

IMPROVEMENT NOTES

1. The structural sections shown on these plans are based on R-value tests or minimum structural standards required by the City, whichever is greater. Actual structural sections will be determined after the "R" value test has been conducted by a qualified geotechnical engineer on the prepared sub-base material. The "R" value test and recommended engineered structural section must be approved by the Public Works Director prior to the installation of base and paving materials. Structural sections shall be designed in accordance with Chapter 600 of the Caltrans Highway Design Manual. Structural sections shall be noted on the "As-Built" drawings.

This note will not apply to those areas where grading is minimal and "R" values can be obtained prior to plan approval. All existing streets shall be core tested to determine the existing structural section and to determine the extent of overlay or reconstruction necessary to achieve the required "R" values, tests shall be performed at locations approved by the Public Works Director.

2. All electrical, telephone and cable television utilities shall be constructed/converted to underground. The relocation and/or undergrounding of existing and new utilities shall be done by the developer of the property at no cost to the City.
3. All underground utilities and laterals shall be installed before construction of the curb and gutter or surfacing of streets.
4. A permit shall be obtained from the City of San Marcos for any excavation and/or construction within the proposed project and public right-of-way.
5. Contractor shall notify the assigned City of San Marcos Engineering Inspector 48-hours prior to the beginning of any grading/construction.
6. Precise locations/elevations of the existing underground utilities are not known. The Contractor shall be solely responsible for making sufficient explorations to locate all utilities and substructures whether shown on the plans or not and to protect them from any possible damage prior to and during construction. The expense of repair or replacement of said utilities and substructures shall be borne by the Contractor. Contractor shall notify the Engineer-of-Work of any potential conflicts sufficiently in time for construction changes to be made and approved.
7. The Contractor shall contact the Underground Service Alert at 1-800-422-4133 at least 48 hours prior to excavating to verify the locations of underground facilities of the following utilities:

Cox Communications
AT&T
San Diego Gas & Electric
Vallecitos Water District
Buena Sanitation District
Vista Irrigation District

A Dig Alert Identification Number must be issued before a "Permit to Excavate" is valid per Government Code section 4216/4217.

8. An AS-BUILT drawing shall be submitted for all public improvements prior to acceptance of said improvements.
9. The Engineer-of-Work shall be notified when construction commences.
10. Contractor shall be responsible for all construction/grading of slopes, pads, street grades, and infrastructure improvements according to these plans. The Engineer-of-Work shall be contacted when changes or additions are made during the progress of construction or if there is a misunderstanding of these plans or field stakes and an interpretation is needed.
11. Certification from the registered civil engineer stating that the grading has been completed per the approved plan, and the compaction report from the geotechnical engineer on any required fill areas shall be provided prior to building permits being issued.
12. Contractor shall be responsible for protecting any monumentation and/or benchmarks. Any monumentation and/or benchmarks which are disturbed or destroyed by construction shall be replaced at the contractor's expense. Such points shall be referenced and replaced with appropriate monumentation by a licensed land surveyor or a registered civil engineer authorized to practice land surveying. A Corner Record or Record of Survey, as appropriate, shall be filed by the licensed land surveyor or registered civil engineer as required by the Land Surveyor's Act.
13. All existing features and structures in conflict with these plans shall be relocated or removed at the developer's expense.
14. Minimum 90% compaction is required in all on-site fill areas with a minimum of 95% compaction twelve inches (12") below finished subgrade in a public street.
15. All public improvements shown on these improvement plans shall be constructed to the satisfaction of the Engineering Director prior to occupancy of any building.
16. All operations conducted on the premises, including the warming up, repair, arrival, departure or running of any equipment shall be limited to the hours of 7:00 a.m. to 4:30 p.m., Monday through Friday. No work shall be performed on the premises on Saturday, Sunday or holidays.
17. No private irrigation mains or control valves shall be placed within the public right-of-way.
18. Curb ramps shall be installed at all curb returns per Title 24, Part 2, State Chapter 71, Site Development Requirements for Handicapped Accessibility, Section 7103, Curb Ramps, of the California Building Code.
19. Excavation, fills, and obstructions in Public Places shall conform to the requirements of City Ordinance 2022-1521 subject to the approval of the Director.
20. These plans have been examined by the City's Engineering Division to insure compliance with general engineering standards and the City's design standards and specifications.
21. The Engineer-of-Work shall bear the sole responsibility of the mathematical data and accuracy of design shown hereon.
22. If the improvements shown on this plan have not been constructed and accepted by the City within two (2) years of the date of plan approval by the City Engineer, these plans will be subject to review by the City's Engineering Division for conformance with current City standards, policies and/or additional requirements.
23. The Contractor shall be responsible for the installation, relocation or replacement of all striping, signing or traffic detector loops as required by the Engineering Director.
24. Street signing and striping are the responsibility of the contractor and are subject to City of San Marcos Engineering Department approval.
25. Dust control measures, such as the periodic wetting down of the bare and exposed areas, shall be used at all times during construction to the satisfaction of the Engineering and/or Building Inspectors.
26. The Contractor is responsible for maintaining the adjoining public streets and right-of-ways in a clean and dust free condition within the limitation of the City Municipal Code Section 14.15.030 "Illicit Discharges Prohibited." This section of the Code prohibits the "washing down" of a street into a public storm drain. The continuous use of street sweeping machines may be advisable.
27. The Engineer-of-Work is not responsible for grading operations or grading done. The Contractor is solely responsible.

