

SANTA ROSA/MONTEREY MIXED-USE PUBLIC IMPROVEMENT

CORNER OF SANTA ROSA AND MONTEREY

SAN LUIS OBISPO, CA, 93401

VICINITY MAP



PROJECT INFORMATION

CLIENT: MNT COMMERCIAL
684 HIGUERA ST
SAN LUIS OBISPO, CA 93401

ARCHITECT: RRM DESIGN GROUP
3765 S. HIGUERA ST., SUITE 102
SAN LUIS OBISPO, CA 93401

GEOTECHNICAL: EARTH SYSTEMS PACIFIC
4376 OLD SANTA FE ROAD
SAN LUIS OBISPO, CA 93401

SURVEYOR: MBS LAND SURVEYS
3563 SUELO ST. UNIT Q
SAN LUIS OBISPO, CA 93401

ZONING: "C-1" COMMERCIAL
502-456-009

SITE AREA: 0.51 AC

AREA DISTURBED: 0.51 AC

UTILITY PURVEYORS

ELECTRICITY: P O & E COMPANY
408 HIGUERA ST
SAN LUIS OBISPO, CA 93401
805-743-5000

NATURAL GAS: SOUTHERN CALIFORNIA GAS COMPANY
P.O. BOX C
MONTEREY PARK, CA 91756
(800)-427-2200

TELEPHONE: A T & T
994 MILL ST
SAN LUIS OBISPO, CA 93402
1-800-750-2355

CABLE TV: CHARTER COMMUNICATIONS
7775 SAN LUIS AVE
ATASCADERO, CA 93422

WATER/SEWER: CITY OF SAN LUIS OBISPO
UTILITIES DEPARTMENT
879 MORRIS ST
SAN LUIS OBISPO, CA 93401

LEGEND

SD	STORM DRAINAGE
W	WATER SERVICE
G	GAS
S	SANITARY SEWER
E	POWER ELECTRICAL
---	DITCH / FLOWLINE
---	GRADING DAYLIGHT
---	GRADING LIMIT
---	GRADE SLOPE
---	PROPERTY LINE
---	CENTERLINE
---	SAWCUT

STANDARD ABBREVIATIONS

AC	ASPHALTIC CONCRETE	IE	INVERT ELEVATION
BLDG	BUILDING	INV	INVERT
BCR	BEGIN CURB RETURN	LA	LANDSCAPE AREA
BVC	BEGIN VERTICAL CURVE	NG	NATURAL GRADE
BW	BOTTOM OF WALL	PA	PLANTER AREA
CB	CATCH BASIN	PCG	PORTLAND CEMENT CONCRETE
CL	CENTERLINE	PL	PROPERTY LINE
CMU	CONCRETE MASONRY UNIT	POG	POINT OF CONNECTION
CONC	CONCRETE	PS	PARKING STRIPE
DW	DRIVEWAY	PVC	POLYVINYL CHLORIDE
ECR	END CURB RETURN	RW	RIGHT OF WAY
EG	EXISTING GRADE	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SG	SUB-GRADE ELEVATION
EVC	END VERTICAL CURVE	SS	SANITARY SEWER
FF	FINISHED FLOOR	TC	TOP OF CURB, CONCRETE
FG	FINISHED GRADE	TF	TOP OF FOOTING
FH	FIRE HYDRANT	TG	TOP OF GRADE
FL	FLOWLINE	TW	TOP OF WALL
FS	FINISHED SURFACE	VC	VERTICAL CURVE
GB	GRADE BREAK		

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C-0.1	TITLE SHEET
C-0.2	NOTES SHEET
C-1.1	GRADING SHEET
C-1.2	STRIPPING SHEET
C-2.1	DETAIL SHEET
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C-3.2	EROSION SHEET
1	SIGNAL MODIFICATION TITLE SHEET
2	SIGNAL MODIFICATION PLAN SHEET
3	SIGNAL MODIFICATION POLE AND CONDUIT SCHEDULE

DEFERRED SUBMITTALS

1. STREET RECONSTRUCTION STRUCTURAL SECTION

DESIGN EXCEPTIONS:

1. REDUCED PATH OF TRAVEL AT TREE WELL LOCATIONS.
2. MISSION SIDEWALK COLD JOINT AT BACK OF CURB.

general notes

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT" OF NORTHERN CALIFORNIA BY PHONE AT 8-1-1 FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITTEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE TV, WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.

Reference Documents:
City Standard Specifications: May 2018 Edition
City Engineering Standards: May 2018 Edition

CITY OF SAN LUIS OBISPO

NOTICE

APPROVAL BY THE CITY DOES NOT GUARANTEE ACCURACY NOR COMPLETENESS OF THESE PLANS. IT DOES AUTHORIZE THE OWNER TO BUILD THE PROJECT HEREON. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND ENGINEER OF RECORD TO CORRECT ANY DEFICIENCIES THAT APPEAR DURING OR AFTER CONSTRUCTION. CITY SPECIFICATIONS AND ENGINEERING STANDARDS SHALL BE FOLLOWED UNLESS THEY ARE SPECIFICALLY WAIVED OR MODIFIED BY NOTES ON THESE PLANS. THE ENGINEER OF RECORD SHALL PROVIDE SUBMITTALS AS REQUIRED IN THE ENGINEERING STANDARDS.

ELECTRIC CO.	DATE	COMMUNITY DEVELOPMENT DIRECTOR	DATE
N/A to (change) to PGE service infrastructure	Feb 10, 2020		2/10/20
GAS CO.	DATE	CITY UTILITIES ENGINEER	DATE
CP&G	2/18/20		2/19/2020
TELEPHONE CO.	DATE	RECOMMENDED FOR APPROVAL BY	DATE
AT&T	1/2/20		2/19/2020
TELEVISION CO.	DATE	OTHER COMMENTS	DATE
Cable	1/2/20		2/19/2020
OTHER UTILITY	DATE	OTHER	DATE

CITY OF SAN LUIS OBISPO NOTES

- ALL WORK LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN THE JURISDICTION OF THE UTILITIES AND PUBLIC WORKS DEPARTMENTS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE ENGINEERING STANDARDS AND STANDARD SPECIFICATION. (THE CURRENT ADOPTED STANDARDS ARE DATED MAY 2018.)
- ANY SECTIONS OF DAMAGED OR DISPLACED CURB, GUTTER & SIDEWALK, OR DRIVEWAY APPROACH SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
- A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, WITHIN CITY EASEMENTS, OR FOR CONNECTIONS TO PUBLIC UTILITIES. WORK REQUIRING AN ENCROACHMENT PERMIT INCLUDES BUT IS NOT LIMITED TO DEMOLITIONS, UTILITIES, WATER, SEWER, AND FIRE SERVICE LATERALS, CURB, GUTTER, AND SIDEWALK, DRIVEWAY APPROACHES, SIDEWALK UNDERDRAINS, STORM DRAIN IMPROVEMENTS, STREET TREE PLANTING OR PRUNING, CURB RAMPS, STREET PAVING, AND PEDESTRIAN PROTECTION OR CONSTRUCTION STAGING IN THE RIGHT-OF-WAY.
- CONTACT THE PUBLIC WORKS INSPECTION HOTLINE AT 781-7554 WITH AT LEAST A 48-HOUR NOTICE FOR ANY REQUIRED ENCROACHMENT PERMIT INSPECTION OR FINAL INSPECTION.
- THE ADJOINING STREET SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD AND CONSTRUCTION DEBRIS AT THE END OF EACH DAY.
- A TRAFFIC AND PEDESTRIAN CONTROL PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO ENCROACHMENT PERMIT ISSUANCE.
- ENCROACHMENT PERMITS AND PARKING METER BAGS WILL NOT BE ISSUED FOR NEW WORK IN THE PUBLIC RIGHT-OF-WAY IN THE DOWNTOWN AREA DURING THE HOLIDAY SEASON. THE HOLIDAY SEASON COMMENCES WITH THANKSGIVING AND ENDS AFTER NEW YEAR'S DAY.
- METERED PARKING SPACES DISPLACED DURING CONSTRUCTION ARE LIMITED TO TWO SPACES AND SHALL BE PAID FOR BY THE CONTRACTOR, OWNER, OR OPERATOR AT THE CURRENT RATE OF \$20.00 PER DAY FOR 2-4 HOUR PARKING AND \$10.00 PER DAY FOR 15-HOUR PARKING. PARKING BAGS ARE AVAILABLE FROM THE PARKING DIVISION LOCATED AT 1580 CHORRO OR THE ENGINEERING DIVISION LOCATED AT 818 PALM.
- A PRE-CONSTRUCTION MEETING SHALL BE COORDINATED BY THE OWNER/DEVELOPER OR CONTRACTOR AND SHALL INCLUDE PERTINENT CITY STAFF. AS A MINIMUM, THE ASSIGNED BUILDING INSPECTOR AND PUBLIC WORKS INSPECTOR SHALL BE PRESENT TO DISCUSS THE LIMIT OF PUBLIC AND PRIVATE IMPROVEMENTS AND THE CORRESPONDING INSPECTION RESPONSIBILITIES.
- THE PUBLIC IMPROVEMENTS SHALL BE SUBSTANTIALLY COMPLETE TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR PRIOR TO FINAL INSPECTION APPROVALS AND/OR OCCUPANCY OF ANY BUILDING.
- "RECORD" DRAWINGS OR "AS-BUILT" PLANS ARE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN CITY EASEMENTS AT THE COMPLETION OF THE PROJECT PER CITY STANDARDS AND CITY STANDARD SPECIFICATIONS. THE RECORD DRAWINGS SHALL BE RECEIVED AND ACCEPTED BY THE CITY PRIOR TO FINAL INSPECTION APPROVALS AND/OR OCCUPANCY OF ANY BUILDING.
- STORMWATER AND DRAINAGE SYSTEM CERTIFICATION IS REQUIRED FROM THE ENGINEER OF RECORD PRIOR TO FINAL INSPECTION APPROVALS. THE ENGINEER SHALL CERTIFY THAT THE DRAINAGE AND STORMWATER SYSTEM COMPONENTS HAVE BEEN INSPECTED AND ARE IN GENERAL CONFORMANCE WITH THE DRAINAGE REPORT, SYSTEM DESIGN, AND THE APPROVED PLANS, INCLUDING ALL FINAL ELEVATIONS, COMPONENT SIZING, DETENTION BASINS, PARKING LOT DETENTION CURB ELEVATIONS, DRAINAGE PIPING, INLETS, WEIR, ELEVATIONS, AND OFFSETS.
- ALL SURFACE AND SUBSURFACE DRAINAGE SYSTEMS DESIGNED AT LESS THAN 2% SHALL HAVE FINAL GRADIENTS CERTIFIED BY A LICENSED SURVEYOR OR ENGINEER PRIOR TO FINAL INSPECTION APPROVALS.
- ANY EXISTING SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE OR SHALL BE TIED OUT BY A LICENSED LAND SURVEYOR PRIOR TO DISTURBANCE AND THEN REPLACED PRIOR TO OCCUPANCY IN ACCORDANCE WITH SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.
- PARKING METERS TO BE REMOVED OR TO BE RELOCATED SHALL HAVE METER HEADS REMOVED AND RETAINED BY THE PUBLIC WORKS INSPECTOR. CONTACT THE PUBLIC WORKS INSPECTOR 2 DAY MINIMUM PRIOR TO SCHEDULED REMOVAL.

