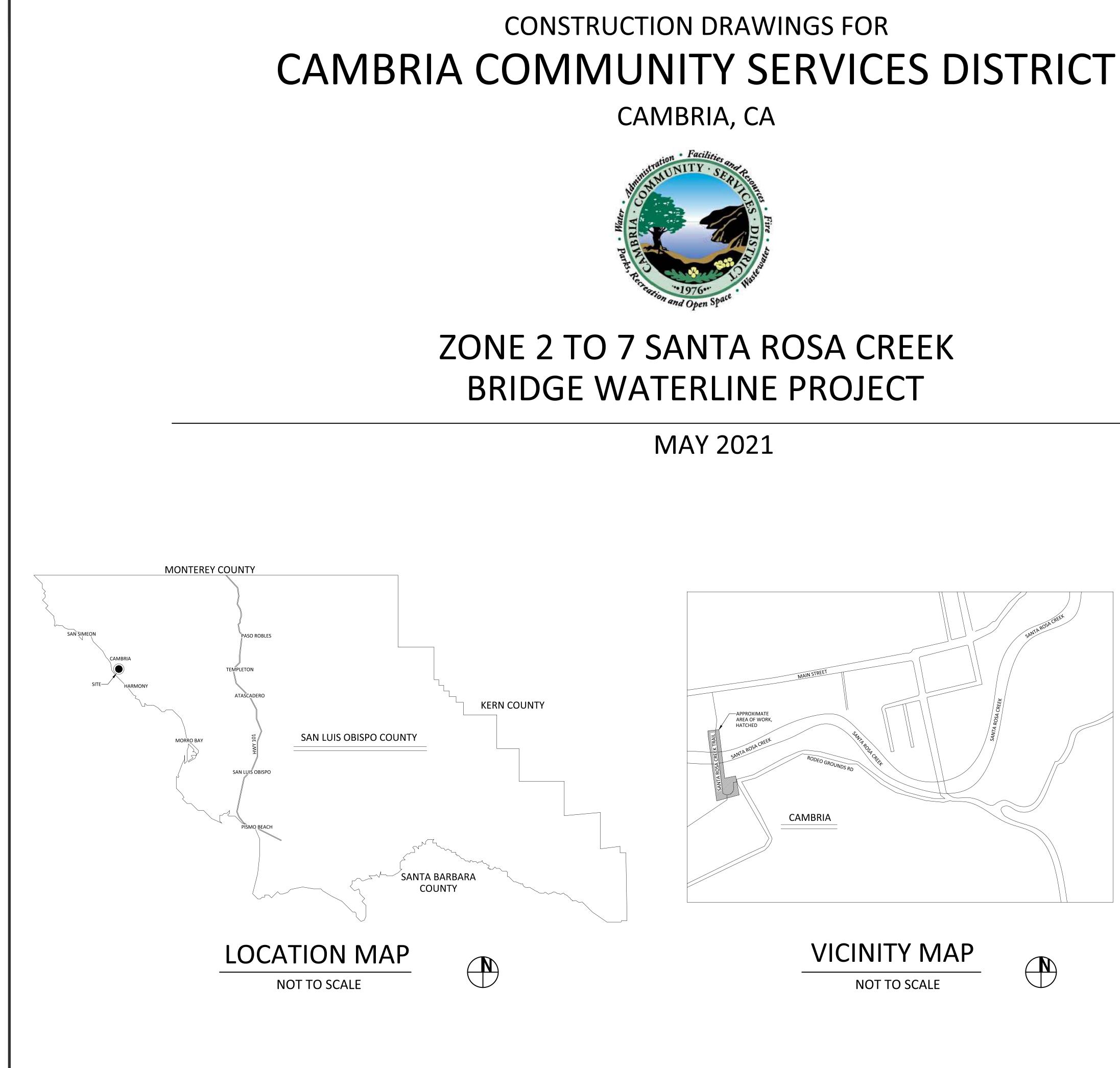
APPENDIX E

Drawings





SERVICES DISTRIC AM MK Ö 111 \mathbf{O} PR SERVICES DISTRICT BRIDGE WATERLINE SHEET CAMBRIA COMMUNITY O ZONE 7 SANTA ROSA COVER \sim Ш ZONI **11-2021-06** PROJECT NO.

