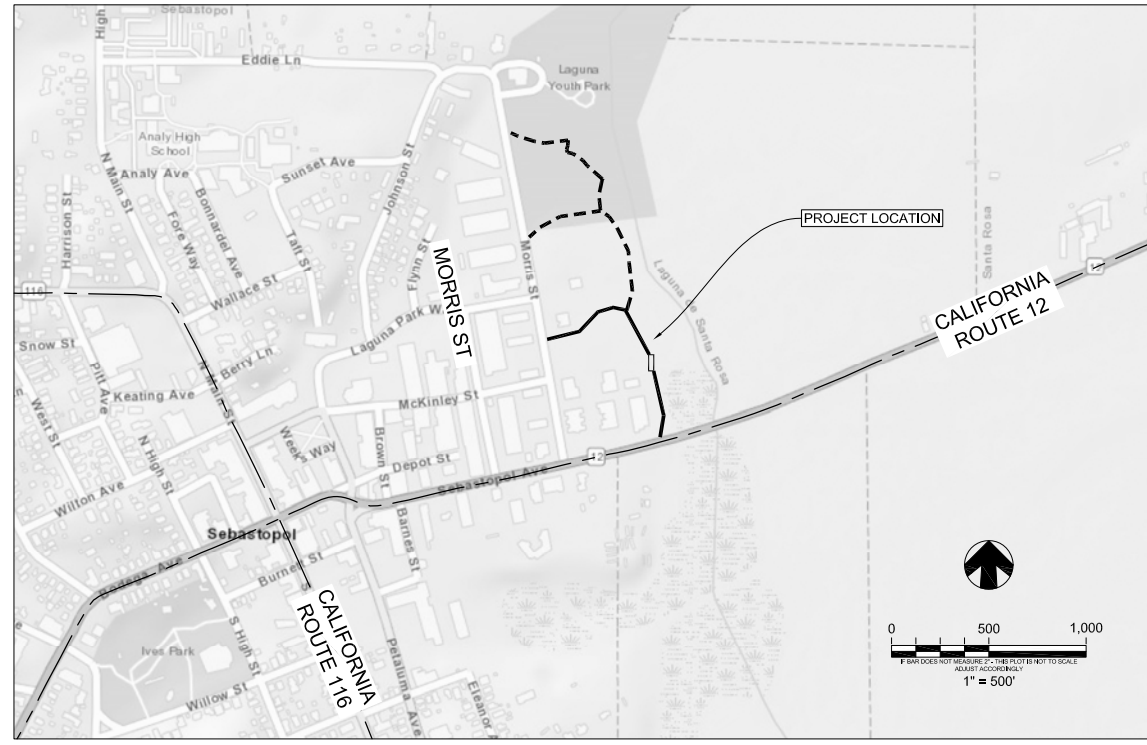


CITY OF SEBASTOPOL

PLANS FOR CONSTRUCTION OF

AMERICORPS TRAIL



AREA MAP

SHEET LIST TABLE

Sheet Number	Sheet Title
1	COVER SHEET
2	OVERVIEW & SHEET LAYOUT
3	STATION 0+00 TO 5+00
4	STATION 5+00 TO 10+00
5	STATION 10+00 TO 12+50
6	48' x 6' BRIDGE
7	BRIDGE DETAILS
8	BRIDGE COMPONENT DETAILS
9	TRAIL DETAILS
10	PATHWAY DETAILS

GENERAL NOTES:

1. DESIGN INTENT: THESE PLANS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT OF QUESTA ENGINEERING CORPORATION (ENGINEER), AS APPROVED BY THE OWNER, CITY OF SEBASTOPOL (CITY). THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN ON THESE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS AND ASSOCIATED RISK AND EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF THE APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY UNFORESEEN CIRCUMSTANCES OR CONDITIONS THAT WOULD ALTER THESE PLANS AND SPECIFICATIONS FOR APPROVAL OF MODIFICATIONS TO THE INTENDED DESIGN.

2. COMPOSITE GROUND MAP: THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE MAP. THIS BASE MAP IS COMPILED FROM A SURVEY, AND OTHER DATA AS MADE AVAILABLE TO THE ENGINEER, WHO SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS OR OTHER ERRORS ON THESE DOCUMENTS. THE COMPOSITE BASE MAP IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE THE SAME. THE REFERENCE ELEVATION FOR THE BASE MAP IS SHOWN ON THE DRAWINGS.

3. MATERIALS AND WORKMANSHIP: ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF SEBASTOPOL PUBLIC WORKS DEPARTMENT ENGINEERING STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

4. PRE-CONSTRUCTION MEETING: A PRE-CONSTRUCTION MEETING SHALL BE ARRANGED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF WORK. THE MEETING SHALL BE ATTENDED BY THE OWNER, CONTRACTOR (INCLUDING SITE FOREMAN AND KEY PERSONNEL), ENGINEER, AND REPRESENTATIVES OF THE CITY. PROSPECTIVE PARTICIPANTS SHALL BE NOTIFIED OF THE MEETING A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE MEETING. THE PURPOSE OF THE MEETING IS TO REVIEW THE WORK PLAN AND PROVIDE CLARIFICATIONS, REVIEW JOB REQUIREMENTS, AND DISCUSS CONDITIONS OF ANY PERMITS. NOTICE FOR THE CONTRACTOR TO PROCEED WITH WORK SHALL BE PROVIDED AT COMPLETION OF THE PRE-CONSTRUCTION MEETING.

5. SITE PROTECTION: THE CONTRACTOR IS ADVISED OF THE PRESENCE OF TREES, SHRUBS AND EXISTING FACILITIES LOCATED NEAR PROJECT WORK AREAS. THE SITE IMPROVEMENTS AND OTHER PROJECT FACILITIES HAVE BEEN CAREFULLY LOCATED TO AVOID PHYSICAL DISTURBANCE OF EXISTING IMPROVEMENTS. THE LIMITS OF WORK ARE SHOWN ON THE DRAWINGS. ALL CONTRACTOR ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION ACTIVITIES, VEHICLE MAINTENANCE, AND MATERIALS AND EQUIPMENT STORAGE AND STAGING, MUST BE STRICTLY CONFINED TO THE WORK AREAS SHOWN ON THE DRAWINGS. THE LIMITS OF WORK WILL BE CAREFULLY LOCATED IN THE FIELD BY THE CONTRACTOR AND ENGINEER OF RECORD, AND ALL WORK LIMIT AREAS WILL BE PROTECTED IN ACCORDANCE WITH APPLICABLE STORMWATER POLLUTION PREVENTION MEASURES.

6. COMPLETION SCHEDULE: CONTRACTOR SHALL PROVIDE CITY WITH A PROJECT CONSTRUCTION COMPLETION SCHEDULE WITHIN 72-HOURS OF AWARD OF CONTRACT AND REVIEW THIS SCHEDULE AND ANY CHANGES AT PRE-CONSTRUCTION MEETING. SITE IMPROVEMENTS, INCLUDING TRAIL CONSTRUCTION MUST BE COMPLETED PRIOR TO THE DATE SPECIFIED IN THE CONTRACT DOCUMENTS.

7. UTILITIES: CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES IN THE PROJECT AREA A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR MUST INVESTIGATE AND VERIFY THE LOCATION OF ANY EXISTING UTILITIES WITHIN THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UTILITIES. ANY UTILITIES PLOTTED ON THE PLANS ARE CONSIDERED TENTATIVE AND APPROXIMATIONS AND THEREFORE, NO WARRANTY EXPRESSED OR IMPLIED IS MADE AS TO THE COMPLETENESS OR CORRECTION OF THEIR LOCATION. THE UTILITY COMPANIES ARE THOUGHT TO BE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON-CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY U.S.A. 72-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK AT 1-800-227 2600, 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. EXISTING PUBLIC UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY THE CITY, PG&E, AT&T, AND ALL OTHER AFFECTED AGENCIES.

8. DAMAGE AND PROTECTION OF EXISTING FACILITIES: CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FACILITIES, AND ANY OTHER IMPROVEMENTS FROM DAMAGE RESULTING FROM CONTRACTOR'S WORK, INCLUDING ALL UTILITIES, PUBLIC AND PRIVATE. CONTRACTOR SHALL EXERCISE CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING PUBLIC PROPERTY, INCLUDING STREETS, PARKING AREAS, TREES, SHRUBS, AND OTHER PROPERTY IMPROVEMENTS. IF CONTRACTOR CAUSES DAMAGES TO SUCH ITEMS, THEY SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT IN LIKE NUMBER, KIND, CONDITION AND SIZE. THE COST OF REPAIRS AND REPLACEMENT OF DAMAGED PROPERTY SHALL BE AT THE CONTRACTOR'S EXPENSE. ANY SUCH COSTS MAY BE DEDUCTED BY THE CITY FROM MONIES DUE CONTRACTOR UNDER THIS CONTRACT.

