

APPENDIX

A ALIGNMENT EXHIBITS

- **Appendix A-1** **La Costa Ave to Encinitas Blvd: West Side Alignment**
La Costa Ave to Leucadia Blvd
Leucadia Blvd to Encinitas Blvd
- **Appendix A-2** **La Costa Ave to Encinitas Blvd: East Side Alignment**
La Costa Ave to Leucadia Blvd
Leucadia Blvd to Encinitas Blvd
- **Appendix A-3** **Encinitas Blvd to Santa Fe Dr**
Near-Term Alignment
Long-Term Alignment
- **Appendix A-4** **City of Encinitas Striping Plan for Coast Highway 101 South of Chesterfield Dr**

APPENDIX

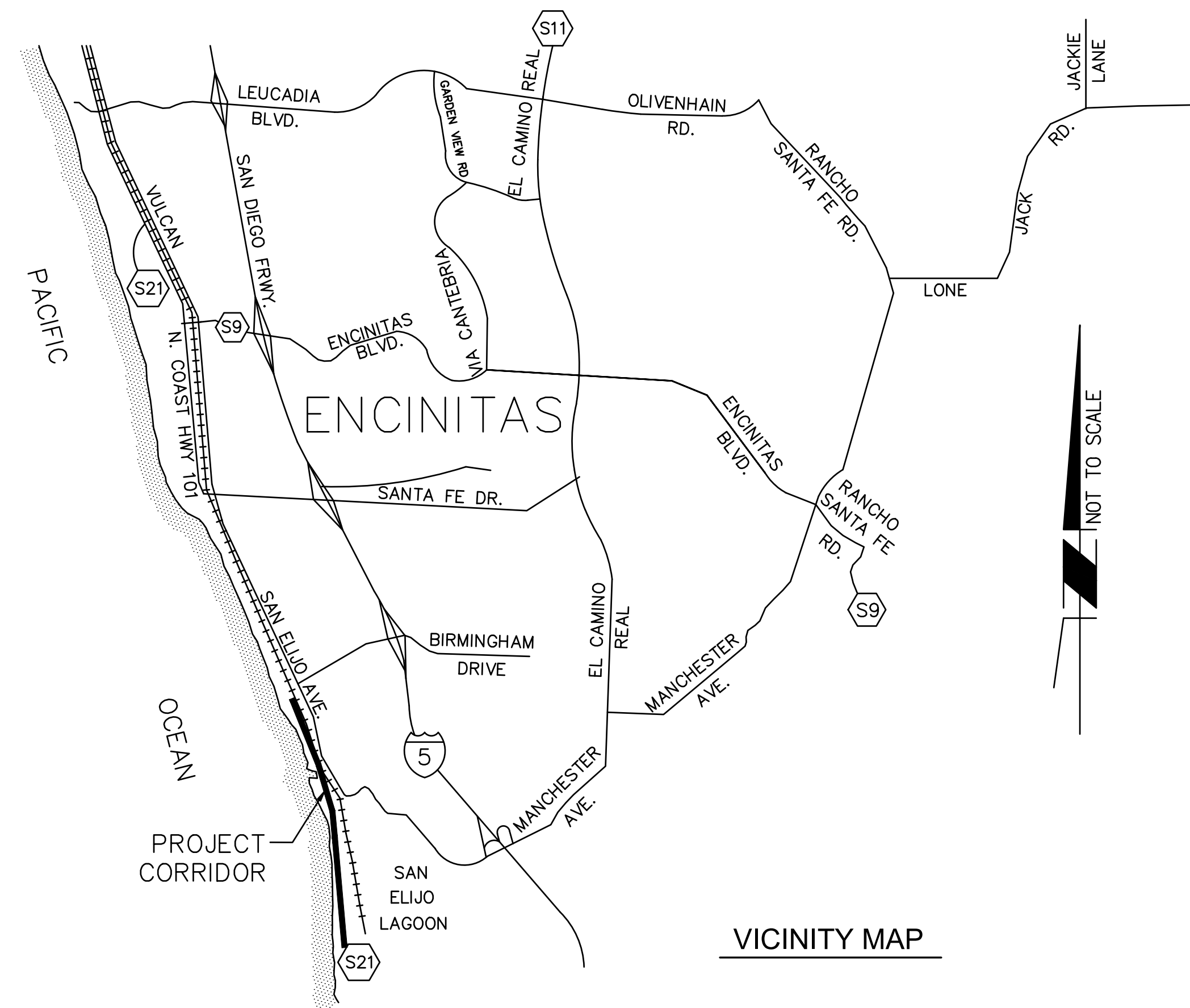
A-4 CITY OF ENCINITAS STRIPING PLAN FOR COAST HIGHWAY 101 SOUTH OF CHESTERFIELD DR

CONSTRUCTION PLANS FOR SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS

CONTRACT NO. CS-20E



CITY OF ENCINITAS
ENCINITAS, CALIFORNIA



VICINITY MAP

PROJECT DIRECTORY

OWNER/ PERMITEE:
CITY OF ENCINITAS, CALIFORNIA
505 S. VULCAN AVE.
ENCINITAS, CA. 92024

CITY CONTACT / STAFF NAME & NO.
STAFF NAME: ABRAHAM BANDEGAN
PHONE NO: 760-633-2705
FAX NO: 760-633-2818
EMAIL: ABANDEGAN@ENCINTASCA.GOV

CONSULTANTS / FIRMS

NAME: STC TRAFFIC, INC.
CONTACT NAME: NICOLAS MINICILLI
ADDRESS: 5865 AVENIDA ENCINAS, STE 142B,
CARLSBAD, CA 92008
PHONE NO: 760-602-4290
FAX NO: 760-670-3445
EMAIL: NICK.MINICILLI@STCTRAFFIC.COM

PROJECT DESCRIPTION

INSTALLATION OF GREEN CLASS IV BIKE LANES AND BIKE LANE SIGNAGE.

PROJECT LOCATION

SOUTH COAST HIGHWAY 101 BETWEEN CHESTERFIELD DR. TO SOUTHERN CITY LIMITS.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF ENCINITAS DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: STC TRAFFIC, INC.
ADDRESS: 5865 AVENIDA ENCINAS, SUITE 142B
CITY, ST.: CARLSBAD, CA
TELEPHONE: 760-602-4290
BY: NICOLAS M. MINICILLI DATE: 11-05-2019
R.C.E. NO.: 74667
REGISTRATION EXPIRATION DATE: 12-31-2019



Apr 15, 2020 - 5:28pm T:\Projects\Encinitas\17.0525... As-Needed Civil Engineering\025.0014_Coast 101 Buffered Green Bike Lanes\07_Engineering\CADD\DWG\###_DIV_01_IT.dwg

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15				HORIZONTAL N/A	CL	TB	NM	RECOMMENDED	CITY OF ENCINITAS ENGINEERING DEPARTMENT	CS-20E
SHARROWS AND R4-11.		2020-02-07				VERTICAL N/A	NICOLAS M. MINICILLI			APPROVED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS	
BUS STOP CONFLICT STRIPING.		2020-02-07									TITLE SHEET	
											SHEET 1 OF 12	

GENERAL NOTES

- SIGNING AND STRIPING INSTALLATIONS SHALL CONFORM TO THE CURRENT STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND (RSP) REVISED STANDARD PLANS, STANDARD SPECIFICATIONS, THE PROJECT SPECIAL PROVISIONS, 2014 CALIFORNIA MUTCD REV 2, AND THE CITY OF ENCINITAS PUBLIC WORKS DEPARTMENT STANDARD DRAWINGS AND SPECIFICATIONS, CURRENT EDITION.
- SIGNS SHALL CONFORM TO THE CURRENT CALTRANS SIGN SPECIFICATIONS, AND 2014 CALIFORNIA MUTCD REV 2. SIGN SIZE SHALL BE THE STANDARD SIZE NOTED IN THE SIGN SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLAN.
- ALL PAINT WORK SHALL BE DOUBLE COATED AND BEADED, CONFORMING TO THE REQUIREMENTS SET FORTH IN THE STANDARD SPECIFICATIONS.
- ANY PRE-LINED STRIPING AND MARKING LAYOUT WORK SHALL BE VERIFIED BY THE CITY TRAFFIC ENGINEER PRIOR TO THE PLACEMENT OF FINAL PAINTED PAVEMENT STRIPING OR MARKINGS.
- ANY EXISTING THERMOPLASTIC TRAFFIC STRIPING AND PAVEMENT MARKINGS AND R.P.M.'S WITHIN THE IMPROVEMENT AREA SHALL BE REMOVED AS REQUIRED BY GRINDING (OR OTHER APPROVED METHOD). PAVEMENT SURFACES ARE TO BE FREE OF ALL REMOVABLE RESIDUE PRIOR TO APPLICATION OF PAINT.
- A MINIMUM OF SEVEN DAYS SHALL BE PROVIDED BETWEEN FIRST AND SECOND PAINT WORK COATING.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE SALVAGED EQUIPMENT IS NOT DAMAGED DURING THEIR OPERATIONS. MOVEMENT OF SALVAGED EQUIPMENT SHALL BE COORDINATED WITH THE CITY. ALL SALVAGED ITEMS SHALL BE DELIVERED TO THE CITY SERVICE YARD.

UTILITY CONTACT INFORMATION

UNDERGROUND SERVICE ALERT
 SDG&E (800) 611-7343
 AT&T (800) 750-2355
 TIME WARNER CABLE (760) 438-7741
 COX COMMUNICATIONS (760) 806-9809
 CITY OF ENCINITAS (PUBLIC WORKS) (760) 633-2840
 CITY OF ENCINITAS (ENGINEERING) (760) 633-2770

CITY OF ENCINITAS

SHEET INDEX

STANDARDS, DRAWINGS, AND SPECIFICATIONS

THE IMPROVEMENTS ARE TO COMPLY WITH THESE PLANS AND THE LATEST EDITIONS OF THE FOLLOWING STANDARDS, GUIDELINES, AND SPECIFICATIONS:

- CALTRANS STANDARD PLANS AND SPECIFICATIONS
- CAMUTCD
- CALTRANS TRAFFIC SIGNAL CONTROL EQUIPMENT SPECIFICATIONS
- CALTRANS FIBER OPTIC DESIGN MANUAL
- THE GREENBOOK, SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION
- SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
- CITY OF ENCINITAS ENGINEERING MANUAL
- CITY OF SAN DIEGO BICYCLE FACILITY DESIGN GUIDELINES (DRAFT)
- THE SPECIAL PROVISIONS
- MANUFACTURERS SPECIFICATIONS AND INSTALLATION RECOMMENDATIONS

IN THE EVENT OF A CONFLICT BETWEEN PROJECT PLANS AND/OR SPECIFICATIONS AND/OR SPECIFICATIONS PUBLICATIONS, THE SUPERIOR STANDARD SHALL PREVAIL AS DETERMINED BY THE ENGINEER OR INSPECTOR.

LEGEND

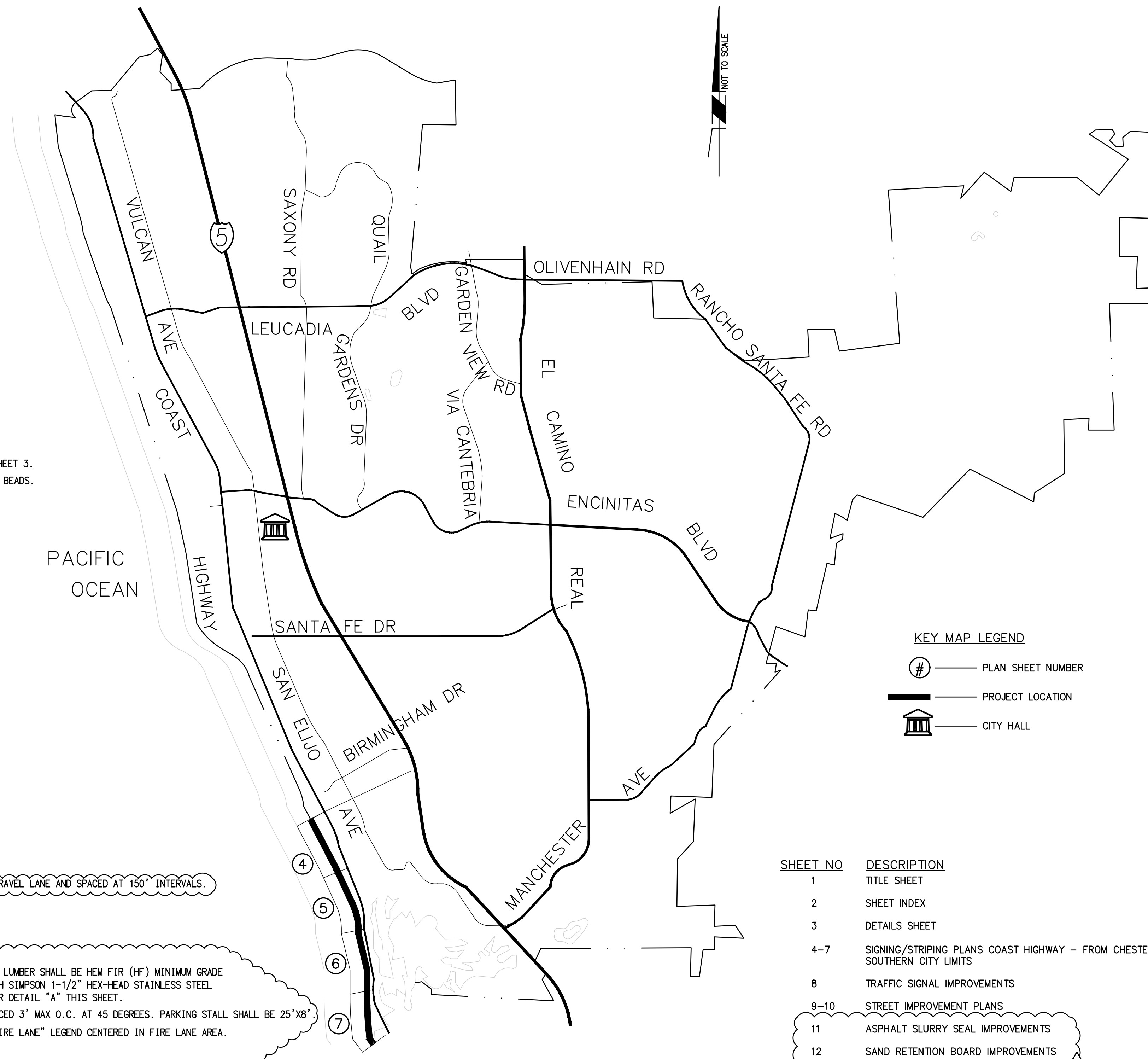
- EXISTING CURB _____
- EXISTING GUTTER _____
- EXISTING BACK OF SIDEWALK _____
- CENTERLINE _____
- RIGHT-OF-WAY _____
- EXISTING TRAFFIC SIGNAL _____ (S)
- EXISTING SIGN ON POLE _____
- EXISTING SIGN ON POST _____
- PROPOSED SIGN ON POST _____
- PROPOSED BUFFER BOLLARD _____
- PROPOSED SIGN ON POST _____