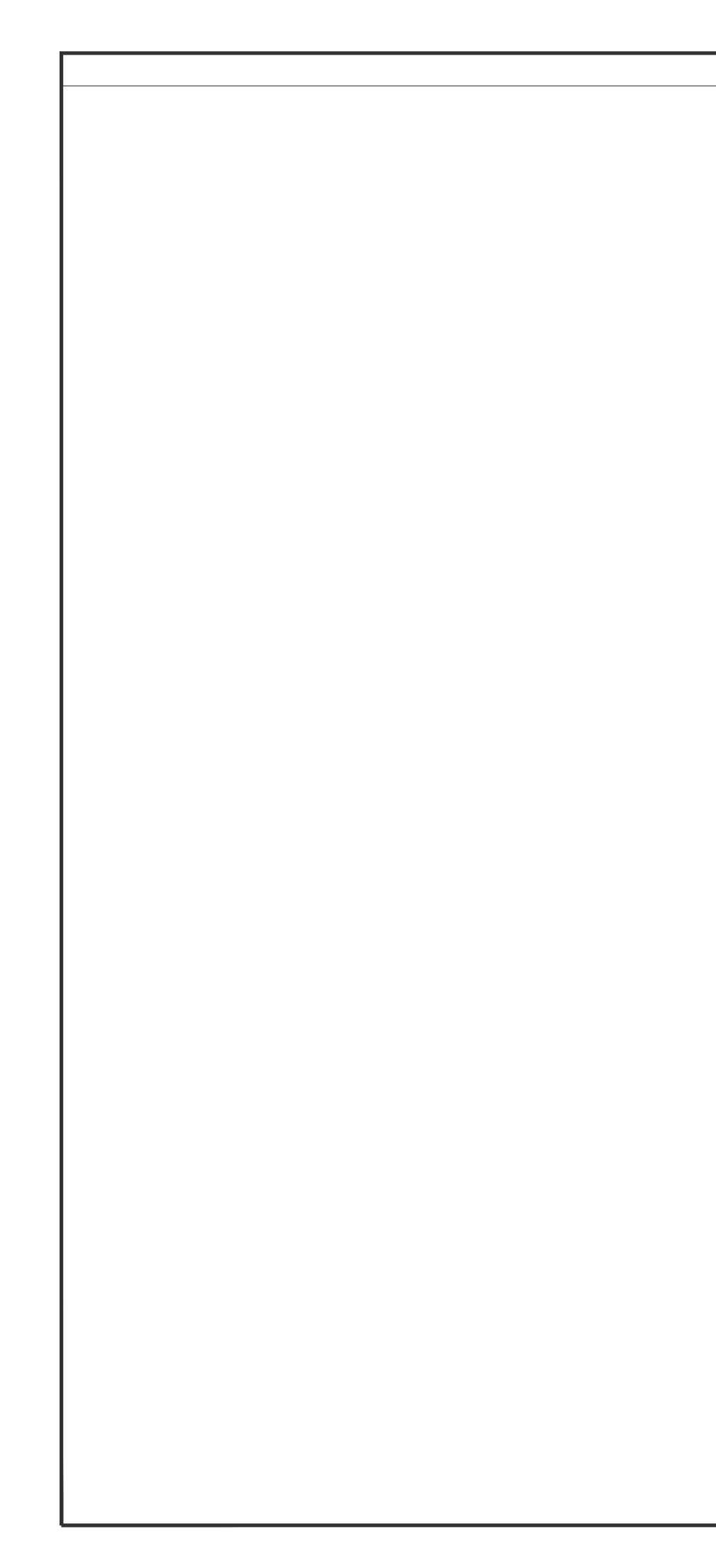
| SHEET IN | SHEET INDEX | | | |
|----------|--------------------|--|--|--|
| G-001 | COVER SHEET | | | |
| G-002 | GENRERAL NOTES | | | |
| G-003 | TREE REMOVAL PLAN | | | |
| C-101 | PLAN AND PROFILE | | | |
| C-102 | PLAN AND PROFILE | | | |
| C-501 | CIVIL DETAILS - 1 | | | |
| C-502 | CIVIL DETAILS - 2 | | | |
| S-001 | STRUCTURAL NOTES | | | |
| S-002 | SPECIAL INSPECTION | | | |
| S-201 | PLAN AND ELEVATION | | | |
| S-301 | STRUCTURAL DETAILS | | | |





05.26.2021 SHT. 1 OF 11

G-001 DWG. NO.



