### **IMPROVEMENT NOTES**

- 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.
- 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.
- ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF THE CURB AND GUTTER OR SURFACING OF STREETS.
- 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.
- CONTRACTOR SHALL NOTIFY THE ASSIGNED CITY OF SAN MARCOS PUBLIC WORKS INSPECTOR 48-HOURS PRIOR TO THE BEGINNING OF ANY GRADING/CONSTRUCTION.
- 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.
- 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

COX COMMUNICATIONS OR ADELPHIA COMMUNICATIONS

PACIFIC BELL/SBC

SAN DIEGO GAS & ELECTRIC/SEMPRA VALLECITOS WATER DISTRICT

- A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A "PERMIT TO EXCAVATE" IS VALID PER GOVERNMENT CODE SECTION 4216/4217.
- 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 MADE DURING THE PROGRESS OF CONSTRUCTION OR IF THERE IS A MISUNDERSTANDING OF THESE PLANS OR FIELD STAKES AND AN INTERPRETATION IS NEEDED. 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.
- 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.
- 12. ALL EXISTING FEATURES AND STRUCTURES IN CONFLICT WITH THESE PLANS SHALL BE RELOCATED OR REMOVED AT THE DEVELOPER'S EXPENSE.
- 13. MINIMUM 90% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITH A MINIMUM OF 95% COMPACTION SIX INCHES (6") BELOW FINISHED SUBGRADE IN A PUBLIC STREET.
- 14. ALL PUBLIC IMPROVEMENTS SHOWN ON THESE IMPROVEMENT PLANS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR PRIOR TO OCCUPANCY OF ANY BUILDING.
- 15. 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.
- 16. NO PRIVATE IRRIGATION MAINS OR CONTROL VALVES SHALL BE PLACED WITHIN THE PUBLIC RIGHT\_OF\_WAY.
- 17. 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.
- 18. ALL TRENCH EXCAVATION AND BACKFILL IN THE PUBLIC RIGHT\_OF\_WAY SHALL CONFORM TO THE REQUIREMENTS OF THE CITY'S STREET EXCAVATION ORDINANCE NO. 2003-1196 SUBJECT TO APPROVAL FROM THE PUBLIC WORKS INSPECTOR.
- 19. 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.
- 20. THE ENGINEER-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.
- 21. 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.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL STRIPING, SIGNING OR TRAFFIC DETECTOR LOOPS AS REQUIRED BY THE PUBLIC WORKS DIRECTOR.
- 23. STREET SIGNING AND STRIPING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL.
- 24. 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 PUBLIC

WORKS AND/OR BUILDING INSPECTORS.

25. THE CONTRACTOR IS ADVISED THAT HE 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

# CONT. IMPROVEMENT NOTES

- CONTINUOUS USE OF STREET SWEEPING MACHINES MAY BE ADVISABLE.
- 26. THE ENGINEER-OF-WORK IS NOT RESPONSIBLE FOR GRADING OPERATIONS OR GRADING DONE. THE CONTRACTOR IS SOLELY RESPONSIBLE.
- 27. 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
- 28. CONTRACTOR AGREES THAT HE 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, INDEMNITY 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.
- 29. 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.
- 30. 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 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.
- 31. 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.
- 32. FIRE HYDRANTS SHALL BE AS FOLLOWS:
  - RESIDENTIAL "SINGLE FAMILY DETACHED DWELLINGS" JONES 3700 OR CLOW 2050, ONE 4" AND ONE 2 1/2" OUTLETS.
  - MULTI-RESIDENTIAL, COMMERCIAL & INDUSTRIAL JONES 3775 OR CLOW 2065, TWO 4" AND ONE 2 ½" OUTLETS.