CONSTRUCTION NOTES

- APPLY 4" WHITE LINE PER CAMUTCD, DETAIL 9.
- APPLY 8" WHITE CHANNELIZING LINE PER CAMUTCD, DETAIL 38.
- APPLY 4" DOUBLE YELLOW LINES PER CAMUTCD, DETAIL 29.
- APPLY 6" WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39.
- INSTALL CONFLICT ZONE STRIPING WITH 6" WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39A AND GREEN PAINT. SEE DETAIL "A" ON SHEET 3.
- APPLY 12" THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- APPLY 4" WHITE 30° DIAGONAL STRIPE AT 35' O.C.
- INSTALL THERMOPLASTIC PAVEMENT MARKING SYMBOL AND ARROW PER CALTRANS STANDARD PLANS AND DETAIL E ON SHEET 3.
- APPLY GREEN ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLECTIVE GLASS BEADS.
- INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW PER CALTRANS STANDARD PLAN A24A, ARROW TYPE PER PLAN.
- INSTALL NEW SIGN AND POST PER PLAN. SIGN SHALL HAVE A MINIMUM OF 7' ABOVE FINISHED SURFACE.
- FURNISH AND INSTALL 28" TAPCO CITY POST PER DETAIL "D" ON SHEET 3.
- INSTALL 10' ASPHALT WHEEL STOP PER DETAIL "C" ON SHEET 3.
- APPLY 4" WHITE LINE PER CAMUTCD, DETAIL 40.
- PAINT CURB RED.
- REMOVE EXISTING STRIPING.
- FURNISH AND INSTALL TYPE F VEHICLE DETECTOR LOOP PER 2018 CALTRANS RSP ES-5B. REFRESH EXISTING PAVEMENT MARKINGS AS NECESSARY PER SIGNING AND STRIPING PLANS.
- FURNISH AND INSTALL 4'x6' MODIFIED TYPE Q BICYCLE DETECTOR PER 2018 CALTRANS RSP ES-5B, SIZE LOOP PER DETAIL "F" ON SHEET 3. FURNISH AND INSTALL NEW DETECTOR CARDS IN CABINET AS NECESSARY. REFRESH EXISTING PAVEMENT MARKINGS AS NECESSARY PER SIGNING AND STRIPING PLANS.
- SAWCUT EX. PAVEMENT PER DETAIL "I" ON THIS SHEET.
- REMOVE EXISTING GUARDRAIL COMPLETE.
- REMOVE EXISTING AC PAVEMENT COMPLETE. CONSTRUCT AC PAVEMENT AND BASE. MATCH EXISTING ROADWAY SECTION IN KIND.
- CONSTRUCT "TYPE A" 6" AC BERM PER SDRSD G-05.
- REMOVE CONCRETE BOLLARD AND FOUNDATION COMPLETE.
- REMOVE EXISTING SIGN AND POST.
- APPLY 8" YELLOW 30° DIAGONAL STRIPE AT 35' O.C.
- APPLY 4" YELLOW LINE PER CAMUTCD, DETAIL 25.
- APPLY 4" DOUBLE YELLOW LINES PER CAMUTCD, DETAIL 27.
- APPLY "GREENBACK" SHARED LANE MARKING LANE PER DETAIL "H" ON SHEET 3. MARKINGS SHALL BE CENTERED IN TRAVEL LANE AND SPACED AT 150' INTERVALS.
- FURNISH AND INSTALL PROTECTIVE RAILING PER SDRSD DRAWING NO. M-24. RAILING SHALL BE PIPE GUARDRAIL-POST TYPE AND INTERMEDIATE RAILS SHALL BE SPACED AT 4 INCHES. POSTS SHALL BE DRILLED INTO EXISTING AC BERM AND GROUTED IN PLACE.
- APPLY TYPE 11 SLURRY SEAL ON ROAD FROM STATION 10+62 TO STATION 76+70.
- FURNISH AND INSTALL 2"x12" PRESSURE-TREATED LUMBER RETENTION BOARD BETWEEN EXISTING 4"x4" WOOD POSTS. LUMBER SHALL BE HEM FIR (HF) MINIMUM GRADE WITH BROWN STAIN. FURNISH AND INSTALL SIMPSON STRONG-TIE PART# FB26 GALVANIZED FENCE RAIL BRACKET WITH SIMPSON 1-1/2" HEX-HEAD STAINLESS STEEL HEAVY-DUTY STRONG-DRIVE CONNECTOR SCREWS. ATTACH PROPOSED RETENTION BOARDS TO EXISTING 4"x4" POSTS PER DETAIL "A" THIS SHEET.
- APPLY 4" BLUE DISABLE PERSONS PARKING LINE PER CAMUTCD FIGURE 3B-22(CA). DIAGONAL LINES SHALL BE SPACED 3' MAX O.C. AT 45 DEGREES. PARKING STALL SHALL BE 25'x8'.
- APPLY 4" RED LINES. DIAGONAL LINES SHALL BE 3' MAX O.C. AT 45°. CONTRACTOR SHALL APPLY "NO PARKING FIRE LANE" LEGEND CENTERED IN FIRE LANE AREA.
- APPLY 6" DASHED WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39A.
- FURNISH AND INSTALL YELLOW TRUNCATED DOMES PER SDRSD G-30.
- MATCH EXISTING.

REMOVAL NOTES

- R REMOVE EXISTING THERMOPLASTIC STRIPING OR PAVEMENT MARKING BY METHOD OF GRINDING.
- S REMOVE EXISTING SIGN AND POST COMPLETE.



KEY MAP LEGEND

- # PLAN SHEET NUMBER
- PROJECT LOCATION
- CITY HALL

SHEET NO	DESCRIPTION
1	TITLE SHEET
2	SHEET INDEX
3	DETAILS SHEET
4-7	SIGNING/STRIPING PLANS COAST HIGHWAY - FROM CHESTERFIELD DR TO SOUTHERN CITY LIMITS
8	TRAFFIC SIGNAL IMPROVEMENTS
9-10	STREET IMPROVEMENT PLANS
11	ASPHALT SLURRY SEAL IMPROVEMENTS
12	SAND RETENTION BOARD IMPROVEMENTS

ABBREVIATIONS

AB	ABANDON.
EX	EXISTING.
MPH	MILES PER HOUR.
O.C.	ON CENTER.
R/W	RIGHT OF WAY.
SC	SPlice NEW TO EXISTING CONDUCTORS.
SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS.
SNS	STREET NAME SIGN.
TYP	TYPICAL.
SF	SQUARE FEET
SY	SQUARE YARDS



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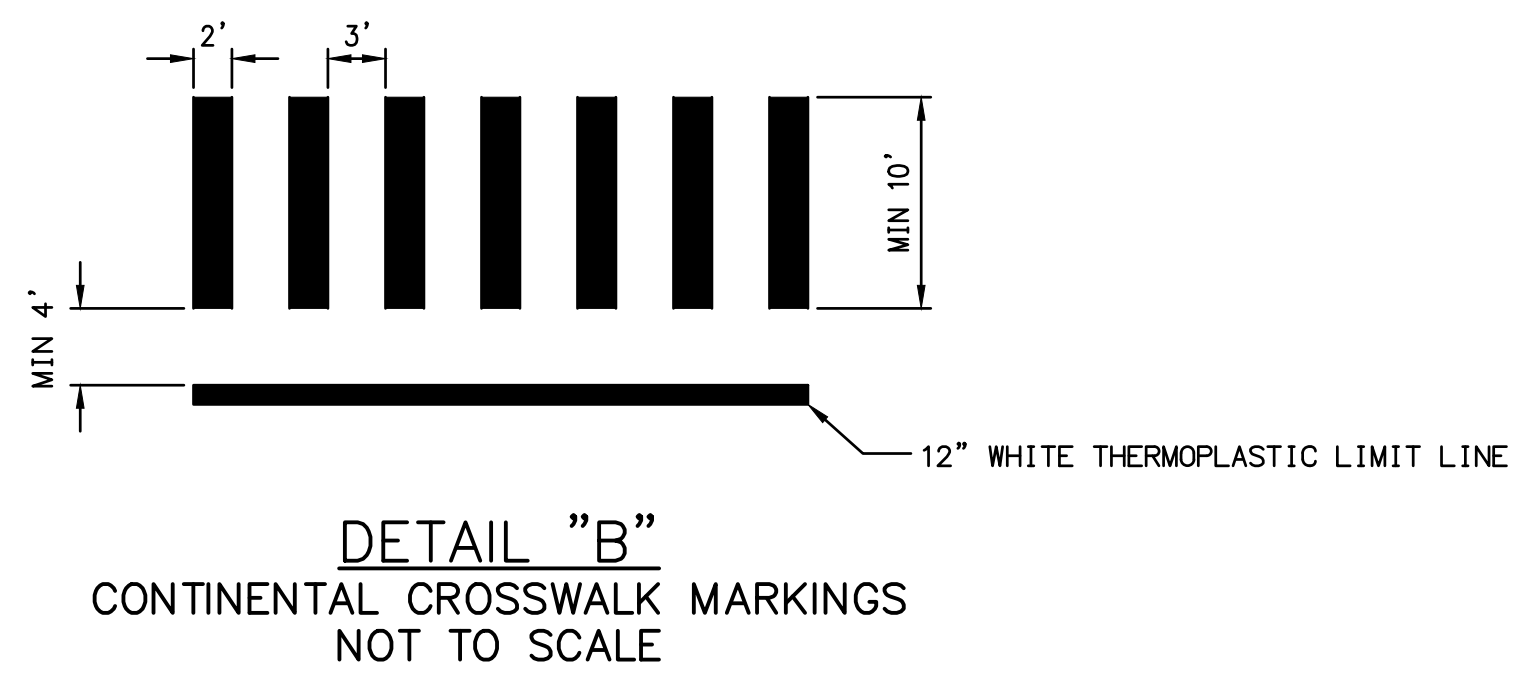
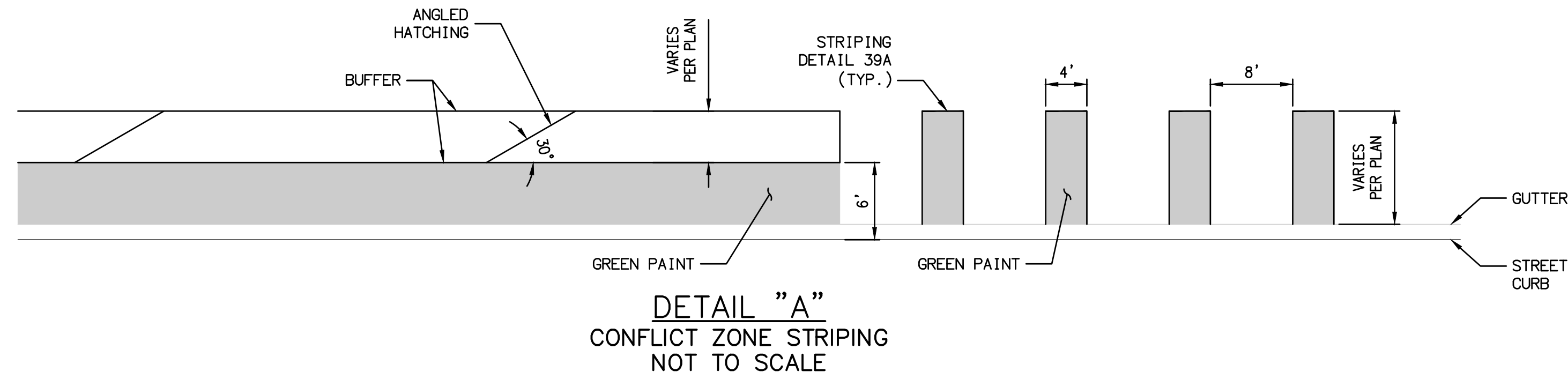
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STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15					CL	TB	NM	RECOMMENDED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS	CS-20E
SHARROWS AND R4-11.		2020-02-07							APPROVED	SHEET INDEX	SHEET 2 OF 12	

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PLANS PREPARED UNDER SUPERVISION OF
Nicolas M. Mincilli
 NICOLAS M. MINCILLI
 DATE: 11-05-2019
 R.C.E. NO. 74667
 EXP. 12-31-2021

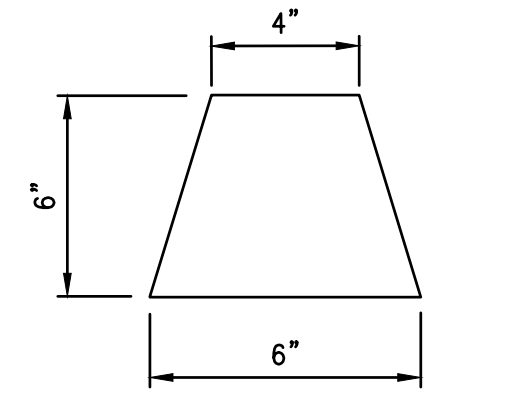
RECOMMENDED BY: _____
 DATE: _____
 R.C.E. NO.: _____

APPROVED BY: _____
 DATE: _____
 R.C.E. NO.: _____



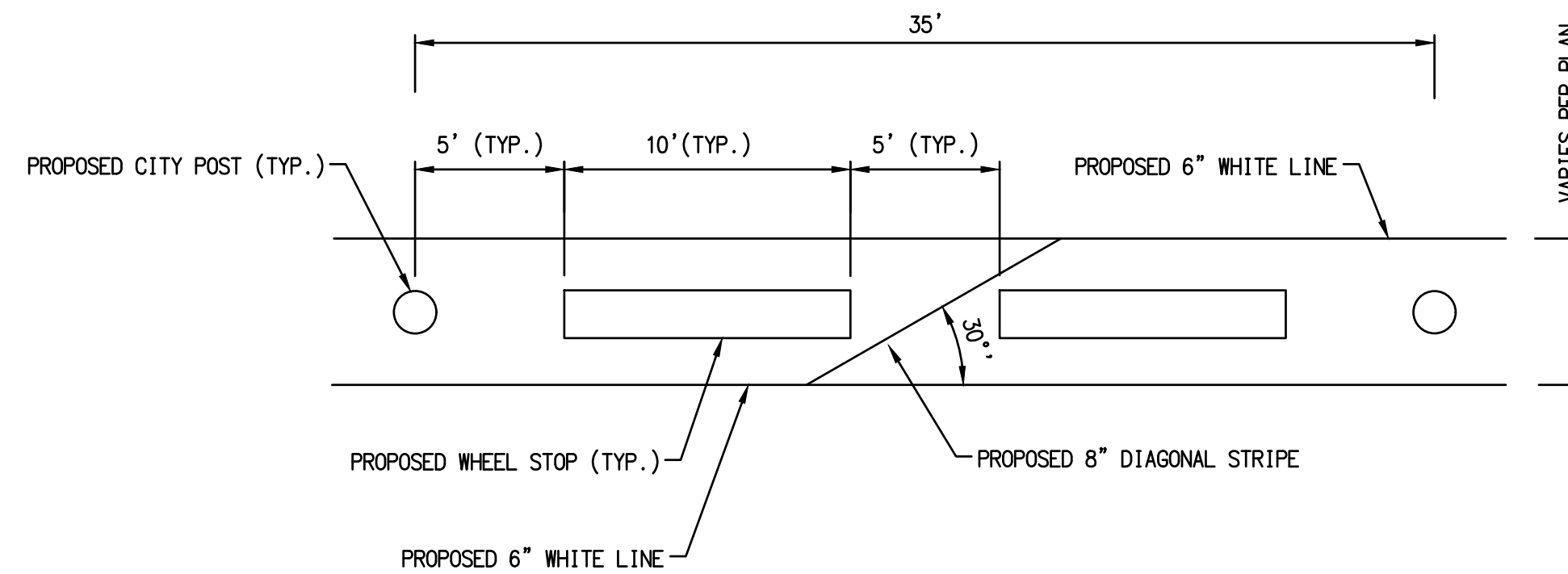
- NOTES:
- GREEN PAINT SHALL BE ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLEX REFLECTIVE GLASS BEADS.
 - ANGLE HATCHING FOR BUFFERED BIKE LANES SHALL BE 8" WIDE, AT A 30° ANGLE, AND SPACED AT 35 FEET ON CENTER.