GENERAL NOTES

GENERAL NOTES

- 1. STATIONING AND DISTANCES SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS PROJECTED FROM THE PIPE CENTERLINE UNLESS NOTED OTHERWISE.
- 2. UTILITIES, BOTH EXISTING AND THOSE NOTED AS FUTURE WHICH MAY OR MAY NOT EXIST AT THE TIME OF CONSTRUCTION, ARE SHOWN ON THESE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL C AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"; CI/ASCE 38-02. NOT ALL LATERALS ARE SHOWN.
- 3. VIDEO DOCUMENT THE EXISTING CONDITIONS OF THE WORK AREA AND PROPERTIES ADJACENT TO THE PROJECT, AND SUBMIT THE VIDEO TO THE DISTRICT PRIOR TO THE START OF CONSTRUCTION. PROTECT ADJACENT PROPERTIES DURING WORK AND REPAIR DAMAGE TO LANDSCAPING, PAVING, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.
- 4. VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- 5. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE DISTRICT'S REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.
- 6. UPON LEARNING OF THE EXISTENCE AND LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THESE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE DISTRICT AND THE DISTRICT'S REPRESENTATIVE BY TELEPHONE AND IN WRITING.
- 7. COORDINATE UNDERGROUND UTILITY MARKING WITH THE LOCAL UNDERGROUND SERVICE ALERT JURISDICTION (CALL 811) PRIOR TO CONSTRUCTION.
- 8. TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITIES AND STRUCTURES SHOWN AS WELL AS ANY AND ALL OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL DESIGN CONDITION AND/OR THE APPLICABLE REQUIREMENTS OF THE AFFECTED UTILITY AT THE CONTRACTOR'S EXPENSE. APPROVAL BY CMWD SHALL ALSO BE REQUIRED.
- 9. USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, OR OTHER UTILITIES SO AS TO PROTECT ALL PERSONNEL AND EQUIPMENT. PROTECT FROM DAMAGE INCURRED DURING CONSTRUCTION ALL OVERHEAD UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. NOTIFY UTILITY COMPANIES PRIOR TO ANY WORK IN OVERHEAD LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COST INCURRED.
- 10. PRESERVE ALL SURVEY MARKERS AND MONUMENTATION. THOSE REQUIRING REMOVAL SHALL BE RE-ESTABLISHED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY.
- 11. LIMIT CONSTRUCTION ACTIVITIES TO THE RIGHT-OF-WAY, EASEMENTS, AND DESIGNATED

AREAS SHOWN ON THE DRAWINGS.

- 12. AT THE CLOSE OF EACH WORKING SHIFT, WHERE A NEXT SHIFT WILL NOT IMMEDIATELY FOLLOW, INSTALL PIPE END CAPS AND CONSTRUCT TRENCH RAMPS AT THE END OF THE EXCAVATION. PREVENT UNAUTHORIZED ENTRY INTO THE OPEN PIPE AND TRENCH. PROVIDE SECURITY FENCING AT ALL TIMES AROUND WORK AREA.
- 13. ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- 14. GROUND WATER PUMPED FROM EXCAVATION MAY BE DISCHARGED IN ACCORDANCE WITH APPLICABLE PERMITS AND REGULATIONS. GROUND WATER SHALL NOT BE DISCHARGED TO THE STREET OR SURROUNDING AREA WITHOUT A PERMIT. NO DISCHARGE TO SANITARY SEWERS WILL BE ALLOWED UNLESS PRIOR PERMISSION IS GRANTED BY THE DISTRICT.
- 15. MAINTAIN THE WORK AREA IN A NEAT, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE DISTRICT, DISTRICT'S REPRESENTATIVE AND AGENCY WITH LOCAL JURISDICTION. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES.
- 16. MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR RECORD DRAWINGS. THE CONTRACTOR SHALL NOTE DEVIATIONS FROM THE PLANS ON A SET OF PLANS SPECIFICALLY SET ASIDE FOR THIS PURPOSE. ANY CHANGES SHALL BE MADE ON THE ORIGINALS OF THE PLANS. NO CHANGES FROM THAT SHOWN ON THESE PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 17. ALL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CMWD STANDARD SPECIFICATIONS, UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
- 18. ALL PIPE, FITTINGS, MATERIALS, AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS REFERENCED IN THE PLANS AND SPECIFICATIONS UNLESS NOTED OTHERWISE.
- 19. IF CHANGES TO THESE CONSTRUCTION PLANS ARE REQUIRED DUE TO FIELD CONDITIONS, WHICH ARE NOT SHOWN ON THE PLANS, SUCH PROPOSED CHANGES SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW BY THE OWNER PRIOR TO CONSTRUCTION.
- 20. CITY STREETS ARE TO REMAIN OPEN TO THROUGH TRAFFIC AT ALL TIMES.
- 21. PROVIDE FOR SAFE TRAFFIC CONTROL IN AND AROUND THE SITE. THIS MAY INCLUDE BUT SHALL NOT BE LIMITED TO SIGNS, FLASHING LIGHTS, BARRICADES AND FLAG PERSONS AS DIRECTED BY THE DISTRICT'S REPRESENTATIVE. TRAFFIC CONTROL MEASURES SHALL COMPLY WITH CALTRANS STANDARDS, CALIFORNIA TRAFFIC MANUAL (MOST RECENT EDITION), REQUIREMENTS OF CITY AND COUNTY ENCROACHMENT PERMITS.