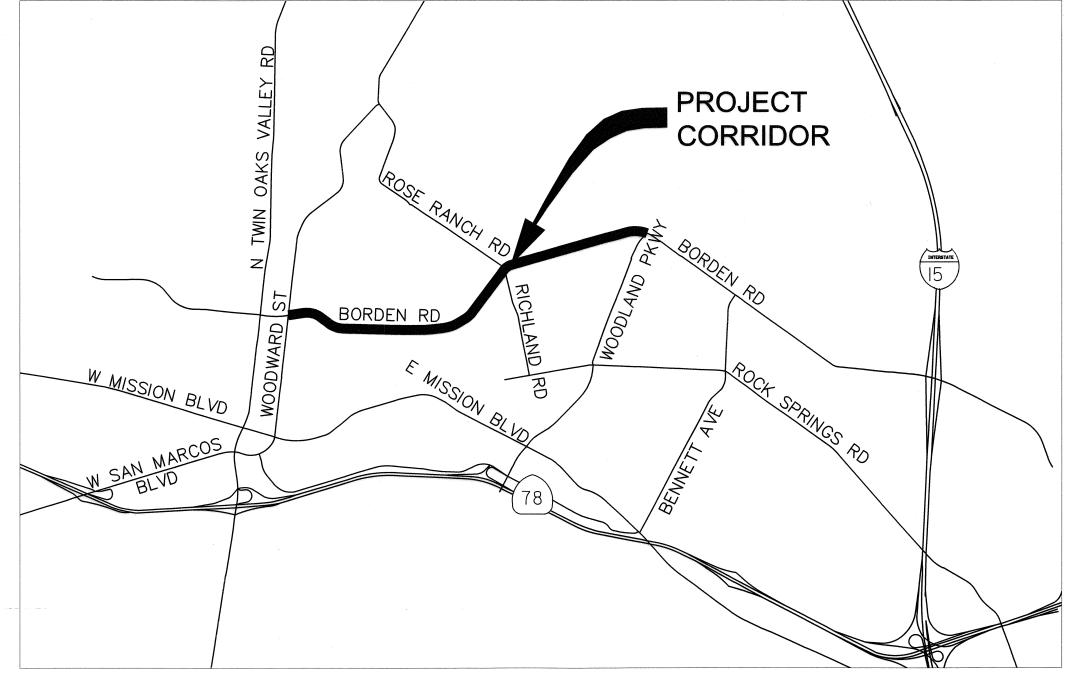
### **GENERAL NOTES**

- 1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- 2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
- 3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN MARCOS DOES NOT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- 4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID, FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL
- 6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
- 7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE
- 8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED BY CONTRACTOR DURING CONSTRUCTION.
- 9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN MARCOS.
- 10. CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
- 11. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD.
- 12. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- 13. MANHOLES AND PULL BOX COVER SHALL BE LABELED WITH NAME OF COMPANY.
- 14. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN MARCOS.
- 15. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON PLANS.

# CITY OF SAN MARCOS

IMPROVEMENT PLANS FOR

ANNUAL SURFACE SEAL (2021) CIP ST001



# PROJECT AREA: N/A

WDID: N/A DISTURBED AREA: N/A IMPERVIOUS AREA: N/A STORM WATER DEVELOPMENT PROJECT TYPE: N/A CITY BMP ID NO: N/AFACILITY TYPE: N/A MAINTENANCE AGREEMENT DOC #: N/A

# SHEET INDEX

DESCRIPTION

GENERAL NOTES 7 SIGNING AND MARKING PLANS

# **VICINITY MAP**

ITEM

RIGHT OF WAY LINE

GRIND AND OVERLAY

SM DWG. NO. IP-511

SM DWG. NO. IP-727

SM DWG. NO. IP-761

SM DWG. NO. IP-762

SM DWG. NO. IP-1416

SM DWG. NO. IP-1910

SM DWG. NO. IP-2586

SM DWG. NO. IP-3341

SM DWG. NO. IP-4398

SM DWG. NO. IP-4443

SM DWG. NO. IP-4491

SM DWG, NO. IP-4620

SM DWG. NO. IP-4649

SM DWG, NO. IP-4878

SM DWG. NO. IP19-00009

SM DWG. BORDEN RD & MULBERRY DR-Q110

INSPECTED AND RECOMMENDED

FOR ACCEPTANCE

Public Works Inspector

SLURRY (TYPE II, 2.5% LATEX)

