



ATTACHMENT F

IMPROVEMENT PLANS

TRAFFIC SIGNING NOTES:

- 1.Signing shall be the responsibility of the CONTRACTOR and shall be subject to City of San Marcos Public Works Department approval. All signs shall conform to the California Manual on Uniform Traffic Control Devices, latest edition
- 2.Sign posts:
- a.shall be, Tubular break-away posts (Telspar or Unistrut), 1 3/4" galvanized steel or equal;
 - b.shall have seven feet (7') vertical clearance above finished grade for one sign mounting or six feet (6') for a two sign mounting;
 - c.shall have a maximum of two signs (with different meanings) on each side (maximum number of signs on both sides shall not exceed four).
 - d.shall be anchored a minimum of twenty-four inches (24") below finished grade in undisturbed soil and backfilled with native soil, decomposed granite, or sand;
 - e.located in the median, shall be set in an eight-inch diameter (8") by twenty-four inch (24") (8" x 24") deep PVC sleeve and backfilled with native soil, decomposed granite, or sand to the top of the sleeve;
 - f.located in the sidewalk, a ten-inch diameter core (10") shall be drilled. Backfill shall be four inches (4") of concrete above twenty inches (20") of native soil, decomposed granite or sand.
 - g.shall be new (used posts are prohibited on new sign installations);
 - h.shall be rejected if damaged, bent or splintered;
 - i. locations shall be marked by CONTRACTOR and approved by the Public Works Director or his assignee prior to final placement.
 - j.shall have a minimum of forty-eight inches (48") horizontal distance between post and back edge of sidewalk (ADA specification) for wheel chair access.
 - k.shall be 2-7/8" aluminum posts for street name signs and STOP (R1-1) signs.
 - l. shall be wrapped with duct tape around base of breakaway post below subgrade.
 - * Wood posts used for Class II or III barricades shall be painted white.
- 3.Signs:
- a.shall be aluminum and have reflectivity facing and message with an High Intensity design or better;
 - b.shall have a minimum of twelve inches (12") horizontal clearance behind the curb face;
 - c.thirty-six inches (36") wide shall be strapped on the back of the sign with sign strap hardware;
 - d.larger than thirty-six inches (36") wide shall be set on two posts;
 - e.shall be mounted on:
 - f.new or existing street light standards shall use a 5/8-inch" "band it" steel strapping with fasteners;
 - g.aluminum posts shall use 2 7/8" post caps for single signs and 2 7/8" cross saddle for two signs;
 - h.mounting on power/utility poles is prohibited.
- 4.Street name signs shall have 9-inch extruded aluminum blades, high intensity sheeting with 3M Blue Electrocut film, 6-inch Highway Gothic lettering with first letter in Capitals and the rest lower case, block address, and road designations.
- 5.Where an R4-7 sign and OM1-3 object marker sign are to be installed in a median width less than 42-inches, the R4-7 sign shall be mounted 7-feet vertically from the existing ground surface. The R4-7 sign shall be 18" x 24" and the OM1-3 object marker shall be 18" x 18". OM2-1H shall be installed behind OM1-3..
- 6.Where an R6-1 sign ("One Way") sign is to be installed in a median island, the R6-1 sign shall be mounted 18- inches vertically from the existing ground. If a landscaped planter is present and vegetation interferes with sign location, the R6-1 sign shall be mounted 4-feet vertically from the existing ground.
- 7.The CONTRACTOR shall notify the City of San Marcos' Public Works Department upon completion of signing.
- 8.Existing signs shall be salvaged and delivered to the Public Works Department located at 201 Mata Way.
- 9.STOP sign installation shall include the sign, post, stop bar, STOP legend and a minimum of 50' of double yellow centerline striping unless adjacent to median.
10. NO OUTLET signs shall be posted where there is no legal outlet when the street exceeds 800 feet or when the terminus of the roadway is not visible from the intersection.
11. Fluorescent Yellow Green (FYG) background colored signs shall be installed for all school area signs per the California Manual on Uniform Traffic Control Devices (MUTCD).

TRAFFIC STRIPING NOTES:

1. All letter and word pavement marking stencils used within City limits shall generally conform to the Caltrans "Metric" specification, as provided by Hawkins Traffic Supply.
2. All arrows, whether in turn lanes, bike lanes or otherwise, shall conform to the Caltrans, "2015 Standard Plan A24A" specification.
3. Symbols and Numerals: Symbols and numerals shall conform to Caltrans, "2015 Standard Plan A24C" specification. The City of San Marcos has designated the "Bike Lane Symbol with Person" (facing left to roadway) to be used in all bike lane applications. All other bike lane symbols shall be excluded. All bike lane symbols and speed limit legends shall be painted.
4. Striping alignment and layout, including "turkey-tracks," shall be the responsibility of the CONTRACTOR and is subject to the City of San Marcos Public Works Department approval prior to final installation.
5. Paint shall be applied under suitable weather conditions and per the paint manufacturers label recommendations for pavement and ambient temperature requirements. Paint shall not be applied if rain is forecasted within 24 hours.
6. Thinning of paint will not be allowed.
7. Section 84-3.02 "Materials" of the latest edition of the Caltrans Standard Specifications is amended to read as follows:

Point for traffic stripes shall conform to the following Caltrans specifications:

Rapid Dry Water-borne, white and yellow 8010-42L-30 or 8010-61G-10 [low VOC (Volatile Organic Compound) and lead-based paints are prohibited].

Glass beads shall conform to Caltrans Standard Specification No. 8010-51J-22 (Type I - Moisture Proof). Glass beads shall be applied when striping traffic lines or painting legends.

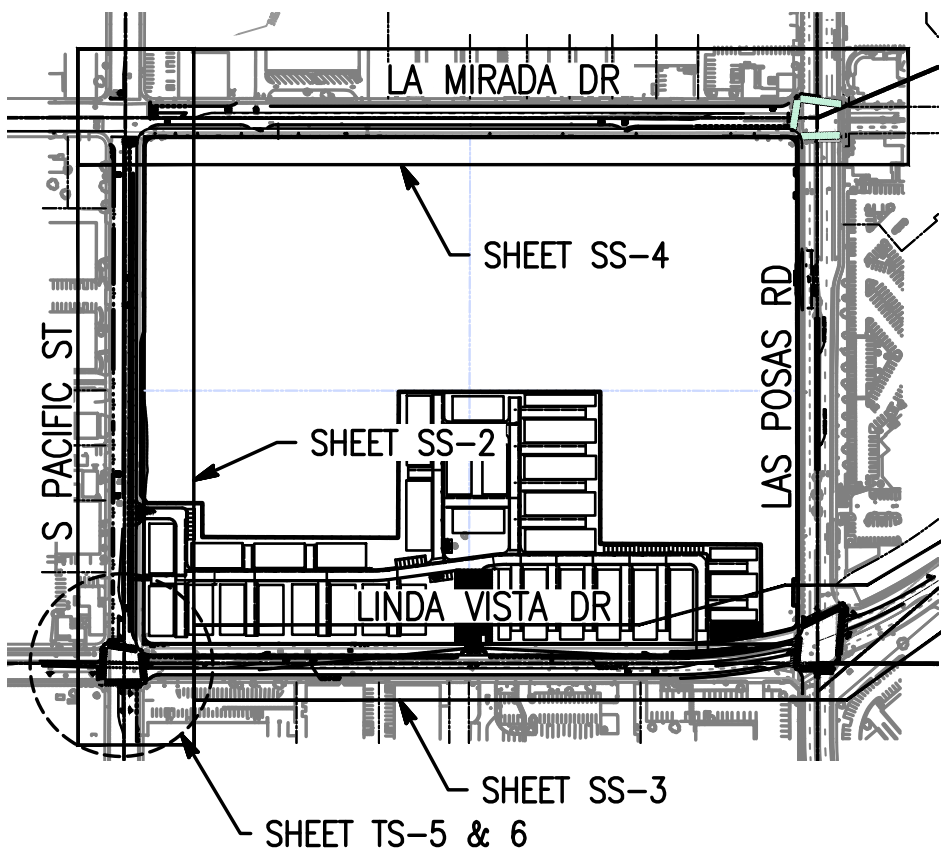
Information regarding traffic paint and glass beads may be obtained from the Caltrans Engineering Service Center, 5900 Folsom Blvd., Sacramento, CA 95819-4612; (916) 227-7000.