datum

EXISTING SURVEY INFORMATION FROM PLAN PREPARED BY MBS LAND SURVEYS DATED FEBRUARY 6, 2017.

BENCH MARK

THE BENCH MARK FOR THIS PROJECT IS A FOUND CITY OF SAN LUIS OBISPO BENCH MARK NUMBER 183 (2007). BEING LEAD AND TACK 10 NORTHERLY OF THE ECK OF THE NORTHEASTERN CURB OF SANTA ROSA STREET BEARING N03°12'00" PER R1 (85 LS 66).

ELEVATION=228.81' NAVD 88 (2007 SLO BM B06K)

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS BASED ON FOUND MONUMENTS ALONG THE CENTERLINE OF SANTA ROSA STREET BEARING N03°12'00" PER R1 (85 LS 66).

NOTE:

- SURVEY INFORMATION IN THIS PLAN SET IS NOT A BOUNDARY SURVEY. PROPERTY LINES, SETBACKS, AND EASEMENT INFORMATION SHOWN IS FOR REFERENCE ONLY.
- CONFIRM BENCHMARK DATA AND CONDITION WITH PROJECT SURVEYOR PRIOR TO USE. THE SURVEYOR MUST PROVIDE THE ENGINEER WITH THE SURVEY CONTROL NOTES, CONTROL COORDINATES, AND SURVEY NOTES.

SURVEY MONUMENT PROTECTION

PROTECT AND PRESERVE, IN PLACE, ALL SURVEY MONUMENTS AND BENCHMARKS. DO NOT DISTURB, MOVE, OR RELOCATE MONUMENTS OR BENCHMARKS WITHOUT THE PRIOR REVIEW AND APPROVAL BY THE AGENCY HAVING JURISDICTION OVER THE MONUMENT OR BENCHMARK. THE CONTRACTOR SHALL CONTRACT WITH A LICENSED SURVEYOR FOR MONUMENTS REQUIRING DISTURBANCE OR REMOVAL. AND THE SURVEYOR SHALL RESET THE MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE MONUMENT LOCATION DOCUMENTATION WITH THE AUTHORITY HAVING JURISDICTION TO ALL APPLICABLE BUSINESS AND PROFESSIONAL CODES.



Ashley & Vance
ENGINEERING, INC.

1413 Monterey Street
San Luis Obispo, CA 93401
(805) 545-0010 • (323) 744-0010
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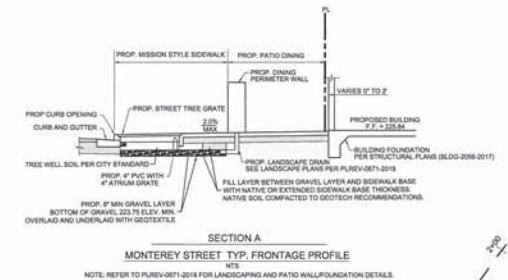
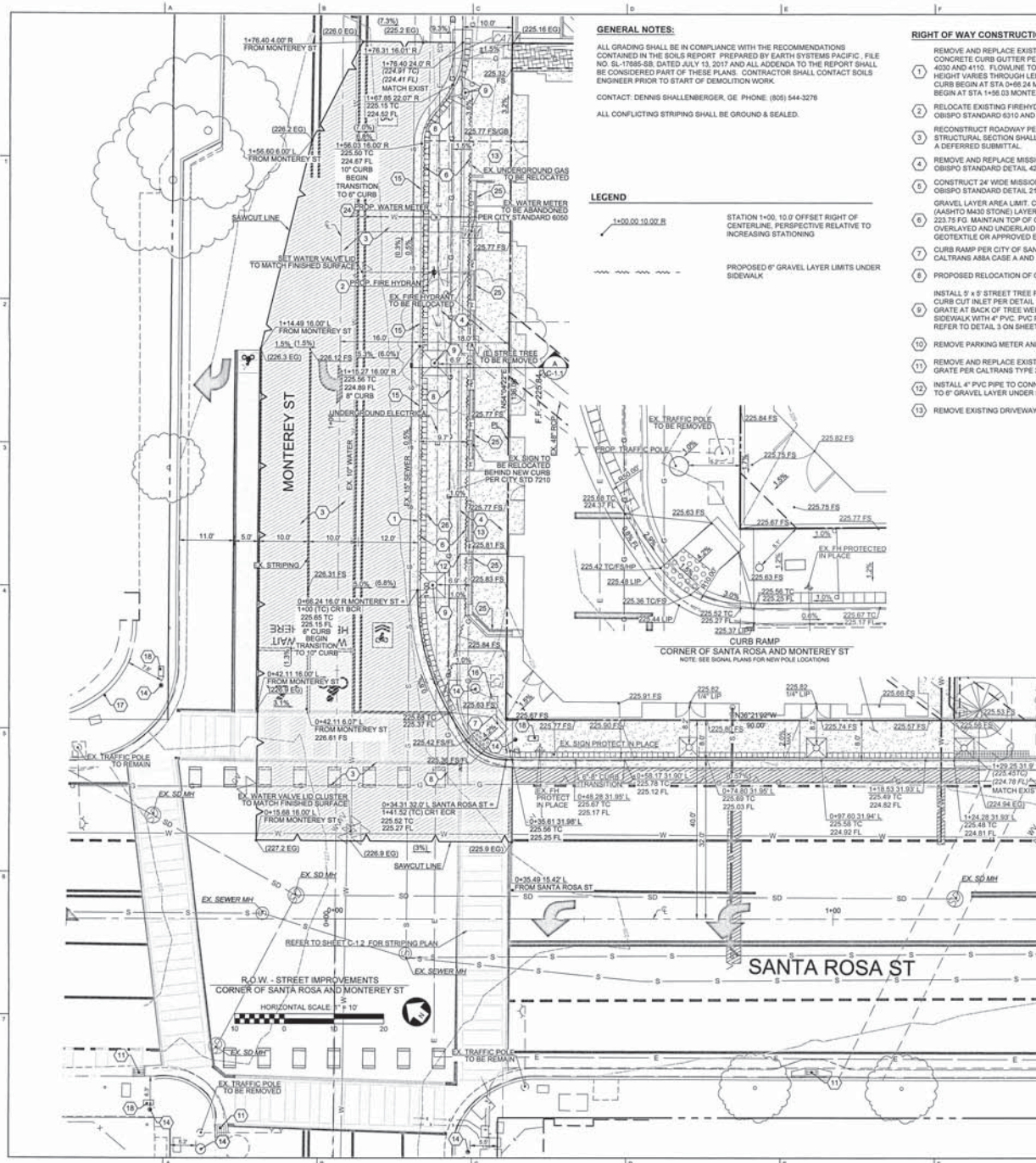


SANTA ROSA/MONTEREY MIXED-USE
PUBLIC IMPROVEMENT
CORNER OF SANTA ROSA AND MONTEREY
SAN LUIS OBISPO, CA, 93401

Rev: 01/16-2019
Proj. Eng: JMA Phone Ext: 156
Proj. Mng: KBB Phone Ext: 156
Date: 02/05/2020 Scale: PER PLAN
Asst. Job No.: 151376

TITLE SHEET

C-0.1



NOTE: REFER TO SIGNALIZATION PLANS FOR CONSTRUCTION NOTES OF TRAFFIC POLES. TO MEET CITY, CALTRANS AND ADA STANDARDS AND SPECIFICATIONS.

