PERMIT NUMBER _____

CO SD RTE 67 PM 15.2

AS-BUILT PLANS FOR ROADWAY STRIPING AND ABOVE GROUND FEATURES

_____ _____

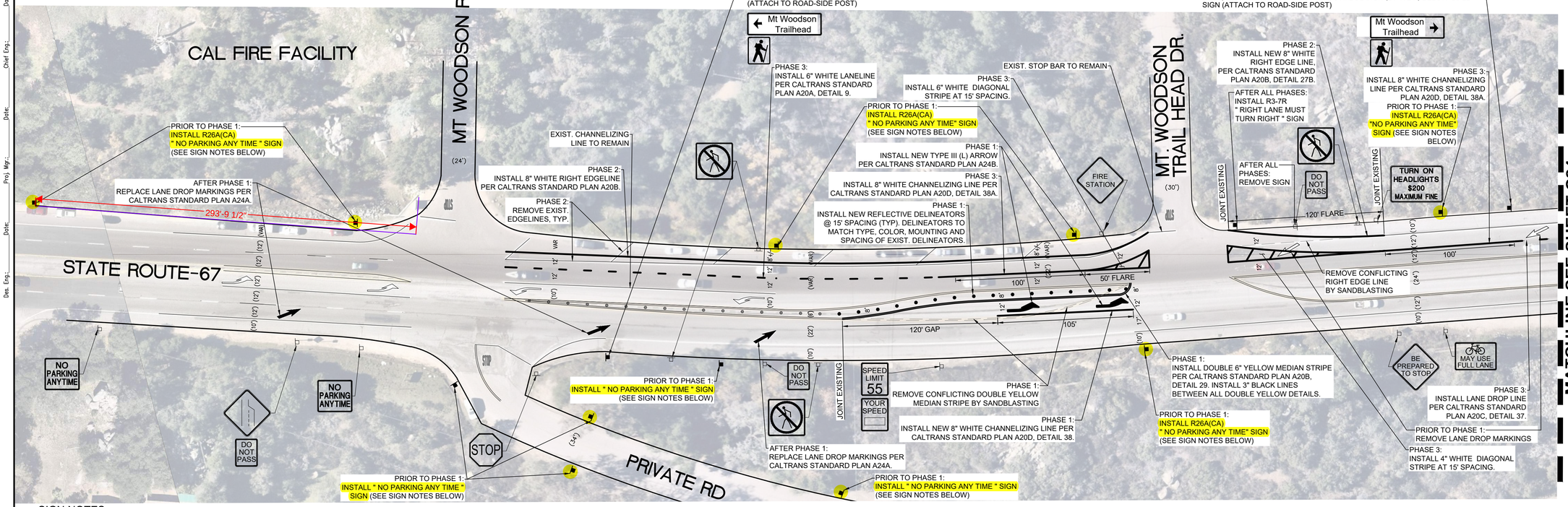
STATE REPRESENTATIVE DATE

PLAN SET ____ PAGE ____ OF

PSOMAS Q.C. REVIEW

Proj. Engr.: Date: Proj. Mgr.: Date: Q.C. Eng.: Date: Chief Eng.: Date:

Cadd: Date: Des. Engr.: Date:



SIGN NOTES

ALL SIGNS SHALL BE ALUMINUM WITH HIGH INTENSITY PRISMATIC RETROREFLECTIVE SHEETING. ALL BACKGROUNDS AND LEGENDS SHALL BE TYPE XI EXCEPT WHITE BACKGROUNDS SHALL BE TYPE IX SHEETING. ALL BLACK LEGENDS ON SIGNS SHALL BE NON-REFLECTIVE.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLAN, ALL SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN IS 7' ABOVE THE SURROUNDING GROUND SURFACE. RURAL AREA SIGNS WITHOUT PEDESTRIAN USE CAN BE MOUNTED 5' ABOVE THE SURROUNDING GROUND SURFACE. SEE RS1 CALTRANS STANDARD PLANS 2015.

SIGN POSTS SHALL BE 4" X 4" TREATED WOOD OR STEEL POSTS PER SECTION 56-3, "STANDARD AND POLES" OF THE MOST CURRENT CALTRANS STANDARD SPECIFICATIONS. SIGN POSTS SHALL BE PLACED SO THAT THEY COMPLY WITH ADA (FACILITY ACCESSIBILITY) REQUIREMENTS AND DO NOT ALLOW THE TRAFFIC SIGNS TO HANG OVER THE ROADWAY. SIGN POSTS SHALL BE PLACED IN COMPACTED NATIVE SOIL. IF SIGN POSTS ARE TO BE INSTALLED IN CONCRETE SIDEWALKS, THEN A 1' X 1' SQUARE, 1/2-INCH DEEP JOINT OR SAWCUT SHALL BE PLACED AROUND THE SIGN POST. SIGNS SHALL BE MOUNTED ON SIGN POSTS USING SIGN PANEL FASTENING HARDWARE PER SECTION 56-3, "STANDARD AND POLES" OF THE MOST CURRENT CALTRANS STANDARD SPECIFICATIONS AND AS SPECIFIED BY THE SIGN FILM MANUFACTURER.