WATER DISTRICT	SAN MARCOS FIRE PROTECTION DISTRICT
By: _____ Date: _____	By: _____ Date: _____
R.C.E. NO. _____ exp.: _____	JASON NAILON, FIRE MARSHAL
PRESSURE ZONE: _____ HGL	APPROVED FIRE HYDRANT FLOW _____*(GPM)
PUMP ZONE: _____	WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY

CONT. IMPROVEMENT NOTES

28. A permit must be obtained from the San Marcos Fire Department prior to any blasting. City permits are required prior to any construction, excavation, storage of materials, or any other encroachments.
29. Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including the safety of all persons and property. This requirement shall apply continually and not be limited to normal working hours. The Contractor shall defend, indemnify, and hold the owner, the engineer, and the City harmless from any and all liability, real or alleged, in connection with the performance of work on this project excepting for liability arising from the sole negligence of the owner, engineer, or City.
30. Erosion control, including rip-rap, interim slope protection, sandbags or other erosion control measures shall be provided as necessary to control sediment and silt from the project. The Contractor shall be responsible for maintaining all erosion control facilities throughout the development of the project.
31. A traffic control plan, including the layout of construction warning and detour signs, shall be submitted to the Engineering Department for approval a minimum of 14 days prior to the commencement of construction. Traffic control shall be implemented before any work is started.
32. In no case shall the City be responsible for construction costs for these improvements, including the undergrounding of existing and new dry utilities, or any necessary repairs.

FIRE NOTES

1. Fire sprinklers are required on all homes on lots _____ through _____.
2. All lots requiring fire sprinklers must have a minimum _____" water meter.
3. Fire hydrants shall be CLOW Model 865 with Two 4" and One 2.5" port.
4. The tops and nozzle caps of the fire hydrant shall be color coded per NFPA 291 based on fire flow:
Class AA – Light Blue Paint – 150 GPM or greater
Class A – Green Paint – 100 to 1499 GPM
Class B – Orange paint – 500 to 999 GPM
Class C – Red Paint – Less than 500 GPM
5. Color coding shall be from FSC Coatings, Ametco Silicon Poly Plus.

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
X	SHEET INDEX MAP
X	SECTIONS
X-X	DEMOLITION & ROUGH GRADING
X-X	STREET IMPROVEMENTS
X-X	DRIVEWAY CROSS SECTIONS
X-X	STORM DRAIN PROFILE
X-X	WATER & SEWER PLAN
X-X	WATER & SEWER PROFILE
X-X	STRIPING PLAN
X-X	RETAINING WALL PLAN
X-X	RETAINING WALL PROFILE
X-X	TRAFFIC SIGNAL PLAN
X-X	TRAFFIC CONTROL
X-X	EROSION CONTROL
X-X	WATER QUALITY/HYDROMODIFICATION
X-X	LANDSCAPING