- NOTES:
- CONTINENTAL CROSSWALK MARKINGS SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF VEHICULAR TRAVEL.



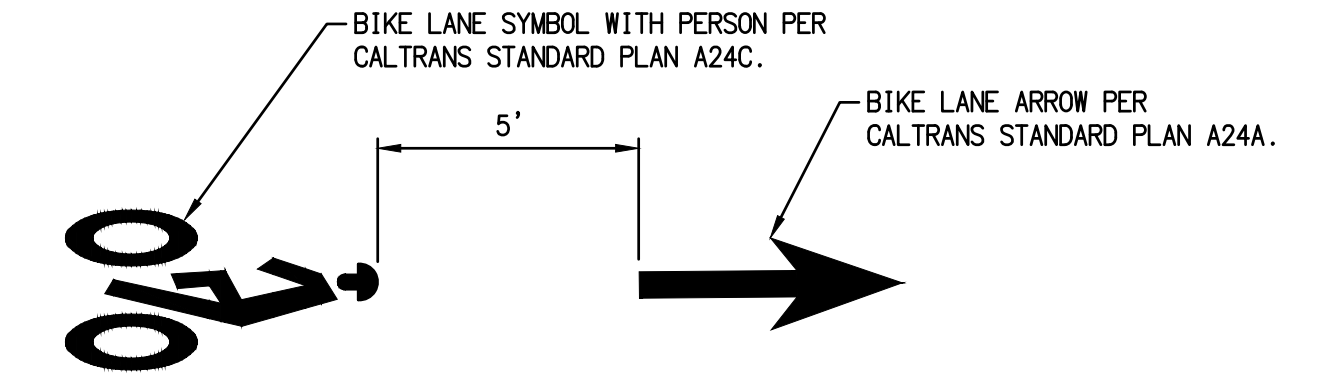
DETAIL "C"
ASPHALT WHEEL STOP
NOT TO SCALE

- NOTES:
- WHEEL STOPS SHALL BE PG-70-10 GRADE ASPHALT.
 - WHEEL STOPS SHALL BE 10' IN LENGTH.
 - CONTRACTOR SHALL ENSURE THERE IS A SECURE BOND BETWEEN WHEEL STOP AND AC PAVEMENT.
 - SHAPE AND COMPACT WHEEL STOPS WITH AN EXTRUSION MACHINE OR OTHER EQUIPMENT CAPABLE OF SHAPING AND COMPACTING THE MATERIAL TO REQUIRED CROSS-SECTION.



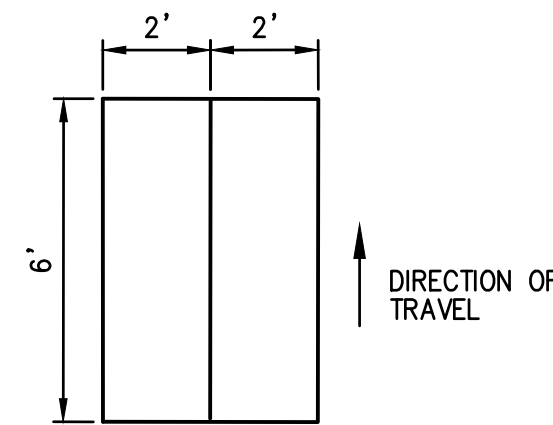
DETAIL "D"
PROTECTED BIKE LANE BUFFER
NOT TO SCALE

- NOTES:
- BOLLARD AND WHEEL STOP SHALL BE INSTALLED IN CENTER OF BUFFER UNLESS OTHERWISE SHOWN ON PLANS.
 - WHEEL STOPS SHALL BE PAINTED PER DETAIL G.



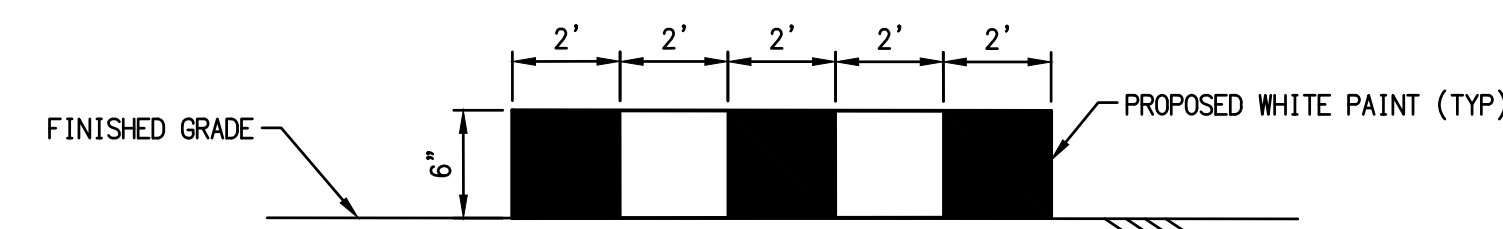
DETAIL "E"
BIKE LANE MARKINGS
NOT TO SCALE

- NOTES:
- PAVEMENT MARKINGS SHALL BE CENTERED IN BIKE LANE.

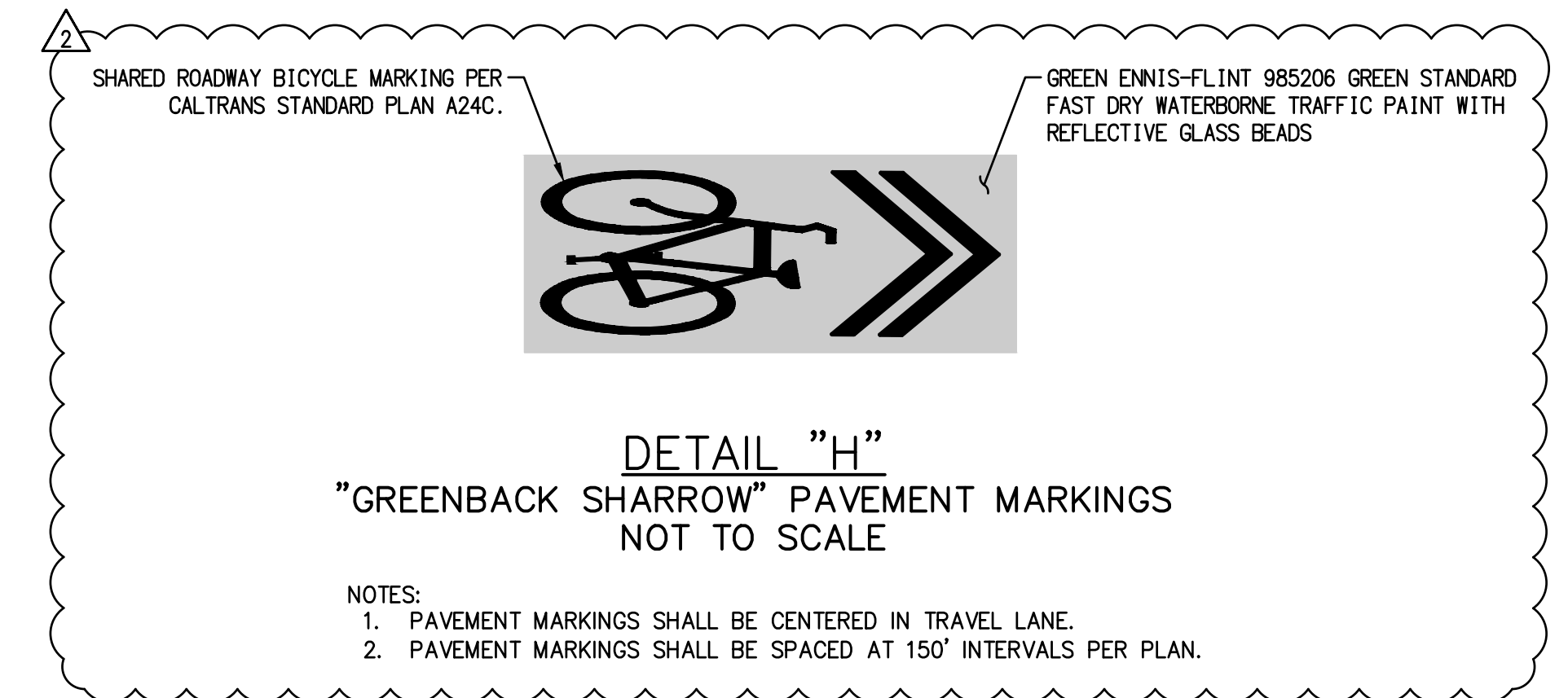


- NOTE:
- FOR WINDING AND SAW CUT INFORMATION SEE CALTRANS STANDARD PLAN ES-5B.
 - LOOP PLACEMENT SHALL BE 44' BEFORE LIMIT LINE.

DETAIL "F"
MODIFIED TYPE Q BICYCLE DETECTOR
NOT TO SCALE



DETAIL "G"
WHEEL STOP PAINT
NOT TO SCALE



DETAIL "H"
"GREENBACK SHARROW" PAVEMENT MARKINGS
NOT TO SCALE

- NOTES:
- PAVEMENT MARKINGS SHALL BE CENTERED IN TRAVEL LANE.
 - PAVEMENT MARKINGS SHALL BE SPACED AT 150' INTERVALS PER PLAN.



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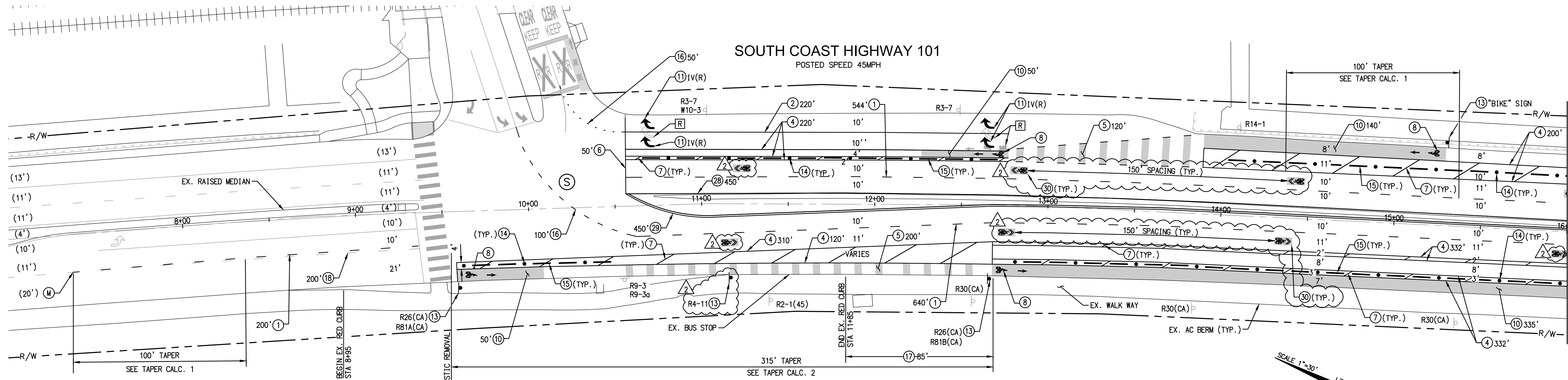
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5865 AVENIDA ENCINAS, #142B
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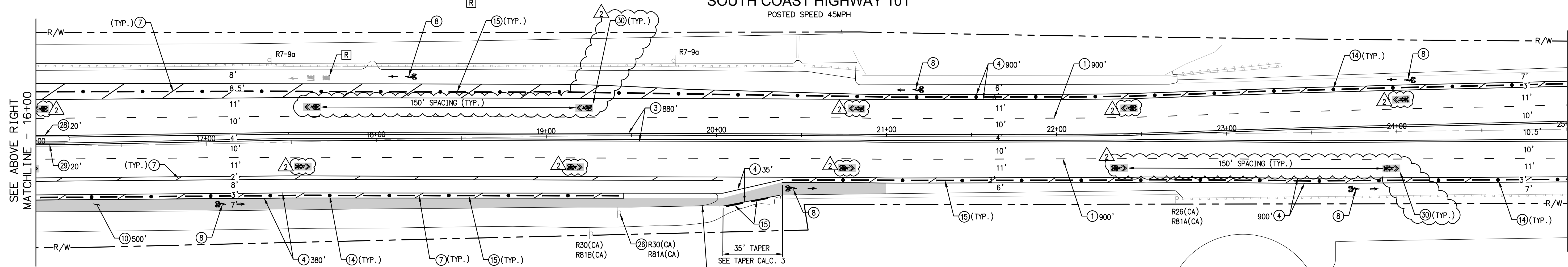
PLANS PREPARED UNDER SUPERVISION OF
Nicolas M. Mincilli
NICOLAS M. MINCILLI
NO. 74667
EXP. 12-31-2021

CHESTERFIELD DR

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH



SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH



CONSTRUCTION NOTES

- 1) APPLY 4" WHITE LINE PER CAMUTCO, DETAIL 9.
- 2) APPLY 8" WHITE CHANNELIZING LINE PER CAMUTCO, DETAIL 38.
- 3) APPLY 4" DOUBLE YELLOW LINES PER CAMUTCO, DETAIL 29.
- 4) APPLY 6" WHITE BIKE LANE LINE PER CAMUTCO, DETAIL 39.
- 5) INSTALL CONFLICT ZONE STRIPING WITH 6" WHITE BIKE LANE LINE PER CAMUTCO, DETAIL 39A AND GREEN PAINT. SEE DETAIL "A" ON SHEET 3.
- 6) APPLY 12" THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- 7) APPLY 8" WHITE 30° DIAGONAL STRIPE AT 35' O.C.
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- 10) APPLY GREEN ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLECTIVE GLASS BEADS.
- 11) INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW PER CALTRANS STANDARD PLAN A24A, ARROW TYPE PER PLAN.
- 13) INSTALL NEW SIGN AND POST PER PLAN. SIGN SHALL HAVE A MINIMUM OF 7' ABOVE FINISHED SURFACE.
- 14) FURNISH AND INSTALL 28" TAPCO CITY POST PER DETAIL "D" ON SHEET 3.
- 15) INSTALL 10' ASPHALT WHEEL STOP PER DETAIL "C" ON SHEET 3.
- 16) APPLY 4" WHITE LINE PER CAMUTCO, DETAIL 40.
- 17) PAINT CURB RED.
- 18) REMOVE EXISTING STRIPING.
- 26) REMOVE EXISTING SIGN AND POST.
- 28) APPLY 4" YELLOW LINE PER CAMUTCO, DETAIL 25.
- 29) APPLY 4" DOUBLE YELLOW LINES PER CAMUTCO, DETAIL 27.
- 30) APPLY "GREENBACK" SHARED LANE MARKING LANE PER DETAIL "H" ON SHEET 3. MARKINGS SHALL BE CENTERED IN TRAVEL LANE AND SPACED AT 150' INTERVALS.
- M) MATCH EXISTING.

REMOVAL NOTES

- R) REMOVE EXISTING THERMOPLASTIC STRIPING OR PAVEMENT MARKING BY METHOD OF GRINDING.