NOTE: MONTEREY ST STREET STRUCTURE CONTAINS AC OVER CONCRETE. EXTENT AND LOCATION OF CONCRETE UNKNOWN PER CITY OF SLO REVIEW ENGINEER.

NOTE: SANTA ROSA ST IMPROVEMENTS PER PERMIT # BLDG-2056-2017.

NOTE: PARKING METER HEAD AND SLEEVE TO BE REMOVED BY THE CITY. POSTS TO BE REMOVED BY CONTRACTOR.

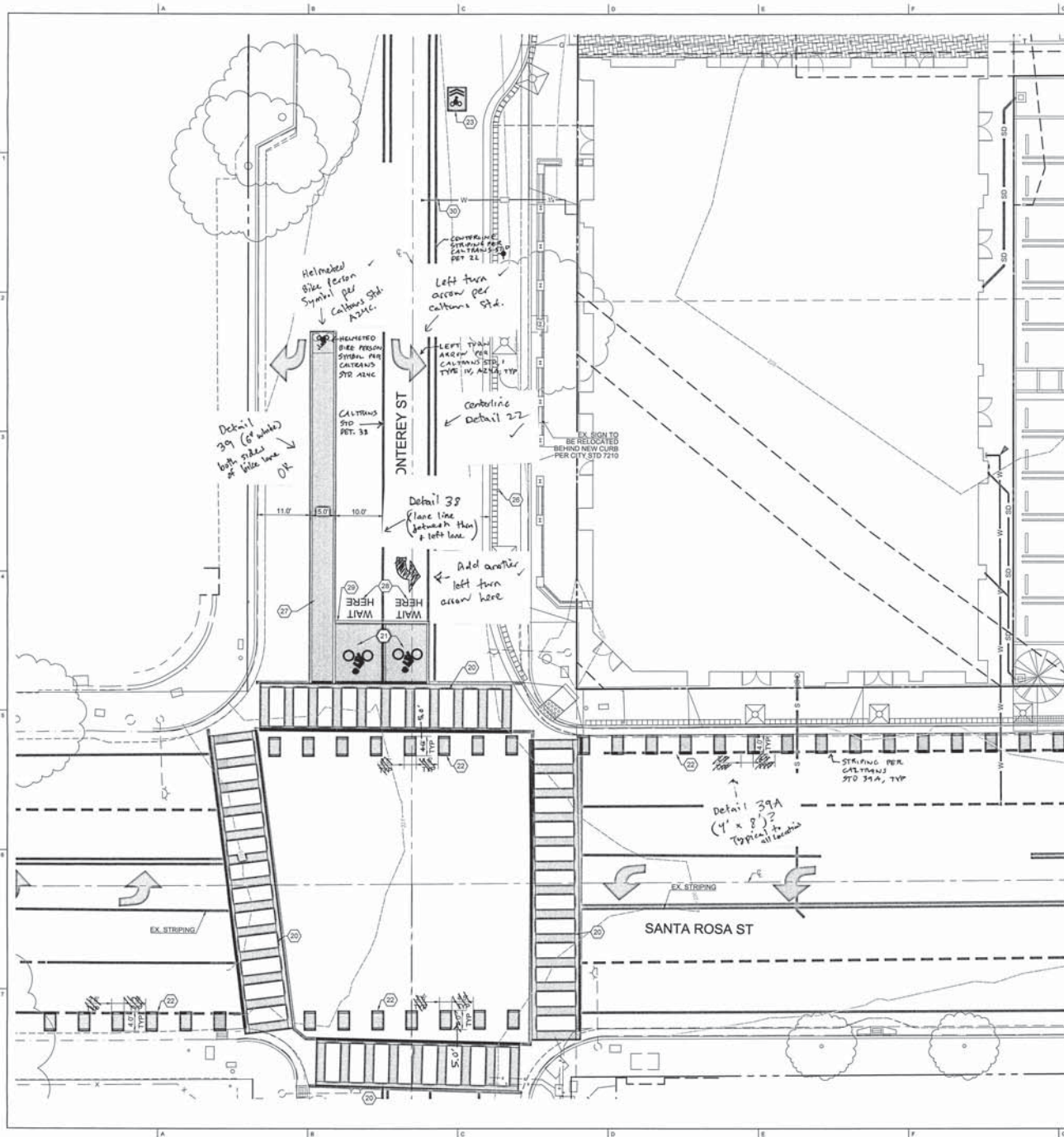
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SANTA ROSA/MONTEREY MIXED-USE PUBLIC IMPROVEMENT

CORNER OF SANTA ROSA AND MONTEREY
SAN LUIS OBISPO, CA 93401

Project:	
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GENERAL NOTES:

ALL GRADING SHALL BE IN COMPLIANCE WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT PREPARED BY EARTH SYSTEMS PACIFIC, FILE NO. SL-17885-SB, DATED JULY 13, 2017 AND ALL ADDENDA TO THE REPORT SHALL BE CONSIDERED PART OF THESE PLANS. CONTRACTOR SHALL CONTACT SOILS ENGINEER PRIOR TO START OF DEMOLITION WORK.

CONTACT: DENNIS SHALLENBERGER, GE. PHONE: (855) 544-3278

ALL CONFLICTING STRIPING SHALL BE GROUND & SEALED.
ALL STRIPING LAYOUTS TO BE APPROVED BY CITY PLAN TO THEM.

RIGHT OF WAY CONSTRUCTION NOTES:

1. Add Geosynthetics to be approved by City prior to the start of the project.
2. RECONSTRUCT ROADWAY PER STANDARD 7110 WITH T.I. OF 8.5. FINAL STRUCTURAL SECTION SHALL BE REVIEWED AND APPROVED BY THE CITY AS A DEFERRED SUBMITTAL.
3. REMOVE AND REPLACE MISSION STYLE SIDEWALK PER CITY OF SAN LUIS OBISPO STANDARD DETAIL 4220 AND 4910.
4. CONSTRUCT 24" WIDE MISSION STYLE DRIVEWAY PER CITY OF SAN LUIS OBISPO STANDARD DETAIL 2110.
5. GRAVEL LAYER AREA LIMIT. CONSTRUCT 6" CLEAN, CRUSHED, ANGULAR NO. 4 (ASHTO M430 STONE) LAYER WITHIN AREA. TOP OF GRAVEL ELEVATION 223.75 F.O. MAINTAIN TOP OF GRAVEL ELEVATION THROUGHOUT FULL AREA. OVERLAYED AND UNDERLAD WITH ADS GEOSYNTHETICS 315WTM GEOTEXTILE OR APPROVED EQUAL.
6. CURB RAMP PER CITY OF SAN LUIS OBISPO STANDARD DETAIL 4440 AND CALTRANS ABBA CASE A AND DETAIL B.
7. PROPOSED RELOCATION OF GAS LINE PER GAS COMPANY REQUIREMENTS.
8. INSTALL 5' x 5' STREET TREE PER CITY STANDARD 8130 AND 8210. PROVIDE CURB OUT INLET PER DETAIL 1 ON SHEET C-1. PROVIDE 4" ADS 78 ALTRUM GRATE AT BACK OF TREE WELL TO OUTLET TO GRAVEL LAYER BELOW SIDEWALK WITH 4" PVC. PVC PIPE OUTLET EMBEDDED 6" INTO GRAVEL LAYER. REFER TO DETAIL 3 ON SHEET C-2.1.
9. REMOVE PARKING METER AND STRIPING.
10. REMOVE AND REPLACE EXISTING DRAIN INLET GRATE WITH "HONEYCOMB" GRATE PER CALTRANS TYPE 24-105 GRATE SPECIFICATIONS.
11. INSTALL 4" PVC PIPE TO CONNECT TO BUILDING DOWNSPOUT. OUTLET OF PIPE TO 8" GRAVEL LAYER UNDER SIDEWALK.
12. REMOVE EXISTING DRIVEWAY.
13. PROPOSED NEW STREET LIGHT POLE PER SIGNALIZATION PLANS.
14. PAINT CURB RED TO THE SATISFACTION OF THE CITY ENGINEER.
15. RESET VALVE LID TO BE FLUSH WITH SURROUNDING CONCRETE. LID TO BE STAINED TO MATCH MISSION STYLE CONCRETE.
16. PROPOSED NEW PULLBOX PER SIGNALIZATION PLANS. LID TO BE FLUSH WITH AND STAINED TO MATCH SURROUNDING CONCRETE.
17. FIRE HYDRANT TO MEET SIDEWALK CLEARANCE PER CITY OF SAN LUIS OBISPO STANDARD 8310.
18. REMOVE EXISTING CROSSWALK STRIPING AND INSTALL 10' WIDE H.V.B. STRIPING CROSSWALK PER CITY OF SAN LUIS OBISPO STANDARD 7350.
19. 14" BIKE BOX IN WESTBOUND AND LEFT TURN. MONTEREY APPROACH WITH HELMETED BIKE PERSON PER CALTRANS STANDARD A24C.
20. DASHED GREEN BIKE LANE THROUGH INTERSECTION PER BIKE LANE MARKING DETAIL ON SHEET C-2.1 CASE 1.
21. GREEN SHARROW BIKE STRIPING. SHARED ROADWAY BICYCLE MARKING PER CALTRANS STANDARD WITH HELMETED BIKE PERSON PER CALTRANS STANDARD A24C.
22. CONSTRUCT 2" LATERAL WITH 2" METER SERVICE PER CITY OF SAN LUIS OBISPO STANDARD DETAIL 6210, 6110, 6103.
23. PROVIDE DRAINAGE CHANNEL THROUGH PLANTERS. REFER TO LANDSCAPE PLAN DETAILS FOR CONSTRUCTION OF CHANNEL PERMIT #BLD-2056-2017.
24. INSTALL 25MPH SIGN PER CITY OF SAN LUIS OBISPO CITY STANDARD 7210.
25. GREEN PAINT BIKE LANE WITH 6" WHITE STRIPES PER CALTRANS STANDARD AND DETAIL ON SHEET C-2.1 CASE 1 WITH HELMETED BIKE PERSON PER CALTRANS STANDARD A24C.
26. INSTALL "WAIT HERE" STRIPING PER CALTRANS STANDARD.
27. INSTALL 24" WHITE STRIPE PER CALTRANS STANDARD.
28. INSTALL HYDRANT REFLECTOR PER CITY OF SAN LUIS OBISPO STANDARD 7320.