THE ENGINEER SHALL APPROVE ALL SIGN INSTALLATION LOCATIONS PRIOR TO THE CONTRACTOR INSTALLING THE SIGNS.

ALL TRAFFIC SIGNS SHALL BE READILY VISIBLE TO ALL MOTORISTS DRIVING AT THE PREVAILING SPEED. IF THE VISIBILITY OF THE TRAFFIC SIGN IS BLOCKED, THE CONTRACTOR WITH THE ENGINEER'S APPROVAL SHALL EITHER RELOCATE THE SIGN OR REMOVE THE OBSTACLES (SUCH AS VEGETATION, ROCKS, PRIVATE SIGNS, AND MINOR

NO PARKING ANY TIME SIGNS SHALL BE 0.063 UNFRAMED METAL GAUGE AND HAVE A WHITE REFLECTIVE TYPE IX BACKGROUND WITH RED RETROFLECTIVE TYPE XI LEGEND.

STRIPING NOTES

TRAFFIC STRIPES, THERMOPLASTIC PAVEMENT MARKINGS, AND PAVEMENT MARKERS

INSTALLATION OF TRAFFIC STRIPES (TRAFFIC LINES) AND THERMOPLASTIC PAVEMENT MARKINGS SHALL CONFORM TO SECTION 84-1, "GENERAL" AND 84-2, "TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CALTRANS STANDARD SPECIFICATIONS AND THE FOLLOWING:

CONTROL OF THE ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER. ALL NEW STRIPING AND REMOVAL OF REDUNDANT STRIPING SHALL BE DONE BY CONTRACTOR. STRIPING SHALL BE REMOVED BY SANDBLASTING / GRINDING AND THEN SAND SEALED PER THE ENGINEER. CONTRACTOR TO PROVIDE AND INSTALL PAVEMENT MARKERS.

SECTION 84-2.02, "MATERIALS", OF THE STANDARD SPECIFICATIONS IS AMENDED TO READ:

PAINT FOR TRAFFIC STRIPING SHALL BE LEAD FREE AND CONFORM TO THE LATEST STATE SPECIFICATIONS FOR RAPID DRY WATER BORNE, WHITE & YELLOW PAINT.

THERMOPLASTIC MATERIAL SHALL BE FREE OF LEAD AND CHROMIUM, AND SHALL CONFIRM TO THE REQUIREMENTS IN STATE SPECIFICATION PTH-02SPRAY, PTH-02HYDRO, OR PTH-02ALKYD.

FOR EACH BATCH OF THERMOPLASTIC MATERIAL FOR PAVEMENT MARKINGS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER:

1. CERTIFICATE OF COMPLIANCE UNDER SECTION 6-1.07, "CERTIFICATES OF COMPLIANCE," OF THE STANDARD SPECIFICATIONS
2. DEPARTMENT'S MATERIALS ENGINEERING AND TESTING SERVICES NOTIFICATION LETTER STATING THAT THE MATERIAL IS APPROVED FOR USE
3. MATERIAL SAFETY DATA SHEET

PRIMER MUST COMPLY WITH THE THERMOPLASTIC MANUFACTURER'S RECOMMENDATIONS. DO NOT THIN THE PRIMER.

GLASS BEADS SHALL CONFORM TO STATE SPECIFICATIONS NO. 8010-004 (TYPE II).

COPIES OF STATE SPECIFICATIONS FOR TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CALIFORNIA, 95812, TEL. (916) 227-7000.

THERMOPLASTIC PAVEMENT MARKINGS WITH ENHANCED WET-NIGHT VISIBILITY MUST CONSIST OF A SINGLE UNIFORM LAYER OF THERMOPLASTIC AND 2 LAYERS OF GLASS BEADS AS FOLLOWS:

1. THE 1ST LAYER OF GLASS BEADS MUST BE ON THE AUTHORIZED MATERIAL LIST UNDER HIGH-PERFORMANCE RETROREFLECTIVE GLASS BEADS FOR USE IN THERMOPLASTIC PAVEMENT MARKINGS. THE COLOR OF THE GLASS BEADS MUST MATCH THE COLOR OF THE STRIPE OR MARKING TO WHICH THEY ARE BEING APPLIED.
2. THE 2ND LAYER OF GLASS BEADS MUST COMPLY WITH AASHTO M 247, TYPE 2.