TAPER LENGTH CALCULATIONS:

1. MIN. TAPER = $L = (1') \times (45) = 45' \rightarrow 100'$
 2. MIN. TAPER = $L = (7') \times (45) = 315'$
 3. MIN. BIKE TAPER = $L/3 = (10') \times (35)^2/2/60 / 2 = 35'$
- L = LENGTH OF TRANSITION FOR SPEEDS GREATER THAN 40 MPH
 W = OFFSET
 S = DESIGN SPEED

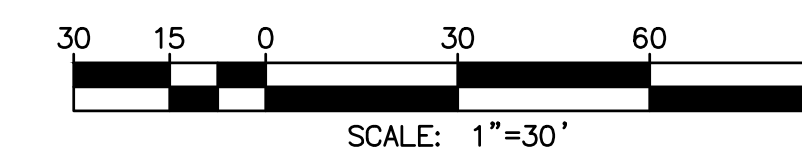
SIGN LEGEND

EXISTING

R2-1 (24 X 30)	R3-7 (30 X 30)	R7-9a (12 X 18)	R9-3 (18 X 18)	R9-3a (12 X 18)	R14-1 (24 X 18)	R26(CA) (12 X 18)	R30(CA) (12 X 18)	R81A(CA) (12 X 5)	R81B(CA) (8 X 5)	W10-3 (36 X 36)

PROPOSED

R4-11 (30 X 30)	R26(CA) (12 X 18)	R81A(CA) (12 X 5)	R81B(CA) (8 X 5)	"BIKE" SIGN (30 X 48)



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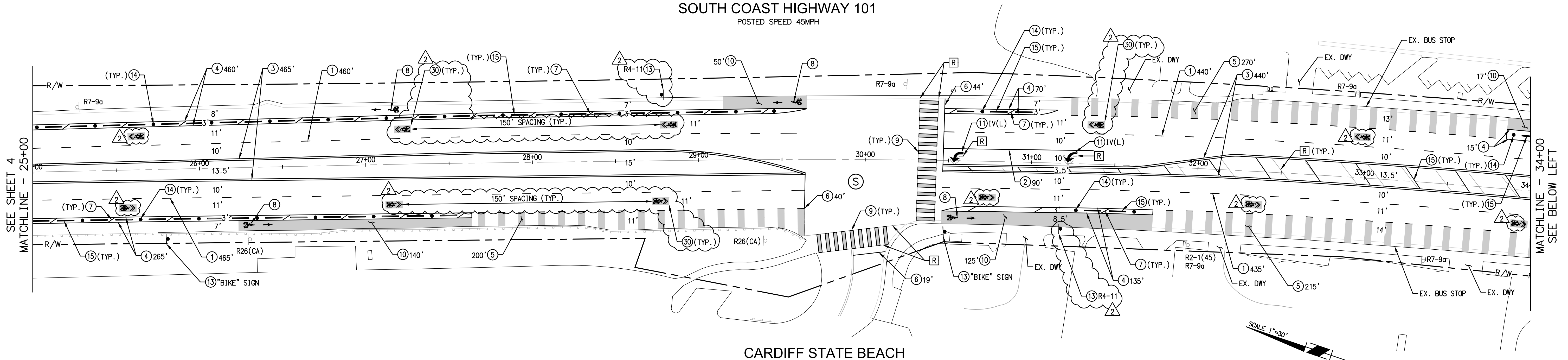
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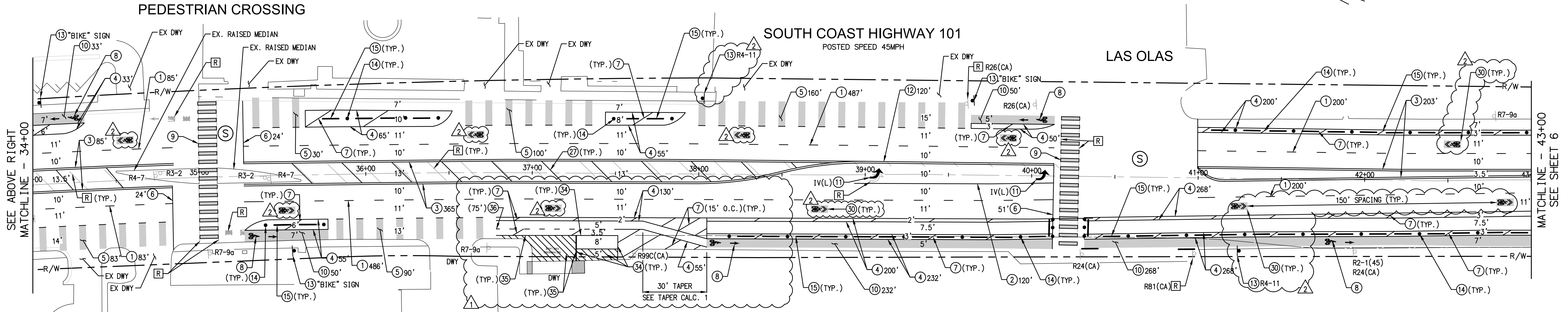
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 NICOLAS M. MINCILLI
 DATE: 11-05-2019
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BY: _____ DATE: _____
 BY: _____ DATE: _____
 R.C.E. NO.: _____ R.C.E. NO.: _____

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH



CARDIFF STATE BEACH



PEDESTRIAN CROSSING

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

LAS OLAS

CONSTRUCTION NOTES

- 1) APPLY 4" WHITE LINE PER CAMUTCD, DETAIL 9.
- 2) APPLY 8" WHITE CHANNELIZING LINE PER CAMUTCD, DETAIL 38.
- 3) APPLY 4" DOUBLE YELLOW LINES PER CAMUTCD, DETAIL 29.
- 4) APPLY 6" WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39.
- 5) INSTALL CONFLICT ZONE STRIPING WITH 6" WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39A AND GREEN PAINT. SEE DETAIL "A" ON SHEET 3.
- 6) APPLY 12" THERMOPLASTIC WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- 7) APPLY 8" WHITE 30° DIAGONAL STRIPE. STRIPES SHALL BE SPACED AT 35' O.C. UNLESS OTHERWISE NOTED ON PLAN.
- 8) INSTALL THERMOPLASTIC PAVEMENT MARKING SYMBOL AND ARROW PER CALTRANS STANDARD PLANS AND DETAIL E ON SHEET 3.
- 9) INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER DETAIL "B" ON SHEET 3.
- 10) APPLY GREEN ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLECTIVE GLASS BEADS.
- 11) INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW PER CALTRANS STANDARD PLAN A24A, ARROW TYPE PER PLAN.
- 12) APPLY 4" DOUBLE YELLOW NO PASSING ZONE LINES PER CAMUTCD, DETAIL 22.
- 13) INSTALL NEW SIGN AND POST PER PLAN. SIGN SHALL HAVE A MINIMUM OF 7' ABOVE FINISHED SURFACE.
- 14) FURNISH AND INSTALL 28" TAPCO CITY POST PER DETAIL "D" ON SHEET 3.
- 15) INSTALL 10" ASPHALT WHEEL STOP PER DETAIL "C" ON SHEET 3.
- 16) APPLY 8" YELLOW 30° DIAGONAL STRIPE AT 35' O.C.
- 17) APPLY "GREENBACK" SHARED LANE MARKING LANE PER DETAIL "H" ON SHEET 3. MARKINGS SHALL BE CENTERED IN TRAVEL LANE AND SPACED AT 150' INTERVALS.
- 18) APPLY 4" BLUE DISABLE PERSONS PARKING LINE PER CAMUTCD FIGURE 3B-22(CA). DIAGONAL LINES SHALL BE SPACED 3" MAX O.C. AT 45 DEGREES. PARKING STALL SHALL BE 25'X8'.
- 19) APPLY 4" RED LINES. DIAGONAL LINES SHALL BE 3" MAX O.C. AT 45°. CONTRACTOR SHALL APPLY "NO PARKING FIRE LANE" LEGEND CENTERED IN FIRE LANE AREA.
- 20) APPLY 6" DASHED WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39A.

REMOVAL NOTES

- R REMOVE EXISTING THERMOPLASTIC STRIPING OR PAVEMENT MARKING BY METHOD OF GRINDING.
- S REMOVE EXISTING SIGN AND POST COMPLETE.

TAPER LENGTH CALCULATIONS:


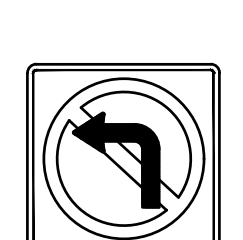
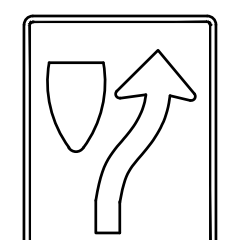

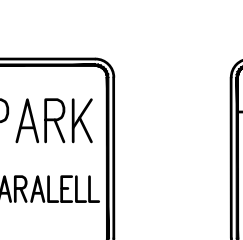
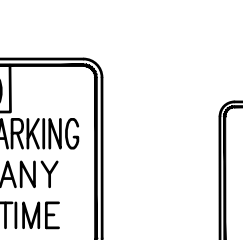


MIN. BIKE TAPER = $L/3 = (8') \times (35')^2 / 260 / 2 = 28' \rightarrow 30'$

$L = \text{LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS}$
 $= \frac{W \times S^2}{60}$


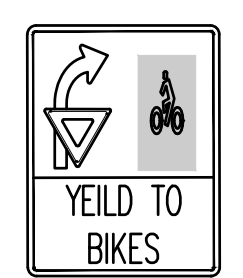
W = OFFSET
S = DESIGN SPEED

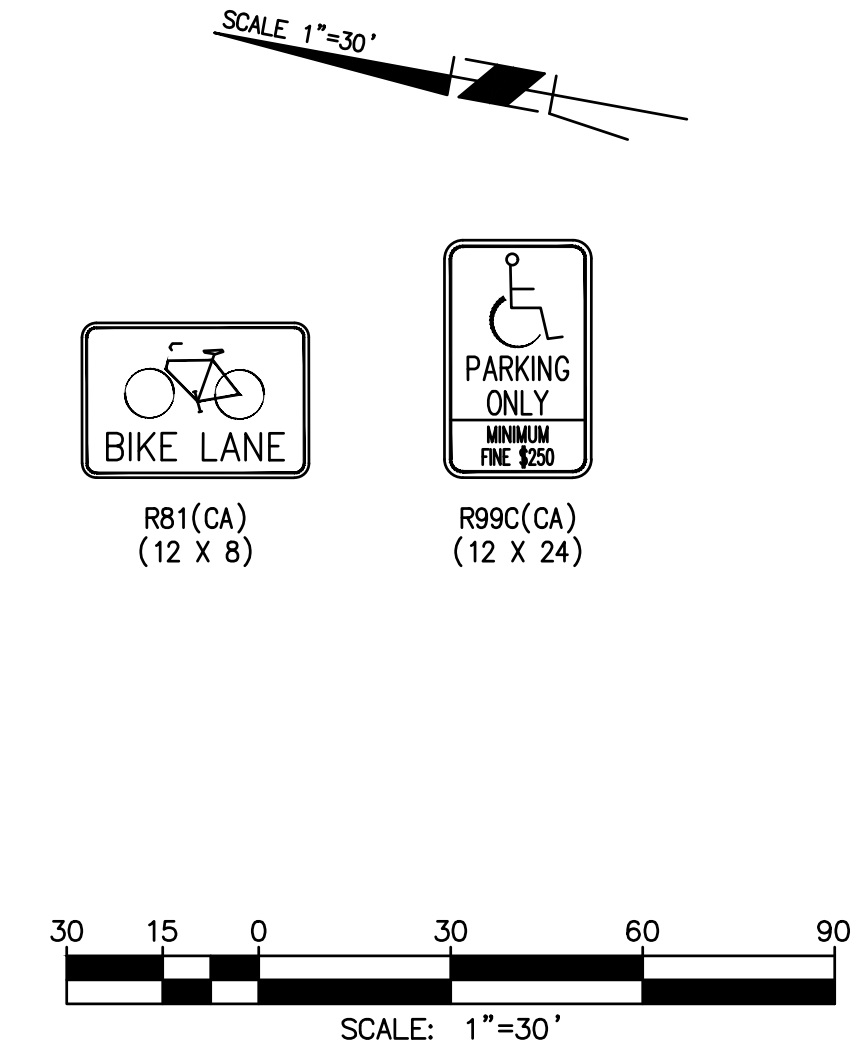
SIGN LEGEND

EXISTING

							
R2-1 (24 X 30)	R3-2 (24 X 24)	R4-7 (24 X 30)	R7-9a (12 X 18)	R24(CA) (12 X 18)	R26(CA) (12 X 18)	R81(CA) (12 X 8)	R99C(CA) (12 X 24)

PROPOSED

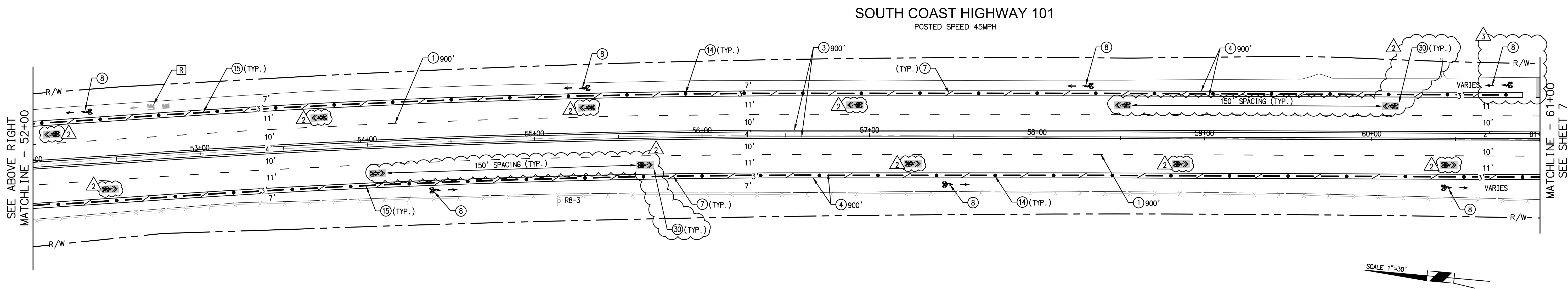
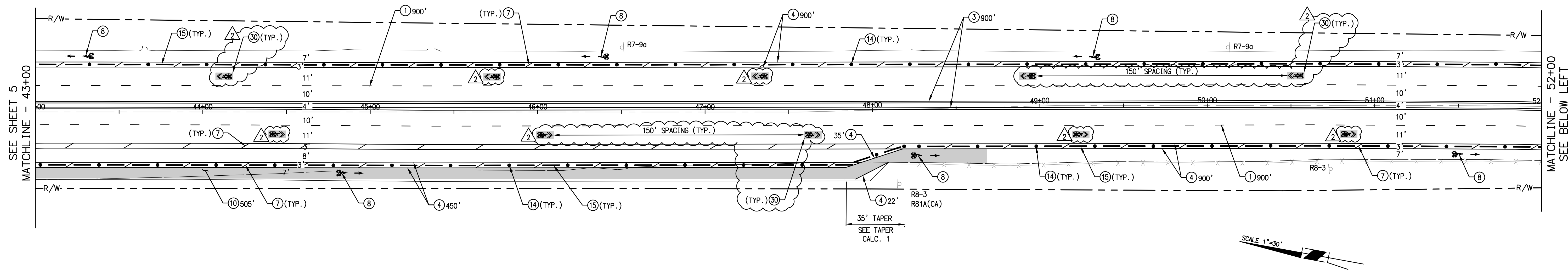
	
R4-11 (30 X 30)	"BIKE" SIGN (30 X 48)



Underground Service Alert
Dig Alert
CALL BEFORE YOU DIG
CALL TOLL FREE
811

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
STRIPING, SLURRY SEAL, SAND RETENTION. SHARROWS AND R4-11.		2019-11-15 2020-02-07				HORIZONTAL N/A VERTICAL N/A	CL	JB	NM	RECOMMENDED APPROVED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS SIGNING AND STRIPING PLAN	CS-20E

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH



CONSTRUCTION NOTES

- 1 APPLY 4" WHITE LINE PER CAMUTCD, DETAIL 9.
- 3 APPLY 4" DOUBLE YELLOW LINES PER CAMUTCD, DETAIL 29.
- 4 APPLY 6" WHITE BIKE LANE LINE PER CAMUTCD, DETAIL 39.
- 7 APPLY 8" WHITE 30° DIAGONAL STRIPE AT 35' O.C.
- 8 INSTALL THERMOPLASTIC PAVEMENT MARKING SYMBOL AND ARROW PER CALTRANS STANDARD PLANS AND DETAIL E ON SHEET 3.
- 10 APPLY GREEN ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLECTIVE GLASS BEADS.
- 14 FURNISH AND INSTALL 28" TAPCO CITY POST PER DETAIL "D" ON SHEET 3.
- 15 INSTALL 10" ASPHALT WHEEL STOP PER DETAIL "C" ON SHEET 3.
- 30 APPLY "GREENBACK" SHARED LANE MARKING LANE PER DETAIL "H" ON SHEET 3. MARKINGS SHALL BE CENTERED IN TRAVEL LANE AND SPACED AT 150' INTERVALS.