9. JOB SITE CONDITIONS, TRAFFIC CONTROL AND CONTRACTOR RESPONSIBILITY: CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, TRAFFIC CONTROL, AND ACCESS TO AND FROM ADJOINING DRIVEWAYS AND STREETS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD CITY AND THE ENGINEER (QUESTA ENGINEERING CORPORATION) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE ENGINEER. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION, INCLUDING SAFETY OF PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (CalIOSHA) PRIOR TO EXCAVATION OF ANY TRENCH GREATER THAN FIVE (5) FEET IN DEPTH.

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL SIGNS SHALL BE APPROPRIATELY CONSTRUCTED WITH REFLECTIVE MATERIAL ON A BACKING OF METAL OR FABRIC (NO WOOD OR PLASTIC ALLOWED) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY, PER SECTION 12 OF THE CALTRANS SPECIAL PROVISIONS.

THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION, INCLUDING ACCESS TO FLYNN STREET.

10. CLARIFICATION, CHANGE ORDERS, AND ADDITIONAL WORK: SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS, OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS, OR SHOULD THERE BE ANY DOUBT AS TO THEIR MEANING OR INTENT, THEN THE CONTRACTOR SHALL NOTIFY JOINTLY, CITY AND ENGINEER (QUESTA ENGINEERING CORPORATION) FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THE CONTRACTOR FAIL TO DO SO BEFORE SUBMITTING AN INVOICE FOR ADDITIONAL WORK, THE CONTRACTOR CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT. THE EXCEPTION IS EMERGENCY WORK AS DEFINED IN THE CALTRANS STANDARDS.

THE CITY OR ENGINEER OF RECORD, ACTING ON BEHALF OF THE CITY, MAY REQUIRE PLAN REVISIONS DUE TO UNFORESEEN CIRCUMSTANCES AND CONFLICTS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY, JOINTLY THE CITY AND THE ENGINEER OF RECORD OF ANY SUCH WORK THAT IS ADDITIONAL AND SUBMIT A WRITTEN COST-ESTIMATE FOR SUCH WORK. "EXTRA WORK" AND WRITTEN CHANGE ORDERS WILL BE EXECUTED UPON THE RECOMMENDATION OF THE ENGINEER.

11. PAYMENTS: PAYMENT SHALL BE BASED ON COMPLETED CONTRACTOR'S BID SHEET AND ISSUED WRITTEN CHANGE ORDERS. THE ENGINEER OF RECORD SHALL VERIFY FIELD MEASUREMENTS AND CONTRACTOR QUANTITY ESTIMATES, WHERE APPLICABLE, AND UNLESS OTHERWISE NOTED.

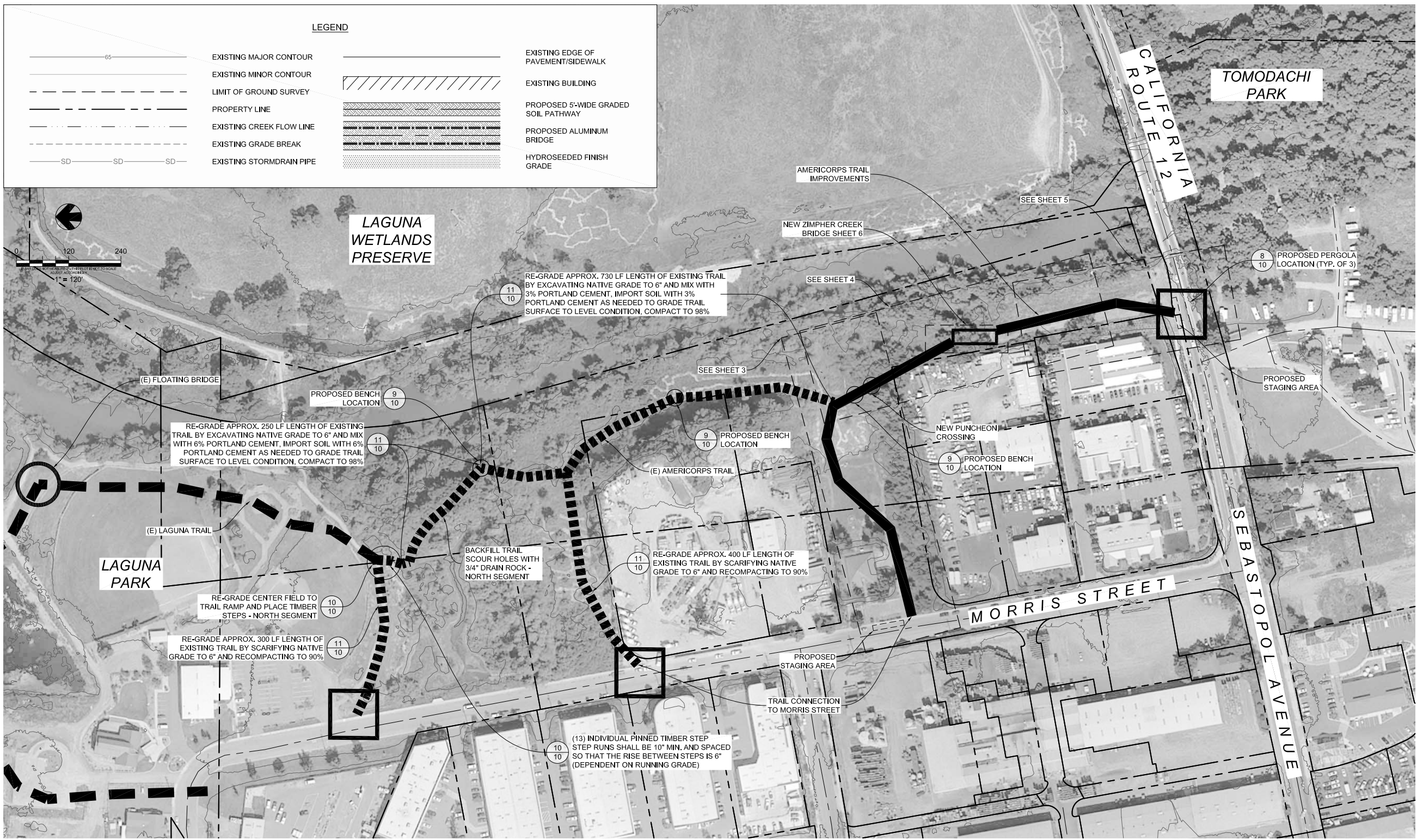
12. MISCELLANEOUS: WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS IF THERE IS A CONFLICT. THE CONTRACTOR SHALL JOINTLY CONTACT THE CITY AND ENGINEER TO OBTAIN ADDITIONAL CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

13. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT AND ANY OTHER APPLICABLE PERMITS FROM THE CITY OF SEBASTOPOL PUBLIC WORKS DEPARTMENT PRIOR TO STARTING ANY WORK, INCLUDING WORK IN THE PUBLIC RIGHT OF WAY.

14. THE CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS 48 HOURS IN ADVANCE BY CALLING THE PUBLIC WORKS DEPARTMENT AT (707) 838-2151.

15. THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER RESOURCES CONTROL BOARD CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ. THE CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE IF ANY RAIN IS PREDICTED WITHIN A 48-HOUR PERIOD.

**BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
AT 811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS**



AMERICORPS TRAIL IMPROVEMENT PROJECT

CITY OF SEBASTOPOL PLANNING DEPARTMENT
SONOMA COUNTY

QUESTA
ENGINEERING CORP.

Civil
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& Water Resources

(510) 236-6114
FAX (510) 236-2423
questa@questaec.com
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807



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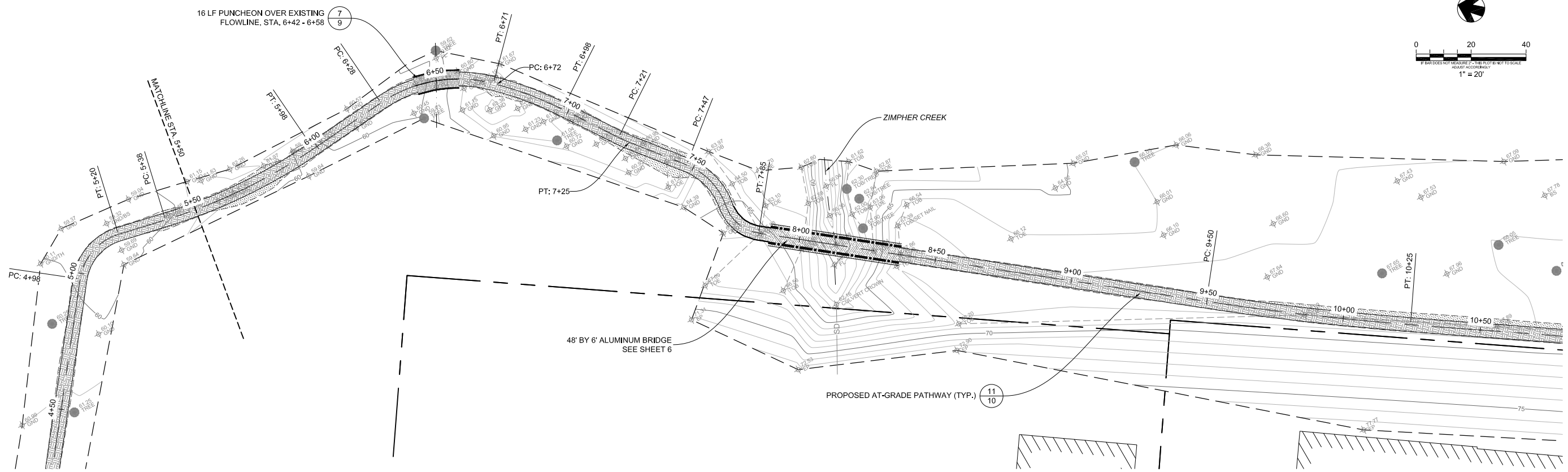
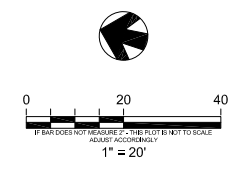
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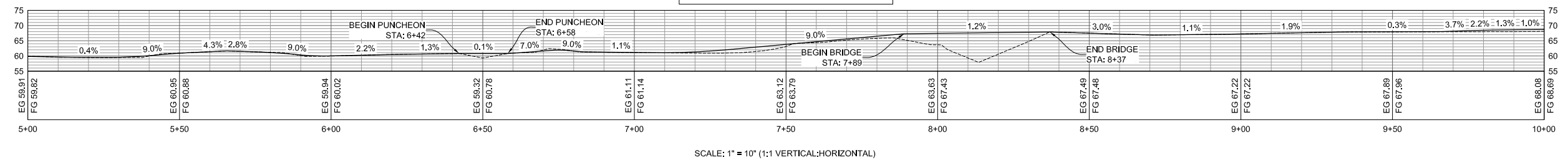
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SHEET: 2 OF 10