EARTHWORK SCHEDULE

CUT:	XXXX CY
FILL:	XXXX CY
OVEREXCAVATION:	XXXX CY
IMPORT/EXPORT:	XXXX CY

SITE ADDRESS AND ASSESSOR PARCEL NUMBERS

SITE ADDRESS LINE 1
SITE ADDRESS LINE 2

ASSESSOR PARCEL NO(S): XXX-XXX-XX-XX & XXX-XXX-XX-XX

OWNER

OWNER NAME/COMPANY NAME
ADDRESS LINE 1
ADDRESS LINE 2
TELEPHONE NO.
EMAIL

DATE: _____

TITLE/COMPANY

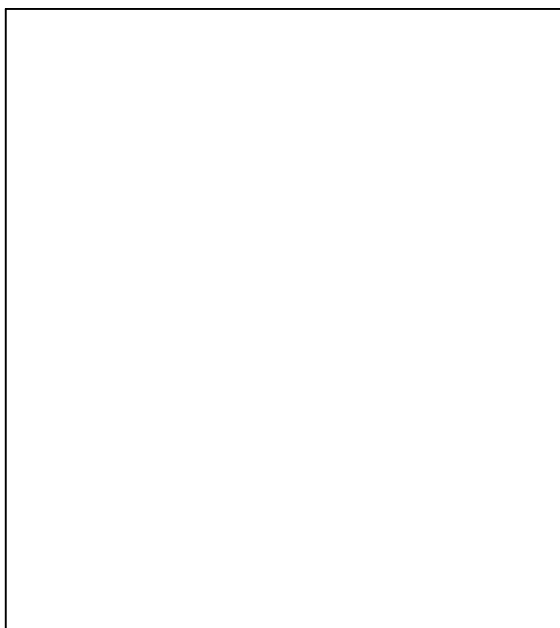
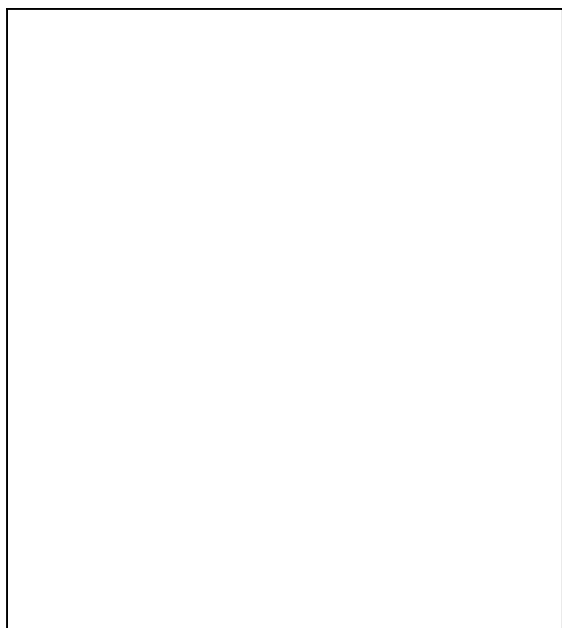
STORM WATER SUMMARY

WDID:
PROJECT AREA:
DISTURBED AREA:
IMPERVIOUS AREA:
STORM WATER DEVELOPMENT PROJECT TYPE: PRIORITY/ STANDARD/ EXEMPT
CITY BMP ID NO: XX THRU XX
FACILITY TYPE: MIXED USE/ RESIDENTIAL/ COMMERCIAL/ INDUSTRIAL
MAINTENANCE AGREEMENT DOC #:

CITY APPROVED CHANGES					
Δ/NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE
Δ	EXAMPLE FOR VOIDED SHEET: VOIDED SHEET, REPLACE WITH SHEET #A	#.#.#			
Δ	EXAMPLE FOR UTILITY CHANGE: REVISED WATER SERVICE LOCATION AND ADDITION OF WATER LATERAL PROFILE	#.#.#			
Δ	EXAMPLE FOR RW CHANGE: REVISED LIMITS OF RETAINING WALL AND Tf,TW ELEVATIONS. REVISED FOOTING IN RW DETAIL	#.#.#			

CITY OF SAN MARCOS

IMPROVEMENT PLANS FOR
XXXXXXXXXXXXXXXXXX



VICINITY MAP
N.T.S.