8. All striping shall include raised pavement markers (RPMs) per the appropriate California Manual on Uniform Traffic Control Devices details.
9. Raised pavement markers (RPMs) shall be ceramic or ABS (Acrylonitrile-Butadiene-Styrene) plastic. Approved RPM types are as follows:
- a. Type A and AY ceramic - 4" j (white or yellow);
 - b.1 or 2-way reflective ABS - 4" x 4" square.

Minimum RPM thickness shall be 15 mils. RPMs shall be affixed with machined applied hot bitumen or standard set epoxy (part A and B).

10. The CONTRACTOR shall remove all conflicting painted lines, markings and pavement legends by sand blasting within 24 hours of conflict. Grinding may be used if equipment and methodology is approved by the City. Sandblasting or grinding debris shall be removed as soon as possible but no later than before the end of each work day. "Blocking out" of existing striping will not be allowed. Where traffic striping or pavement markings are to be removed by sandblasting or grinding, the pavement shall also be patched and slurry sealed (Type II Slurry) at the discretion of the City Inspector. The CONTRACTOR shall notify the City of San Marcos' Public Works Department upon completion of striping.
11. Two coats of paint shall be applied on new surfaces and one on existing surfaces.
12. Signalized intersections shall have marked pedestrian crosswalks. All crosswalks, limit lines, stop bars, pavement arrows, school legends, and pavement legends other than bicycle legends shall be installed with thermoplastic, unless otherwise noted on the plan.
13. All new or modified crosswalks shall be "Continental" style marked crosswalks with a limit bar setback of 4-feet minimum.
14. A minimum of 100 feet double yellow centerline shall be striped along all knuckles and horizontal curvatures with the radius of 100 feet or less. Red curb or "NO PARKING ANYTIME" signs shall be installed on the inside of the roadway curvature.
15. All CALTRANS Detail 40 and Detail 41 within the intersections shall be installed with thermoplastic, unless otherwise noted on the plans.
16. U-turns shall be restricted where less than 44 feet exists between the right lane line of the left turn lane and the face of curb for the opposing direction of travel for single left turn lanes, where less than 36 feet exists between the left edge of the inside left turn lane to the face of curb for the opposing direction of travel for dual turn lanes, or as required by the City Engineer.
17. Roundabout signage for one-lane, two-lane, and mini-roundabout types shall conform to Chapter 2B (Regulatory Signs, Barricades and Gates) of the 2014 CAMUTCD. Roundabout markings for one-lane, two-lane, and mini- roundabout types shall conform to Chapter 3C (Roundabout Markings) of the 2014 CAMUTCD.
18. If it is necessary or desirable to prohibit certain pedestrian movements at a traffic signal intersection, a pedestrian barrier shall be installed to prevent the pedestrian movements. The Contractor shall install a pedestrian barrier in conformance to the City of San Diego Pedestrian Barricade standard (SDE-103). If it not practical to install such a barrier, then the "NO PEDESTRIAN CROSSING (R9-3) signs shall be used.

CITY OF SAN MARCOS
IMPROVEMENT PLANS FOR
PACIFIC - SOUTH ALTERNATIVE

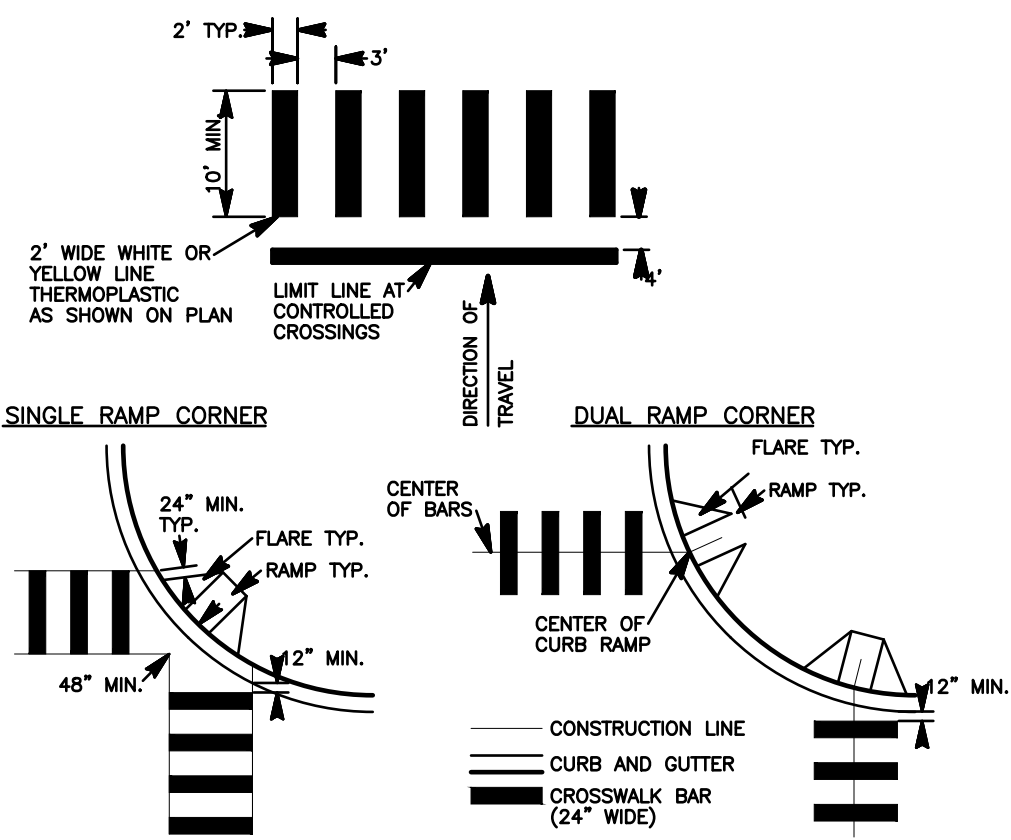


VICINITY MAP
NOT TO SCALE

GENERAL TRAFFIC NOTES

1. A traffic control plan, including the layout of construction warning and detour signs, shall be submitted to the Public Works Department for approval a minimum of (14) Calendar Days prior to the commencement of construction. Traffic control shall be implemented before any work is started.
2. Before excavating, the CONTRACTOR shall verify locations of underground facilities of the following utilities by contracting the Underground Service Alert at 1-800-227-2600:

AT&T
San Diego Gas & Electric
Vallecitos Water District
Cox Communications



DETAIL "A" - CROSSWALK
NOT TO SCALE

TRAFFIC SIGNAL GENERAL NOTES:

- 1.The location of all existing underground utilities is approximate. The CONTRACTOR shall determine the location and depth of all utilities including those not shown on these plans. Verification of the location and depth of underground utilities and digging for foundations shall be done by hand excavation methods until clear of all underground facilities. All underground utilities shall be protected during construction and expense of repair or replacement of utilities damaged during construction shall be borne by the CONTRACTOR.
- 2.The CONTRACTOR shall obtain all necessary permits and notify all utilities, agencies, and the City of San Marcos (760) 752-7550 at least 48 hours in advance of construction.
- 3.Before excavating, the CONTRACTOR shall verify locations of underground facilities of the following utilities by contacting the Underground Service Alert at 1-800-277-2600:
- AT&T
Pacific Bell
San Diego Gas & Electric
Vallecitos Water District
Cox Communications
- 4.Utility mark-outs shall be conducted using a temporary point that can be removed by power wash, if necessary. Add to the plans "the contractor shall remove all mark out point upon completion of the work".
- 5.All property corner monuments shall be undisturbed by construction or improvements. Disturbed monuments shall be reset or replaced by a licensed land surveyor or registered civil engineer authorized to set monuments.
- 6.Pole, detector and equipment locations are approximate. The City of San Marcos' Engineering Department Inspectors / Traffic Signal Lighting Supervisor shall field verify and approve the exact equipment locations prior to installation.
- 7.The CONTRACTOR shall provide all necessary traffic control devices during traffic signal installation. A traffic control plan, including the layout of construction warning and detour signs, working hours, and construction schedule shall be submitted to the Engineering Department for approval a minimum of (14) calendar days prior to the commencement of construction. Traffic control shall be implemented before any work is started.