PAVEMENT REHABILITATION DIG-OUT

REFERENCE DRAWINGS:

## **GENERAL NOTES (CONTINUED)**

- 17. CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALLY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.
- 18. 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.
- 19. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
- 20. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

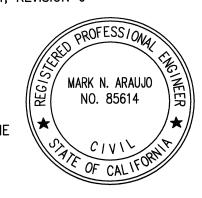
# WORK TO BE DONE

- THE IMPROVEMENTS CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE
- WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:
- 1) SAN DIEGO AREA REGIONAL STANDARD DRAWINGS

MARK ARAUJO RCE 85614 EXP. 09/30/22

- 2) 2015 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK")
- 3) CITY OF SAN MARCOS GRADING AND EXCAVATION ORDINANCE
- 4) CITY OF SAN MARCOS TRAFFIC SIGNAL MANUAL FOR NEW SIGNAL DESIGNS AND INSTALLATIONS
- 5) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 2018 STANDARDS PLANS 6) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 2018 STANDARD SPECIFICATIONS
- 7) STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL TO CA-MUTCD 2014, REV 6 8) VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS
- 9) CITY OF SAN MARCOS STANDARD SPECIAL PROVISIONS SUPPLEMENTAL TO 2015 GREENBOOK
- 10) CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD) 2014, REVISION 6 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 THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS ANS 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 REPONSIBLITIES FOR THE PROJECT DESIGN.



APPROVED AS RECORD PLAN

By: Isaac Etchamendy, City Engineer

R.C.E.: 81294

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 CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND

MARK ARAUJO RCE 85614 EXP. 09/30/2022

CITY OF SAN MARCOS City Drawing No.

ENGINEER OF WORK EXPE DEPARTMENT Nailon, Fire Marshal Mark Ara⁄ujo \_exp: <u>09/30/2022</u> . 85614 Oate: 03/09/2022

MARK N. ARAUJO

NO. 85614

OF CALIF

Phone: 619.234.9411 / www.kimley-horn.com CITY APPROVED CHANGES App'd By Dat No. Description

Kimley » Horn Kimley-Horn and Associates, Inc. ©2019

401 B Street, Suite 600, San Diego, California 92101

RECOMMENDED FOR APPROVAL Michael Rafael, Senior Civil Engineer 06/30/2022

APPROVED FOR CONSTRUCTION Issac Etchamendy, City Engineer \_\_\_ exp.: 09/30/2023 R.C.E.: 81294 3/17/22

DATE: XX/XX/2022

BENCH MARK Description: \_ocation: Record From: N \_Datum: <u>N/A</u>

ANNUAL SURFACE SEAL (2021) CIP# ST001

IP21-00018

SAN MARCOS, CA

SITE ADDRESS AND ASSESSOR PARCEL NUMBERS

BORDEN ROAD BETWEEN WOODWARD STREET AND WOODLAND PARKWAY.

STORM WATER SUMMARY

ASSESSOR PARCEL NUMBERS: N/A

OWNER

CITY OF SAN MARCOS

1 CIVIC CENTER DRIVE

SHEET NO.

TITLE SHEET

3-9 TRAFFIC SIGNAL MODIFICATION PLANS

QTY STD DWG

499,637 SF

60.546 SF

16,455 SF

**LEGEND** 

SYMBOL

\_\_\_\_

# **ABBREVIATIONS:**

DWG DRAWING LN LANE MON SURVEY MONUMENT R/W RIGHT OF WAY SEWER MANHOLE TYP TYPICAL WATER VALVE

THROUGH SHEET 12, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

Sheet 1 of 12

### **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.
- . 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:
  - SAN DIEGO GAS & ELECTRIC VALLECITOS WATER DISTRICT COX COMMUNICATIONS