LOCATION MAP
N.T.S.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR SHEETS XXXX THRU XXXX OF THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS 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 THE PROJECT DESIGN.

XXXXXXXXXXXXXXXXX RCE 12345 EXP. 6/30/XX DATE: _____

ASSUMPTION OF RESPONSIBLE CHARGE

AFTER CITY ENGINEER'S APPROVAL OF A SET OF PLANS, IF A NEW ENGINEER ASSUMES RESPONSIBLE CHARGE OF THE WORK, THEY SHALL ADD, SIGN, AND SEAL THE FOLLOWING IN EACH SHEET:

AS OF _____, I HEREBY ASSUME RESPONSIBLE CHARGE FOR DESIGN CHANGES TO THIS DRAWING

XXXXXXXXXXXXXXXXX RCE 12345 EXP. 6/30/XX DATE: _____

FIRM:
ADDRESS:
TELEPHONE #:

GEOTECHNICAL ENGINEER CERTIFICATE

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED RELATIVE TO GEOTECHNICAL ASPECTS OF THE PLANS AND HAVE BEEN FOUND TO BE IN CONFORMANCE WITH INTENTIONS OF THE FINDINGS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT BY JXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (GE XXXX) DATED XXXXXXXX XX, XXXX.

XXXXXXXXXXXXXXXXX GE 12345 EXP. 12/31/XX DATE: _____

GENERAL NOTES

LIST OF EASEMENTS & ENCUMBRANCES			
EASEMENT/ENCUMBRANCE TYPE	GRANTEE	RECORDED DOCUMENT NO.	RECORDATION DATE
CC&RS	XXXXXXXX XXXXX	1234-0001234	XX/XX/XXXX
PUBLIC DRAINAGE ESMT FOR ACCESS AND MAINTENANCE	CITY OF SAN MARCOS	2345-0002345	XX/XX/XXXX
RECIPROCAL ACCESS EASEMENT TO THE BENEFIT OF XXX-XXX-XX	XXXXXXXX XXXXX	1234-0001234	XX/XX/XXXX

ENGINEER OF WORK	
By: FIRST LAST NAME R.C.E.: _____ exp.: _____ Date: _____	
RECOMMENDED FOR APPROVAL	
By: Kyrenne Chua, Principal Civil Engineer R.C.E.: 91911 exp.: 3/31/2027 Date: _____	
APPROVED FOR CONSTRUCTION	
By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2027 Date: _____	
BENCH MARK	
Description: _____	
Location: _____	
Record From: Record of Survey 23731	
Elev: _____	Datum: NAVD88

ENGINEER OF WORK AS-BUILT CERTIFICATE	
AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET XXXX THROUGH SHEET XXXX, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.	
FIRST LAST NAME	RCE 12345 EXP. 6/30/XX

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
 - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
 - CITY OF SAN MARCOS SUPPLEMENT TO THE GREENBOOK ("STANDARD SPECIAL PROVISIONS")
 - CITY OF SAN MARCOS MUNICIPAL CODE
 - 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
 - CITY OF SAN MARCOS BMP DESIGN MANUAL

