# Napa County Public Works

## Annual Guardrail Repair, RDS 22-06

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<th>Site #</th>
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<th>Description / Address</th>
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**Note:** The proposed length of MGS does not include end treatments.
NAPA COUNTY PUBLIC WORKS
ANNUAL GUARDRAIL REPAIR, RDS 22-06

PROJECT GENERAL NOTES:

1. THE CONTRACTOR SHALL BE IN RECEIPT OF APPROVED PLANS AND PERMITS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE AREA PRIOR TO THE BEGINNING OF WORK.
3. THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSIFIED) LICENSE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST ABATEMENT DURING CONSTRUCTION OPERATIONS. A WATER TRUCK OR OTHER WATERING DEVICE SHALL BE ON THE CONSTRUCTION SITE, AT THE END OF EACH DAY AND AT ALL OTHER INTERVALS AS NECESSARY TO CONTROL DUST, PURSUANT TO NAPA COUNTY ORDINANCE CODE, SECTION 12.20.330, CEDA, SECTION 15041.
5. ANY BURNING ON THE SITE IS NOT ALLOWED.
6. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING LEVEL DIMENSIONS BEFORE DIGGER OR FABRICATING ANY MATERIAL.
7. THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER OF ANY UNAUTHORIZED ACCESS TO THE WORK, PRIOR TO COMMENCEMENT OF WORK.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS TO ALL PROPERTY OWNERS AND THE NEIGHBORS IN THE AREA, IN WRITING 48 HOURS IN ADVANCE OF ANY ACCESS. ACCESS INTERPRETATION WILL BE DETERMINED BY THE ENGINEER.
9. IF THE CONTRACTOR DAMAGES THE ROADSIDE IN THE REPAIR OF GUARDRAILS, THEY MUST REPAIR THE ROAD TO ITS ORIGINAL CONDITION, AT 45 OF ACE, OR 12 OF AC AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

CONSTRUCTION SPECIFICATIONS AND STANDARDS:

1. A COMPONENT IN THE CONTRACT PART APPEARS IF APPLICABLE IN EACH. THE PLANS AND SPECIFICATIONS PARTS ARE COMPLIANT AND AVAILABLE FOR A COMPLETE WORK. IF A DISCRIMINATION IS FOUND OR CONSONANT ERROR, REPORT CORRECTING OR CLASSIFICATION IN WRITING. ANY INJURY TO THE COMPLETED PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER AND ALL CHANGES MUST BE WRITTEN PERMITTED.
2. ALL WORKSHOPS, MATERIALS AND CONSTRUCTION SHALL BE TO THE CONTRACT SPECIFICATIONS, THESE PLANS, THE NAPA COUNTY ROAD AND STREET STANDARDS DATED FEBRUARY 4, 2020, AND THE 2018 CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS, WHERE AS THEY APPLY. ATTENTION IS ALSO DIRECTED TO THE STANDARD DRAWINGS CONTAINED IN THE ABOVE STANDARDS. WHEN APPLICABLE, THEY INCLUDES IN THESE DRAWINGS AND INFORMATION FOR SPECIFICATION STANDARDS. NAPA COUNTY STANDARD SPECIFICATIONS & DETAILS CAN BE FOUND AT:
   http://www.countyofnapa.org/

NAPA COUNTY GENERAL NOTES:

1. CONTRACTOR AGREEMENTS, ANY AGREEMENTS WITH THE CONTRACTOR AGREEMENTS, CONSTRUCTION CONTRACTORS WILL BE REQUIRED TO ASSURE SAFE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTIES THAT TWO OF THE CONTRACTORS AGREEMENTS, ARE TO BE AVOIDED. CONTRACTORS MUST NOT BE LIABLE TO GENERAL CONTRACTORS, AND IS TO SERVE AS CONTRACTOR AGREEMENTS AS A CONTRACTOR AGREEMENTS AS A CONTRACTOR AGREEMENTS ENSURE THE PERFORMANCE OF WORKS ON THIS PROJECT.
3. THE CONTRACTOR AGREEMENTS, CONTRACTOR AGREEMENTS, OR THEIR DELEGATES TO ARRANGE A PRE-CONSTRUCTION CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND CONTRACT PROCEDURES.
4. THE CONTRACTOR AGREEMENTS, CONTRACTOR AGREEMENTS, OR THEIR DELEGATES TO ARRANGE A PRE-CONSTRUCTION CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND CONTRACT PROCEDURES.
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9. CONTRACTOR AGREEMENTS, CONTRACTOR AGREEMENTS, OR THEIR DELEGATES TO ARRANGE A PRE-CONSTRUCTION CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND CONTRACT PROCEDURES.
10. CONTRACTOR AGREEMENTS, CONTACTOR AGREEMENTS, OR THEIR DELEGATES TO ARRANGE A PRE-CONSTRUCTION CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND CONTRACT PROCEDURES.
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (APPROXIMATELY 152 LF) OF DAMAGED A77L1 GUARDRAIL
2. INSTALL 51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT (WITH 2' OFFSET)
3. INSTALL 50 LF OF MCS A77L2 GUARDRAIL (WITH STEEL POSTS/PLASTIC BLOCKS)
4. INSTALL 37.5 LF OF TYPE SRT 350 END TREATMENT
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (APPROXIMATELY 84 LF) OF DAMAGED A7/L1 GUARDRAIL INCLUDING WOODEN POSTS/BLOCKS
2. INSTALL 51' LF OF TYPE SOFTSTOP TL-3 END TREATMENT
3. INSTALL 75 LF OF MSG (STEEL POSTS/PLASTIC BLOCKS) AND HORIZONTAL DELINEATORS AT 12.5 FEET ON CENTERS.
4. INSTALL 1x37.5 LF OF TYPE SRT 350 TL-3 END TREATMENT
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 25 LF (2 RAIL SEGMENTS ONLY) OF THE DAMAGED A77L1 GUARDRAIL.

2. REMOVE AND REPLACE APPROXIMATELY 25 LF (2 RAIL SEGMENTS) OF THE DAMAGED A77L1 GUARDRAIL AND 3 WOODEN BLOCKS.
CONSTRUCTION NOTES:

(1) REMOVE AND REPLACE APPROXIMATELY 50 LF (4 RAIL SEGMENTS ONLY) OF THE DAMAGED A771 GUARDRAIL. REPLACE WOODEN POSTS WITH 8-FOOT LONG PER CALTRANS STANDARD PLAN A772 AND A771.)
CONSTRUCTION NOTES:

4. REMOVE AND REPLACE APPROXIMATELY 25 LF (2 RAIL SEGMENT ONLY) OF THE DAMAGED A77L1 GUARDRAIL
   REPLACE WOODEN POSTS WITH 8-FOOT LONG PER CALTRANS STANDARD PLAN A77L2 AND A77N1

1. REMOVE AND REPLACE APPROXIMATELY 17.5 LF (1 RAIL SEGMENT ONLY) OF THE DAMAGED A77L1 GUARDRAIL
   REPLACE WOODEN POSTS WITH 8-FOOT LONG PER CALTRANS STANDARD PLAN A77L2 AND A77N1

3. REMOVE AND REPLACE APPROXIMATELY 12.5 LF (1 RAIL SEGMENT ONLY) OF THE DAMAGED A77L1 GUARDRAIL
   REPLACE WOODEN POSTS WITH 8-FOOT LONG PER CALTRANS STANDARD PLAN A77L2 AND A77N1
CONSTRUCTION NOTES:

1. **REMOVE AND REPLACE WITH APPROXIMATELY 87.5 LF (7 RAIL SEGMENTS) OF A77/L2 GUARDRAIL INCLUDING NEW STEEL HOES AND PLASTIC BLOCKS. INSTALL 4-TYPE W1-8L CHEROKEE SIGNS ALONG CURVE AND HORIZONTAL DELINEATORS @ 12.5 FEET ON CENTERS.**

2. **REMOVE AND INSTALL 2-28 LF MRGS TRANSITION TO 31” MRGS PER CALTRANS STD. PLAN A77U5.**
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (94.5 LF) OF THE DAMAGED A77/L GUARDRAIL AND REPLACE WITH 87.5 LF OF A77/L (STEEL POSTS/PLASTIC BLOCKS)
2. INSTALL 2~6.25 LF BURIED POST END ANCHOR (BPEA)
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (APPROXIMATELY 122 LF) OF DAMAGED A77L1 GUARDRAIL
2. INSTALL 75 LF OF MGS A77L2 (WITH STEEL POSTS/PLASTIC BLOCKS)
3. INSTALL 2~51 LF OF TYPE SOFTSTOP™ TL-3 END TREATMENTS
CONSTRUCTION NOTES:

1. REMOVE APPROXIMATELY 30' LF OF THE DAMAGED A7/11 GUARDRAIL AND REPLACE WITH 1'-0" LF OF TYPE SOFTSTOP END TREATMENT.
CONSTRUCTION NOTES:

1. REMOVE APPROXIMATELY 37.5 LF OF EXISTING A771 GUARDRAIL AND REPLACE WITH 37.5 LF OF TYPE SRR 350 END TREATMENT.
   INSTALL HORIZONTAL DELINERATORS AT 12.5 FEET ON CENTERS.