REMOVAL NOTES

- R REMOVE EXISTING THERMOPLASTIC STRIPING OR PAVEMENT MARKING BY METHOD OF GRINDING.

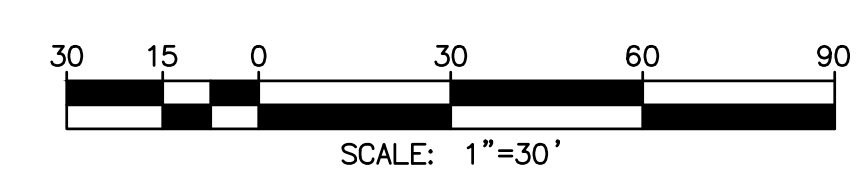
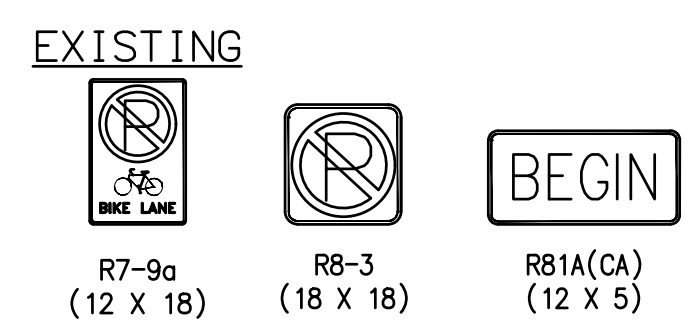
TAPER LENGTH CALCULATIONS:

1. MIN. BIKE TAPER = $L/3 = (10') \times (35)^2 / 60^2 / 2 = 35'$

$L = \text{LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS}$
 $= W \times S^2 / 2$
 60

W = OFFSET
 S = DESIGN SPEED

SIGN LEGEND

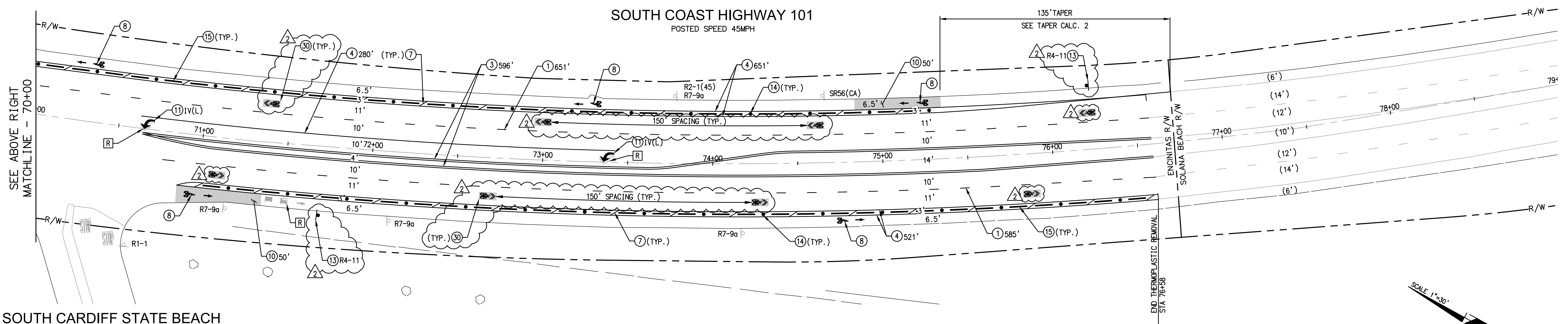
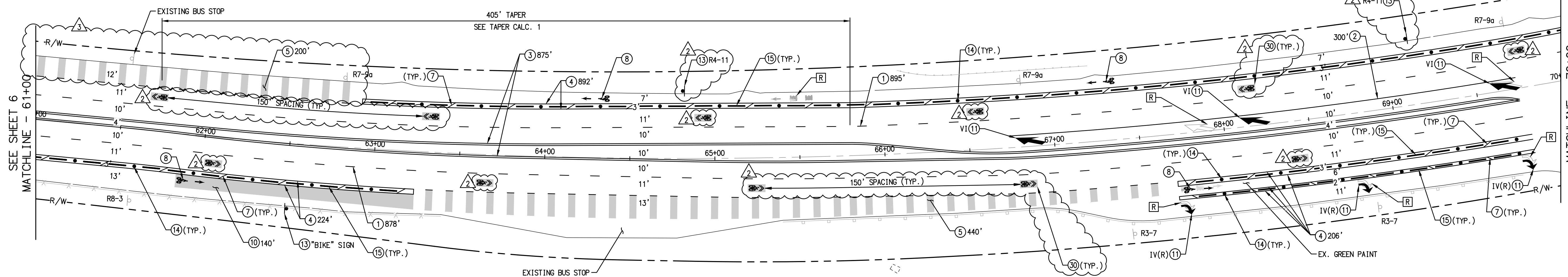


Underground Service Alert
 Dig Alert
 CALL BEFORE YOU DIG
 CALL TOLL FREE
 811
YOU WORKING SAFELY BEFORE YOU DIG

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15				HORIZONTAL N/A	CL	TB	NM	RECOMMENDED	APPROVED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS SIGNING AND STRIPING PLAN	CS-20E
SHARROWS AND R4-11.		2020-02-07				VERTICAL N/A			BY: _____	BY: _____	SHEET 6 OF 12		
BUS STOP CONFLICT STRIPING.		2020-02-07							DATE: 11-05-2019	DATE: _____			

Apr 15, 2020 - 5:28pm T:\Projects\Encinitas\17.0525_101_Coast 101_Buffered Green Bike Lanes\07_Engineering\CADD\DWG\###_DIV_06_SS.dwg

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH



SOUTH CARDIFF STATE BEACH

CONSTRUCTION NOTES

- 1) APPLY 4" WHITE LINE PER CAMUTOD, DETAIL 9.
- 2) APPLY 8" WHITE CHANNELIZING LINE PER CAMUTOD, DETAIL 38.
- 3) APPLY 4" DOUBLE YELLOW LINES PER CAMUTOD, DETAIL 29.
- 4) APPLY 6" WHITE BIKE LANE LINE PER CAMUTOD, DETAIL 39.
- 5) INSTALL CONFLICT ZONE STRIPING WITH 6" WHITE BIKE LANE LINE PER CAMUTOD, DETAIL 39A AND GREEN PAINT. SEE DETAIL "A" ON SHEET 3.
- 6) APPLY 8" WHITE 30° DIAGONAL STRIPE AT 35' O.C.
- 7) INSTALL THERMOPLASTIC PAVEMENT MARKING SYMBOL AND ARROW PER CALTRANS STANDARD PLANS AND DETAIL E ON SHEET 3.
- 8) APPLY GREEN ENNIS-FLINT 985206 GREEN STANDARD FAST DRY WATERBORNE TRAFFIC PAINT WITH REFLECTIVE GLASS BEADS.
- 9) INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW PER CALTRANS STANDARD PLAN A24A, ARROW TYPE PER PLAN.
- 10) INSTALL NEW SIGN AND POST PER PLAN. SIGN SHALL HAVE A MINIMUM OF 7' ABOVE FINISHED SURFACE.
- 11) FURNISH AND INSTALL 28" TAPCO CITY POST PER DETAIL "D" ON SHEET 3.
- 12) INSTALL 10" ASPHALT WHEEL STOP PER DETAIL "C" ON SHEET 3.
- 13) APPLY "GREENBACK" SHARED LANE MARKING LANE PER DETAIL "H" ON SHEET 3. MARKINGS SHALL BE CENTERED IN TRAVEL LANE AND SPACED AT 150' INTERVALS.
- 14) MATCH EXISTING.

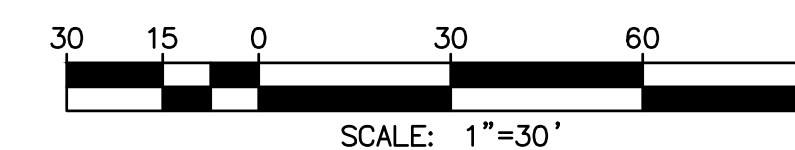
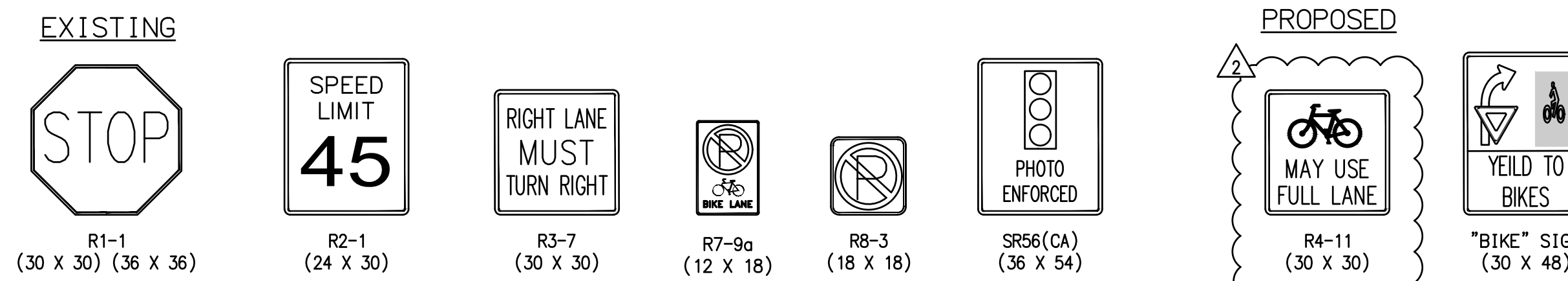
REMOVAL NOTES

- R) REMOVE EXISTING THERMOPLASTIC STRIPING OR PAVEMENT MARKING BY METHOD OF GRINDING.

TAPER LENGTH CALCULATIONS:

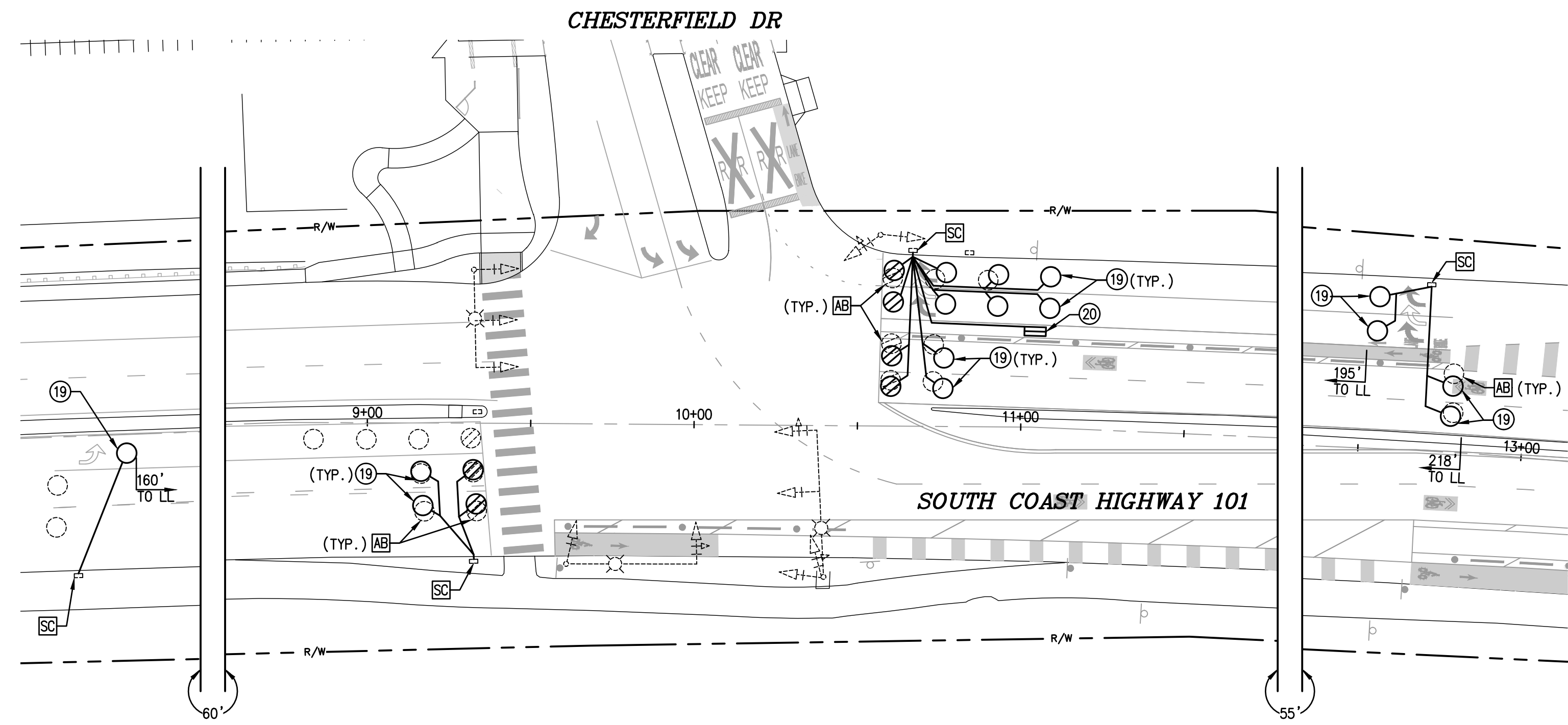
1. MIN. TAPER = L = (9') X (45) = 405'
 2. MIN. TAPER = L = (3') X (45) = 135'
 - 3.
- L = LENGTH OF TRANSITION FOR SPEEDS GREATER THAN 40 MPH
= W X S
- W = OFFSET
S = DESIGN SPEED