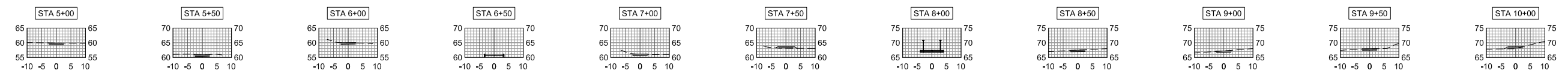
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PROPOSED TRAIL CENTERLINE PROFILE



SCALE: 1" = 10' (1:1 VERTICAL:HORIZONTAL)



LEGEND			
	EXISTING MAJOR CONTOUR		EXISTING EDGE OF PAVEMENT/SIDEWALK
	EXISTING MINOR CONTOUR		EXISTING BUILDING
	LIMIT OF GROUND SURVEY		PROPOSED 5'-WIDE GRADED SOIL PATHWAY
	PROPERTY LINE		PROPOSED ALUMINUM BRIDGE
	EXISTING CREEK FLOW LINE		HYDROSEEDED FINISH GRADE
	EXISTING GRADE BREAK		
	EXISTING STORMDRAIN PIPE		

AMERICORPS TRAIL IMPROVEMENT PROJECT
 CITY OF SEBASTOPOL PLANNING DEPARTMENT
 SONOMA COUNTY

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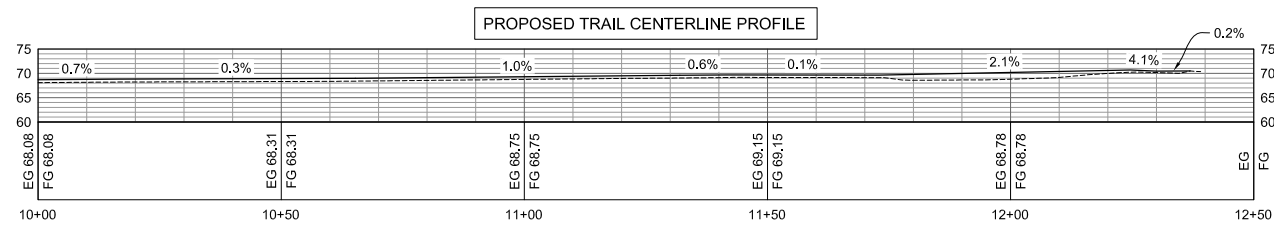
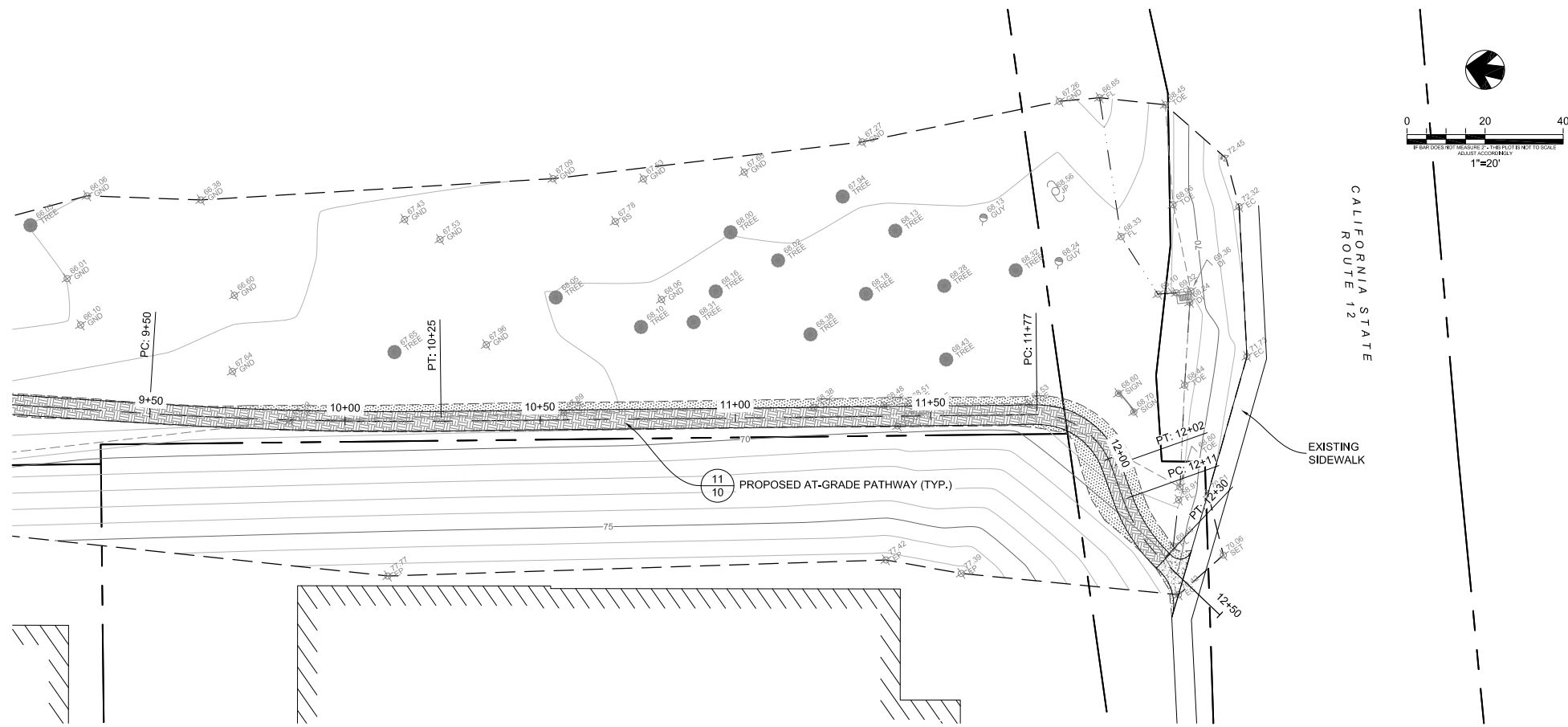
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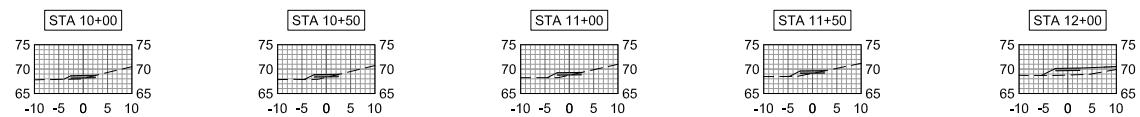
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 SEBASTOPOL CALIFORNIA

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SCALE: 1" = 10' (1:1 VERTICAL:HORIZONTAL)



LEGEND			
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	EXISTING MINOR CONTOUR		EXISTING BUILDING
	LIMIT OF GROUND SURVEY		PROPOSED 5-WIDE GRADED SOIL PATHWAY
	PROPERTY LINE		PROPOSED ALUMINUM BRIDGE
	EXISTING CREEK FLOW LINE		HYDROSEEDED FINISH GRADE
	EXISTING GRADE BREAK		
	EXISTING STORMDRAIN PIPE		