NOTE: PEDESTRIAN CROSSING IMPROVEMENTS OR OTHER SIGNAL MODIFICATIONS AS DETERMINED BY THE CITY.

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DIAL TOLL FREE
811 OR
(1-800-227-0000)
AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF CALIFORNIA

Ashley & Vance
ENGINEERING, INC.

1413 Monterey Street
San Luis Obispo, CA 93401
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Engineer of Record:



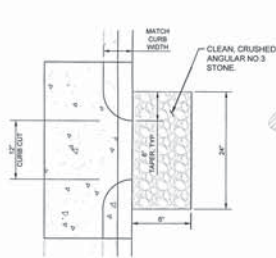
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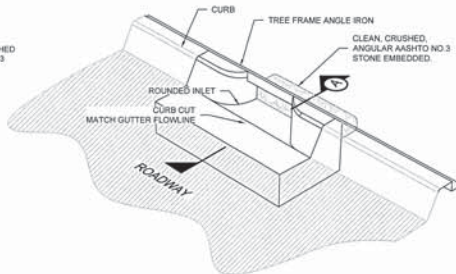
Project:	
Revision:	
Prop. Engr:	AKK
Phone Ext.:	118
Prop. Mgr.:	AKK
Phone Ext.:	118
Date:	02/08/2021
Scale:	PER PLAN
ASB Job No.:	18-016

STRIPING
SHEET

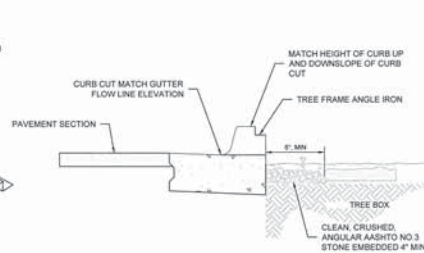
C-1.2



PLAN



ISOMETRIC



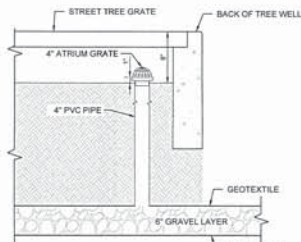
SECTION A

GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP FOR CURB CUTS SHALL CONFORM TO CITY OF SAN LUIS OBISPO STANDARDS
2. CURB CUT INLETS MAY ALSO FUNCTION AS OUTLETS.

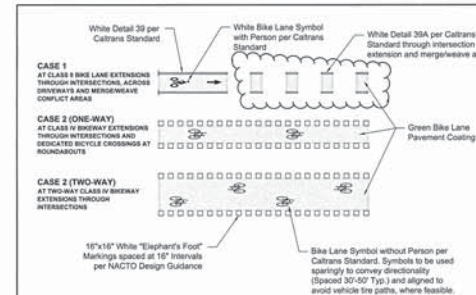
1 CURB CUT

NOT TO SCALE



3 STREET TREE AREA DRAIN TO GRAVEL LAYER

NOT TO SCALE



GENERAL NOTES:

- A. Green bike lane pavement coating shall be Methyl Methacrylate (MMA) specifically designed for application on asphalt or concrete pavements, such as Color-Safe of STREETBOND CL or approved equal. Pavement coating to be installed by manufacturer certified installer per manufacturer's specifications. Bike lane coating shall conform to the following Federal Highway Administration (FHWA) requirements for green bike lanes:

1. The daytime chromaticity coordinates for the color used for green colored pavement shall be as follows:

X	Y	X	Y	X	Y	X	Y
250	754	338	500	587	300	444	555

The daytime luminance factor (Y) shall be at least 7, but no more than 35.

2. The nighttime chromaticity coordinates for the color used for green colored pavement shall be as follows:

X	Y	X	Y	X	Y	X	Y
250	754	338	540	450	300	479	523

Prior to installation, the contractor shall submit a color sample and manufacturer specifications indicating compliance with the FHWA requirements as indicated above. City shall receive submittals of green pavement coating and approve prior to application.

- B. Specific placement and application of green bike lane markings to be determined by the City Engineer on a case-by-case basis.

REVISIONS	BY	APP	DATE	
New Standard				
STANDARD CURRENT AS OF:	May 2018			



DRAFT
GREEN BIKE LANE MARKINGS

XXX



Prepared By:

Engineer of Record:



SANTA ROSA/MONTEREY MIXED-USE
PUBLIC IMPROVEMENT
CORNER OF SANTA ROSA AND MONTEREY
SAN LUIS OBISPO, CA 93401

Project:

Revisions:



Proj. Engr.: JVA Phone Ext.: 108

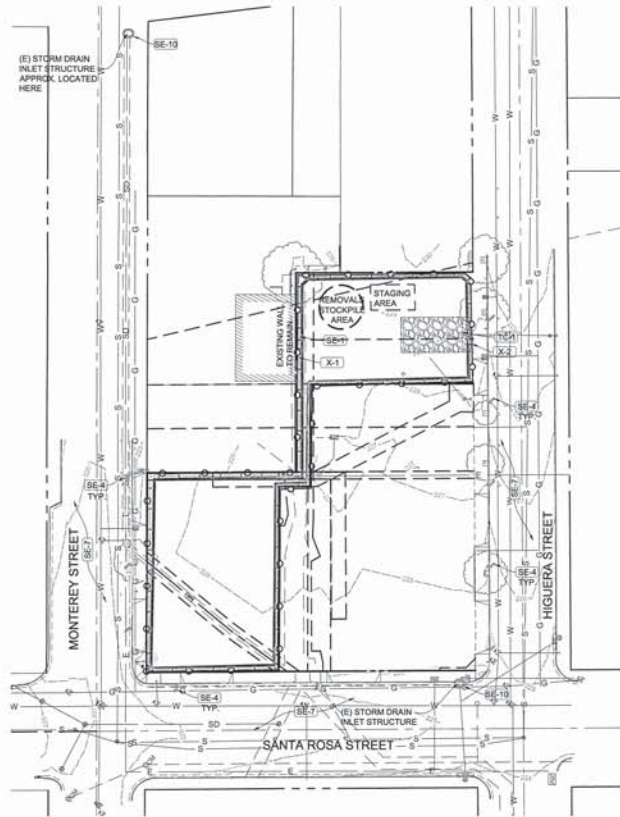
Proj. Mgr.: JVA Phone Ext.: 118

Date: 01.08.2020 Scale: PER PLAN

ASV Job No.: 18-070

DETAIL SHEET

C-2.1



EROSION CONTROL NOTES

- SE-1 INSTALL SALT FENCE INSIDE SECURITY FENCE
- SE-2 INSTALL FIBER ROLL INSIDE SECURITY FENCE
- SE-3 CONSTRUCT CHECK DAM
- SE-4 CONSTRUCT INLET PROTECTION
- SE-5 CONSTRUCT CONSTRUCTION ENTRANCE
- SE-6 INSTALL CHAINLINK SECURITY FENCE @ BACK OF RIGHT OF WAY
- SE-7 INSTALL CHAINLINK GATE @ BACK OF RIGHT OF WAY

LEGEND

- SECURITY FENCE
- SALT FENCE
- FIBER ROLL

NOTE:
PER 2016 CBC SECTION 3307.1 ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION ACTIVITY. THE PERSON CAUSING EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING PROPERTY ADVISING THEM THAT THE EXCAVATION WILL BE MADE AND THE ADJOINING BUILDINGS WILL BE PROTECTED. NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED START DATE.

EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES FOR WIND, WATER, MATERIAL STOCKPILES, AND TRACKING SHALL BE IMPLEMENTED ON ALL PROJECTS AT ALL TIMES AND SHALL INCLUDE SOURCE CONTROL, INCLUDING PROTECTION OF STOCKPILES, PROTECTION OF SLOPES, PROTECTION OF ALL DISTURBED AREAS, PROTECTION OF ACCESSSES, AND PERIMETER CONTAMINATION MEASURES. EROSION CONTROL SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF GRADING AND SITE DISTURBANCE ACTIVITIES UNLESS THE PUBLIC WORKS DEPARTMENT DETERMINES TEMPORARY MEASURES TO BE UNNECESSARY BASED UPON LOCATION, SITE CHARACTERISTICS OR TIME OF YEAR. THE INTENT OF EROSION CONTROL MEASURES SHALL BE TO KEEP ALL GENERATED SEDIMENTS FROM ENTERING A SWALE, DRAINAGE WAY, WATERCOURSE, ATMOSPHERE, OR MIGRATE ONTO ADJACENT PROPERTIES OR ONTO THE PUBLIC RIGHT-OF-WAY.
- SITE INSPECTIONS AND APPROPRIATE MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES SHALL BE CONDUCTED AND DOCUMENTED AT ALL TIMES DURING CONSTRUCTION AND ESPECIALLY PRIOR TO, DURING, AND AFTER RAIN EVENTS.
- THE OWNER, OR OWNER'S REPRESENTATIVE, SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL MEASURES/DEVICES AS SPECIFIED BY THE APPROVED PLAN UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED AS COMPLETE BY THE AUTHORITY HAVING JURISDICTION OR UNTIL RELEASED FROM THE CONDITIONS OF APPROVAL OF THEIR GENERAL PERMIT. EROSION CONTROL MEASURES/DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL MEASURES/DEVICES MAY BE REQUIRED DEPENDING ON THE ACTUAL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. ADDITIONAL EROSION CONTROL MEASURES/DEVICES SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER OF WORK, INSPECTOR, QUALIFIED SWPPP PRACTITIONER (QSP) IF A SWPPP IS IN PLACE FOR THE PROJECT, OR RWQCB INSPECTOR, GUIDELINES FOR DETERMINING APPROPRIATE EROSION CONTROL DEVICES SHALL BE INCLUDED IN THE PLANS WITH ADDITIONAL MEASURES/DEVICES NOTED FROM THE APPENDIX OF THE PUBLIC IMPROVEMENT STANDARDS.
- WET WEATHER EROSION CONTROL MEASURES/DEVICES SHALL BE AVAILABLE, INSTALLED, AND/OR APPLIED BETWEEN OCTOBER 15 AND APRIL 15 OR ANYTIME WHEN THE RAIN PROBABILITY EXCEEDS 30%.
- THE CONTRACTOR, DEVELOPER, AND ENGINEER OF WORK SHALL BE RESPONSIBLE TO REVIEW THE PROJECT SITE PRIOR TO OCTOBER 15 (RAINY SEASON) AND TO COORDINATE AN IMPLEMENTATION PLAN FOR WET WEATHER EROSION CONTROL DEVICES. A LOCALLY BASED STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCK PILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OR MAINTENANCE OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- IN THE EVENT OF A FAILURE, THE DEVELOPER AND/OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR CLEANUP AND ALL ASSOCIATED COSTS OR DAMAGE. IN THE EVENT THAT DAMAGE OCCURS WITHIN THE RIGHT-OF-WAY AND THE COUNTY IS REQUIRED TO PERFORM CLEANUP, THE OWNER SHALL BE RESPONSIBLE FOR REIMBURSEMENT OF ALL ASSOCIATED COSTS OR DAMAGE.
- IN THE EVENT OF FAILURE AND/OR LACK OF PERFORMANCE BY THE OWNER AND/OR CONTRACTOR TO CORRECT EROSION CONTROL RELATED PROBLEMS, THE PUBLIC WORKS DEPARTMENT MAY REVOKE ALL ACTIVE PERMITS AND RECOMMEND THAT CODE ENFORCEMENT PROVIDE A WRITTEN NOTICE OR STOP WORK ORDER IN ACCORDANCE WITH THE LAND USE ORDINANCE.
- PERMANENT EROSION CONTROL SHALL BE PLACED AND ESTABLISHED WITH 80% COVERAGE ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES. PRIOR TO FINAL INSPECTION, PERMANENT EROSION CONTROL SHALL BE FULLY ESTABLISHED PRIOR TO FINAL ACCEPTANCE. TEMPORARY EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT MEASURES ARE ESTABLISHED.
- THE AIR POLLUTION CONTROL DISTRICT (APCD) MAY HAVE ADDITIONAL PROJECT SPECIFIC EROSION CONTROL REQUIREMENTS. THE CONTRACTOR, DEVELOPER, AND ENGINEER OF WORK SHALL BE RESPONSIBLE FOR MAINTAINING SELF-REGULATION OF THESE REQUIREMENTS.
- ALL PROJECTS INVOLVING SITE DISTURBANCE OF ONE ACRE OR GREATER SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). THE DEVELOPER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO COMPLY WITH THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITY WITH THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB). THE DEVELOPER SHALL PROVIDE THE COUNTY WITH THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID) OR WITH VERIFICATION THAT AN EXEMPTION HAS BEEN GRANTED BY RWQCB. WDID NO. NAME OF PERSON TO CONTACT 24 HOURS A DAY IN THE EVENT THERE IS AN EROSION CONTROL/SEDIMENTATION PROBLEM (STORM WATER COMPLIANCE OFFICER):

NAME: STEVE SIMOULIS PHONE: 805-541-9004

BMP SELECTION & LEGEND:

BMP'S SPECIFIED ON THIS PLAN REFERENCE THE NOVEMBER 2008 EDITION OF THE CASQA "CALIFORNIA STORMWATER HANDBOOK". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN BMP DETAILS AVAILABLE AT WWW.CASQA.ORG.

THE FOLLOWING BMP'S ARE NOT SHOWN IN SPECIFIC LOCATIONS ON THIS PLAN, AND ARE APPLICABLE TO THE PROJECT. THE CONTRACTOR SHALL INCORPORATE THESE BMP'S INTO THE PROJECT SCOPE.

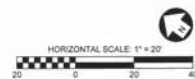
- EC-1 PROJECT SCHEDULING
- EC-2 PRESERVATION OF EXISTING VEGETATION
- NS-1 WATER CONSERVATION
- NS-3 PAVING AND GRINDING
- NS-4 DISCHARGE REPORTING
- NS-7 POTABLE WATER / IRRIGATION
- NS-8 VEHICLE CLEANING
- NS-9 VEHICLE FUELING
- NS-10 VEHICLE MAINTENANCE

THE FOLLOWING BMP'S SHALL BE USED IN THE CONTRACTOR STAGING AREA.

- WM-1 MATERIAL STORAGE
- WM-2 MATERIAL USAGE
- WM-3 STOCK PILE MANAGEMENT
- WM-4 SPILL PREVENTION KIT
- WM-5 SOLID WASTE (TRASH)
- WM-6 CONCRETE WASTE (WASH OUT)
- WM-9 SEPTIC / SANITARY FACILITIES

THE FOLLOWING BMP'S ARE SPECIFIED ON THIS PLAN AND ARE TO BE INSTALLED OR CONSTRUCTED PER DETAIL REFERENCES.

- SE-1 SILT FENCING, SEE DETAIL SE-1, SHEET C6.1
- SE-4 CHECK DAM, SEE DETAIL SE-4, SHEET C6.1
- SE-5 FIBER ROLLS, SEE DETAIL SE-5, SHEET C6.1
- SE-7 STREET SWEEPING AND VACUUMING
- SE-10 STORM DRAIN INLET PROTECTION, SEE DETAIL SE-10, SHEET C6.1
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT, SEE DETAIL TC-1, SHEET C6.1



The use of these plans and specifications shall be limited to the original site for which they were prepared and authorized. They are not to be used for any other project, nor shall they be reproduced or published in any form, in whole or in part, without the written consent of Ashley & Vance Engineering, Inc. without penalty. Voided unless these plans and specifications are used in accordance with the provisions of these restrictions.

Engineer of Record:



SANTA ROSA MONTEREY MIXED-USE
PUBLIC IMPROVEMENT
CORNER OF SANTA ROSA AND MONTEREY
SAN LUIS OBISPO, CA 93401

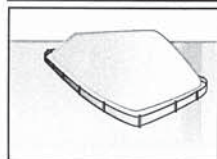
Project:	
Revisions:	
Proj. Eng.:	Jan Phone Ext.: 104
Proj. Mgr.:	Bob Phone Ext.: 110
Date:	02.05.2021 Scale: PER PLAN
AAV Job No.:	180376

EROSION SHEET

C-3.1

Stockpile Management

WM-3



Description and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and sediment pollution from stockpiles of soil, sand, gravel, aggregate, and other materials. Stockpiles should be covered with a tarp, or other material such as polyethylene sheeting, or other material such as (AC), asphalt concrete rubble, aggregate base, aggregate sub-base or precast aggregate, asphalt mulch (or called "solid mulch" asphalt), and pressure treated wood.

Suitable Applications

Implement in all projects that stockpile soil and other loose materials.

Limitations

- Plastic sheeting as a plastic protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
- Plastic sheeting can increase runoff volume due to lack of infiltration and potentially cause perimeter erosion failure.
- Plastic sheeting breaks down faster in sunlight.
- The use of plastic materials and photodegradable plastics should be avoided.

Implementation

Protection of stockpiles is a year-round requirement. To properly manage stockpiles.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

None



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Fiber Rolls

SE-5



Description and Purpose

A fiber roll consists of straw, hay, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel over fiber rolls are available, which contain an individual ballast material such as gravel or sand for additional weight when making the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contour, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By intercepting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

Suitable Applications

- Fiber rolls may be suitable:
 - Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
 - At the end of a downward slope where it transitions to a steeper slope.
 - Along the perimeter of a project.
 - As check dams in unlined ditches with minimal grade.
 - Down-slope of exposed soil areas.
 - As operational storm drains as a form of inlet protection.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

- SE-1 Silt Fence
- SE-4 Straw Log Bait
- SE-14 Sediment Bag



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Spill Prevention and Control

WM-4



Description and Purpose

Prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

This best management practice covers only spill prevention and control. However, WM-4, Materials Delivery and Storage, and WM-5, Material Use, also contain useful information, particularly on spill prevention. For information on wastes, see the waste management BMPs in this section.