SIGN LEGEND

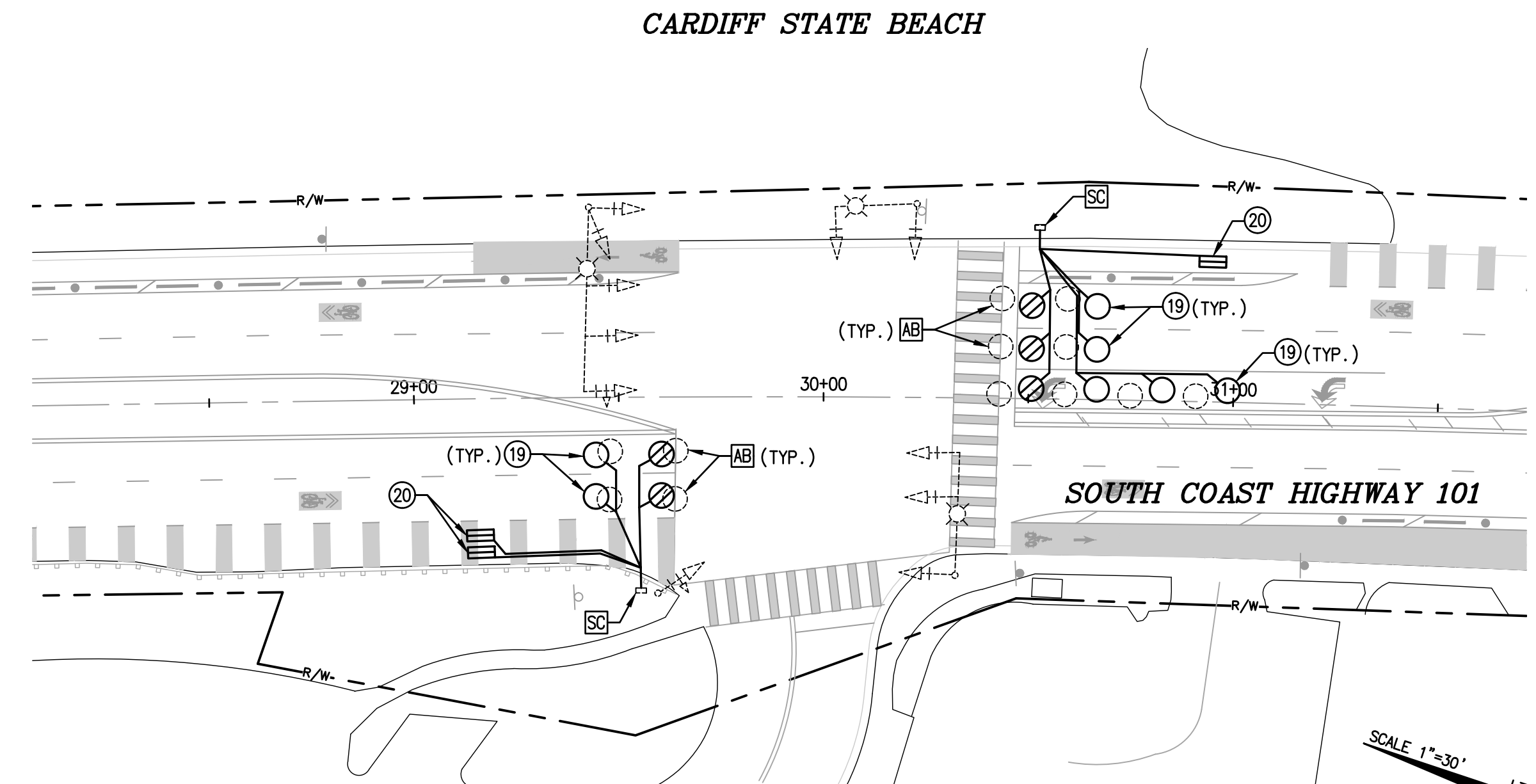
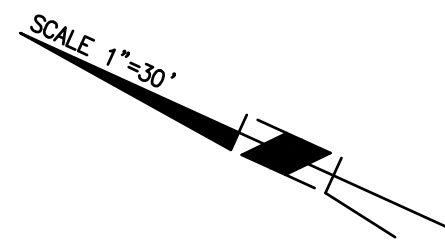


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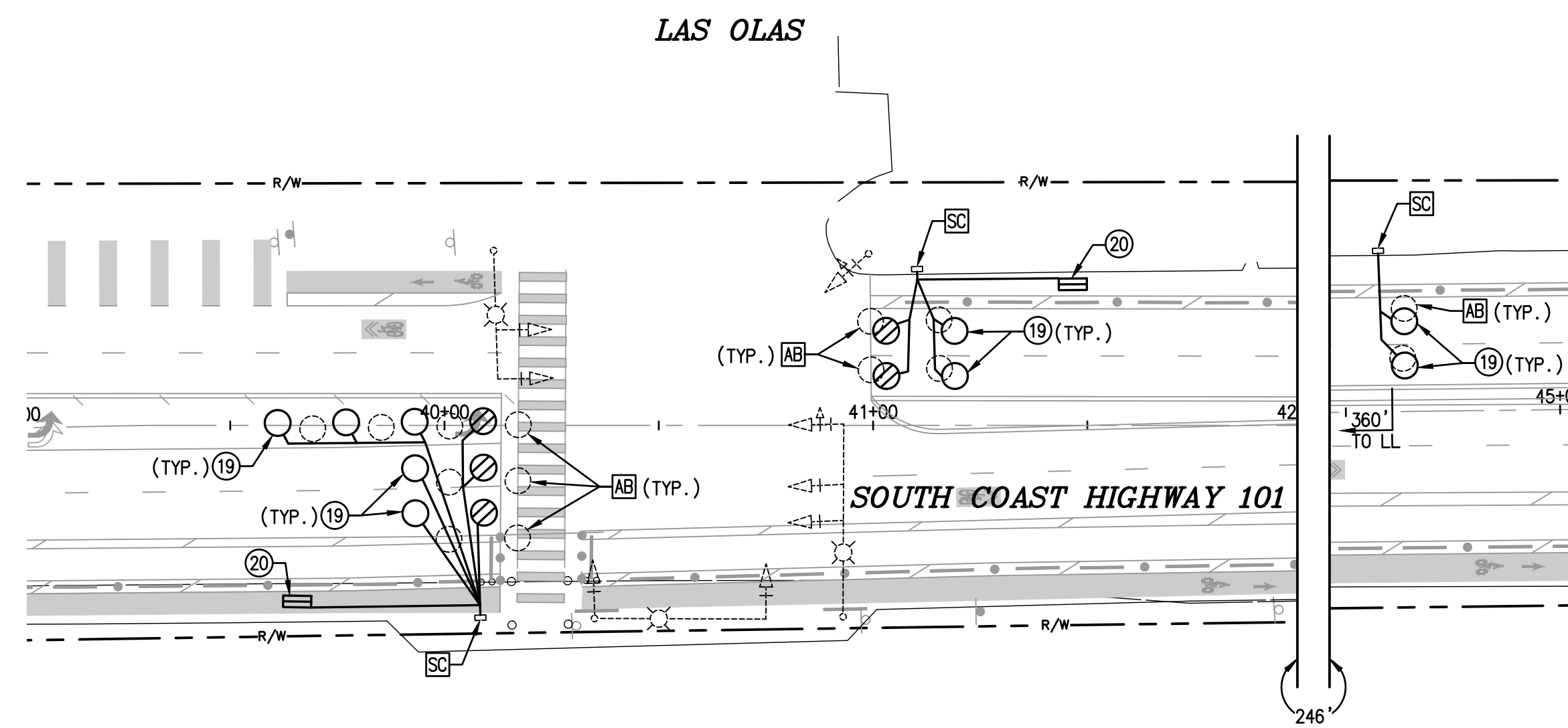
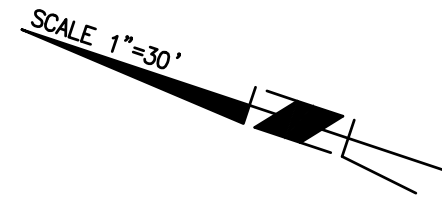
REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15					CL	TB	NM	RECOMMENDED	APPROVED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS SIGNING AND STRIPING PLAN	CS-20E
SHARROWS AND R4-11.		2020-02-07				HORIZONTAL N/A				BY: _____	BY: _____		
BUS STOP CONFLICT STRIPING.		2020-02-07				VERTICAL N/A				DATE: _____	DATE: _____		
							5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRAFFIC.COM	PLANS PREPARED UNDER SUPERVISION OF <i>Nicolas M. Mincicilli</i> NICOLAS M. MINCICILLI	DATE: 11-05-2019 R.C.E. NO. 74667 EXP. 12-31-2021	BY: _____ DATE: _____ R.C.E. NO.: _____	BY: _____ DATE: _____ R.C.E. NO.: _____		SHEET 7 OF 12



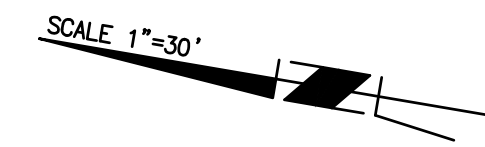
SOUTH COAST HIGHWAY 101 & CHESTERFIELD DR.



SOUTH COAST HIGHWAY 101 & CARDIFF STATE BEACH

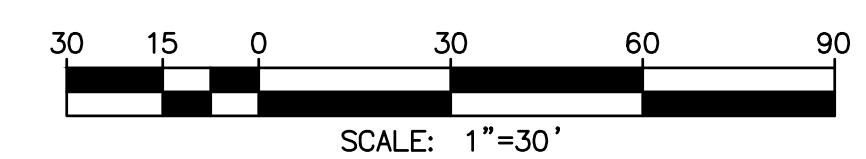


SOUTH COAST HIGHWAY 101 & LAS OLAS



CONSTRUCTION NOTES

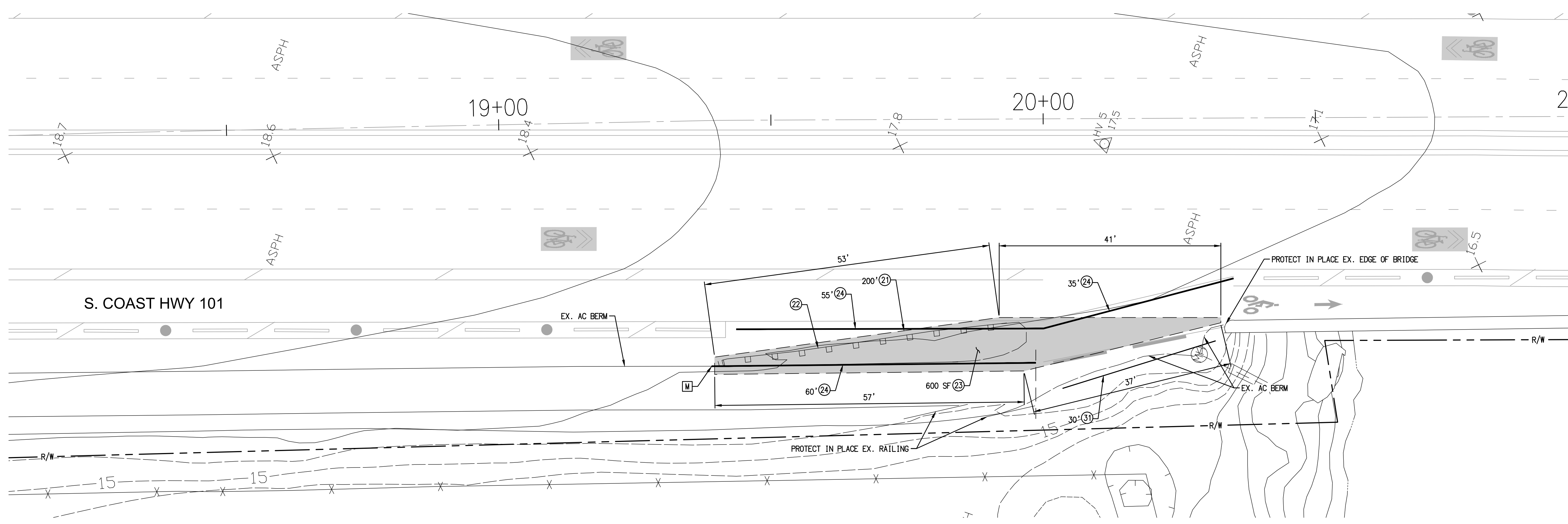
- 19 FURNISH AND INSTALL TYPE E VEHICLE DETECTOR LOOP PER 2018 CALTRANS RSP ES-SB. REFRESH EXISTING PAVEMENT MARKINGS AS NECESSARY PER SIGNING AND STRIPING PLANS. LIMIT LINE DETECTOR LOOPS SHALL BE TYPE F.
- 20 FURNISH AND INSTALL 4'X 6' MODIFIED TYPE Q BICYCLE DETECTOR PER 2018 CALTRANS RSP ES-SB, SIZE LOOP PER DETAIL "F" ON SHEET 3. FURNISH AND INSTALL NEW DETECTOR CARDS IN CABINET AS NECESSARY. FURNISH AND INSTALL NEW DLC TO TRAFFIC SIGNAL CABINET. REFRESH EXISTING PAVEMENT MARKINGS AS NECESSARY PER SIGNING AND STRIPING PLANS.



REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.		
STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15				HORIZONTAL N/A	CL	TB	NM	RECOMMENDED	CITY OF ENCINITAS ENGINEERING DEPARTMENT	CS-20E		
SHARROWS AND R4-11.		2020-02-07				VERTICAL N/A				APPROVED	CITY OF ENCINITAS ENGINEERING DEPARTMENT			
							5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRAFFIC.COM			PLANS PREPARED UNDER SUPERVISION OF <i>Nicolas M. Mincilli</i> NICOLAS M. MINCILLI DATE: 11-05-2019 R.C.E. NO. 74667 EXP. 12-31-2021		PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS TRAFFIC SIGNAL PLAN		SHEET 8 OF 12