AMERICORPS TRAIL IMPROVEMENT PROJECT

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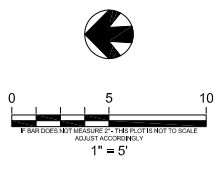
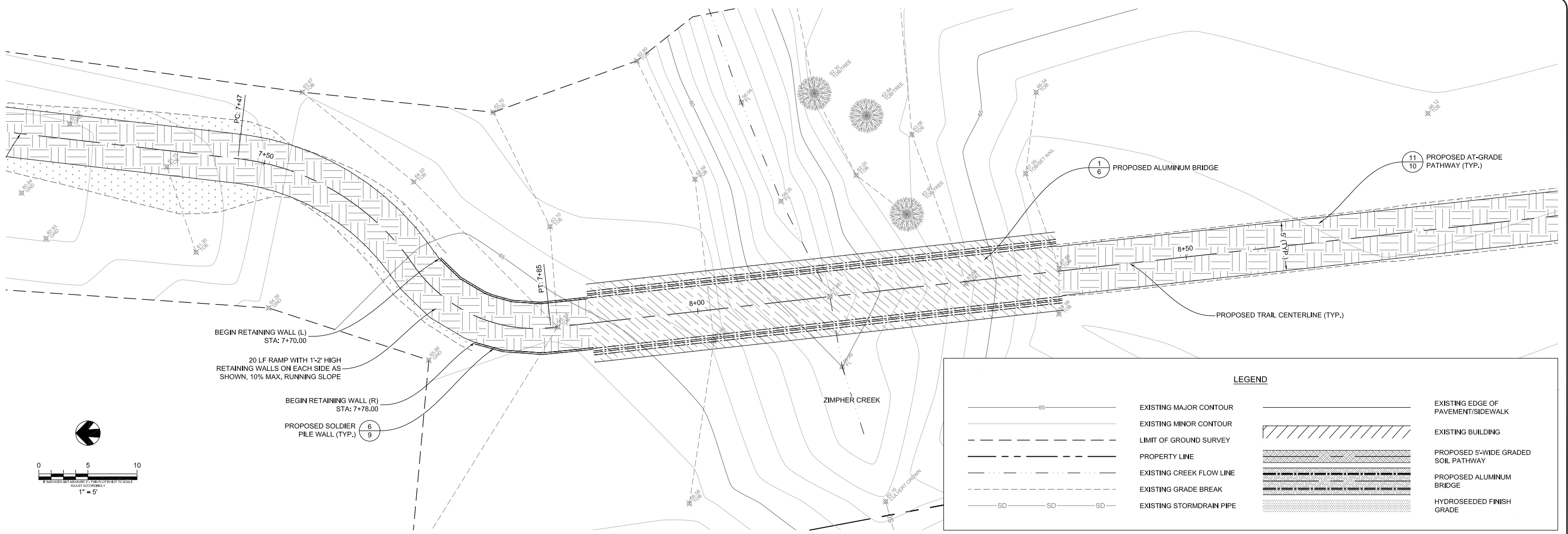
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STATION 10+00 TO 12+50

SEBASTOPOL
CALIFORNIA

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SHEET:	5 OF 10

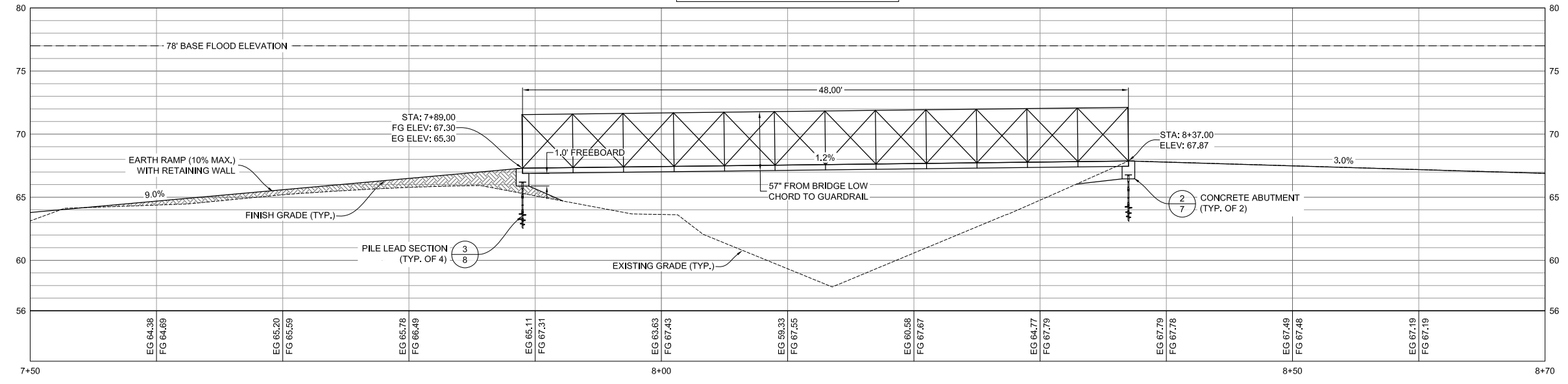
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LEGEND

	EXISTING MAJOR CONTOUR		EXISTING EDGE OF PAVEMENT/SIDEWALK
	EXISTING MINOR CONTOUR		EXISTING BUILDING
	LIMIT OF GROUND SURVEY		PROPOSED 5'-WIDE GRADED SOIL PATHWAY
	PROPERTY LINE		PROPOSED ALUMINUM BRIDGE
	EXISTING CREEK FLOW LINE		HYDROSEEDED FINISH GRADE
	EXISTING GRADE BREAK		
	EXISTING STORMDRAIN PIPE		

PROPOSED TRAIL CENTERLINE PROFILE



SCALE: 1" = 10' (1:1 VERTICAL:HORIZONTAL)