BOTH TYPES OF GLASS BEADS MUST BE SURFACE TREATED FOR USE WITH THERMOPLASTIC UNDER THE BEAD MANUFACTURER'S INSTRUCTIONS.

GLASS BEADS MAYBE APPLIED BY HAND ON THERMOPLASTIC PAVEMENT MARKINGS.

WITHIN 14 DAYS OF APPLYING A THERMOPLASTIC PAVEMENT MARKING WITH ENHANCED WET-NIGHT VISIBILITY, THE RETROREFLECTIVITY MUST BE A MINIMUM OF 700 MCD/SQ M/LX FOR WHITE STRIPES AND MARKINGS AND

500 MCD/SQ M/LX FOR YELLOW STRIPES AND MARKINGS. TEST THE RETROREFLECTIVITY USING A REFLECTOMETER UNDER ASTM E 1710.

WHERE STRIPING JOINS EXISTING STRIPING, AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL BEGIN AND END THE TRANSITION FROM THE EXISTING STRIPING PATTERN INTO OR FROM THE NEW STRIPING PATTERN A SUFFICIENT DISTANCE TO ENSURE CONTINUITY OF THE STRIPING PATTERN.

APPLY EXTRUDED THERMOPLASTIC AT A TEMPERATURE FROM 400 TO 425 DEGREES F, UNLESS A DIFFERENT TEMPERATURE IS INSTRUCTED BY THE MANUFACTURER.

APPLY THERMOPLASTIC PAVEMENT MARKING AT A RATE OF AT LEAST 1.06 LB/SQ FT. THE APPLIED THERMOPLASTIC PAVEMENT MARKING MUST BE AT LEAST 0.125 INCH THICK.

DISTRIBUTE GLASS BEADS UNIFORMLY ON PAVEMENT MARKINGS. APPLY HIGH-PERFORMANCE GLASS BEADS AT A RATE OF AT LEAST 6 LB/100 SQ FT OF MARKING. APPLY AASHTO M 247, TYPE 2, GLASS BEADS AT A RATE OF AT LEAST 8 LB/100 SQ FT OF MARKING. THE COMBINED WEIGHT OF THE 2 TYPES OF GLASS BEADS MUST BE GREATER THAN 14 LB/100 SQ FT OF MARKING.

THERMOPLASTIC PAVEMENT MARKINGS SHALL BE FREE OF RUNS, BUBBLES, CRATERS, DRAG MARKS, STRETCH MARKS, AND DEBRIS.

THE SURFACE OF THE THERMOPLASTIC MATERIAL UPON APPLICATION SHALL PROVIDE A MINIMUM SKID RESISTANCE VALUE OF 60 BPN WHEN TESTED ACCORDING TO ASTM E 303. DOCUMENTATION DETAILING MANUFACTURE'S MINIMUM SKID RESISTANCE FOR PERFORMED THERMOPLASTIC MATERIAL SHALL BE PROVIDED TO THE ENGINEER PRIOR TO COMMENCEMENT OF PAVEMENT MARKING OPERATIONS.

PAVEMENT MARKER SHALL CONFORM TO SECTION 81-3, "PAVEMENT MARKERS" OF THE STANDARD SPECIFICATIONS, AND THE FOLLOWING PROVISIONS:

PAVEMENT MARKER HEIGHT SHALL BE 0.70-INCH MINIMUM. "LOW PROFILE" TYPE MARKERS WILL NOT BE ACCEPTABLE.