### TRAFFIC STRIPING NOTES:

- ALL LETTER AND WORD PAVEMENT MARKING STENCILS USED WITHIN CITY LIMITS SHALL GENERALLY CONFORM TO THE CALTRANS "METRIC" SPECIFICATION, AS PROVIDED BY HAWKINS TRAFFIC SAFETY SUPPLY.
- 2. ALL ARROWS, WHETHER IN TURN LANES, BIKE LANES OR OTHERWISE, SHALL CONFORM TO THE CALTRANS, "2018 STANDARD PLAN A24A" SPECIFICATION.
- 3. SYMBOLS AND NUMERALS: SYMBOLS AND NUMERALS SHALL CONFORM TO CALTRANS, "2018 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:

PAINT 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 FOLSUM BLVD., SACRAMENTO, CA 95819-4612; (916) 227-7000.

- 8. ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMS) PER THE APPROPRIATE CALTRANS 2018 STANDARD PLAN 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" φ (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. "BLACKING 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, BICYCLE LEGENDS, SCHOOL LEGENDS, AND PAVEMENT 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 MINIROUNDABOUT 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.

#### TRAFFIC SIGNING NOTES:

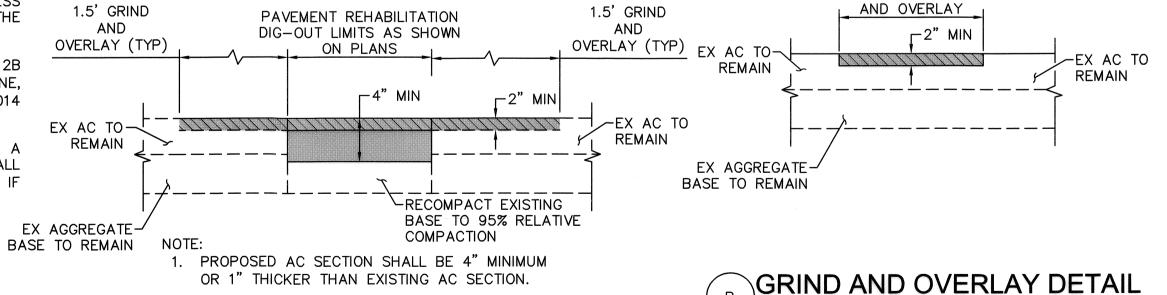
- 1. SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CITY OF SAN MARCOS PUBLIC WORKS DEPARTMENT APPROVAL. ALL SIGNS SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
- 2. SIGN POSTS:
  - 2.a. SHALL BE, TUBULAR BREAK-AWAY POSTS (TELSPAR OR UNISTRUT), 1 3/4" GALVANIZED STEEL OR EQUAL;
  - 2.b. SHALL HAVE SEVEN FEET (7') VERTICAL CLEARANCE ABOVE FINISHED GRADE FOR ONE SIGN MOUNTING OR SIX FEET (6') FOR A TWO SIGN MOUNTING;
  - 2.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).
  - 2.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.
  - 2.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
  - 2.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.
  - 2.g. SHALL BE NEW (USED POSTS ARE PROHIBITED ON NEW SIGN INSTALLATIONS);
  - 2.h. SHALL BE REJECTED IF DAMAGED, BENT OR SPLINTERED;
  - 2.j. LOCATIONS SHALL BE MARKED BY CONTRACTOR AND APPROVED BY THE PUBLIC WORKS DIRECTOR OR HIS ASSIGNEE PRIOR TO FINAL PLACEMENT.
  - 2.k. SHALL HAVE A MINIMUM OF FORTY-EIGHT INCHES (48") HORIZONTAL DISTANCE BETWEEN POST AND BACK EDGE OF SIDEWALK (ADA SPECIFICATION) FOR WHEEL CHAIR ACCESS.
  - 2.I. SHALL BE ALUMINUM POSTS FOR STREET NAME SIGNS

2.m. SHALL BE WRAPPED WITH DUCT TAPE AROUND BASE OF BREAKAWAY POST BELOW SUBGRADE.