Feb 07, 2020 - 3:21pm T:\Projects\Encinitas\17.0525_ As-Needed Civil Engineering\0525.0014_Coast 101_Buffered Green Bike Lanes\07_Engineering\CADD\DLV\###_DLV_08_15.dwg
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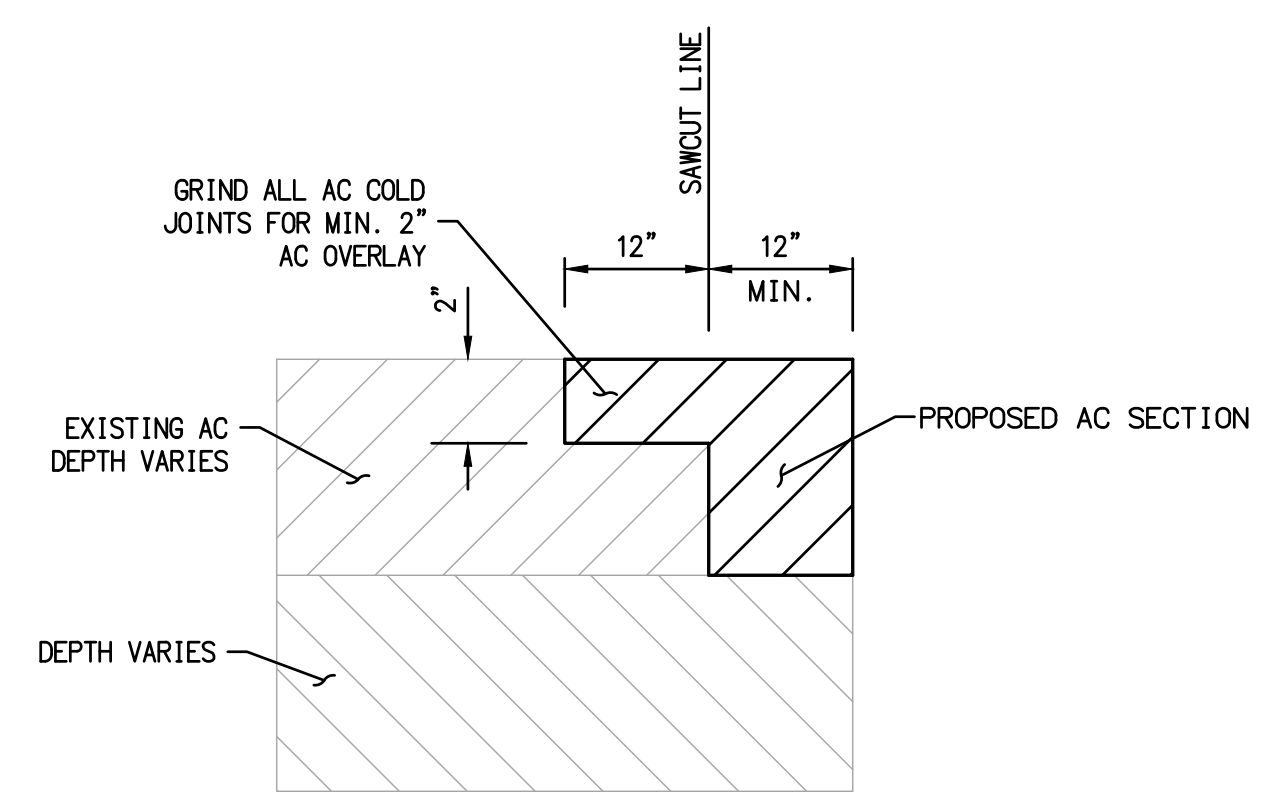
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LEGEND

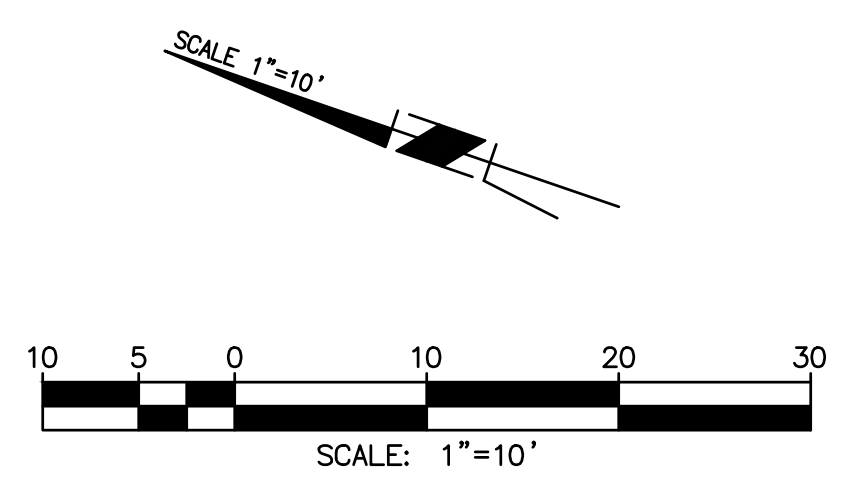
AC REMOVAL AND CONSTRUCTION

SAWCUT



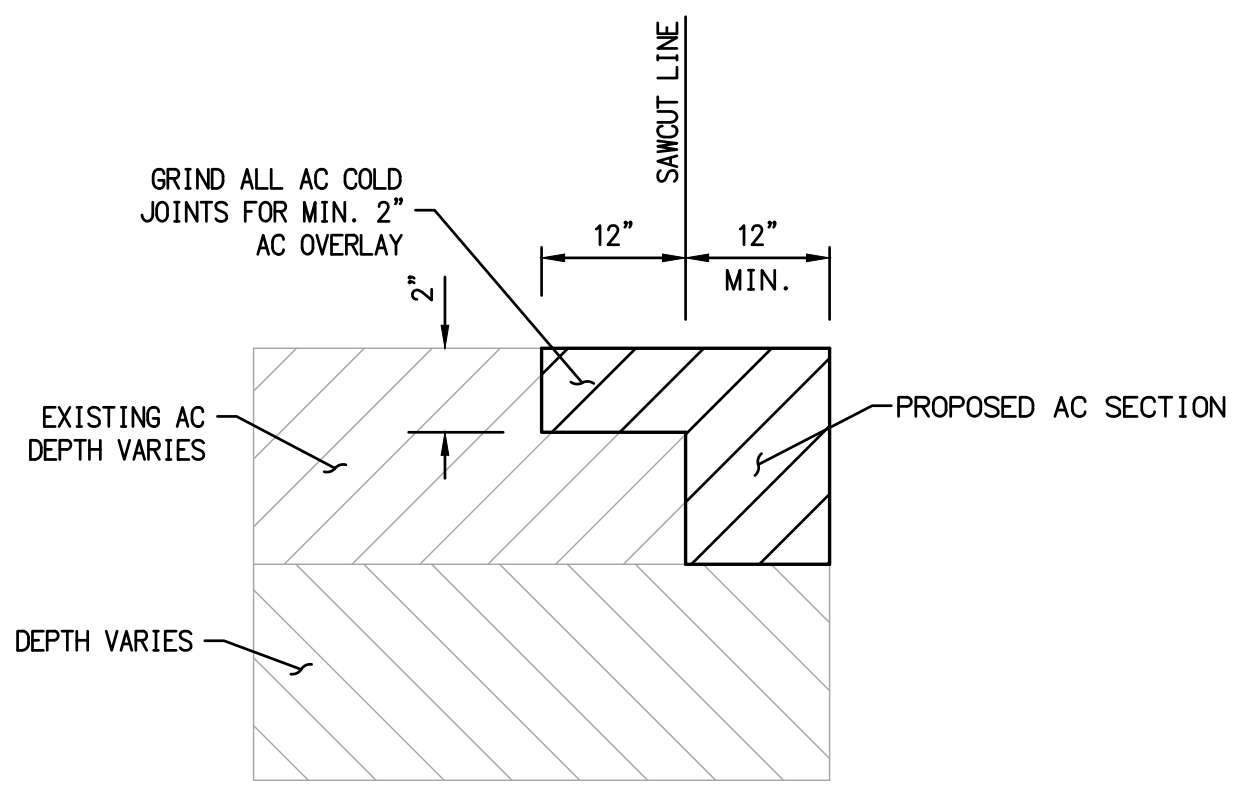
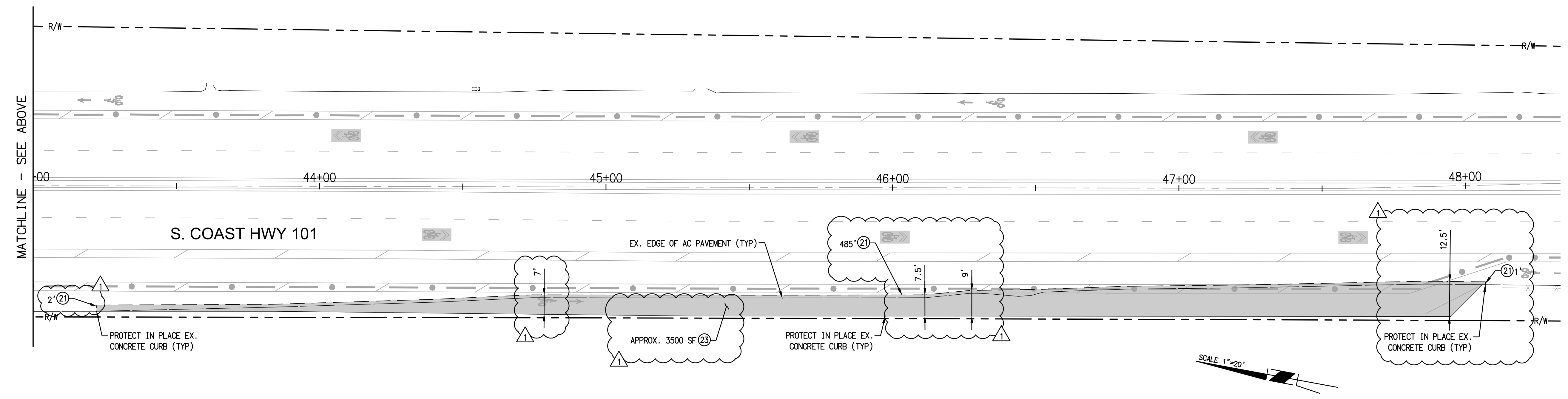
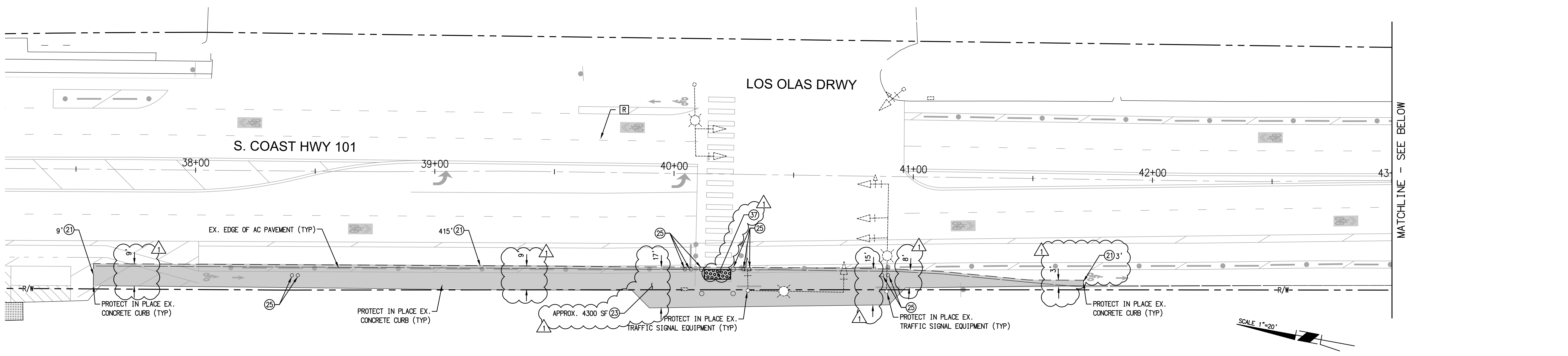
DETAIL "I"
AC PAVEMENT JOINT
NOT TO SCALE

- CONSTRUCTION NOTES**
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES AND STRUCTURES, AND SHALL BE RESPONSIBLE FOR REPLACEMENT SHOULD ANY DAMAGE OCCUR.
- CONSTRUCTION NOTES**
- SAWCUT EX. PAVEMENT PER DETAIL "I" ON THIS SHEET.
 - REMOVE EXISTING GUARDRAIL COMPLETE.
 - REMOVE EXISTING AC PAVEMENT COMPLETE. CONSTRUCT AC PAVEMENT AND TYPE 2 AGGREGATE BASE. MATCH EXISTING ROADWAY SECTION IN KIND.
 - CONSTRUCT "TYPE A" 6" AC BERM PER SDRSD G-05. ADD 2' CUTOUTS EVERY 15' FOR DRAINAGE. PAINT 2' WHITE STRIPES EVERY 4'.
 - FURNISH AND INSTALL PROTECTIVE RAILING PER SDRSD DRAWING NO. M-24. RAILING SHALL BE PIPE GUARDRAIL-POST TYPE AND INTERMEDIATE RAILS SHALL BE SPACED AT 4 INCHES. POSTS SHALL BE DRILLED INTO EXISTING AC BERM AND GROUTED IN PLACE.
 - MATCH EXISTING AC BERM.



REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
STRIPING, SLURRY SEAL, SAND RETENTION, SHARROWS AND R4-11.		2019-11-15 2020-02-07				HORIZONTAL N/A VERTICAL N/A	CL	TB	NM	RECOMMENDED BY: _____ DATE: _____ R.C.E. NO.: 74667	APPROVED BY: _____ DATE: _____ R.C.E. NO.: _____	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS STREET IMPROVEMENT PLAN	CS-20E
							5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRAFFIC.COM	PLANS PREPARED UNDER SUPERVISION OF <i>Nicolas M. Mincilli</i> NICOLAS M. MINCILLI			SHEET 9 OF 12		

Feb 07, 2020 - 3:22pm T:\Projects\Encinitas\17.0525_ As-Needed Civil Engineering\0525.0014_Coast 101 Bufferred Green Bike Lanes\07_Engineering\CADD\DWG\###_DIV_10_ST.dwg
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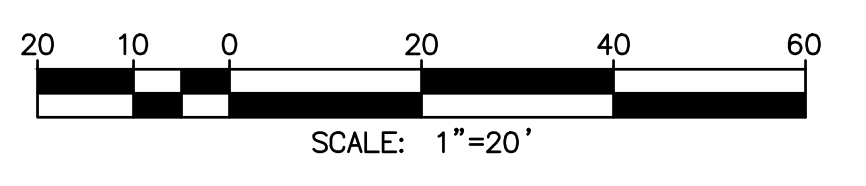