Suitable Applications

- This BMP is suitable for all construction projects. Spill control procedures are implemented anytime chemicals or hazardous substances are stored on the construction site, including the following materials:
 - Soil stabilizers/binders
 - Dust palliatives
 - Herbicides
 - Growth inhibitors
 - Fertilizers
 - Decking/anti-icing chemicals

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

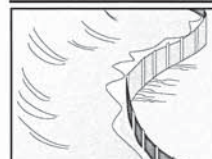
None



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Silt Fence

SE-1



Description and Purpose

A silt fence is made of a woven geotextile that has been extended, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains sediment-laden water, preventing sedimentation behind the fence.

Suitable Applications

- Silt fences are suitable for perimeter control, placed below areas where sheet flow discharges from the site. They could also be used as interior controls below disturbed areas where runoff may occur in the form of sheet and rill erosion and around slopes within disturbed areas (SE-5). Silt fences are generally effective in locations where the flow is concentrated and are only applicable for sheet or overland flows. Silt fences are most effective when used in combination with erosion controls. Suitable applications include:
 - Along the perimeter of a project.
 - Below the toe or down slope of exposed and erodible slopes.
 - Along stream and channels.
 - Around temporary spill areas and stockpiles.
 - Around inlets.
 - Below other small cleared areas.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

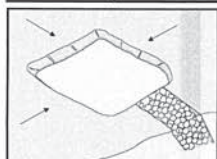
- SE-5 Filter Fabric
- SE-4 Straw Log Bait
- SE-14 Sediment Bag
- SE-10 Storm Drain Inlet Protection
- SE-14 Buffer Strip



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Sediment Trap

SE-3



Description and Purpose

A sediment trap is a containment area where sediment-laden runoff is temporarily detained under quiescent conditions, allowing sediment to settle out or before the runoff is discharged. Sediment traps are formed by excavating or constructing an earthen embankment across a waterway or low drainage area.

Suitable Applications

- Sediment traps should be considered for use:
 - At the perimeter of the site at locations where sediment-laden runoff is discharged offsite.
 - At multiple locations within the project site where sediment control is needed.
 - Around or up-slope from storm drain inlet protection measures.
 - Sediment traps may be used on construction projects where the drainage area is less than 2 acres. Traps would be placed where sediment-laden stormwater may enter a storm drain or watercourse. SE-3, Sediment Basin, must be used for drainage areas greater than 2 acres.
 - As a supplemental control, sediment traps provide additional protection for a water body or for reducing sediment before it enters a drainage system.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

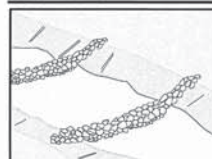
- SE-2 Sediment Basin (for larger areas)



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Check Dams

SE-4



Description and Purpose

A check dam is a small barrier constructed of rock, gravel, boulders, fiber rolls, or other proprietary products, placed across a concentrated area or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing erosion and channel erosion by reducing flow velocity and increasing resistance time within the channel, allowing sediment to settle.

Suitable Applications

- Check dams may be appropriate in the following situations:
 - To promote sedimentation behind the dam.
 - To prevent erosion by reducing the velocity of channel flow in small intermittent channels and temporary swales.
 - In small open channels that drain to areas or less.
 - In steep channels where stormwater runoff velocities exceed 4 ft/s.
 - During the establishment of grass linings in drainage ditches or channels.
 - In temporary ditches where the short length of service does not warrant establishment of erosion-resistant linings.
 - To act as a grade control structure.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

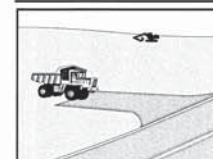
Potential Alternatives

- SE-1 Silt Fence
- SE-5 Filter Fabric
- SE-4 Straw Log Bait
- SE-14 Sediment Bag



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Stabilized Construction Entrance/Exit TC-1



Description and Purpose

A stabilized construction access is defined by a point of entrance (exit) to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Suitable Applications

- This BMP is suitable for all construction sites:
 - Where dirt or mud can be tracked onto public roads.
 - Adjacent to water bodies.
 - Where poor soils are encountered.
 - Where dust is a problem during dry weather conditions.

Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right-of-way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

Potential Alternatives

None



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Storm Drain Inlet Protection SE-10



Description and Purpose

Storm drain inlet protection consists of a sediment filter or an impeding area in, around or upstream of a storm drain, drop inlet, or curb inlet. Storm drain inlet protection structures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Storm filter configurations also remove sediment by filtering, but usually the ponding action results in the greatest sediment reduction. Temporary geotextile storm drain inserts attach underneath storm drain grates to capture and filter storm water.

Suitable Applications

- Storm drain inlet protection should be installed on unimproved or otherwise active work areas should be protected. Inlet protection should be used in conjunction with other erosion and sediment controls to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

Limitations

- Drainage areas should not exceed 1 acre.
- In general, storm drain inlets should not be used as inlet protection.
- Requires an adequate area for water to pond without encroaching into portions of the roadway subject to traffic.

Category	
TC: Erosion Control	SE
SE: Sediment Control	SE
TC: Tracking Control	SE
WE: Wind Erosion Control	SE
NS: Non-Stormwater Management Control	SE
WM: Waste Management and Materials Pollution Control	SE

Targeted Constituents

Nutrients	SE
Toxic	SE
Metals	SE
Residue	SE
Oil and Grease	SE
Organics	SE

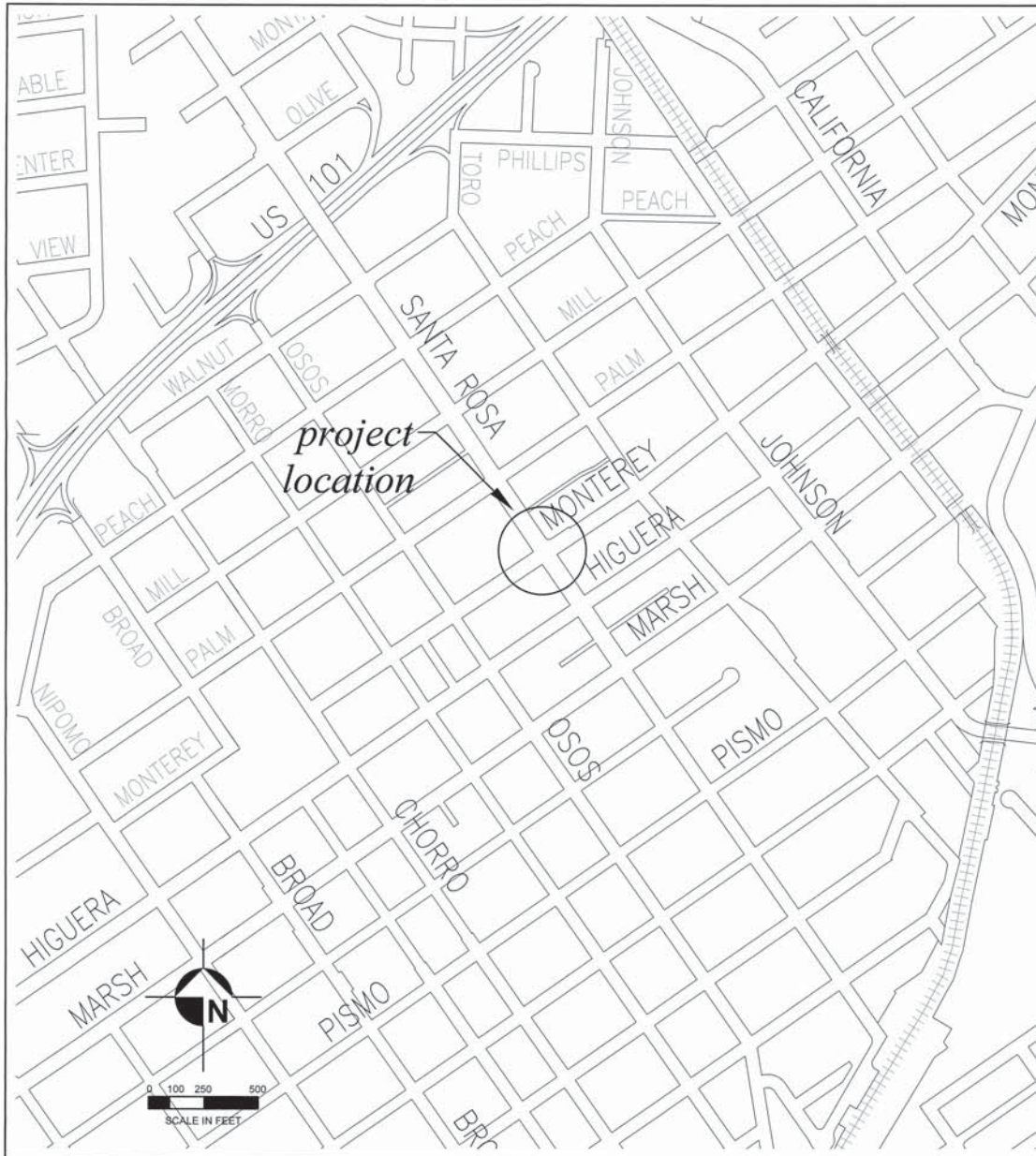
Potential Alternatives

- SE-1 Silt Fence
- SE-5 Filter Fabric
- SE-4 Straw Log Bait
- SE-8 Sediment Basin
- SE-14 Buffer Strip



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index to plans

- 1 TITLE AND LOCATION MAP
- 2 PLAN SHEET
- 3 POLE, CONDUIT AND CONDUCTOR SCHEDULE

general notes

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PERMITTEE TO CONTACT "UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA" BY PHONE AT 8-1-1 FORTY- EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION FOR LOCATION OF POWER, TELEPHONE, OIL AND NATURAL GAS UNDERGROUND FACILITIES. CONTRACTOR OR PERMITTEE SHALL ALSO CONTACT THE APPROPRIATE AGENCY FOR THE LOCATION OF CABLE T.V., WATER, SEWER, DRAINAGE OR UNDERGROUND FACILITIES.