AMERICORPS TRAIL IMPROVEMENT PROJECT
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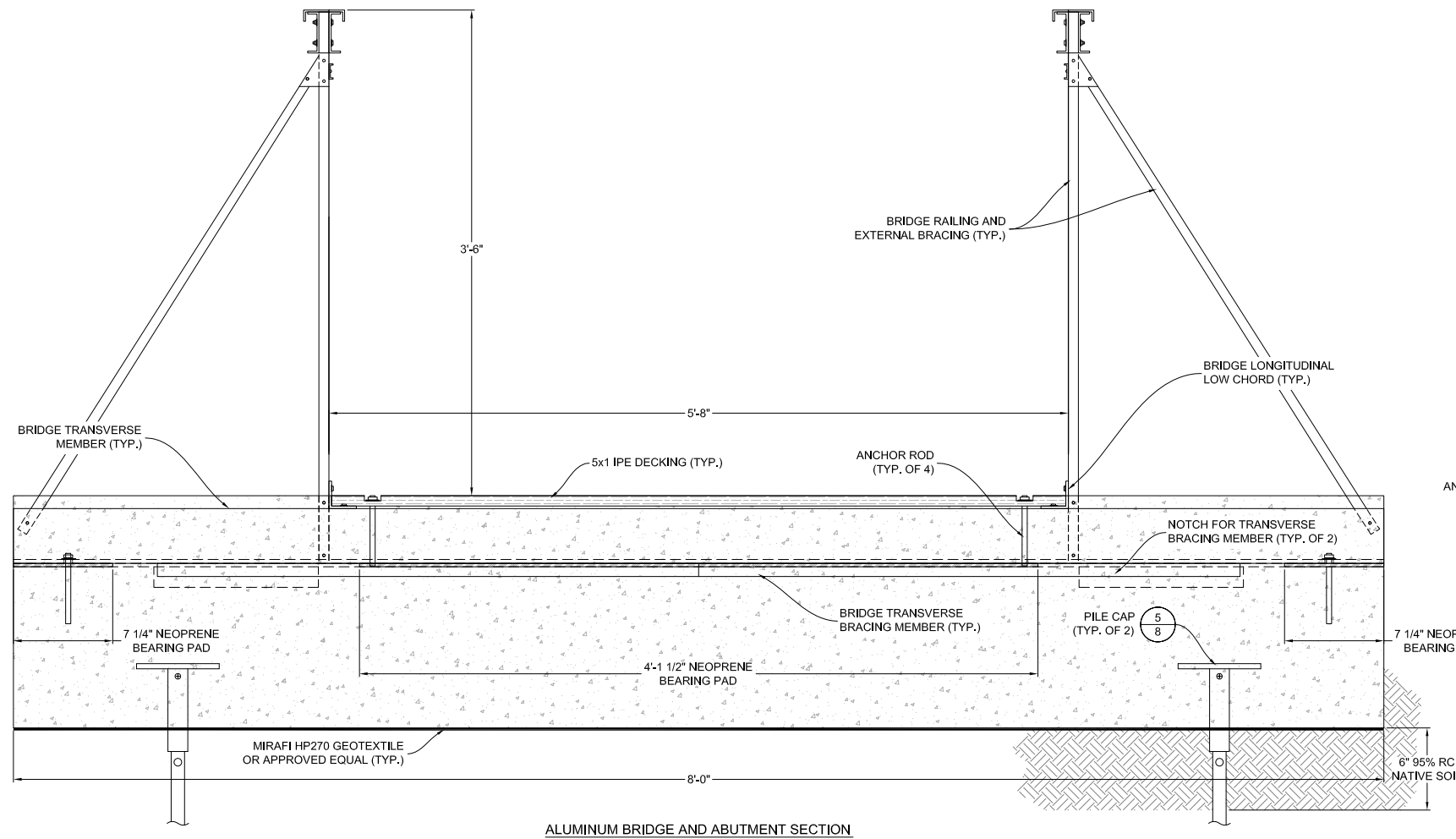
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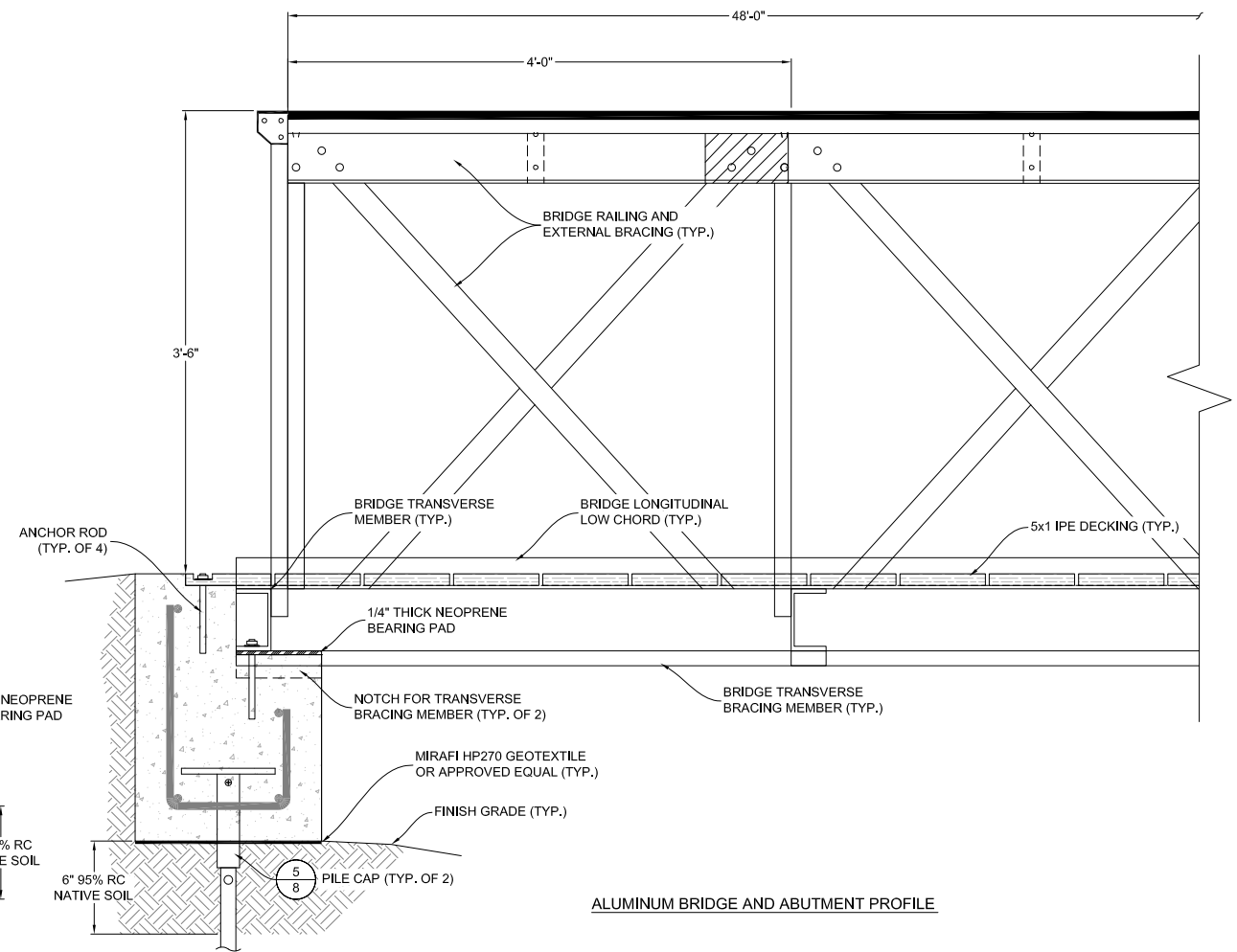
48' X 6' BRIDGE
 SEBASTOPOL CALIFORNIA

Size D Project 1700038
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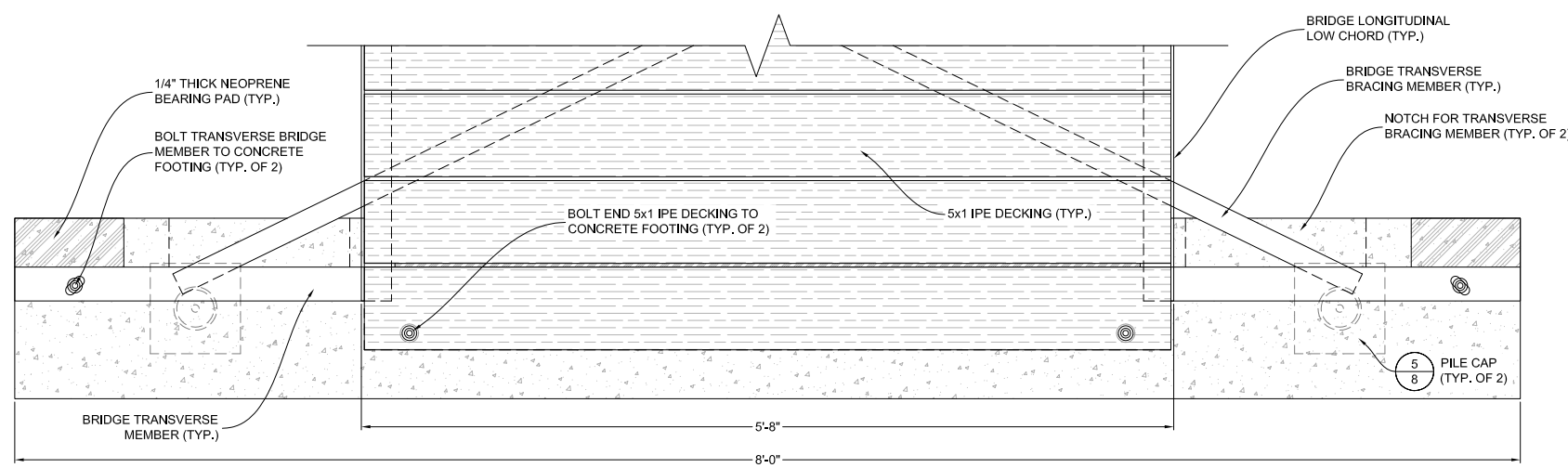
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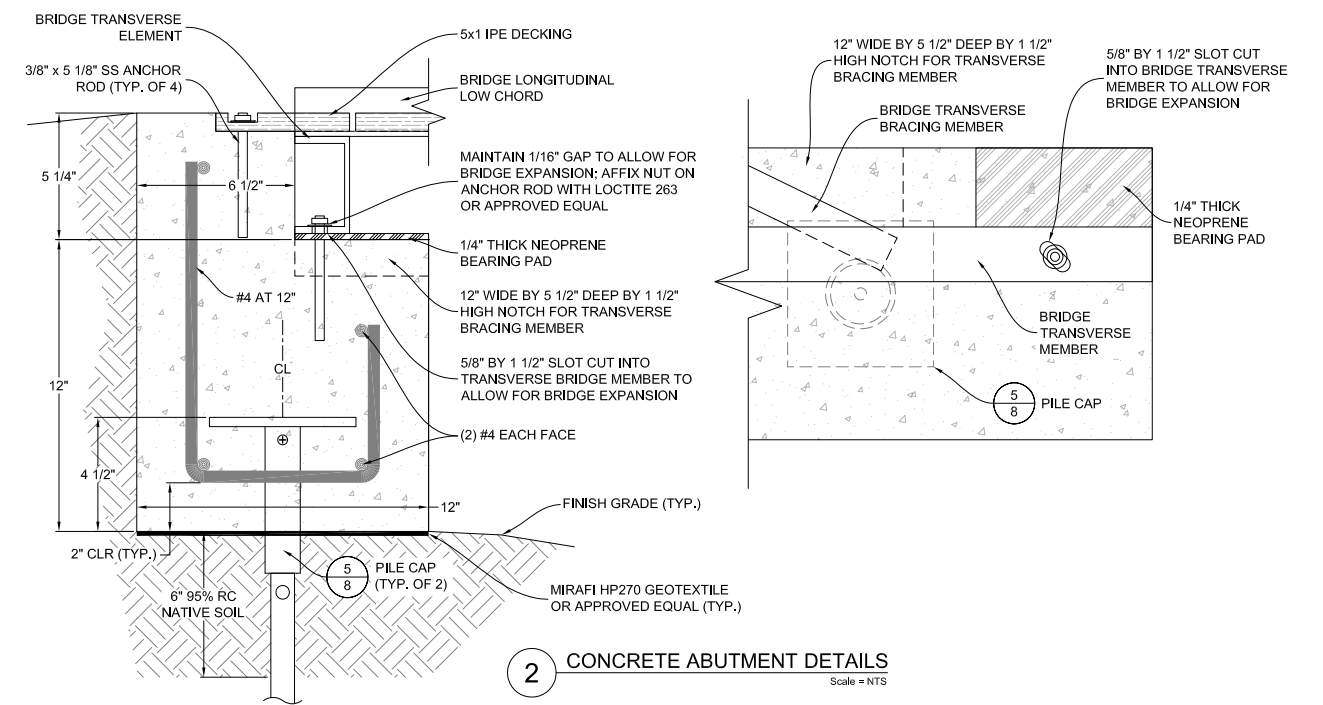
ALUMINUM BRIDGE AND ABUTMENT SECTION