SPECIFIC REPORT NAME	PREPARED BY	DATE	UPDATES
GEOTECHNICAL			
SWQMP			
SWPPP			
HYDROLOGY/HYDRAULIC			
BIOLOGICAL			

LEGEND			
ITEM	QTY	STD DWG	SYMBOL
PROPERTY LINE			— P —
RIGHT OF WAY LINE			— R/W —
AC PAVING			— AC —
REMOVE EXISTING PAVEMENT			— X —
PROPOSED CURB AND GUTTER	XXX LF	SDRSD G-2	— C —
PROPOSED CONCRETE SIDEWALK	XXX SF	G-7 & G-9	— S —
PROPOSED DRIVEWAY APPROACH	XXX SF	G-14	— A —
PROPOSED PED. RAMP	XX EA	SDRSD G-27	— R —
6" DIP WATERLINE			— W —
FIRE HYDRANT	XX EA	VWD W-4 & W-5	— H —
STORM DRAIN PIPE			— SD —
STORM DRAIN TRENCH	XXXX SF	SDRSD D-60	— T —
TYPE 'A-4' CLEANOUT	XX EA	SDRSD D-9	— C —
TYPE 'A' INLET	XX EA	SDRSD D-1	— I —
TYPE 'B' INLET	XX EA	SDRSD D-2	— I —
TYPE 'B-1' INLET	XX EA	SDRSD D-2	— I —
RETAINING WALL			— R —
FENCE			— X — X — X — X — X
EXISTING CURB AND GUTTER			— C —
EXISTING BERM			— B —
EXISTING WALL			— W —
EXISTING FENCE			— F —
EXISTING PED. RAMP			— R —
EXISTING STREET LIGHT			— L —
EXISTING WATER			— W —
EXISTING FIRE HYDRANT			— H —
EXISTING SEWER			— S —
EXISTING GAS			— G —
EXISTING TELECOMMUNICATIONS			— T —
EXISTING ELECTRICAL			— E —
EXISTING CABLE TV			— CATV —

AS-BUILT

INSPECTED AND RECOMMENDED FOR ACCEPTANCE		APPROVED AS RECORD PLAN	
Engineering Inspector _____ Date: _____		ISAAC ETCHAMENDY 81294 9/30/2027 DATE: _____	
CITY OF SAN MARCOS		City Drawing No.	
IMPROVEMENT PLANS FOR: XXXXXXX XXXXXXX XXXXXXX		GPXX-XXXX PROJECT NO. SDPXX-XXXX MF XXXX	
XXXXXX XXXXXXX XXXXXXX		IP25-XXXX	
		Sheet 1 of X	

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 in 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.

AT&T
San Diego Gas & Electric
Vallecitos Water District
Cox Communications
Buena Sanitation District
Vista Irrigation District

3. 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.
4. Pole, detector, and equipment locations are approximate. The City of San Marcos' Engineering Department Inspectors and/or Traffic Signal Lighting Supervisor shall field verify and approve the exact equipment locations prior to installation.

6. All traffic signal conduit 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.

8. Curb ramps shall be installed at all curb returns per Title 24, Part 2, State Chapter 71, Site Development Requirements for Handicapped Accessibility, Section 7103, Curb Ramps of the California Building Code, and shall include truncated domes (type and color as directed by the Engineer).

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

12. Existing traffic signal facilities, signals, and communication 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. 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. 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 specification. The Engineer-of-Work shall bear the sole responsibility of the mathematical data and accuracy of design shown hereon.

18. The Contractor shall be responsible for the installation, relocation, or replacements of all traffic loop detectors as required by the Traffic Engineer within 48 hours of direction, or install temporary video detection loop detector work is completed. Existing traffic signal detectors temporarily damaged during construction shall be replaced within 48 hours of date and time of damage or removal. Damaged or removed loops shall be replaced with new loops or replaced. The Contractor shall furnish and install temporary video detection cameras, detection cards, and other equipment as necessary for full perpetration. Approval is required by the City's Traffic Signal Supervisor prior to operation. The Contractor shall repair asphalt paving and supply slurry seal coat after installation of loops.

WATER DISTRICT	
By: _____	Date: _____
R.C.E. NO. _____	exp.: _____
PRESSURE ZONE: _____	HGL _____
PUMP ZONE: _____	

SAN MARCOS FIRE PROTECTION DISTRICT

By: _____ Date: _____

JASON NAILON, FIRE MARSHAL

APPROVED FIRE HYDRANT FLOW _____*(GPM)

*GALLON PER MINUTE

WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR,
OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER
SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY

1. All striping and pavement markings shall be the responsibility of the CONTRACTOR. Traffic striping, pavement legends and raised pavement markers shall be installed in accordance with the latest version of the CAMUTCD and Caltrans Standard Plans.
2. All arrows, whether in turn lanes, bike lanes or otherwise, shall conform to Caltrans Standard Plan A24A.
3. Symbols and Numerals: Symbols and numerals shall conform to the Caltrans Standard Plan A24C. The City of San Marcos has designated the "Bike Lane Symbol with Person" (facing left to the 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 thermoplastic.