Reference Documents:
City Standard Specifications: May 2018 Edition
City Engineering Standards: May 2018 Edition

CITY OF SAN LUIS OBISPO NOTICE

APPROVAL BY THE CITY DOES NOT GUARANTEE ACCURACY NOR COMPLETENESS OF THESE PLANS. IT DOES AUTHORIZE THE OWNER TO BUILD THE PROJECT HEREON. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND ENGINEER OF RECORD TO CORRECT ANY DEFICIENCIES THAT APPEAR DURING OR AFTER CONSTRUCTION. CITY SPECIFICATIONS AND ENGINEERING STANDARDS SHALL BE FOLLOWED UNLESS THEY ARE SPECIFICALLY WAIVED OR MODIFIED BY NOTES ON THESE PLANS. THE ENGINEER OF RECORD SHALL PROVIDE SUBMITTALS AS REQUIRED IN THE ENGINEERING STANDARDS.

datum

HORIZONTAL CONTROL FOR POINTS _____ & _____ AS PUBLISHED IN THE CITY OF SAN LUIS OBISPO 2007 HORIZONTAL CONTROL NETWORK. CITY NETWORK IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) EPOCH DATE 1991.35, ZONE 5 CALIFORNIA.

VERTICAL CONTROL BENCHMARK NO.(S) _____ & _____ WITH AN ELEVATION OF _____ AS PUBLISHED IN THE CITY OF SAN LUIS OBISPO 2007 BENCHMARK SYSTEM. CITY'S BENCHMARK SYSTEM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



895 NAPA AVENUE, SUITE A-6
MORRO BAY, CA 93442
(805) 316-0101



DATE: 2/5/2020

REVISIONS		APPROVAL
DATE	DESCRIPTION	ENGINEER CITY

PUBLIC IMPROVEMENT PLANS FOR:

**1101 MONTEREY
SANTA ROSA ST/MONTEREY ST
TRAFFIC SIGNAL MODIFICATION**

DRAWN BY:
TRAVIS LOW, EIT

CHECKED BY:
J. FERNANDEZ

JOB NO.:

CITY FILE NO.:

SHEET
1 of 3

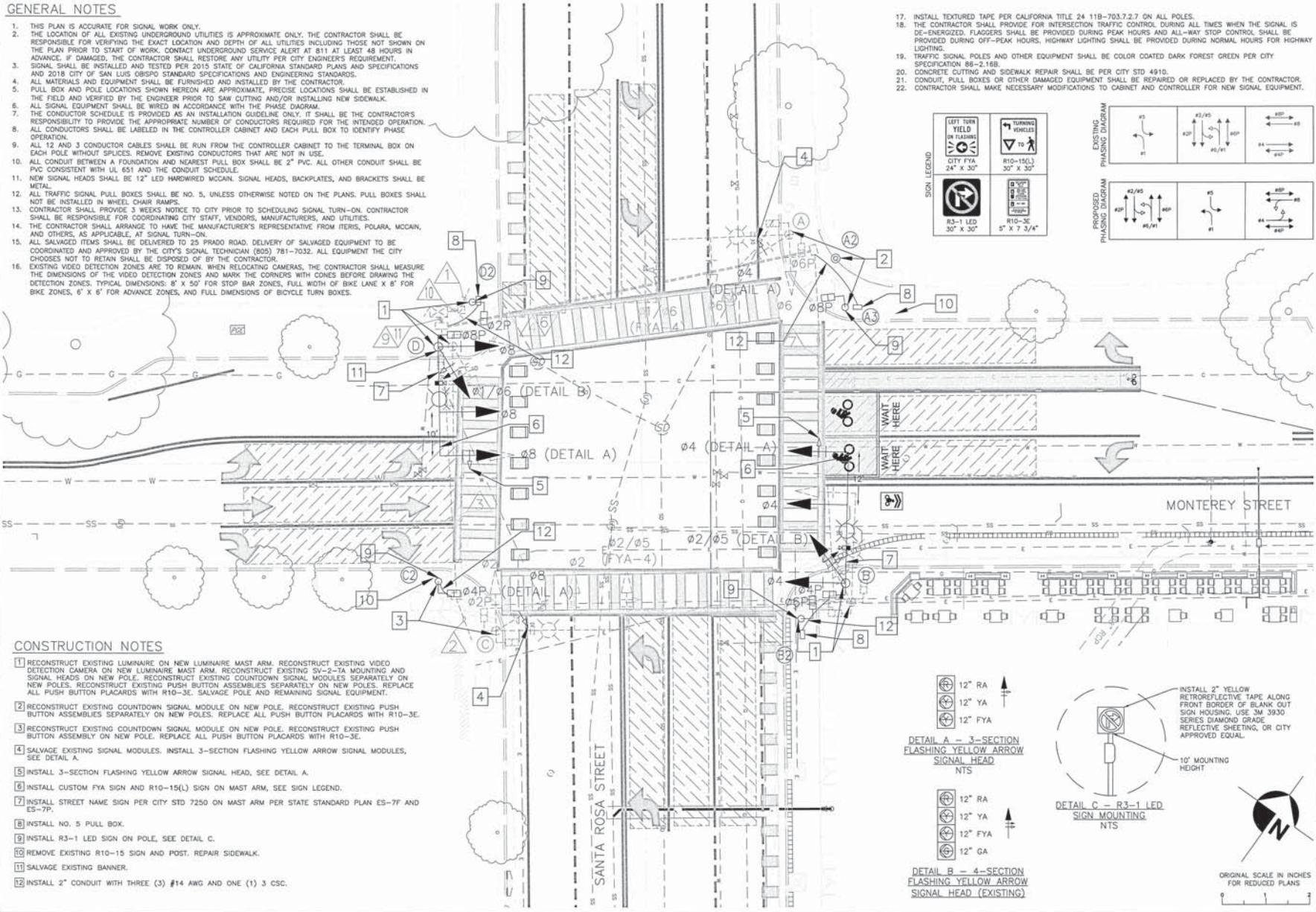
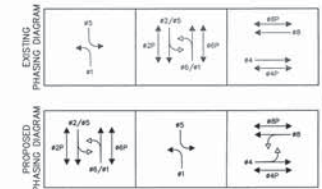
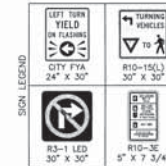
GENERAL NOTES

1. THIS PLAN IS ACCURATE FOR SIGNAL WORK ONLY.
2. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES INCLUDING THOSE NOT SHOWN ON THE PLAN PRIOR TO START OF WORK. CONTACT UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS IN ADVANCE. IF DAMAGED, THE CONTRACTOR SHALL RESTORE ANY UTILITY PER CITY ENGINEER'S REQUIREMENT.
3. SIGNAL SHALL BE INSTALLED AND TESTED PER 2015 STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS AND 2018 CITY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS AND ENGINEERING STANDARDS.
4. ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
5. PULL BOX AND POLE LOCATIONS SHOWN HEREON ARE APPROXIMATE. PRECISE LOCATIONS SHALL BE ESTABLISHED IN THE FIELD AND VERIFIED BY THE ENGINEER PRIOR TO SAW CUTTING AND/OR INSTALLING NEW SIDEWALK.
6. ALL SIGNAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH THE PHASE DIAGRAM.
7. THE CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE APPROPRIATE NUMBER OF CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
8. ALL CONDUCTORS SHALL BE LABELED IN THE CONTROLLER CABINET AND EACH PULL BOX TO IDENTIFY PHASE OPERATION.
9. ALL 12 AND 3 CONDUCTOR CABLES SHALL BE RUN FROM THE CONTROLLER CABINET TO THE TERMINAL BOX ON EACH POLE WITHOUT SPLICES. REMOVE EXISTING CONDUCTORS THAT ARE NOT IN USE.
10. ALL CONDUIT BETWEEN A FOUNDATION AND NEAREST PULL BOX SHALL BE 2" PVC. ALL OTHER CONDUIT SHALL BE PVC CONSISTENT WITH UL 651 AND THE CONDUIT SCHEDULE.
11. NEW SIGNAL HEADS SHALL BE 12" LED HARDWIRED MOCAN. SIGNAL HEADS, BACKPLATES, AND BRACKETS SHALL BE METAL.
12. ALL TRAFFIC SIGNAL PULL BOXES SHALL BE NO. 5, UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN WHEEL CHAIR RAMP.
13. CONTRACTOR SHALL PROVIDE 3 WEEKS NOTICE TO CITY PRIOR TO SCHEDULING SIGNAL TURN-ON. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CITY STAFF, VENDORS, MANUFACTURERS, AND UTILITIES.
14. THE CONTRACTOR SHALL ARRANGE TO HAVE THE MANUFACTURER'S REPRESENTATIVE FROM ITERIS, POLARA, MOCAN, AND OTHERS, AS APPLICABLE, AT SIGNAL TURN-ON.
15. ALL SALVAGED ITEMS SHALL BE DELIVERED TO 25 PRADO ROAD. DELIVERY OF SALVAGED EQUIPMENT TO BE COORDINATED AND APPROVED BY THE CITY'S SIGNAL TECHNICIAN (805) 781-7032. ALL EQUIPMENT THE CITY CHOOSES NOT TO RETAIN SHALL BE DISPOSED OF BY THE CONTRACTOR.
16. EXISTING VIDEO DETECTION ZONES ARE TO REMAIN. WHEN RELOCATING CAMERAS, THE CONTRACTOR SHALL MEASURE THE DIMENSIONS OF THE VIDEO DETECTION ZONES AND MARK THE CORNERS WITH CONES BEFORE DRAWING THE DETECTION ZONES. TYPICAL DIMENSIONS: 8' X 50' FOR STOP BAR ZONES, FULL WIDTH OF BIKE LANE X 8' FOR BIKE ZONES, 6' X 6' FOR ADVANCE ZONES, AND FULL DIMENSIONS OF BICYCLE TURN BOXES.