- 8.All traffic signal conduit and fittings (after the electric meter pedestal) shall be minimum three inch (3") Schedule 80 PVC. Street crossings shall be four inches (4") minimum, encased in a minimum of twelve inches (12') of 56-C-3250 psi concrete (8" minimum concrete cover to top of pipe). All conduits shall be buried with a minimum of thirty inches (30") of total cover from the top of pipe to finished grade. All conduits shall be sealed upon completion. Street crossings by bore method shall be approved by the City Engineer. All directional bored raceways shall be HDPE typical.

- 9.All signal conductors, communication cables and other associated wiring shall be labeled (with the Brother P-touch waterproof labels or City approved equal) in the cabinet with associated assignments (lane, phases, channel numbers and communication functions).

- 10.All trench excavation and backfill in the public right-of-way shall conform to the requirements of the City of San Marcos' Excavation Ordinance. Minimum 95% compaction is required in all on-site fill areas within ultimate Right-of-Way.

- 11.A new slurry coat or overlay shall be applied a minimum of 20 feet either side of patch work resulting from excavation work (trenching and potholing) on new streets (slurry coated within last three years) or street with clean and uniform pavement. The determination of existing pavement condition shall be made by the Engineering Division Inspector.

- 12.The CONTRACTOR shall be responsible for service coordination with SDG&E. The CONTRACTOR shall apply for a new service meter and obtain an SDG&E service order. The City shall provide building addresses for the new service meters.

- 13.Existing traffic signal facilities, signals and communications shall remain operational until new facilities are cutover or connected or as long as approved by the project inspector. The CONTRACTOR shall be responsible for installation, maintenance and removal of any temporary wiring necessary to maintain signal operational during construction.

- 14.Luminaires shall conform to the latest City of San Marcos Street Lighting Standards with GE Evolve™ LED Roadway Scalable Cobrahead fixtures for safety lighting.

- 15.The CONTRACTOR shall be responsible for the installation, relocation or replacement of all striping and signing as required by the City Traffic Engineer. All signs and traffic striping shall conform to the California Manual on Uniform Traffic Control Devices (CAMUTCD) and City of San Marcos Signing and Striping Standards.

- 16.An "AS-BUILT" drawing shall be submitted for all public improvements prior to the acceptance of said improvements.

- 17.These plans have been examined by the City of San Marcos Engineering Division to ensure compliance with general engineering standards and the City's design standards and specifications. The Engineer-of-Work shall bear the sole responsibility of the mathematical data and accuracy of design shown herein.

- 18.Traffic signal construction shall not commence until all materials including poles, mast arms and controller are on-hand unless otherwise approved by the project inspector.

- 19.The CONTRACTOR shall be responsible for the installation, relocation

or replacement of all traffic loop detectors as required by the Traffic Engineer within 48 hours of direction, or install temporary video detection until loop detector work is completed. Existing traffic signal detector loops damaged during construction shall be replaced within 48 hours of date and time damaged or temporary video detection shall be installed until the damaged loops are replaced. The CONTRACTOR shall furnish and install temporary video detection cameras, detection cards, and other equipment as necessary for full operation. Approval is required by the City's Traffic Signal Supervisor prior to operation. The CONTRACTOR shall repair asphalt paving and apply slurry seal coat after installation of loops.

20.When performing a traffic signal modification work, the CONTRACTOR shall be responsible for ensuring continued operation of the traffic signal throughout the project. If any damages occur, the CONTRACTOR shall respond within 3 hours and restore the operation within 48 hours.

WORK TO BE DONE

THE IMPROVEMENTS CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:

- SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
- 2015 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
- CITY OF SAN MARCOS SUPPLEMENT TO THE 2015 GREENBOOK ("STANDARD SPECIAL PROVISIONS")
- CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE
- CITY OF SAN MARCOS TRAFFIC SIGNAL MANUAL FOR NEW SIGNAL DESIGNS AND INSTALLATIONS
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARDS PLANS
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS
- STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL TO MUTCD
- VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS

LEGEND (SHEETS 2 TO 6)

- EXISTING STRIPING TO BE REMOVED
- EXISTING STRIPING
- PROPOSED STRIPING
- EXISTING ROADSIDE SIGN
- PROPOSED ROADSIDE SIGN
- EXISTING PAVEMENT ARROW
- INSTALL TYPE IV(L) PAVEMENT ARROW AS INDICATED
- INSTALL TYPE IV(R) PAVEMENT ARROW AS INDICATED
- INSTALL TYPE I (10') PAVEMENT ARROW AS INDICATED
- INSTALL BIKE LANE WITH PAVEMENT ARROW AS INDICATED
- INSTALL "AHEAD" PAVEMENT LEGEND AS INDICATED
- INSTALL "SIGNAL" PAVEMENT LEGEND AS INDICATED
- INSTALL "STOP" PAVEMENT LEGEND AS INDICATED
- INSTALL "35" PAVEMENT LEGEND AS INDICATED
- PEDESTRIAN BARRICADE
- STREET NAME SIGN
- REMOVE CONFLICTING EXISTING STRIPING BY SANDBLASTING.
- ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORK DAY. REMOVE AND SALVAGE
- RELOCATE
- TRAFFIC SIGNAL

SHEET INDEX

SHEET NO.	DESCRIPTION
T-1	TRAFFIC TITLE SHEET
SS-2	STRIPING PLAN - S. PACIFIC ST - LA MIRADA DR TO LINDA VISTA DR
SS-3	STRIPING PLAN - LINDA VISTA DR - S. PACIFIC ST TO LAS POSAS RD
SS-4	STRIPING PLAN - LA MIRADA DR - S. PACIFIC ST TO LAS POSAS RD
TS-5	TRAFFIC SIGNAL PLAN - LINDA VISTA DR AT S. PACIFIC ST TRAFFIC
TS-6	SIGNAL PLAN - LINDA VISTA DR AT S. PACIFIC ST (SCHEDULES)

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 SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK

KALYAN C. YELLAPU R.C.E. 75023 DATE

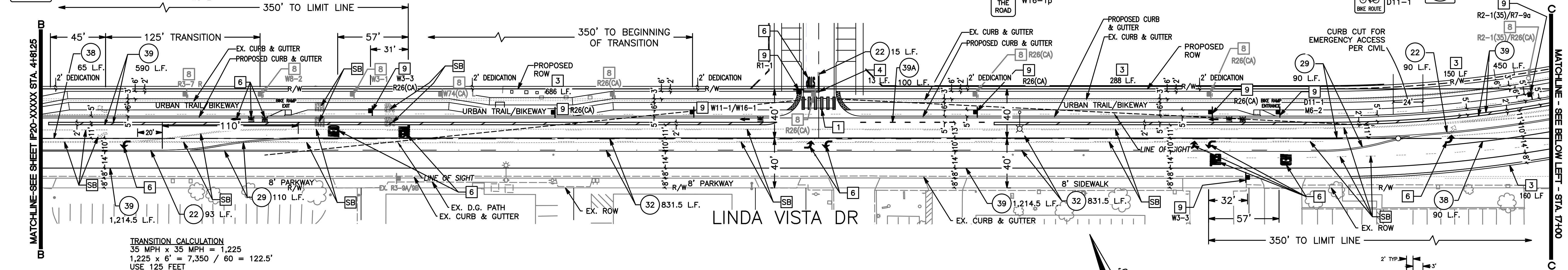


ENGINEER OF WORK		CITY APPROVED CHANGES	
By:	Date:	No.	Description
Name: KALYAN C. YELLAPU			
R.C.E.: 75023	exp: 12/31/25		

NOTE:

THIS IS FOR CONCEPTUAL PURPOSES ONLY, AND THIS PLAN MAY REQUIRE MODIFICATIONS DURING FINAL ENGINEERING REVIEW.