DETAIL "1"
AC PAVEMENT JOINT
NOT TO SCALE

LEGEND

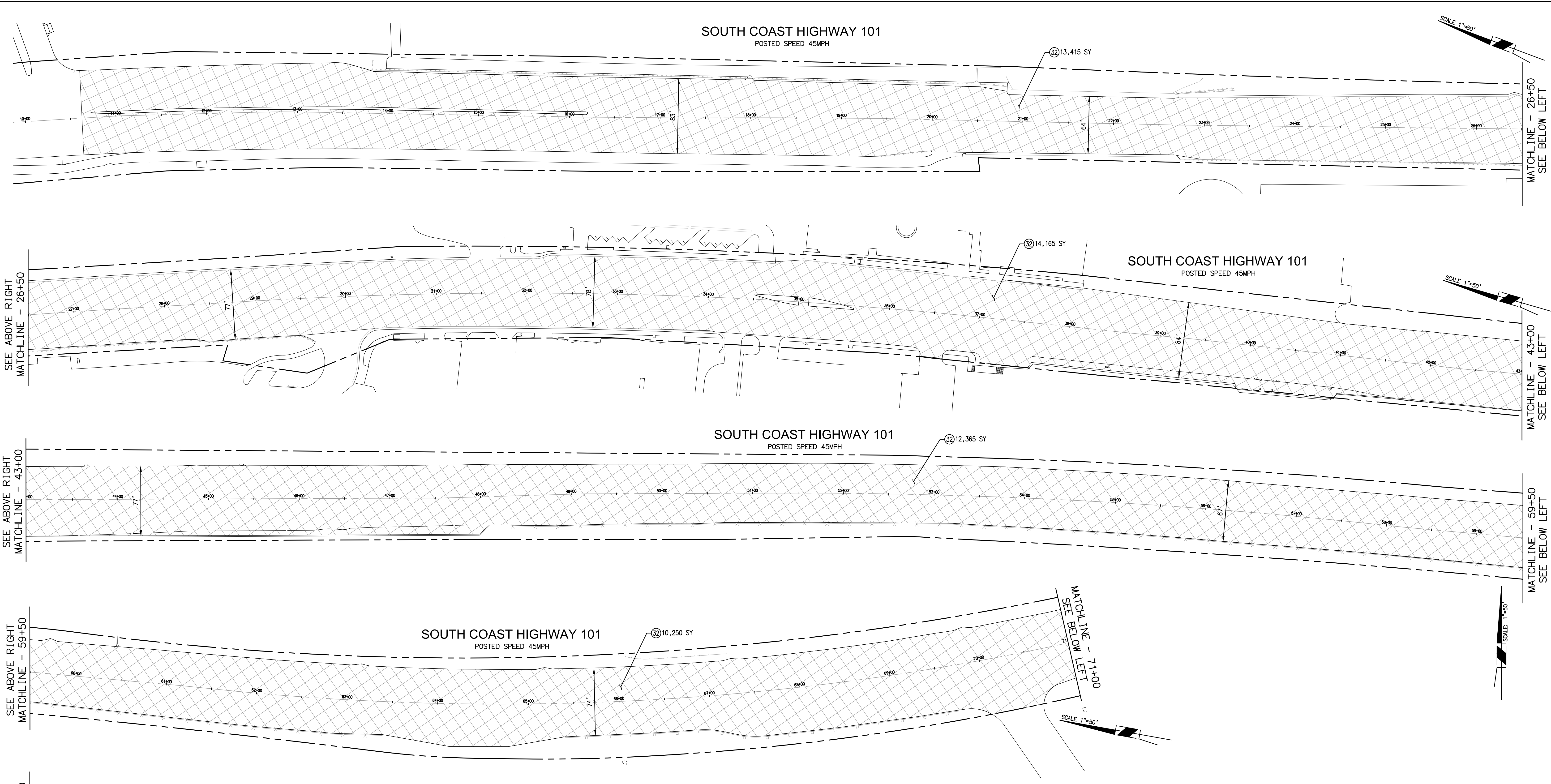
AC/DIRT REMOVAL AND AC CONSTRUCTION	
SAWCUT	

- CONSTRUCTION NOTES**
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES AND STRUCTURES, AND SHALL BE RESPONSIBLE FOR REPLACEMENT SHOULD ANY DAMAGE OCCUR. ANY PULL BOXES FOUND IN AC PAVING AREA SHALL BE BROUGHT TO FINISH GRADE.
- CONSTRUCTION NOTES**
- (21) SAWCUT EX. PAVEMENT PER DETAIL "1" ON THIS SHEET.
 - (23) REMOVE EXISTING AC PAVEMENT COMPLETE. CONSTRUCT AC PAVEMENT AND TYPE 2 AGGREGATE BASE. MATCH EXISTING ROADWAY SECTION IN KIND.
 - (25) REMOVE CONCRETE BOLLARD AND FOUNDATION COMPLETE.
 - (37) FURNISH AND INSTALL YELLOW TRUNCATED DOMES PER SORSO G-30.



REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
STRIPING, SLURRY SEAL, SAND RETENTION.		2019-11-15				HORIZONTAL N/A	CL	TB	NM	RECOMMENDED	APPROVED	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS STREET IMPROVEMENT PLAN	CS-20E
SHARROWS AND RR-11.		2020-02-07				VERTICAL N/A				BY: _____	BY: _____		
							DESIGNED BY: <i>Nicolas M. Mincilli</i> DRAWN BY: _____ CHECKED BY: _____ PLANS PREPARED UNDER SUPERVISION OF: _____ DATE: 11-05-2019 R.C.E. NO. 74667 EXP. 12-31-2021 5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRAFFIC.COM			APPROVED BY: _____ DATE: _____ R.C.E. NO.: _____		SHEET 10 OF 12	

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SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

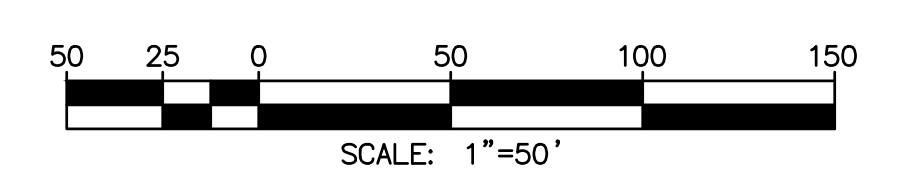
SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

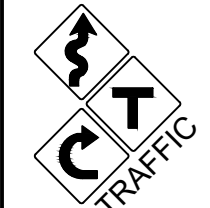
CONSTRUCTION NOTES
 (32) APPLY TYPE II SLURRY SEAL ON ROAD FROM STATION 10+62 TO STATION 76+70.

LEGEND
 TYPE II SLURRY SEAL



REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
STRIPING, SLURRY SEAL, SAND RETENTION, SHARROWS AND R4-11.		2019-11-15		2020-02-07		HORIZONTAL N/A VERTICAL N/A	CL	JW	NM	RECOMMENDED BY: _____ DATE: _____ R.C.E. NO.: 74667 EXP. 12-31-2021	APPROVED BY: _____ DATE: _____ R.C.E. NO.: _____	PUBLIC IMPROVEMENT PLANS FOR: SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS ASPHALT SLURRY SEAL IMPROVEMENTS	CS-20E
												SHEET 11 OF 12	

5865 AVENIDA ENCINAS, #142B
 CARLSBAD, CA 92008
 PH: 760-602-4290
 WWW.STCTRAFFIC.COM



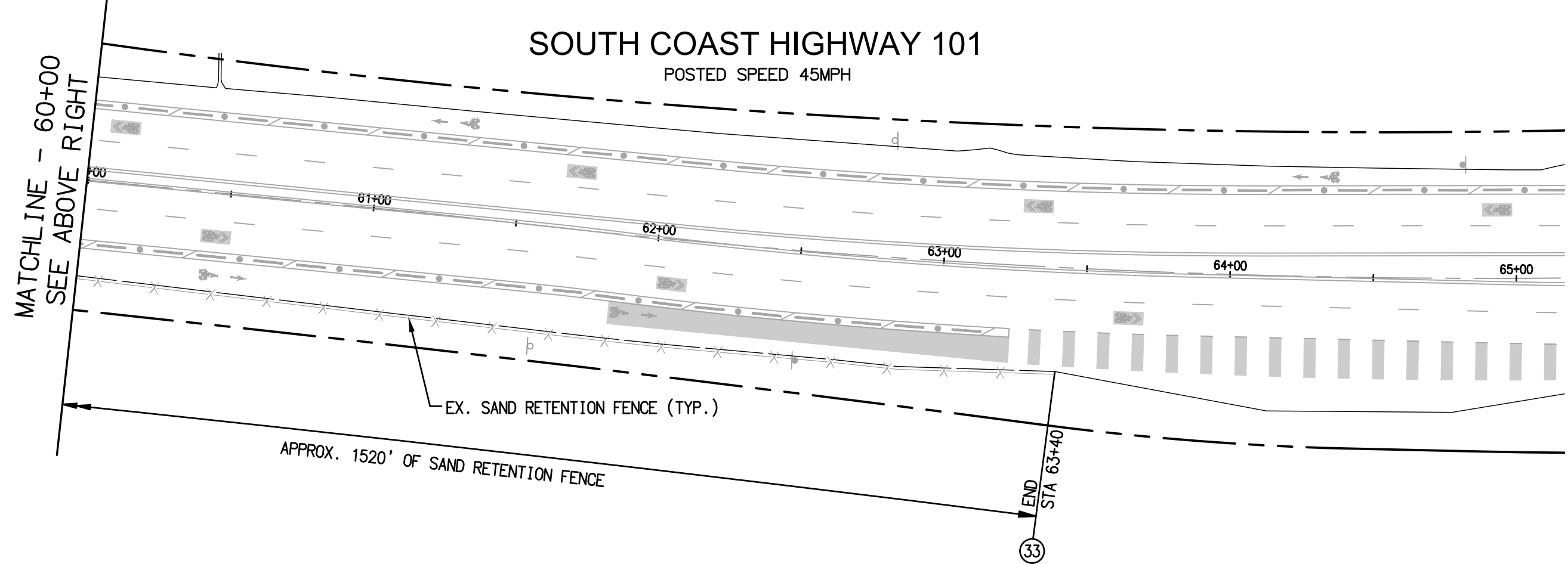
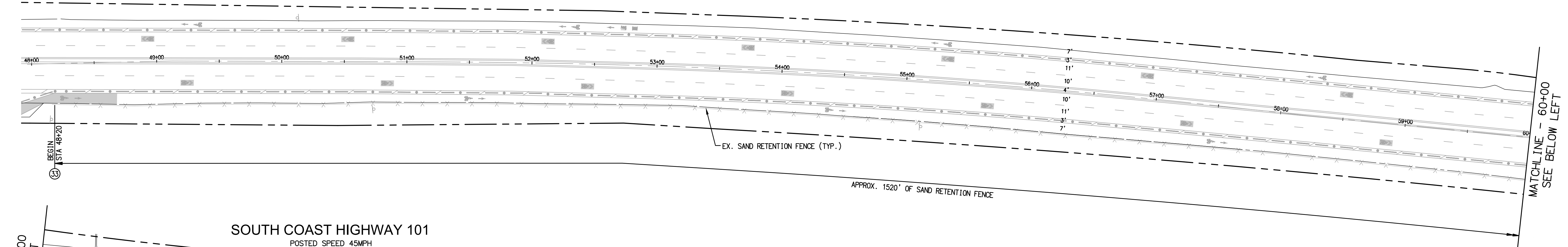
PLANS PREPARED UNDER SUPERVISION OF
Nicolas M. Mincilli
 NICOLAS M. MINCILLI

DATE: 11-05-2019
 R.C.E. NO.: 74667
 EXP. 12-31-2021

CITY OF ENCINITAS ENGINEERING DEPARTMENT
 PUBLIC IMPROVEMENT PLANS FOR:
 SOUTH COAST HIGHWAY 101 SAFETY AND MOBILITY IMPROVEMENTS
 ASPHALT SLURRY SEAL IMPROVEMENTS

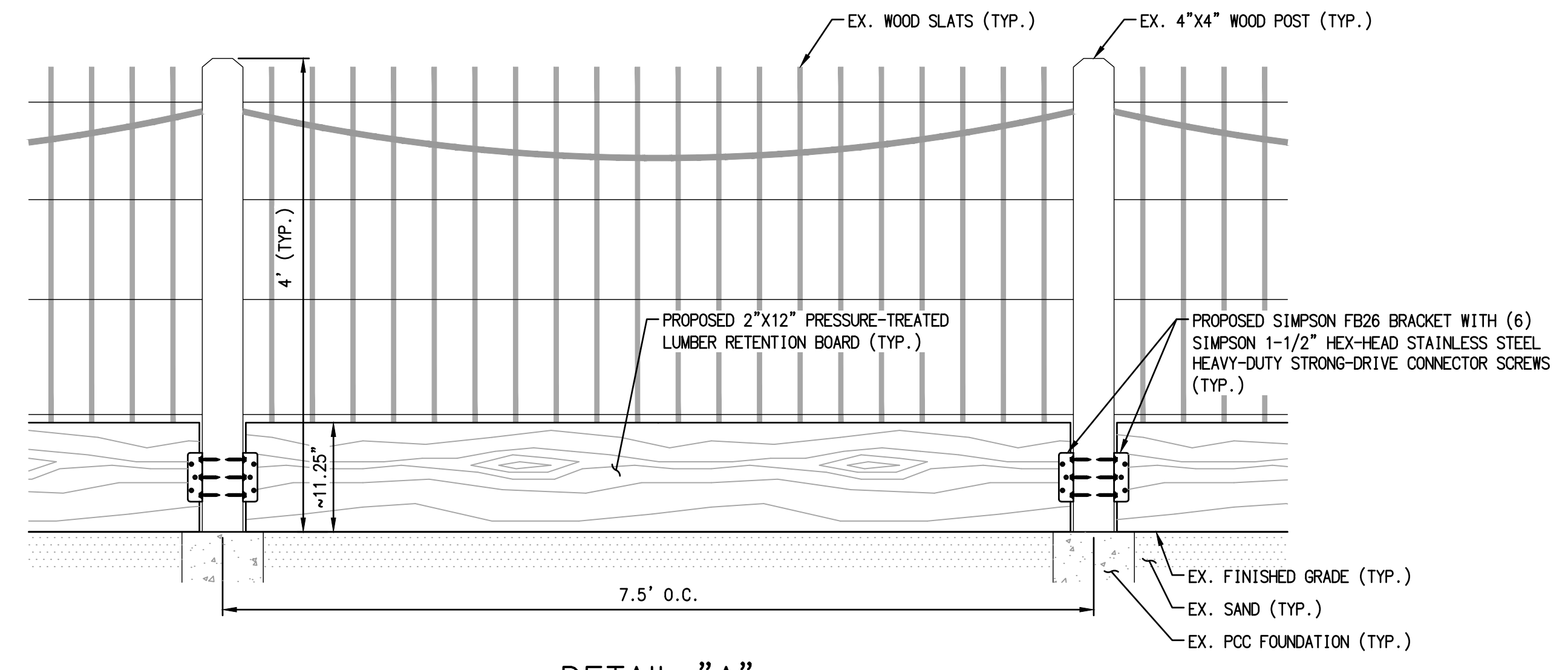
DRAWING NO.
CS-20E
 SHEET 11 OF 12

SOUTH COAST HIGHWAY 101
POSTED SPEED 45MPH

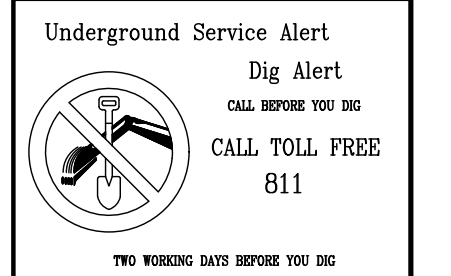
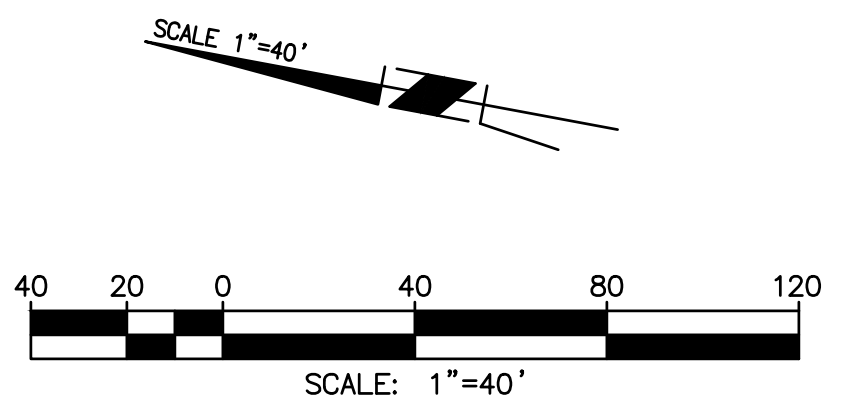


CONSTRUCTION NOTES

③ FURNISH AND INSTALL 2"x12" PRESSURE-TREATED LUMBER RETENTION BOARD BETWEEN EXISTING 4"x4" WOOD POSTS. LUMBER SHALL BE HEM FIR (HF) MINIMUM GRADE WITH BROWN STAIN. FURNISH AND INSTALL SIMPSON STRONG-TIE PART# FB26 GALVANIZED FENCE RAIL BRACKET WITH SIMPSON 1-1/2" HEX-HEAD STAINLESS STEEL HEAVY-DUTY STRONG-DRIVE CONNECTOR SCREWS. ATTACH PROPOSED RETENTION BOARDS TO EXISTING 4"x4" POSTS PER DETAIL "A" THIS SHEET.



DETAIL "A"
SAND RETENTION BOARD INSTALLATION
NOT TO SCALE



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