ALUMINUM BRIDGE AND ABUTMENT PROFILE



CONCRETE ABUTMENT PLAN



CONCRETE ABUTMENT DETAILS

1 ALUMINUM BRIDGE DETAILS
Scale = NTS

2 CONCRETE ABUTMENT DETAILS
Scale = NTS

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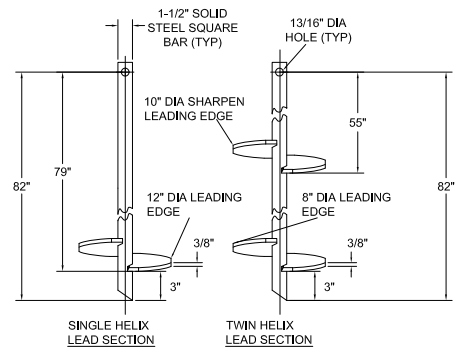
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BRIDGE DETAILS

SEBASTOPOL
CALIFORNIA

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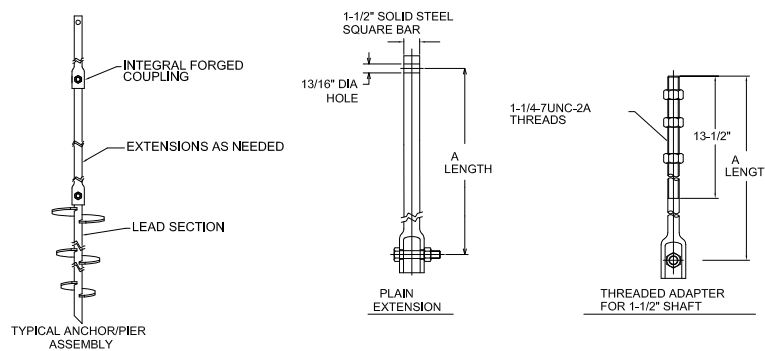


HELIX MUST BE FORMED BY MATCHING METAL DIE (SIDE VIEW OF TRUE HELICAL FORM)

-NOTES-

1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REV.)
2. LEAD AND EXTENSION SECTION AND PILOT POINT LENGTHS ARE NOMINAL.
3. SHAFT MATERIAL-HOT ROLLED ROUND-CORNERED SQUARE (RCS) SOLID STEEL BARS PER ASTM A29; MINIMUM YIELD STRENGTH=70 KSI.
4. HELIX MATERIAL-HOT ROLLED LOW CARBON STEEL SHEET, STRIP, OR PLATE PER ASTM A656, OR A1018 GRADE 80; MINIMUM YIELD STRENGTH=80 KSI.
5. COUPLING BOLTS: 3/4" DIAMETER X 3" LONG HEX HEAD PER ASTM A320 GRADE L7
6. NOMINAL SPACING BETWEEN HELICAL PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
7. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
8. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.

3 PILE LEAD SECTION DETAIL
Scale = NTS

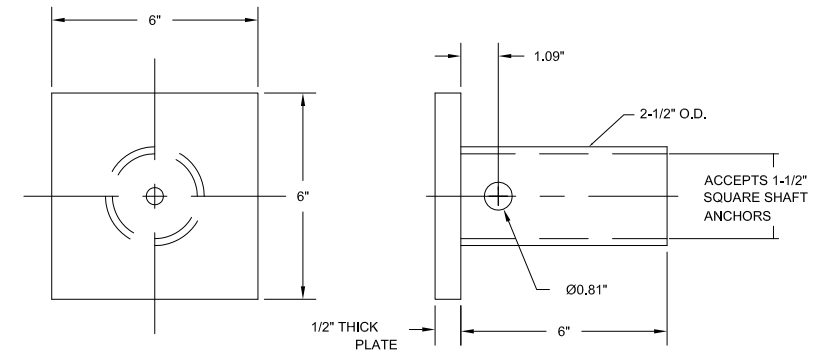


==NOTES==

1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REVISION).
2. LEAD AND EXTENSION SECTION LENGTHS AND HELIX SPACINGS ARE NOMINAL.
3. SHAFT MATERIAL-HOT ROLLED ROUND-CORNERED-SQUARE (RCS) SOLID STEEL BARS PER ASTM A29; MINIMUM YIELD STRENGTH=70 KSI.
4. COUPLING BOLTS: 3/4" DIAMETER X 3" LONG HEX HEAD PER ASTM A320 GRADE L7.
5. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
6. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
7. SEE ICC EVALUATION SERVICE INC., EVALUATION REPORT NO. ER-5110 FOR ALLOWABLE VALUES AND/OR CONDITIONS OF USE CONCERNING MATERIAL PRESENTED IN THIS DOCUMENT.

EXTENSION SECTION	
CAT. NO.	A
C150-0144	38"
C150-0145	59"
C150-0148	81"
C150-0175	124"
C150-0032	20"
C114-0009	11"

4 PILE EXTENSION AND ADAPTER DETAIL
Scale = NTS



==NOTES==

1. FINISH: HOT DIP GALVAIZED PER ASTM-A153 (LATEST REVISION)
2. MATERIAL SPECIFICATIONS: PIPE: BLACK UNCOATED ROUND STEEL TUBE PER ASTM A513 TYPE 5, GRADE 1026. PLATE: PER ASTM A572 GRADE 50.
3. TENSION RATING VALID ONLY IF USING COUPLING BOLT AND NUT SPECIFIED IN CHART BELOW OR THEIR MECHANICAL EQUIVALENT.
4. THESE ABOVE RATINGS ARE VALID ONLY IF THE PIER CAP DETAIL HAS BEEN DESIGNED TO ENSURE ADEQUATE LOAD TRANSFER FROM REINFORCED CONCRETE FOUNDATION TO SCREW PIER, AND IN ACCORDANCE WITH EXISTING LOCAL CODE REQUIREMENTS AND /OR ESTABLISHED LOCAL PRACTICES.

5 PILE CAP DETAIL
Scale = NTS

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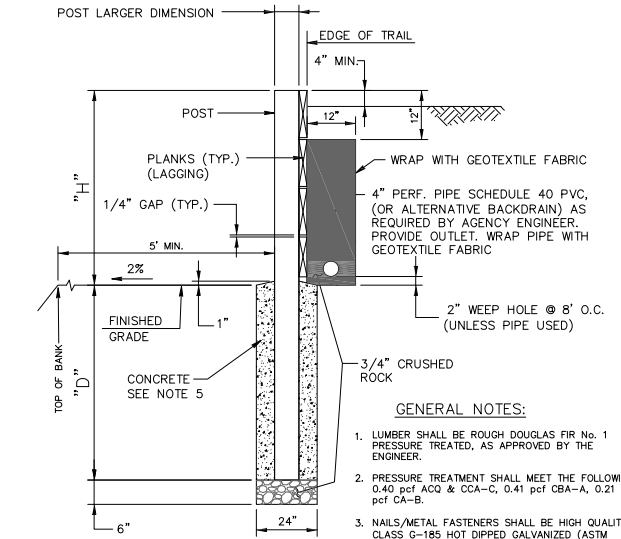
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BRIDGE COMPONENT DETAILS

SEBASTOPOL
CALIFORNIA

Size D	Project 1700038
Scale:	AS NOTED
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SHEET:	8 OF 10

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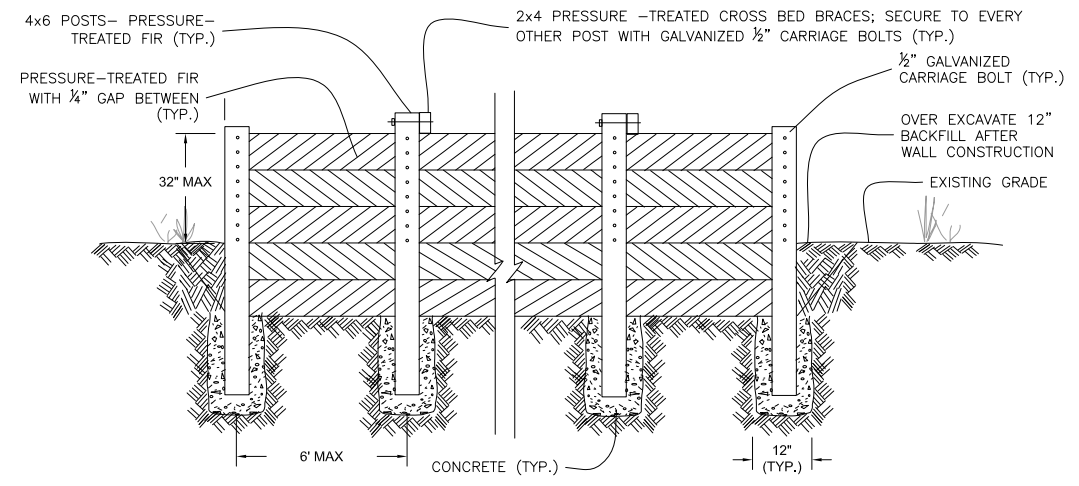