BENCH MARK		CITY OF SAN MARCOS				City Drawing No.
Description: _____		IMPROVEMENT PLANS FOR:		PLANNING PROJECT NO.		P20-XXXX
Location: _____		PACIFIC - SOUTH ALTERNATIVE				
Record From: Record of Survey 13928		TITLE SHEET AND NOTES FOR TRAFFIC IMPROVEMENT PLANS				
Elev.: _____ Datum: NAVD88						
				SP22--0001 GPA21--0001 R21--0001 MFS22--0001 TS22--0001		Sheet 1 of 6



W11-1
W16-1p
W3-3
W73A (CA)
W74(CA) L
R3-7
R7-9a
R2-1(35)
R26(CA)
R81A(CA)
C

 EXISTING STRIPING TO BE REMOVED
 EXISTING STRIPING
 PROPOSED STRIPING
 EXISTING ROADSIDE SIGN
 EXISTING PAVEMENT LEGEND
 INSTALL TYPE IV(L) PAVEMENT ARROW AS INDICATED
 INSTALL TYPE IV(R) PAVEMENT ARROW AS INDICATED
 INSTALL TYPE I (10') PAVEMENT ARROW AS INDICATED
 INSTALL "AHEAD" PAVEMENT LEGEND AS INDICATED
 INSTALL "SIGNAL" PAVEMENT LEGEND AS INDICATED
 INSTALL "STOP" PAVEMENT LEGEND AS INDICATED
 INSTALL "35" PAVEMENT LEGEND AS INDICATED
 INSTALL "BIKE LANE WITH BIKE ARROW" PAVEMENT LEGEND AS INDICATED
 PROPOSED ROADSIDE SIGN
 PEDESTRIAN BARRICADE W/2-R49M L OR R (BACK TO BACK) REF: CITY OF SAN DIEGO STD. DWG. SDE-103
 STREET NAME SIGN
 TRAFFIC SIGNAL
 XXX CALTRANS STRIPING DETAIL NUMBERS (REF: 2011 CALTRANS STANDARD DRAWINGS A20A THRU A20D) XXX L.F. = NUMBER OF LINEAR FEET OF STRIPING.

- 1 INSTALL CONTINENTAL CROSSWALK, SEE DETAIL "A" THIS SHEET AND CITY OF SAN DIEGO STD. DRAWING SDM-116 "CONTINENTAL CROSSWALKS - MARKINGS, LAYOUT, AND NOTES"
- 2 MATCH EXISTING STRIPING.
- 3 PAINT CURB RED.
- 4 CONTRACTOR SHALL INSTALL 12" WHITE THERMOPLASTIC STRIPING AS SHOWN ON PLAN.
- 5 CONTRACTOR SHALL REFRESH EXISTING STRIPING WITH DOUBLE 6" YELLOW SOLID AS SHOWN ON PLAN.
- 6 INSTALL PAVEMENT MARKING AS INDICATED. SEE LEGEND ON THIS SHEET.
- 7 CONTRACTOR SHALL PAINT 6" WIDE DIAGONAL STRIPES WITHIN THE BUFFER STRIPING FOR THE BIKE LANE WHERE NOTED ON THE PLAN. SPACING FOR DIAGONAL STRIPING SHALL BE 24' ON CENTER STAGGERED AS SHOWN.
- 8 REMOVE & SALVAGE SIGN PANEL AND POST.
- 9 INSTALL SIGN PANEL & SIGN POST WHERE NOTED ON THE PLAN.
- 10 INSTALL PEDESTRIAN BARRICADE WITH 2-R49M L OR R, BACK TO BACK, PER CITY OF SAN DIEGO STD. DWG. SDE-103.
- SB SANDBLAST EXISTING CONFLICTING STRIPING AND REMOVE SANDBLASTING DEBRIS BY THE END OF EACH WORK DAY. THERMO TO BE REMOVED BY GRINDING THEN RE-PAVED BY SEALCOAT AND PATCHED BY GREENBOOK STANDARD.

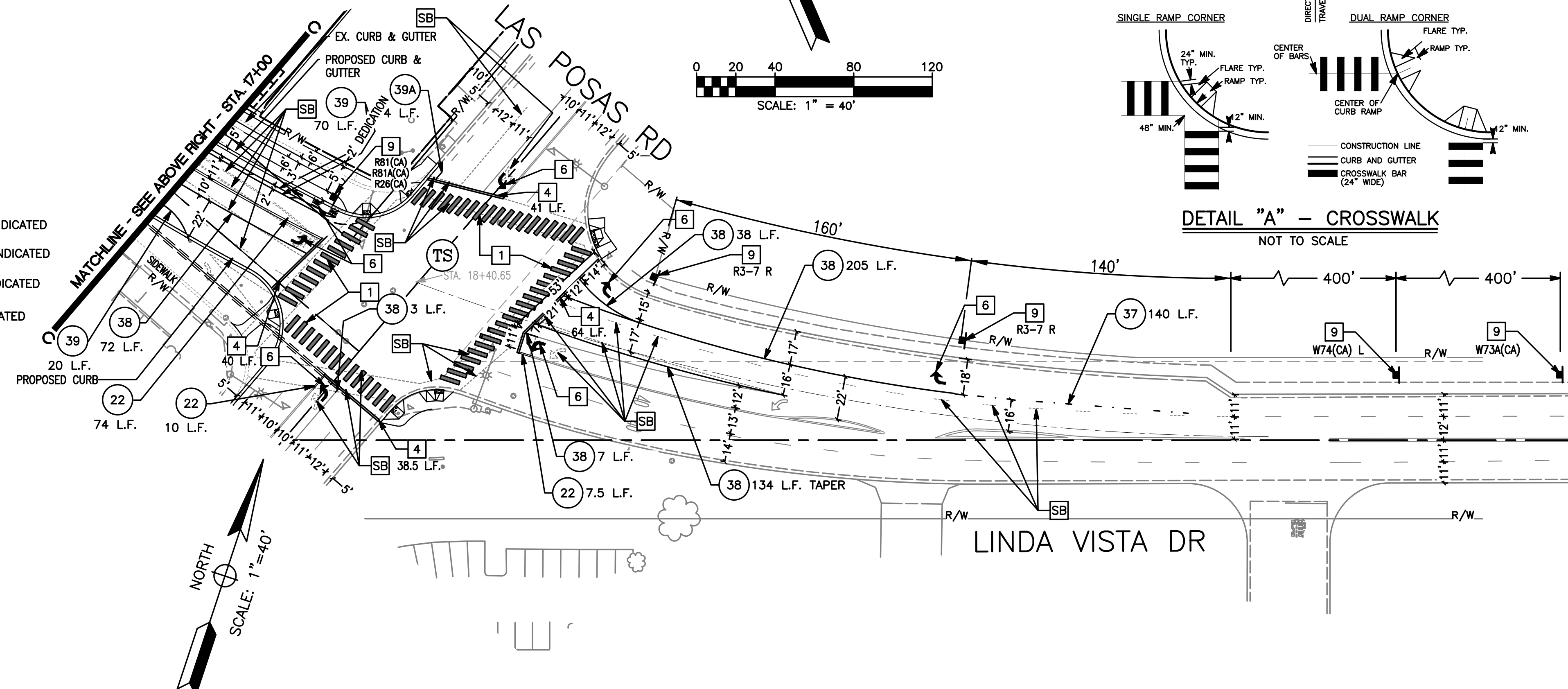
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

KALYAN C. YELLAPU	R.C.E. 75023	DATE
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ENGINEER OF WORK	CITY APPROVED CHANGES			
By: _____ Date: _____	No.	Description	App'd By	Date
Name: <u>KALYAN C. YELLAPU</u>				
R.C.E.: <u>75023</u> exp: <u>12/31/25</u>				



2' TYP.

3'

10' MIN.