2. RAISE APPROXIMATELY 270 LF OF BLOCKS AND RAILS TO END.
CONSTRUCTION NOTES:

1. REMOVED ENTIRE LENGTH (119 LF) OF DAMAGED GUARDRAIL AND REPLACE WITH 125 LF OF MCW A77L2 (6-FOOT STEEL POSTS/PLASTIC BLOCKS) AND HORIZONTAL DELIMITERS AT 12.5 FEET ON CENTERS.

2. INSTALL 51 LF OF TYPE SOFTSTOP END TREATMENT (2' OFFSET) AT STRAIGHT ROAD.

3. INSTALL 51 LF OF TYPE SOFTSTOP END TREATMENT (2' OFFSET) AT STRAIGHT ROAD.
CONSTRUCTION NOTES:

[\textbf{1}] \textbf{REMOVE AND REPLACE APPROXIMATELY 37.5 LF (3 RAIL SEGMENTS) OF THE DAMAGED A7/L1 GUARDRAIL AND 6X8X8X27 WOODEN POSTS/BLOCKS PER A77/NT}
CONSTRUCTION NOTES:

1. REMOVE 50 LF OF EXISTING GUARDRAIL/END TERMINAL AND REPLACE WITH 1-51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT (WITH 2' OFFSET)
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE TWO RAIL SEGMENTS (50 LF TOTAL)
2. REMOVE 125 LF FEET OF DAMAGED A77L1 GUARDRAIL AND REPLACE WITH 125 LF OF MGS A77L2 (WITH 8"-LONG STEEL POSTS/PLASTIC BUCK)
3. INSTALL 28 LF TRANSITION GUARDRAIL TO 31" PER CALTRANS STD DETAIL A77US
4. INSTALL 51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT AT EACH END

SITES #12

NEAR 1400 YOUNT MILL RD
YOUNTVILLE, CA

2022 ANNUAL GUARDRAIL REPAIR,
RDS 22-06
CONSTRUCTION NOTES:

1. REMOVE 37.5 LF OF EXISTING DAMAGED GUARDRAIL/END TERMINAL AND REPLACE WITH 1~37.5 LF OF TYPE SHT 350 END TREATMENT (WITH 20" OFFSET FROM EDGE OF TRAVEL WAY)
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (APPROXIMATELY 56 LF) OF EXISTING A77L1 GUARDRAIL AND INSTALL 50 LF OF MCS A77L2 WITH STEEL POSTS/PLASTIC BLOCKS.

2. REMOVE EXISTING TERMINAL AND REPLACE WITH 12.5 LF OF MCS A77L2 (25-FOOT RADIUS) WITH SFT/RJB TERMINAL.

3. REMOVE EXISTING GUARDRAIL AND INSTALL BURIED POST END ANCHOR 25 FEET SOUTHEAST OF EXISTING UTILITY POLE.
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 37.5 LF (3 RAIL SEGMENTS) OF THE DAMAGED A/E/I,
   INCLUDING 3 WOODEN POSTS/BLOCKS, INSTALL HORIZONTAL DELINERATORS AT 12.5 FEET ON CENTERS.
2. REMOVE AND REPLACE 2 WOODEN POSTS AND 3 WOODEN BLOCKS
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 25 LF (2 RAIL SEGMENTS) OF THE DAMAGED A77/L2

SITE #16

(38.556185, -122.463229)
SEE DETAIL '16A THIS SHEET
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 50 LF (4 RAIL SEGMENTS) OF THE DAMAGED A77L INCLUDING 8 WOODEN POSTS/BLOCKS

2. REMOVE AND REPLACE APPROXIMATELY 37.5 LF (3 RAIL SEGMENTS) OF THE DAMAGED A77L INCLUDING 4 WOODEN POSTS/BLOCKS
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 25 LF (2 RAIL SEGMENTS) OF THE DAMAGED A77L INCLUDING 1 WOODEN BLOCK