GENERAL NOTES:

- LUMBER SHALL BE ROUGH DOUGLAS FIR No. 1 PRESSURE TREATED, AS APPROVED BY THE ENGINEER.
- PRESSURE TREATMENT SHALL MEET THE FOLLOWING: 0.40 pcf ACQ & CCA-C, 0.41 pcf CBA-A, 0.21 pcf CA-B.
- NAILS/METAL FASTENERS SHALL BE HIGH QUALITY CLASS G-185 HOT DIPPED GALVANIZED (ASTM A153 OR A653), 304 OR 316 STAINLESS STEEL, OR OTHER ACCEPTABLE CORROSION RESISTANT MATERIAL.
- ALL CUTS, HOLES AND INJURIES (SUCH AS ABRASIONS AND NAIL HOLES) SHALL BE FIELD TREATED WITH APPLICATIONS OF PRESERVATIVES IN ACCORDANCE WITH AWPA STANDARD M4.
- CONCRETE FOR POST SUPPORT SHALL BE CLASS C (4 SACK MIX) WITH 1" MAX. AGGREGATE.

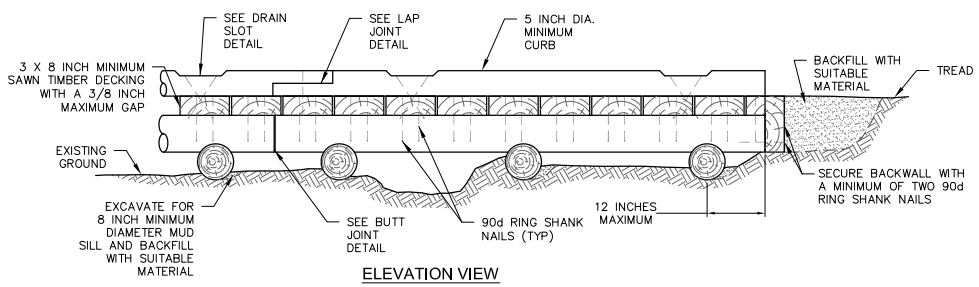
WALL HEIGHT	SPACING "S"	NOMINAL SIZE	HOLE Ø "B"	DEPTH "D"
6 - 18"	4'-0"	4X4	1'-0"	3'-6"
18 - 30"	4'-0"	4X6	1'-6"	5'-0"

SIDE VIEW

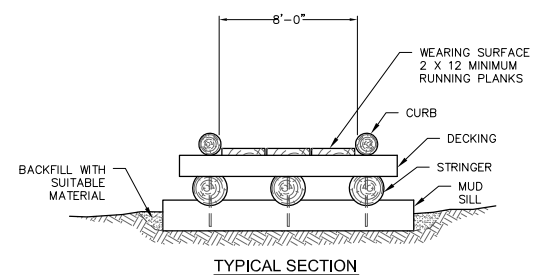


ELEVATION VIEW

6 SOLDIER PILE WALL DETAILS
Scale = NTS



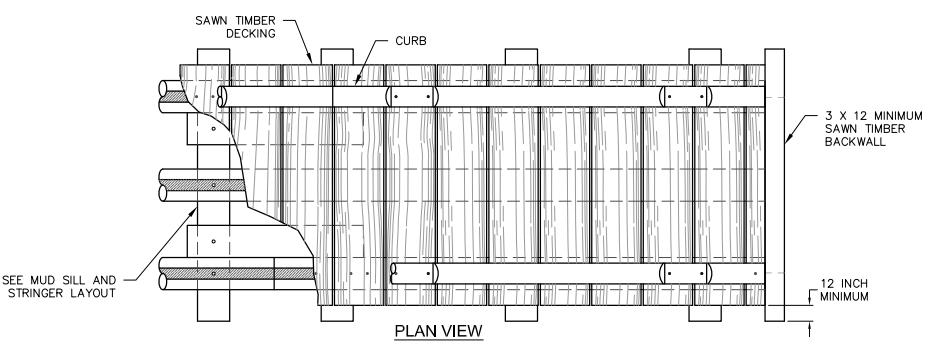
ELEVATION VIEW



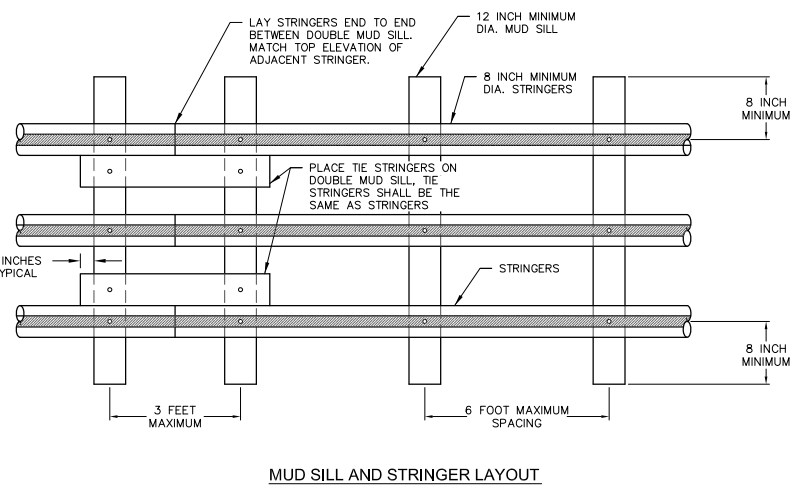
TYPICAL SECTION

NOTES

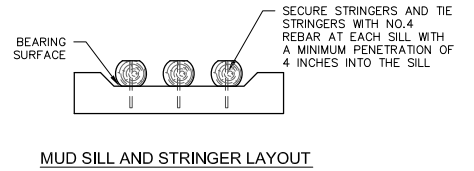
- PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
- RECESS END OF REBAR 1/2 INCH BELOW TOP OF STRINGERS.
- COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
- ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
- FINAL DECK ELEVATION FOR RUNNING PLANKS OR DECKING SHALL BE NO MORE THAN 1/2 INCH DIFFERENCE IN ELEVATION.



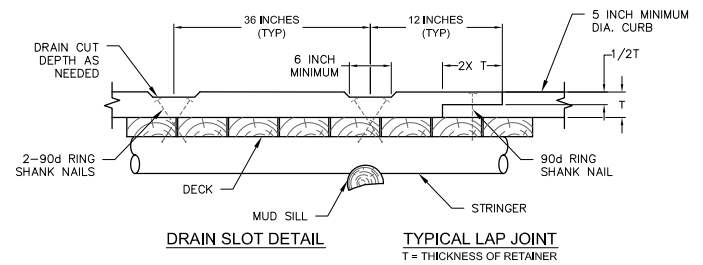
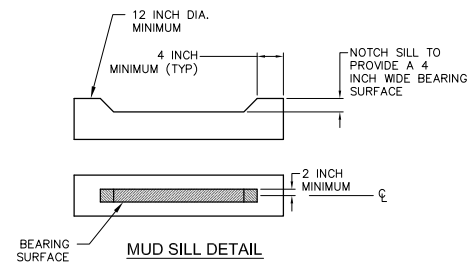
PLAN VIEW



MUD SILL AND STRINGER LAYOUT

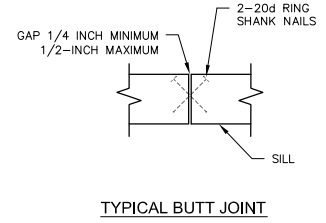


MUD SILL AND STRINGER LAYOUT



DRAIN SLOT DETAIL

TYPICAL LAP JOINT
T = THICKNESS OF RETAINER



LOG STRINGER DETAIL

7 PUNCHEON CROSSING DETAILS
Scale = NTS

AMERICORPS TRAIL IMPROVEMENT PROJECT

CITY OF SEBASTOPOL PLANNING DEPARTMENT
SONOMA COUNTY

QUESTA
ENGINEERING CORP.