- 3.a. SHALL BE ALUMINUM AND HAVE REFLECTIVITY FACING AND MESSAGE WITH AN HIGH INTENSITY DESIGN OR BETTER;
- 3.b. SHALL HAVE A MINIMUM OF TWELVE INCHES (12") HORIZONTAL CLEARANCE BEHIND THE CURB FACE;
- 3.c. FORTY-EIGHT INCHES (48") WIDE SHALL BE STRAPPED ON THE BACK OF THE SIGN WITH SIGN STRAP HARDWARE;
- 3.d. LARGER THAN FORTY-EIGHT INCHES (48") WIDE SHALL BE SET ON TWO POSTS;

\*WOOD POSTS USED FOR CLASS II OR III BARRICADES SHALL BE PAINTED WHITE.

- 3.e. SHALL BE MOUNTED ON:
- 3.e.1. W OR EXISTING STREET LIGHT STANDARDS SHALL USE A 3/4" "BAND IT" STEEL STRAPPING WITH FASTENERS;
- 3.e.2. ALUMINUM POSTS SHALL USE 2 7/8" POST CAPS FOR SINGLE SIGNS AND 2 7/8" CROSS SADDLE FOR TWO
- 3.f. MOUNTED ON POWER/UTILITY POLES ARE 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 12" X 12".
- 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, LIMIT LINE, 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. SPEED LIMIT SIGN INSTALLATION SHALL INCLUDE PAVEMENT LEGENDS.



#### 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. 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

UTILITY MARK-OUTS SHALL BE CONDUCTED USING A TEMPORARY PAINT THAT CAN BE REMOVED BY POWER WASH, IF NECESSARY. "THE CONTRACTOR SHALL REMOVE ALL MARK OUT PAINT UPON COMPLETION OF THE WORK."

- 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 / TRAFFIC SIGNAL LIGHTING SUPERVISOR SHALL FIELD VERIFY AND APPROVE THE EXACT EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.
- 5. 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.
- 6. 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.
- 7. 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).
- 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).
- 9. 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.
- 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 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.
- 11. 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.
- 12. 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.
- 13. LUMINAIRES SHALL CONFORM TO THE LATEST CITY OF SAN MARCOS STREET LIGHTING STANDARDS WITH GE EVOLVE™ LED ROADWAY SCALABLE COBRAHEAD FIXTURES FOR SAFETY LIGHTING.
- 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.
- 15. AN "AS-BUILT" DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO THE ACCEPTANCE OF SAID IMPROVEMENTS.

Date

INSPECTED AND RECOMMENDED

FOR ACCEPTANCE

Public Works Inspector

- 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 SPECIFICATIONS. THE ENGINEER-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.
- 17. 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.
- 18. 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.
- 19. 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.

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 THROUGH SHEET 12, 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.

MARK ARAUJO RCE 85614 EXP. 09/30/2022

CITY OF SAN MARCOS City Drawing No. IP21-00018

RECOMMENDED FOR APPROVAL APPROVED FOR CONSTRUCTION

Issac Etchamendy, City Engineer R.C.E.: 81294 ~09/30°/2023 Date:

4' MIN GRIND

NOT TO SCALE

(SIGNATURE)

(PRINTED NAME)

AS-BUILT

DATE

LICENSE NO.

BENCH MARK Description: \_ocation: Record From: N/A Datum: N/A

ANNUAL SURFACE SEAL (2021) CIP# ST001

Sheet 2 of 12

FIRE DEPARTMENT e Marshal 3-17-22

ENGINDER OF WORK Mark Araujo \_exp:\_09/30/2022 7.C.F . 85614 )ate: 03/09/2022

MARK N. ARAUJO

NO. 85614

: OF CALL

App'd By Date Michael Rafael, Senior Civil Engineer exp.: <u>06/30/2022</u> 3/17/2022

**\PAVEMENT REHABILITATION** 

**DIG-OUT DETAIL** 

NOT TO SCALE

Kimley » Horn Kimley-Horn and Associates, Inc. ©2019

401 B Street, Suite 600, San Diego, California 92101

CITY APPROVED CHANGES

Phone: 619.234.9411 / www.kimley-horn.com

No. Description