2' WIDE WHITE OR YELLOW LINE THERMOPLASTIC AS SHOWN ON PLAN

LIMIT LINE AT CONTROLLED CROSSINGS

DIRECTION OF TRAFFIC

C

SINGLE RAMP CORNER

24' MIN. TYP.

FLARE TYP.

RAMP TYP.

12' MIN.

48' MIN.

DUAL RAMP CORNER

FLARE TYP.

RAMP TYP.

CENTER OF CURB RAMP

CENTER OF BARS

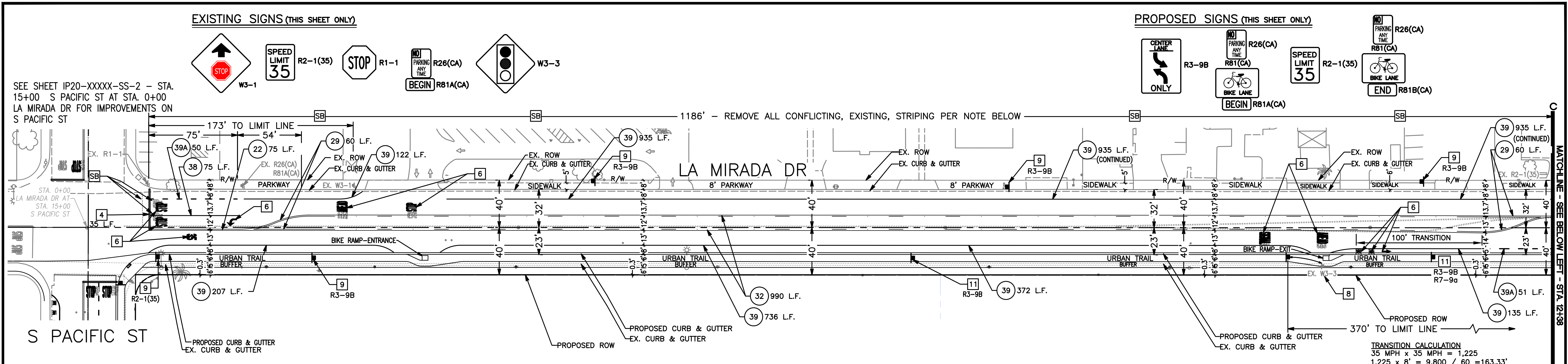
2' MIN.

CONSTRUCTION LINE

CURB AND GUTTER (24' WIDE)

CROSSWALK BAR (24' WIDE)

BENCH MARK		CITY OF SAN MARCOS		City Drawing No.
Description: _____		SIGNING & STRIPING PLAN FOR:		PLANNING PROJECT NO.
Location: _____		PACIFIC - SOUTH ALTERNATIVE		SP22-0001
Record From: <u>Record of Survey 13928</u>		LINDA VISTA DR - S. PACIFIC ST TO LAS POSAS RD		GP21-0001
Elev: _____ Datum: <u>NAVD88</u>				R21-0001
				MFS22-0001
				TSM22-0001
				IP20-XXXX
				Sheet 3 of 6



CONSTRUCTION NOTE (THIS SHEET ONLY)

- INSTALL CONTINENTAL CROSSWALK, SEE DETAIL "A" THIS SHEET AND CITY OF SAN DIEGO STD. DRAWING SDM-116 "CONTINENTAL CROSSWALKS - MARKINGS, LAYOUT, AND NOTES"
- MATCH EXISTING STRIPING.
- PAINT CURB RED.
- INSTALL PAVEMENT MARKING AS INDICATED. SEE LEGEND ON THIS SHEET.
- CONTRACTOR SHALL PAINT 6" WIDE DIAGONAL STRIPES WITHIN THE BUFFER STRIPING FOR THE BIKE LANE WHERE NOTED ON THE PLAN. SPACING FOR DIAGONAL STRIPING SHALL BE 24' ON CENTER STAGGERED AS SHOWN.
- REMOVE & RELOCATE SIGN PANEL AND POST TO POSITION NOTED ON THE PLAN.
- INSTALL SIGN PANEL & SIGN POST WHERE NOTED ON THE PLAN.
- INSTALL SIGN PANEL ON PROPOSED STREET LIGHT WHERE NOTED ON THE PLAN.
- SANDBLAST EXISTING CONFLICTING STRIPING AND REMOVE SANDBLASTING DEBRIS BY THE END OF EACH WORK DAY. THERMO TO BE REMOVED BY GRINDING THEN RE-PAVED BY SEALCOAT AND PATCHED BY GREENBOOK STANDARD.

LEGEND (THIS SHEET ONLY)

EXISTING STRIPING TO BE REMOVED

EXISTING STRIPING

PROPOSED STRIPING

EXISTING ROADSIDE SIGN

EXISTING PAVEMENT LEGEND

INSTALL TYPE N(L) PAVEMENT ARROW AS INDICATED

INSTALL TYPE N(R) PAVEMENT ARROW AS INDICATED

INSTALL TYPE I (10') PAVEMENT ARROW AS INDICATED

INSTALL "AHEAD" PAVEMENT LEGEND AS INDICATED

INSTALL "SIGNAL" PAVEMENT LEGEND AS INDICATED

INSTALL "STOP" PAVEMENT LEGEND AS INDICATED

INSTALL "35" PAVEMENT LEGEND AS INDICATED

INSTALL "BIKE LANE WITH BIKE ARROW" PAVEMENT LEGEND AS INDICATED

PROPOSED ROADSIDE SIGN

STREET NAME SIGN

TRAFFIC SIGNAL

CALTRANS STRIPING DETAIL NUMBERS (REF: 2018 CALTRANS STANDARD DRAWINGS A20A THRU A20D) XXX L.F. = NUMBER OF LINEAR FEET OF STRIPING.

DETAIL "A" - CROSSWALK

NOT TO SCALE

LA MIRADA DR LAS POSAS RD

SHOPPING CENTER DRWY

SCALE: 1" = 40'

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.