LEGEND

EXISTING SIGN

NEW SIGN

EXISTING DELINEATOR

NEW DELINEATOR

EXISTING PAVEMENT MARKING

NEW PAVEMENT MARKING

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

James S. Bliss
JAMES S. BLISS R.C.E. NO. 41795

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C23

DEPARTMENT OF PARKS AND RECREATION
COUNTY OF SAN DIEGO
5500 OVERLAND DRIVE, SUITE 410 SAN DIEGO, CALIFORNIA 92123

COUNTY OF SAN DIEGO PARKS AND RECREATION

CHIEF PARK DEVELOPMENT _____ DATE _____
CHIEF OPERATIONS & MAINTENANCE _____ _____
DISTRICT PARK MANAGER _____ _____

NO.	REVISIONS	APPR.	DATE

DESIGNED BY: JSP
DRAWN BY: GPY
CHECKED BY: JSB
PROJECT MANAGER: JSB

MT. WOODSON STAGING AREA

SR-67 STRIPING MODIFICATION PLAN, SHEET 1

SCALE AS SHOWN
PROJ. NO. 1021983
FILE NO.
SHEET 24 OF 47

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PERMIT NUMBER _____

CO SD RTE 67 PM 15.2

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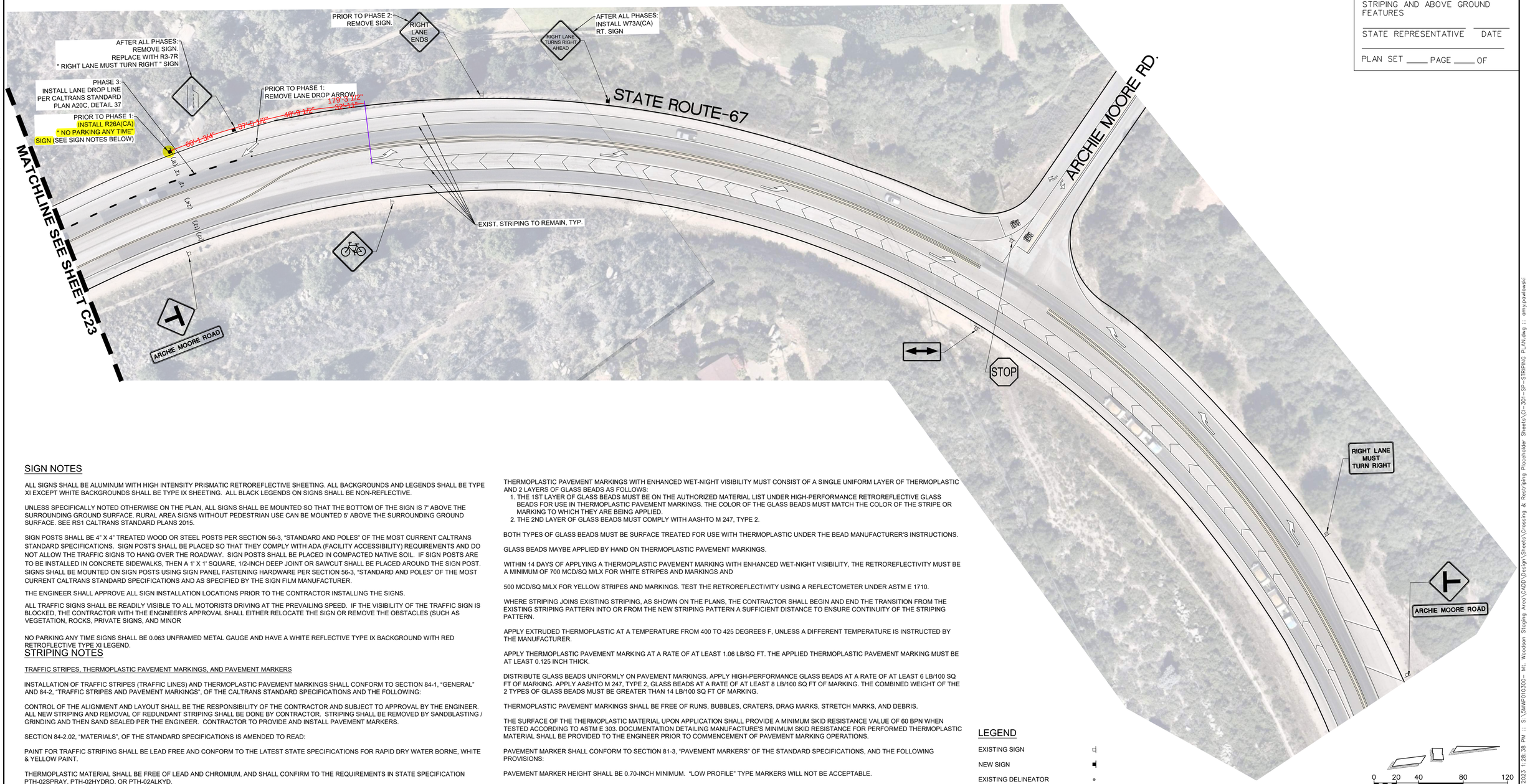
STATE REPRESENTATIVE DATE

PLAN SET ____ PAGE ____ OF

Date: Chief Eng.: Date: Proj. Mgr.: Date: Des. Eng.:



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NEW PAVEMENT MARKING

0 20 40 80 120

SCALE: 1" = 40'

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COUNTY OF SAN DIEGO PARKS AND RECREATION

CHIEF PARK DEVELOPMENT — DATE
CHIEF OPERATIONS & MAINTENANCE — DATE
DISTRICT PARK MANAGER — DATE

NO.	REVISIONS	APPR.	DATE

DESIGNED BY: JSP
DRAWN BY: GPY
CHECKED BY: JSB
PROJECT MANAGER: JSB

MT. WOODSON STAGING AREA

SR-67 STRIPING MODIFICATION PLAN, SHEET 2

SCALE AS SHOWN | PROJ. NO. 1021983 | FILE NO. | SHEET 25 OF 47

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