8. All striping shall include raised pavement markers (RPMs) per the appropriate CAMUTCD details.

10. The CONTRACTOR shall remove all conflicting pointed 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 workday. "Blocking out" of existing striping is not allowed. Where traffic striping or pavement markings are to be removed by sandblasting or grinding, the pavement shall be repaired and slurry sealed (Type I or II Slurry) at the discretion of the City Inspector.

13. Signalized intersections shall have marked pedestrian crosswalks. All crosswalks, limit lines, stop bars, pavement arrows, school legends, and STOP pavement legends shall be installed with thermoplastic, unless otherwise noted on the plan.

15. A minimum of 100-foot Detail 22 (double yellow) centerline striping shall be installed along all knuckles and horizontal curvatures with the radius of 100-foot or less. Red curb or R26(CA) "NO PARKING ANYTIME" signs shall be installed on the inside of the roadway curvature.

16. All Detail 40 and Detail 41 lane extension striping through intersections shall be installed with thermoplastic, unless otherwise noted on the plans.

17. The "Bike Lane Symbol with Person" legend and arrow combination per the CAMUTCD shall be installed as part of on-street bike lane striping at the beginning of each block.

18. The diagonal and chevron striping within buffer bike lanes shall be six-inch white installed with thermoplastic, unless otherwise noted on the plans. When the buffer is two-to-four-feet in width, the single diagonal “/” marking shall be used; when the buffer is equal to four-feet in width or greater, the chevron “V” marking shall be used. When the buffer is less than two-feet, no chevron striping is used.

19. GREEN painted bike facilities:
 - a. Shall be installed at bike facilities approaching intersecting roadways or as directed by the City Traffic Engineer;
 - b. Shall be methyl methacrylate (MMA); glass beads shall not be installed in GREEN painted bike facilities.

[illegible]

1. Signing shall be the responsibility of the CONTRACTOR and shall be subject to City of San Marcos Development Services approval. All signs shall conform to the latest edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD).
2. Sign posts in the public right-of-way:

b. shall have seven feet (7') vertical clearance above finished grade;

c. shall not have more than a maximum of two signs (with different meanings) on each;

d. located in the median, shall be set in an eight-inch diameter (8"φ) by twenty-four inch (24") (8"φ x 24") deep PVC sleeve and backfilled with native soil, decomposed granite, or sand to the top of the sleeve;

e. located in the sidewalk, a four-inch diameter core (4"φ) shall be drilled. Backfill shall be four inches (4") of concrete above twenty inches (20") of native soil, decomposed granite or sand;

f. shall be new;

g. shall be rejected if damaged, bent or splintered;

h. locations shall be marked by CONTRACTOR and approved by the City Engineer or their assignee prior to final placement;

i. shall have a minimum of forty-eight inches (48") horizontal distance between post and back edge of sidewalk;

j. shall be 2-7/8" aluminum posts for street name signs and STOP (R1-1) signs;

k. shall be wrapped with 10-mil polyethylene wrapping tape or approved equal around base of breakaway post below subgrade;

l. shall comply with installation details for Break-Away Sign Post per San Diego Regional Standard Drawing M-45;

m. Wood posts used for Class II or III barricades shall be painted white.

3. Signs:

- a. shall be aluminum and meet Caltrans Standard Specifications Section 82-2.02C "Retroreflective Sheeting";
- 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. if mounted on:
 - 1] new or existing street lights standards shall use a 3/4" "band it" steel strapping with fasteners;
 - 2] aluminum posts shall use 2-7/8" post caps for single signs and 2-7/8" cross saddle for two signs;
- f. mounted on power/utility poles are prohibited;
- g. size shall comply with the latest edition of the CAMUTCD, Part 2 - Signs.

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".

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, Development Services upon completion of sign installations.

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, limit line, STOP legend and a minimum of 50-feet of Detail 22 (double yellow) centerline striping unless adjacent to median. Placement of STOP sign shall be in accordance with the CAMUTCD.

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. All school area signs shall be Fluorescent Yellow Green (FYG) background colored in accordance with the latest edition of the CAMUTCD.

12. If it is necessary to prohibit certain pedestrian movements at a traffic signal-controlled intersection, CONTRACTOR shall install a TYPE I Pedestrian Barricade per Caltrans Standard Plan ES-7Q; if site constraints prevent installation of Pedestrian Barricade, CONTRACTOR shall install (R9-3) "NO PEDESTRIAN CROSSING" signs.