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ENGINEER OF WORK

KALYAN C. YELLAPU R.C.E. 75023 DATE

CITY APPROVED CHANGES

No.	Description	App'd By	Date

ENGINEER OF WORK

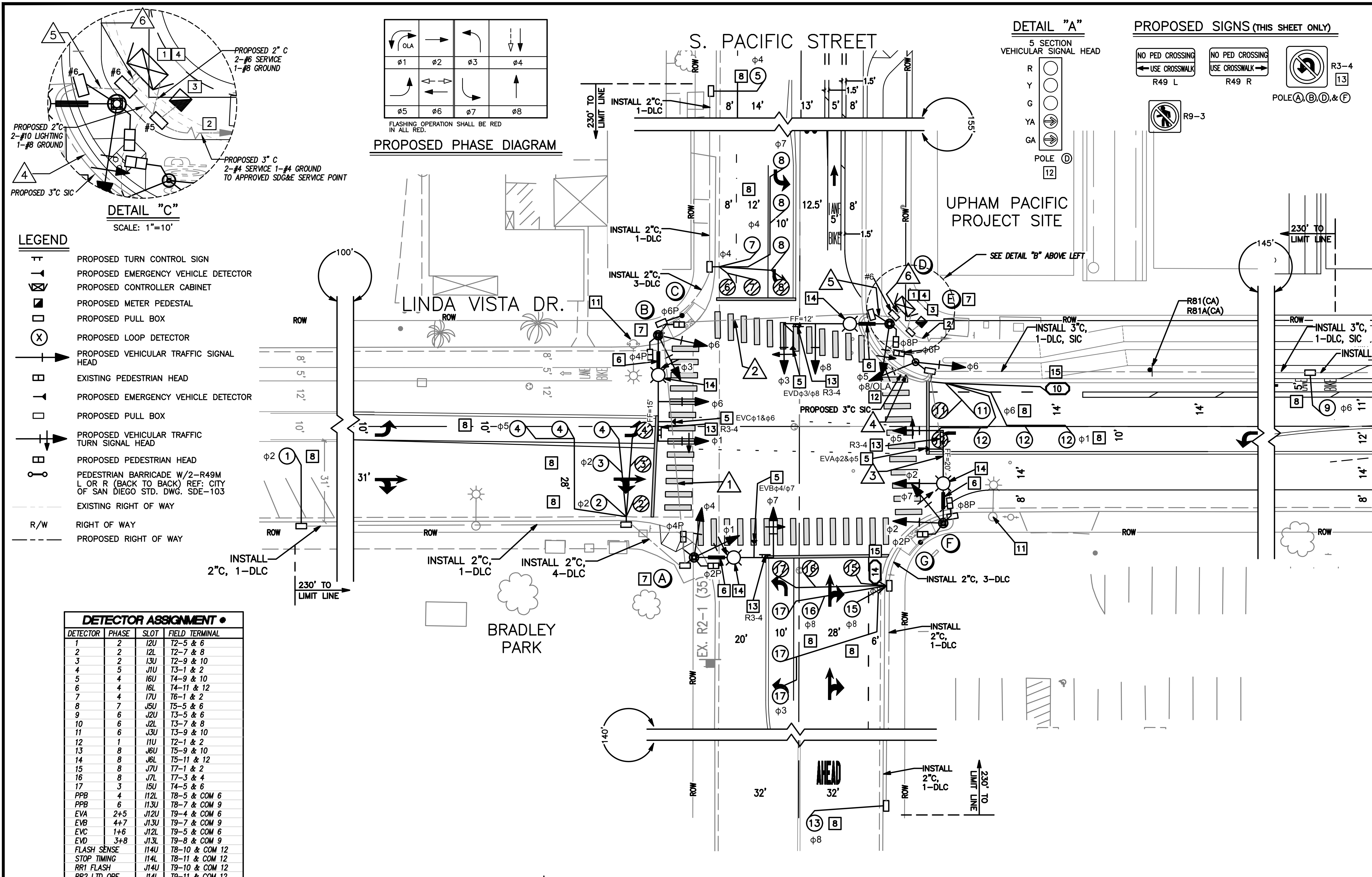
By: KALYAN C. YELLAPU Date: 12/31/25
R.C.E.: 75023 exp: 12/31/25

CITY OF SAN MARCOS

SIGNING & STRIPING PLAN FOR:
PACIFIC - SOUTH ALTERNATIVE
LA MIRADA DR - S. PACIFIC ST TO LAS POSAS RD

PLANNING PROJECT NO.
SP22-0001
GPA21-0001
R21-0001
MFS22-0001
TSM22-0001

City Drawing No.
IP20-XXXX
Sheet 4 of 6



- LEGEND**
- PROPOSED TURN CONTROL SIGN
 - PROPOSED EMERGENCY VEHICLE DETECTOR
 - PROPOSED CONTROLLER CABINET
 - PROPOSED METER PEDESTAL
 - PROPOSED PULL BOX
 - PROPOSED LOOP DETECTOR
 - PROPOSED VEHICULAR TRAFFIC SIGNAL HEAD
 - EXISTING PEDESTRIAN HEAD
 - PROPOSED EMERGENCY VEHICLE DETECTOR
 - PROPOSED PULL BOX
 - PROPOSED VEHICULAR TRAFFIC TURN SIGNAL HEAD
 - PROPOSED PEDESTRIAN HEAD
 - PEDESTRIAN BARRICADE W/2-R49M L OR R (BACK TO BACK) REF: CITY OF SAN DIEGO STD. DWG. SDE-103
 - EXISTING RIGHT OF WAY
 - R/W RIGHT OF WAY
 - PROPOSED RIGHT OF WAY

DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	2	I2U	T2-5 & 6	
2	2	I2L	T2-7 & 8	
3	2	I3U	T2-9 & 10	
4	5	J1U	T3-1 & 2	
5	4	I6U	T4-9 & 10	
6	4	I6L	T4-11 & 12	
7	4	I7U	T6-1 & 2	
8	7	J5U	T5-5 & 6	
9	6	J2U	T3-5 & 6	
10	6	J2L	T3-7 & 8	
11	6	J3U	T3-9 & 10	
12	1	I1U	T2-1 & 2	
13	8	J6U	T5-9 & 10	
14	8	J6L	T5-11 & 12	
15	8	J7U	T7-1 & 2	
16	8	J7L	T7-3 & 4	
17	3	I5U	T4-5 & 6	
PPB	4	I12L	T8-5 & COM 6	
PPB	6	I13U	T8-7 & COM 9	
EVA	2+5	J12U	T9-4 & COM 6	
EVB	4+7	J13U	T9-7 & COM 9	
EVC	1+6	J12L	T9-5 & COM 6	
EVD	3+8	J13L	T9-8 & COM 9	
FLASH SENSE		I14U	T8-10 & COM 12	
STOP TIMING		I14L	T8-11 & COM 12	
RR1 FLASH		J14U	T8-10 & COM 12	
RR2 LTD OPE		J14L	T8-11 & COM 12	

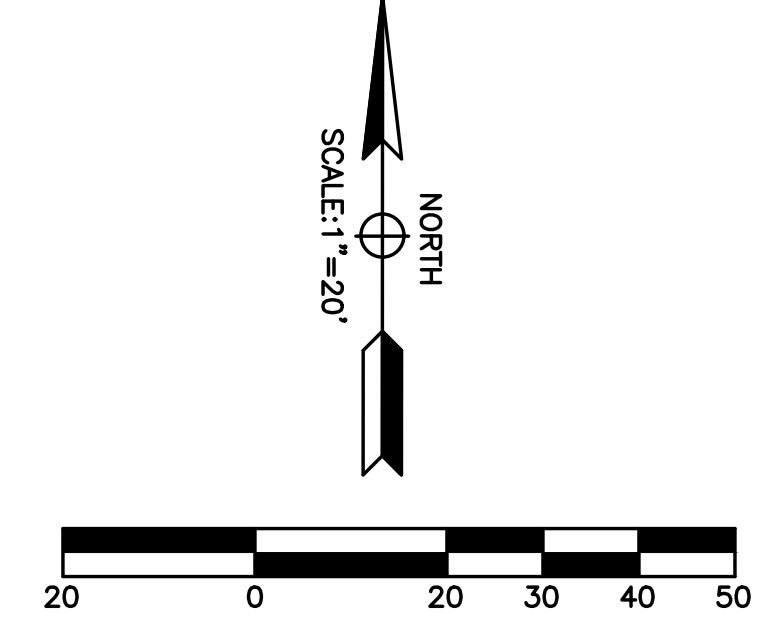
DECLARATION OF RESPONSIBLE CHARGE

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 SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK

KALYAN C. YELLAPU R.C.E. 75023 DATE



ENGINEER OF WORK		CITY APPROVED CHANGES	
By:	Date:	No.	Description
Name: KALYAN C. YELLAPU			
R.C.E.: 75023	exp: 12/31/25	App'd By	Date

BENCH MARK	
Description:	
Location:	
Record From:	Record of Survey 13928
Elev.:	Datum: NAVD88

CITY OF SAN MARCOS		City Drawing No.	
TRAFFIC SIGNAL PLAN FOR:		PLANNING PROJECT NO.	
PACIFIC - SOUTH ALTERNATIVE		SP22-0001	
LINDA VISTA DR AT S. PACIFIC STREET		GPA21-0001	
		R21-0001	
		MFS22-0001	
		TSM22-0001	
		Sheet 5 of 6	

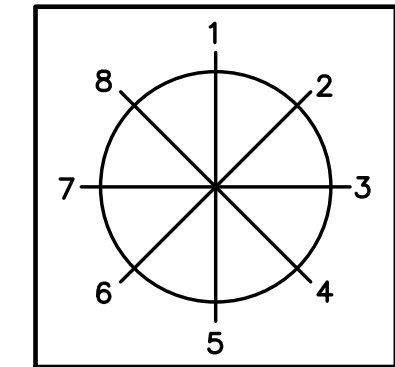
- WORK TO BE DONE:**
- THE IMPROVEMENTS CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:
- SAN DIEGO AREA REGIONAL STANDARD DRAWINGS
 - 2015 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
 - CITY OF SAN MARCOS SUPPLEMENT TO THE 2015 GREENBOOK ("STANDARD SPECIAL PROVISIONS")
 - CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE
 - CITY OF SAN MARCOS TRAFFIC SIGNAL MANUAL FOR NEW SIGNAL DESIGNS AND INSTALLATIONS
 - STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARDS PLANS
 - STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS
 - STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL TO MUTCD
 - VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS
- SPECIAL NOTE:**
- CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION:
- UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133**