CONSTRUCTION NOTES

1. RECONSTRUCT EXISTING LUMINAIRE ON NEW LUMINAIRE MAST ARM. RECONSTRUCT EXISTING VIDEO DETECTION CAMERA ON NEW LUMINAIRE MAST ARM. RECONSTRUCT EXISTING SV-2-1A MOUNTING AND SIGNAL HEADS ON NEW POLE. RECONSTRUCT EXISTING COUNTDOWN SIGNAL MODULES SEPARATELY ON NEW POLES. RECONSTRUCT EXISTING PUSH BUTTON ASSEMBLIES SEPARATELY ON NEW POLES. REPLACE ALL PUSH BUTTON PLACARDS WITH R10-3E.
2. RECONSTRUCT EXISTING COUNTDOWN SIGNAL MODULE ON NEW POLE. RECONSTRUCT EXISTING PUSH BUTTON ASSEMBLIES SEPARATELY ON NEW POLES. REPLACE ALL PUSH BUTTON PLACARDS WITH R10-3E.
3. RECONSTRUCT EXISTING COUNTDOWN SIGNAL MODULE ON NEW POLE. RECONSTRUCT EXISTING PUSH BUTTON ASSEMBLY ON NEW POLE. REPLACE ALL PUSH BUTTON PLACARDS WITH R10-3E.
4. SALVAGE EXISTING SIGNAL MODULES. INSTALL 3-SECTION FLASHING YELLOW ARROW SIGNAL MODULES, SEE DETAIL A.
5. INSTALL 3-SECTION FLASHING YELLOW ARROW SIGNAL HEAD, SEE DETAIL A.
6. INSTALL CUSTOM FYA SIGN AND R10-15(L) SIGN ON MAST ARM, SEE SIGN LEGEND.
7. INSTALL STREET NAME SIGN PER CITY STD 7250 ON MAST ARM PER STATE STANDARD PLAN ES-7F AND ES-7P.
8. INSTALL NO. 5 PULL BOX.
9. INSTALL R3-1 LED SIGN ON POLE, SEE DETAIL C.
10. REMOVE EXISTING R10-15 SIGN AND POST. REPAIR SIDEWALK.
11. SALVAGE EXISTING BANNER.
12. INSTALL 2" CONDUIT WITH THREE (3) #14 AWG AND ONE (1) 3 CSC.

17. INSTALL TEXTURED TAPE PER CALIFORNIA TITLE 24 119-703.7.2.7 ON ALL POLES.
18. THE CONTRACTOR SHALL PROVIDE FOR INTERSECTION TRAFFIC CONTROL DURING ALL TIMES WHEN THE SIGNAL IS DE-ENERGIZED. FLAGGERS SHALL BE PROVIDED DURING PEAK HOURS AND ALL-WAY STOP CONTROL SHALL BE PROVIDED DURING OFF-PEAK HOURS. HIGHWAY LIGHTING SHALL BE PROVIDED DURING NORMAL HOURS FOR HIGHWAY LIGHTING.
19. TRAFFIC SIGNAL POLES AND OTHER EQUIPMENT SHALL BE COLOR COATED DARK FOREST GREEN PER CITY SPECIFICATION 88-2.168.
20. CONCRETE CUTTING AND SIDEWALK REPAIR SHALL BE PER CITY STD 4910.
21. CONDUIT, PULL BOXES OR OTHER DAMAGED EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
22. CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS TO CABINET AND CONTROLLER FOR NEW SIGNAL EQUIPMENT.



SANTA ROSA ST/MONTEREY ST TRAFFIC SIGNAL MODIFICATION

PLAN SHEET

PROJECT TITLE

SHEET TITLE



DESIGNED BY	MM
DRAWN BY	TL
CHECKED BY	JF
APPROVED BY	MM
SCALE	1" = 10'
DATE	2/5/2020
CITY SPECIFICATION NO.	
PLAN FILED / LOCATION	
SHEET NO.	2 of 3

POLE SCHEDULE

POLE	STANDARD			VEH SIG MTG		PED SIGNAL		APS PPB		LUMINAIRE	STREET NAME SIGN	CONSTRUCTION NOTES
	TYPE	SMA	LMA	MAST ARM	POLE	PHASE	MTG	PHASE	ARROW			
A	19-4-70 (Existing)	30'	12'	MAS/MAS-4B	SV-2-TB	6 & 8	SP-1-T	6 & 8	← & →	LED	monterey	2 4
A2	PPB POST (NEW)	-	-	-	-	-	-	8*	←*	-	-	2
A3	1-A (NEW)	-	-	-	-	8*	SP-1-T	6*	→*	-	-	2 8 9
B	19-3-70 (Existing)	25'	12'	MAS	SV-2-TA	4 & 6	SP-2-T	4 & 6	← & →	LED	santa rosa	1
	19-4-100 (NEW)	30'	12'	MAS/MAS	SV-2-TA*	4*	SP-1-T	6*	←*	LED*	santa rosa	1 5 6 7
B2	1-A (NEW)	-	-	-	-	6*	SP-1-T	4*	→*	-	-	1 8 9
C	19-4-70 (Existing)	30'	12'	MAS/MAS-4B	SV-2-TB	2 & 4	SP-1-T	2 & 4	← & →	LED	monterey	3 4
C2	1-A (NEW)	-	-	-	-	4*	SP-1-T	2*	→*	-	-	3 9
D	17-2-70 (Existing)	25'	12'	MAS	SV-2-TA	2 & 8	SP-2-T	2 & 8	← & →	LED	santa rosa	1
	19-4-100 (NEW)	25'	12'	MAS/MAS	SV-2-TA*	8*	SP-1-T	2*	←*	LED*	santa rosa	1 5 6 7
D2	1-A (NEW)	-	-	-	-	2*	SP-1-T	8*	→*	-	-	1 8 9

*EXISTING EQUIPMENT ON NEW POLE

CONDUIT AND CONDUCTOR SCHEDULE

AWG CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10	11
#14	a1							3			6	
	a2							6			6	
	a4							3	3		6	
	a5			3				3	3		6	
	a6			6				3	3		9	
	a8			3							3	
	a2P							2	2		2	
	a4P			2				2	2		4	
	a6P			2							2	
	a8P							2			2	
	a2PPB							1	1		1	
	a4PPB			1				1	1		2	
	a6PPB			1							1	
	a8PPB							1			1	
#10	PPB COMMON							1	1		2	
	BPB COMMON											
	PEU											
	SPARES			3				3	3		6	
#6	TOTAL #14			21				31	19		59	
	SIG 1 COMMON			1				1	1		2	
	LUMINAIRES			2				2	2		4	
#2	TOTAL #10			3				3	3		6	
	SIG SERVICE										2	
#2	SERVICE	3										
	a1							→	→		→	
	a2											
	a3											
	a4			→							→	
	a5											
	a6										→	
	a7							→	→		→	
	a8							→	→		→	
TOTAL DLC				→				→	→		→	
VIDEO SERVICE												
VIDEO CABLE - BELKIN 8281				1				2	1		4	
INTERCONNECT				1	1	1	1			1		1
PRE-EMPTION												
LED BLANK OUT SIGN (3 CSC)				1				2	1		4	
CONDUIT SIZE		1.5"	1.5"	2.5"	1"	1"	1"	2.5"	3.5"	1.5"	3"	1.5"

THE CONDUCTOR AND CABLE SCHEDULE WAS OBTAINED FROM THE CITY'S FLASHING YELLOW ARROW CONVERSION PROJECT DATED JULY 2016. THE CONDUCTOR AND CABLE SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE UNUSED CONDUCTORS AND PROVIDE THE APPROPRIATE NUMBER OF CONDUCTORS OR CABLES REQUIRED FOR THE INTENDED OPERATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ADDITIONAL CONDUIT AS NEEDED.

CONTRACTOR TO INSTALL NEW CABLE FOR LED R3-1 SIGNS

CONTRACTOR TO REMOVE EXISTING DLC



SANTA ROSA ST/MONTEREY ST
TRAFFIC SIGNAL MODIFICATION

POLE, CONDUIT AND CONDUCTOR SCHEDULE

PROJECT TITLE

SHEET TITLE



DESIGNED BY: MM
DRAWN BY: TL
CHECKED BY: JF
APPROVED BY: MM
SCALE: NTS
DATE: 2/5/2020
CITY SPECIFICATION NO:
PLAN FILE NO / LOCATION:
SHEET NO:
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