2. REMOVE AND REPLACE APPROXIMATELY 12.5 LF (1 RAIL SEGMENT) OF THE DAMAGED A77L INCLUDING 1 WOODEN POST/BLOCK

SITE #18
NEAR 1288 HOWELL MOUNTAIN RD
ANGWIN, CA

2022 ANNUAL GUARDRAIL REPAIR,
RDS 22-06

SITES #18

N. WHITE

HOWELL MOUNTAIN RD

INK GRADE RD

DETAL '18A'
CONSTRUCTION NOTES:

1. INSTALL 25 LF OF MSG A77L2 (WITH STEEL POST/PLASTIC BLOCKS)
2. INSTALL SPL WITH RTB TERMINAL AT EACH END
3. INSTALL 51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT
4. INSTALL 75 LF OF MSG A77L2 (WITH STEEL POST/PLASTIC BLOCKS) AND HORIZONTAL DELINEATORS AT 12.5 FEET ON CENTERS
5. INSTALL 51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT
CONSTRUCTION NOTES:

1. REMOVE 37.5 LF OF DAMAGED GUARDRAIL A7711 AND REPLACE WITH 37.5 LF OF MCS A7712 (WITH 8-FOOT STEEL POSTS/PLASTIC BLOCKS). INSTALL HORIZONTAL DETENTORS AT 12.5 FEET ON CENTERS.

2. INSTALL 20 LF OF TRANSITION GUARDRAIL TO 311.

3. INSTALL TYPE SOFTSTOP TL-3 END TREATMENTS AT NORTH END.

4. REMOVE APPROXIMATELY 125 LF OF EXISTING A7711 GUARDRAIL AND REPLACE WITH 125 LF MCS A7712 GUARDRAIL (WITH 8-FOOT STEEL POSTS/PLASTIC BLOCKS).

SITE #19

NEAR 1745 HOWELL MOUNTAIN RD

ANGWIN, CA
CONSTRUCTION NOTES:


SITE #20
(38.07203106, -122.48275103)
SEE DETAIL '20A' THIS SHEET

PROJECT TITLE
2022 ANNUAL GUARDRAIL REPAIR,
RDS 22-06

SITES #20
POPE VALLEY RD
CHILES POPE VALLEY RD
HOWELL MOUNTAIN RD
HOWELL
POPE VALLEY RD

SITE #20
SEE SHEET 20
CONSTRUCTION NOTES:

1. REMOVE APPROXIMATELY 37.5 LF EXISTING DAMAGED A7/L
2. INSTALL 39.6 LF OF TYPE MFLEAT TL-3 END TREATMENT (WITH 3" OFFSET)
CONSTRUCTION NOTES:

1. REMOVE AND REPLACE APPROXIMATELY 12.5 LF (1 RAIL SEGMENT) OF DAMAGED GUARDRAIL.
2. EXTEND GUARDRAIL 25 FEET BEYOND THE END OF THE BRIDGE WITH A 25-FOOT RADIUS AND INSTALL 5 FT TERMINAL WITH RTB.
3. REPLACE I-BEAM METAL POST.
4. REMOVE BOLDERS.

SITE #22
NEAR 2146 STAGE COACH CANYON RD
POPE VALLEY, CA
CONSTRUCTION NOTES:

1. REMOVE ENTIRE LENGTH (914 LF TOTAL) OF EXISTING A7LL1 GUARDRAIL AND REPLACE WITH 300 LF OF MGS A7LL2 (WITH STEEL POSTS/PLASTIC BLOCKS)

2. INSTALL 4-51 LF OF TYPE SOFTSTOP TL-3 END TREATMENTS (WITH 2' OFFSET)
CONSTRUCTION NOTES:

1. REMOVE 5 LF OF EXISTING GUARDRAIL A77-L1
2. INSTALL 1-51 LF OF TYPE SOFTSTOP TL-3 END TREATMENT (WITH 2' OFFSET)
3. REMOVE 25 LF OF EXISTING GUARDRAIL/END TERMINAL AND REPLACE WITH 1X37.5 LF OF SHT 350 TL-3 (WITH 20' OFFSET)
CONSTRUCTION NOTES:
1. INSTALL 2-28 LF OF TRANSITION GUARDRAIL TO 31'
2. INSTALL 2-12.5 LF MBGS A77/2 (ONE AT EACH END OF EXISTING GUARDRAIL)
3. INSTALL 2-51 LF TYPE SOFTSTOP TL-3 END TREATMENTS (ONE AT EACH END)