- CONSTRUCTION NOTES (THIS SHEET ONLY)**
- FURNISH AND INSTALL MODEL 2070 LX CONTROLLER UNIT WITH MCCAIN OMNI EX FIRMWARE IN A MODEL 3521 ATC CABINET WITH AN LED INTERNAL LIGHT FRONT AND BACK (AVA TECHNOLOGY PART # US2324 OR CITY APPROVED EQUAL). FRONT AND BACK DOOR SWITCHES, AND RACK MOUNTED DOCUMENT DRAWER LOCATED UNDER THE CONTROLLER. CABINET SHALL BE WIRED FOR RED MONITOR AND FULL EIGHT (8)-PHASE CAPABILITY INCLUDING THE NECESSARY ACCESSORIES TO PROVIDE PHASING SHOWN ON THESE PLANS. INSTALL FOUNDATION PER STANDARD PLAN ES-3C. CABINET ASSEMBLY SHALL BE EQUIPPED WITH RENO MODEL 1101 SS LOOP DETECTOR CARDS, MODEL 2212-HV-MC CONFLICT MONITOR, MODEL 2220-MC ADU, A 10.4" FLAT SCREEN MONITOR (TO BE INSTALLED ONLY AT CCTV LOCATIONS), ETHERNET VIDEO REMOTE ACCESS CARD (IF OVERVIEW DETECTION IS USED), FIBER PATCH PANEL, ETHERNET SWITCH, AND POWERSTRIP. ANY DEVIATION FROM THE SPECIFIED EQUIPMENT SHALL BE APPROVED BY THE CITY ENGINEER.
 - INSTALL ONE, THREE INCH (1-3") (MINIMUM SIZE) DB ELECTRICAL SERVICE CONDUIT AND PULLROPE FROM THE SERVICE POINT TO THE METER PEDESTAL WITH THIRTY INCHES (30") MINIMUM COVER PER SDG&E REQUIREMENTS.
 - FURNISH AND INSTALL TYPE III-C SERVICE PER SDG&E REQUIREMENTS AND CABINET AND FOUNDATION AS SPECIFIED BY CALTRANS STANDARD PLAN ES-2C AND ES-2E. SERVICE SHALL HAVE SEPARATE MAIN DISCONNECT CIRCUIT BREAKERS FOR METERED AND UNMETERED SECTIONS, PLUG IN TYPE BREAKERS, AND 42,000 AIC RATING.
 - FURNISH AND INSTALL A CLARY BBS OR EQUIVALENT SYSTEM AS APPROVED BY THE CITY ENGINEER IN A SEPARATE UPS CABINET. SYSTEM SHALL BE ETHERNET COMPATIBLE.
 - FURNISH AND INSTALL ONE OPTICOM MODEL NO. 721 (OR EQUIVALENT AS APPROVED BY THE CITY ENGINEER) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE, CABLE, AND DETECTOR CARD) FOR EACH DIRECTION. FURNISH AND INSTALL OPTICOM MODEL NO. 764 PHASE SELECTORS IN CONTROLLER CABINET. SYSTEM SHALL BE ETHERNET COMPATIBLE.
 - FURNISH AND INSTALL SINGLE FACE REFLECTORIZED STREET NAME SIGN (RSNS). ALL NUTS, BOLTS, WASHERS AND FASTENERS SHALL BE STAINLESS STEEL. SEE POLE SCHEDULE FOR STREET NAME(S).
 - PEDESTRIAN SIGNALS SHALL BE COUNTDOWN TYPE AND PUSH BUTTONS SHALL BE 2" ADA AUDIBLE TYPE PER THE CITY OF SAN MARCOS "TRAFFIC SIGNAL DESIGNS AND INSTALLATIONS" MANUAL. FASTENERS FOR PEDESTRIAN PUSH BUTTON (PPB) SIGN PLATE SHALL BE INSTALLED WITH ANTI-SEIZE COMPOUND.
 - NEW LOOP DETECTION LAYOUT SHALL BE PERFORMED AFTER CITY APPROVED "TURKEY-TRACKING" OF PROPOSED CROSSWALKS AND STOP BAR LIMITS.
 - INSTALL PEDESTRIAN BARRICADE WITH 2-R49M L/R, OR R9-3 BACK TO BACK, PER CITY OF SAN DIEGO STD. DWG. SDE-103.
 - CONTRACTOR SHALL REMOVE STREET LIGHTS NOTED ON THE PLAN & COORDINATE WITH CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT & SDG&E FOR DIRECTION.
 - CONTRACTOR SHALL INSTALL A FIVE (5) SECTION VEHICLE SIGNAL INDICATIONS AT POLE (A) WHERE NOTED ON THE PLAN. OVERLAP "A" WILL BE RUN IN CONJUNCTION WITH PHASE Φ1.
 - FURNISH AND INSTALL MAST ARM MOUNTED SIGN AT LOCATIONS NOTED ON THE PLAN. REF: CALTRANS STANDARD PLAN ES-7N, DETAIL "U".
 - FURNISH AND INSTALL 130W LED AND PEC GE EVOLVE 130W LED (OR APPROVED EQUAL). LUMINAIRES SHALL CONFORM TO LATEST CITY OF SAN MARCOS STREET LIGHTING STANDARDS WITH GE EVOLVE TM LED ROADWAY SCALABLE COBRAHEAD FIXTURES FOR SAFETY LIGHTING (GE MODEL #ERS2_0_E3D1_7_40_7_GRAY_D_L (4000K))
 - INSTALL TYPE "Q" BIKE LANE INDUCTION LOOP PER CALTRANS STD. PLAN ES-5B.

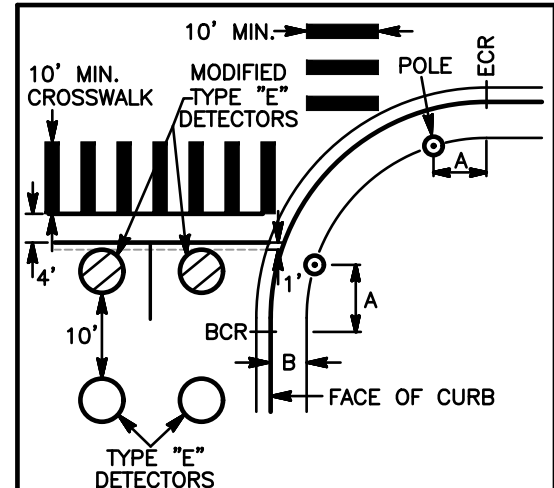
DESIGN SPEED: LINDA VISTA DR = 35 MPH
DESIGN SPEED: S. PACIFIC STREET = 35 MPH
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

○ EQUIPMENT SCHEDULE													
LOC.	STANDARD			LUMINAIRE (LED)	PLACEMENT DIMENSIONS		SIGNAL MOUNTING AND PLACEMENT					REMARKS	
	TYPE	MASTARM			A.	B.	VEHICLE		PEDESTRIAN				
		HT.	SIG.				LUM.	POLE	MASTARM	SIGNAL	PPB		LOC.
(A)	24-4-100	30'	30'	15'	130W	16'-8"	3'	SV-2-TB ● #1 / #4	● MAS #7	SP-2-T #2P #4P	#2 #4	1 7	[5][6][7][10][13][14] ALL EQUIPMENT IS NEW.
(B)	26-4-100	30'	40'	15'	130W	8'-7½"	3'	SV-2-TB #6 / ● #3	● MAS #1 MAS #6	SP-2-T #4P / #6P	-- --	-- --	[5][6][7][13][14] ALL EQUIPMENT IS NEW.
(C)	PPB	3'-6"	--	--	--	16'-8"	5'-5½"	--	--	--	#4 #6	3 5	[7] ALL EQUIPMENT IS NEW.
(D)	24-4-100	30'	30'	15'	130W	10'-8"	7'	SV-2-TB ● #5 ▲ #8/OLA	● MAS #3 MAS #8	SP-1-T #8P	#6	5	[5][6][7][12][14] ALL EQUIPMENT IS NEW.
(E)	TYPE 1A	10'	--	--	--	11'-4"	3'	SV-2-TB ● #5 / #6	--	SP-1-T #6P	#8	7	[7][10] ALL EQUIPMENT IS NEW.
(F)	26-4-100	30'	40'	15'	130W	8'-7½"	3'	SV-2-TB #2 / ● #7	● MAS #5 MAS #2	SP-2-T #2P #8P	-- --	-- --	[5][6][10][12][13][14] ALL EQUIPMENT IS NEW.
(G)	PPB	3'-6"	--	--	--	16'-8"	5'-5½"	--	--	--	#2 #8	1 7	[7] ALL EQUIPMENT IS NEW.