Civil Environmental & Water Resources

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P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

REGISTERED PROFESSIONAL ENGINEER
No. 87049
Exp. 06-30-21
COLLEGE OF CALIFORNIA

Sht	Rev	Date	By	Description	App'd

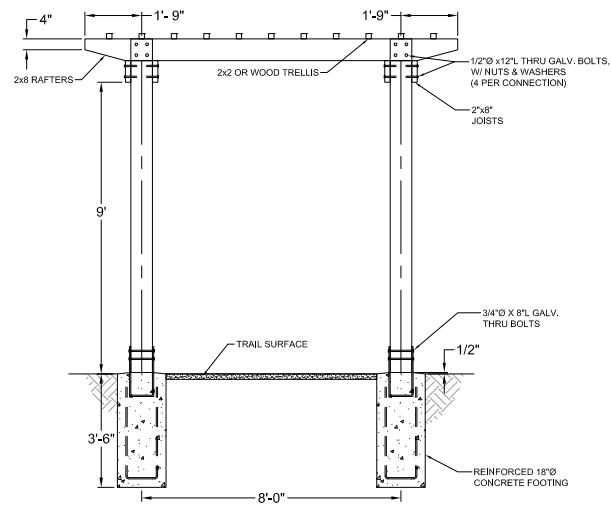
Design: JP
Drawn: AM
Checked: MH
Appr'd: MH

TRAIL DETAILS

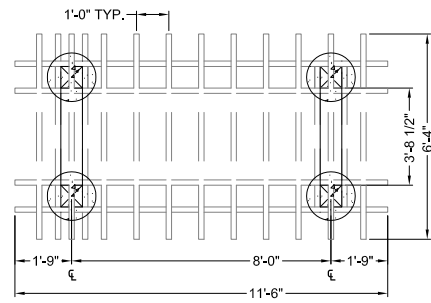
SEBASTOPOL CALIFORNIA

Size D	Project 1700038
Scale:	AS NOTED
Date:	06/21/19
SHEET:	9 OF 10

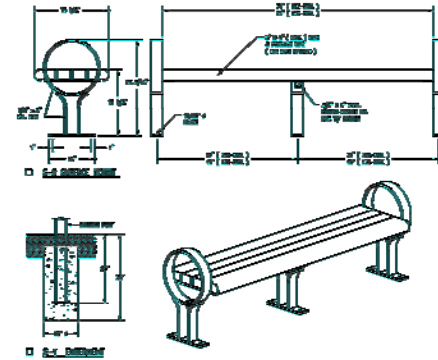
P:\2017\1700038_SEBASTOPOL_AMERICORPS_TRAIL_CAD_MODEL\1700038_DETAILS.DWG LAST SAVED: 7/11/2019 PLOT DATE: 7/11/2019 PLOT STYLE: --- IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY



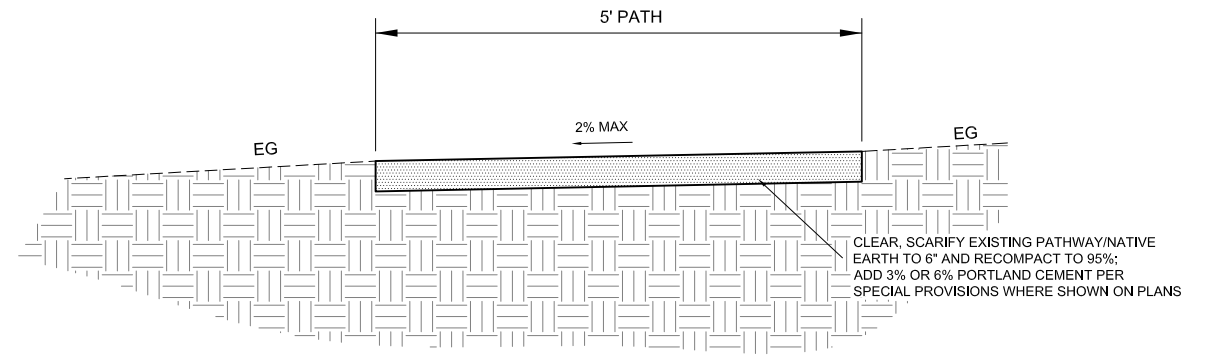
SECTION 'A-A'



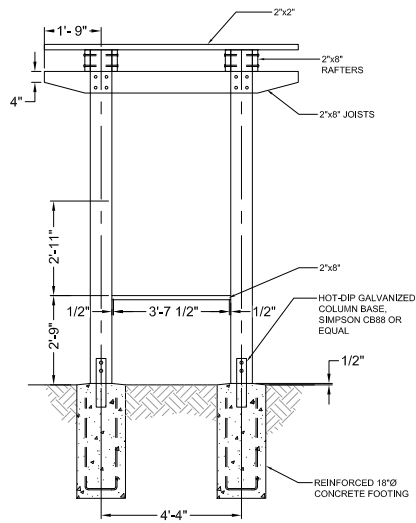
PLAN



9 BENCH DETAILS
Scale = NTS

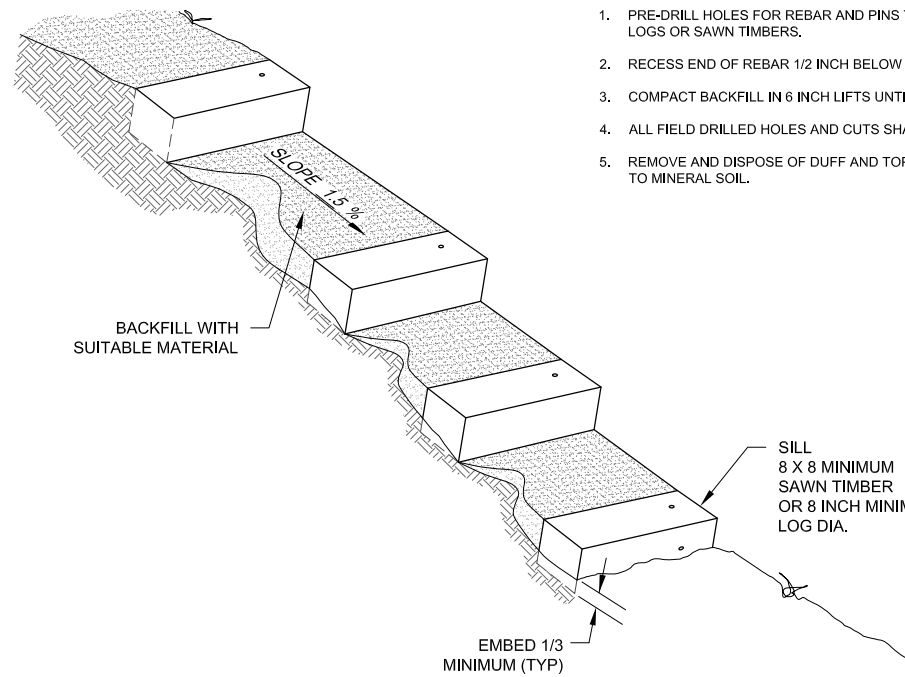


11 AT-GRADE PATHWAY DETAIL
Scale = NTS



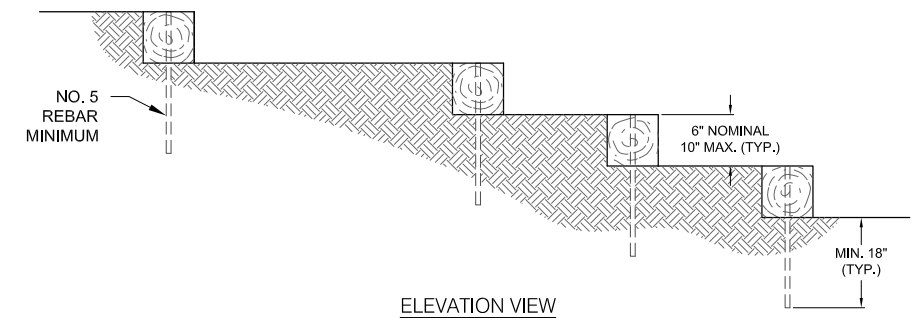
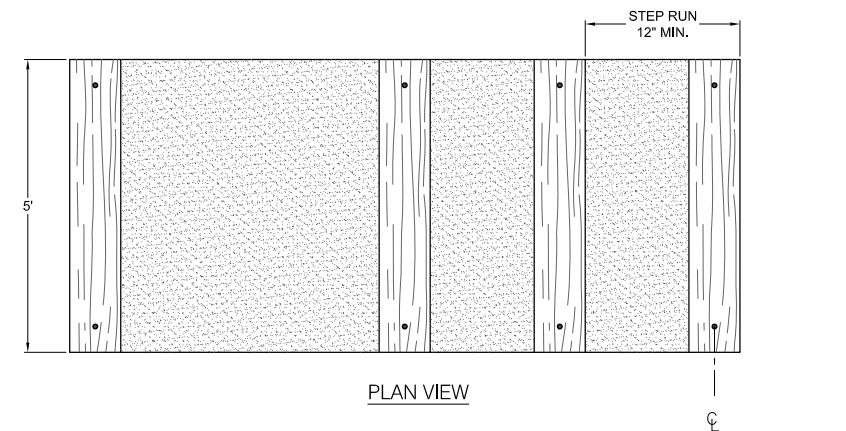
SECTION 'B-B'

8 PERGOLA DETAILS
Scale = NTS



NOTES:

1. PRE-DRILL HOLES FOR REBAR AND PINS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF TIMBER.
3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
5. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.



10 INDIVIDUAL PINNED TIMBER STEP DETAIL
Scale = NTS

AMERICORPS TRAIL IMPROVEMENT PROJECT

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STATE OF CALIFORNIA

Sht.	Rev.	Date:	By:	Description:	App'd:

Design:	JP
Drawn:	AM
Checked:	MH
Appr'd:	MH

PATHWAY DETAILS

SEBASTOPOL
CALIFORNIA

Size	Project
D	1700038
Scale:	AS NOTED
Date:	06/21/19
SHEET:	10 OF 10