inquiry>

- Networking Session

- For DBE's and Small Business



Networking