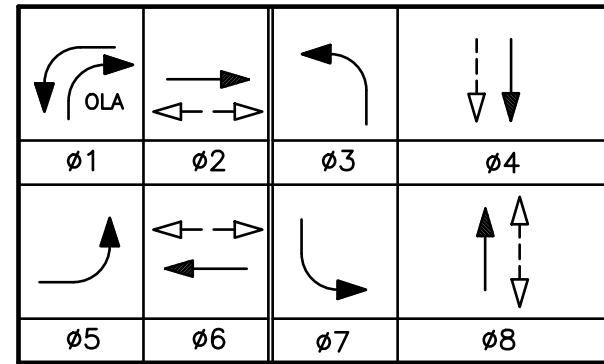
● = RED ARROW, YELLOW ARROW, GREEN ARROW ▲ = 5-SECTION VEHICULAR SIGNAL HEAD, SEE DETAIL "A" ON SHEET TS-5.



PUSH BUTTON
LOCATION DETAIL



DETECTOR LOOP AND
POLE LOCATION DETAIL
NOT TO SCALE



FLASHING OPERATION SHALL BE RED
IN ALL RED.
PROPOSED PHASE DIAGRAM

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 - 7) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL TO MUTCD
 - 8) VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS

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ENGINEER OF WORK



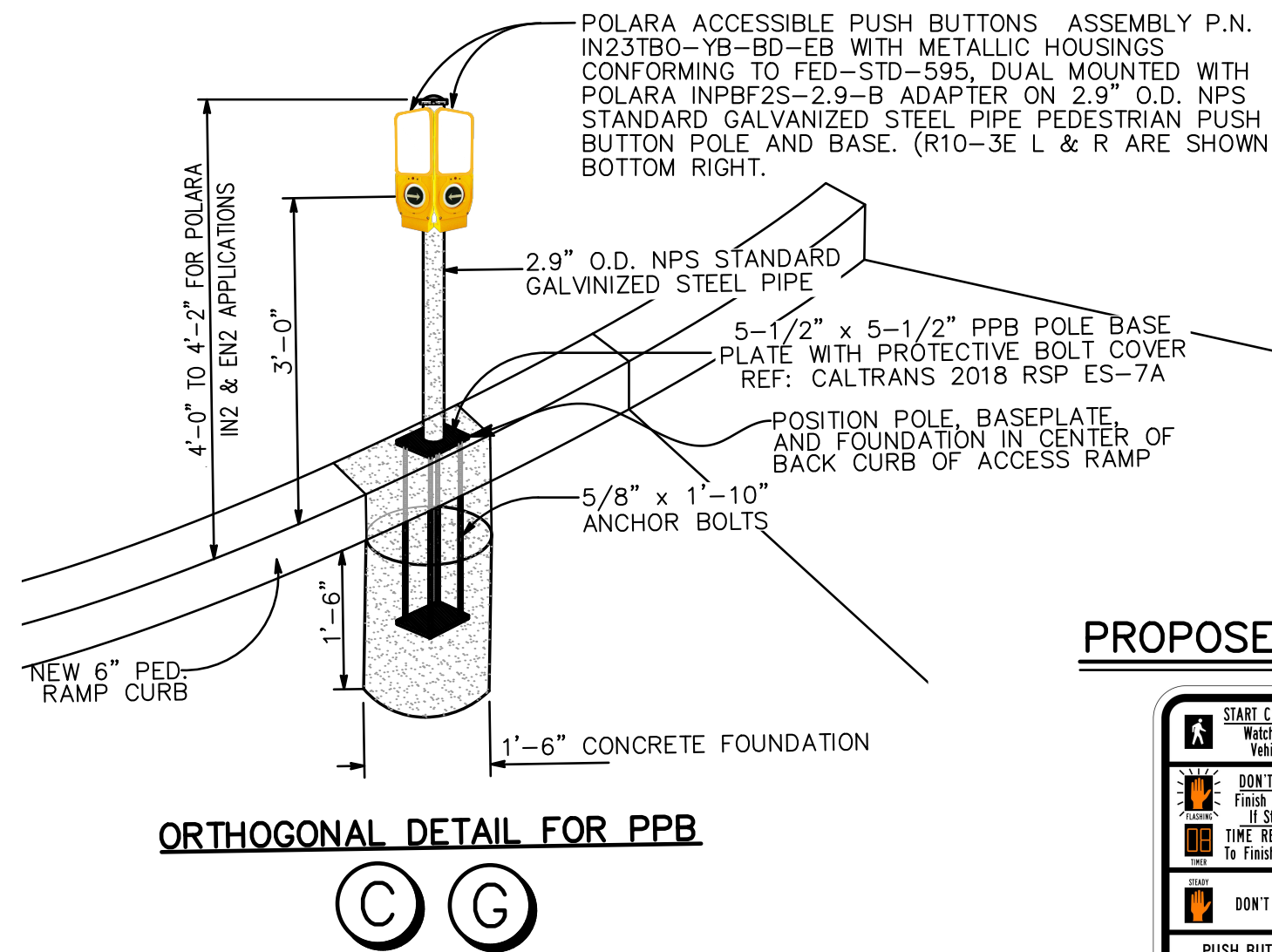
KALYAN C. YELLAPU R.C.E. 75023 DATE

ENGINEER OF WORK		CITY APPROVED CHANGES	
By:	Date:	No.	Description
Name: KALYAN C. YELLAPU			
R.C.E.: 75023	exp: 12/31/25		

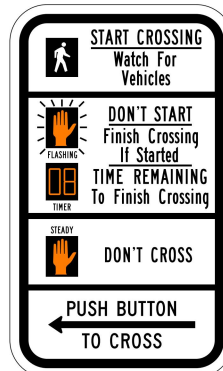
DETAIL "D" - POLE C AND POLE Q

ADA COMPLIANT PEDESTRIAN PUSHBUTTON POLE MOUNTED ON 6" PEDESTRIAN CURB

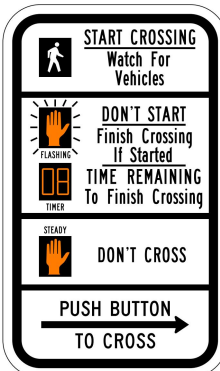
NORTH WEST CORNER & SOUTH EAST CORNER



PROPOSED SIGNS (THIS SHEET ONLY)



R10-3E L



R10-3E R

T8-6

BENCH MARK		CITY OF SAN MARCOS		City Drawing No.
Description:		TRAFFIC SIGNAL PLAN FOR:	PLANNING PROJECT NO:	P20-XXXX
Location:		PACIFIC - SOUTH ALTERNATIVE	SP22-0001	
Record From:	Record of Survey 13928	LINDA VISTA DR AT S. PACIFIC STREET	GP21-0001	
Elev.:	Datum: NAVD88		R21-0001	
				Sheet 6 of 6