AS-BUILT

RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: <u>Kyrenne Chua, Principal Civil Engineer</u> R.C.E.: <u>91911</u> exp.: <u>3/31/2027</u>		By: <u>FIRST LAST NAME</u> R.C.E.: _____ exp.: _____ Date: _____		_____ Engineering Inspector _____ Date _____		_____ FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS			
By: <u>Isaac Etchemendy, City Engineer</u> R.C.E.: <u>81294</u> exp.: <u>9/30/2027</u>		Description: _____ Location: _____ Record From: <u>Record of Survey 23731</u> Elev.: _____ Datum: <u>NAVD88</u>		IMPROVEMENT PLANS FOR: XXXXXX XXXXXXXX XXXXXXXX PLANNING PROJECT NO. <u>IP25-XXXXX</u> SDP XX-XXXX MF XXXX			
				Sheet 2 of X			

BUENA SANITATION DISTRICT GENERAL NOTES

- | | |
|--|----------------|
| UNDERGROUND SERVICE ALERT | (800) 422-4133 |
| UNDERGROUND SERVICE ALERT (SDG&E) | (800) 227-2600 |
| SAN DIEGO GAS & ELECTRIC (EMERGENCY) | (800) 411-7343 |
| PACIFIC BELL TELEPHONE CO. (EMERGENCY) | 611 |
| IRISTA IRRIGATION DISTRICT (ENG. DEPT) | (760) 597-3116 |
| IRISTA IRRIGATION DISTRICT (EMERGENCY) | (760) 597-3131 |
| COX CABLE (EMERGENCY) | (760) 599-6063 |
| DELPHIA COMMUNICATIONS (EMERGENCY) | (760) 438-7741 |
| CITY OF VISTA (MAIN NUMBER) | (760) 726-1340 |
| RANCHO FIRE DISPATCH (EMERGENCY) | (858) 756-3006 |
| *THIS NUMBER IS FOR THE CITY OF VISTA (AFTER HOURS EMERGENCY DISPATCH FOR SEWER SPILLS OR STORM DRAIN CONTAMINATION) | |

- ## VISTA IRRIGATION DISTRICT GENERAL NOTES

- ** INSERT VID SIGNATURE BLOCK AS NEEDED****

[illegible]

EROSION CONTROL NOTES

- ** INSERT ON EROSION CONTROL SHEET ****

TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION

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AS-BUILT

WATER DISTRICT	SAN MARCOS FIRE PROTECTION DISTRICT
By: _____ Date: _____	By: _____ Date: _____
R.C.E. NO. _____ exp.: _____	JASON NAILON, FIRE MARSHAL
PRESSURE ZONE: _____ HGL	APPROVED FIRE HYDRANT FLOW _____ *(GPM) *GALLON PER MINUTE
PUMP ZONE: _____	WATER DISTRICT IS NOT RESPONSIBLE FOR MAINTENANCE, REPAIR, OR REPLACEMENT OF FIRE HYDRANTS UNLESS SPECIFIED UNDER SEPARATE AGREEMENT WITH THE JURISDICTIONAL FIRE AGENCY

RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: <u>Kyrenne Chua, Principal Civil Engineer</u> R.C.E.: <u>91911</u> exp.: <u>3/31/2027</u>		By: <u>FIRST LAST NAME</u> R.C.E.: _____ exp.: _____ Date: _____		Engineering Inspector _____ Date _____		FIRST LAST NAME _____ RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS			
By: <u>Isaac Etchamendy, City Engineer</u> R.C.E.: <u>81294</u> exp.: <u>9/30/2027</u>		Description: _____ Location: _____ Record From: <u>Record of Survey 23731</u> Elev.: _____ Datum: <u>NAVD88</u>		IMPROVEMENT PLANS FOR: <u>XXXXXX XXXXXXXX XXXXXXXX</u> PLANNING <u>XXXXXX XXXXXXXX XXXXXXXX</u>			
				GPXX-XXXXX PROJECT NO. SDP XX-XXXX MF XXXX IP25-XXXXX			
				Sheet 3 of X			