SERVICES DISTRI CAMBRIA COMMUNITY SERVICES DISTRICT TO ZONE 7 SANTA ROSA BRIDGE WATERLINE PROJEC S NOTE RAL GENEI \sim ZONE 11-2021-06 PROJECT NC G-002 DWG. NO

PIPELINE NOTES

- 1. COORDINATE ALL TIE-INS OF NEW WATER MAINS TO EXISTING WATER MAINS WITH THE DISTRICT TO MINIMIZE SERVICE INTERRUPTIONS. PROVIDE AT LEAST 5 WORKING DAYS NOTICE PRIOR TO CONSTRUCTION. CONNECTIONS TO EXISTING SYSTEM SHALL OCCUR BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM AND BE COORDINATED WITH THE DISTRICT. ALL SHUTDOWNS REQUIRE 3-WEEKS NOTICE.
- 2. THE WATER SYSTEM, INCLUDING LATERALS, SHALL BE HYDROSTATICALLY TESTED PRIOR TO PLACING STREET PAVEMENT OR CONCRETE.
- 3. PRIOR TO FILLING OF THE PIPELINE, ALL COMBINATION AIR RELEASE VALVES SHALL BE IN THE OPEN POSITION.
- 4. WATER LINES SHALL HAVE A MINIMUM COVER OF 36 INCHES, UNLESS OTHERWISE NOTED. 5. ADJUST VALVE BOXES, FIRE HYDRANT BREAK-OFF FLANGES, METER BOXES, ETC. TO FINISH
- GRADES AFTER CURBS AND GUTTERS, SIDEWALKS, AND STREETS HAVE BEEN CONSTRUCTED AT NO COST TO DISTRICT.
- 6. FIRE HYDRANTS, METER BOXES AND BLOWOFFS SHALL BE LOCATED NO CLOSER THAN 5-FEET FROM BEGINNING OF CURB RETURN, DRIVEWAY OR ANY OTHER UTILITY.
- 7. WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE ENCROACHMENT PERMITS.
- 8. ALL MATERIALS IN CONTACT WITH POTABLE WATER OR WITH CHEMICALS IN CONTACT WITH POTABLE WATER ARE TO BE NSF-61 CERTIFIED.
- 9. SHEETING AND SHORING OF TRENCHES IS REQUIRED FOR WORKER PROTECTION IN CONFORMANCE WITH THE GENERAL CONDITIONS. SHEET AND SHORE TRENCHES TO PROTECT AGAINST: a. DAMAGE TO UTILITIES, FACILITIES, AND PROPERTY
- b. ADDITIONAL EXCAVATION AND BACKFILL c. ADDITIONAL PAVEMENT
- d. OTHER COSTS AND LIABILITIES ARISING FROM SOIL INSTABILITY
- 10. ONLY DISTRICT PERSONNEL SHALL OPERATE DISTRICT FACILITIES SUCH AS PUMPS AND VALVES.
- 11. INSTALL OWNER FURNISHED MARKER BALLS ALONG PIPELINE ALIGNMENT WITH ONE MARKER PER JOINT AND AT EACH CHANGE IN DIRECTION .

EROSION CONTROL NOTES

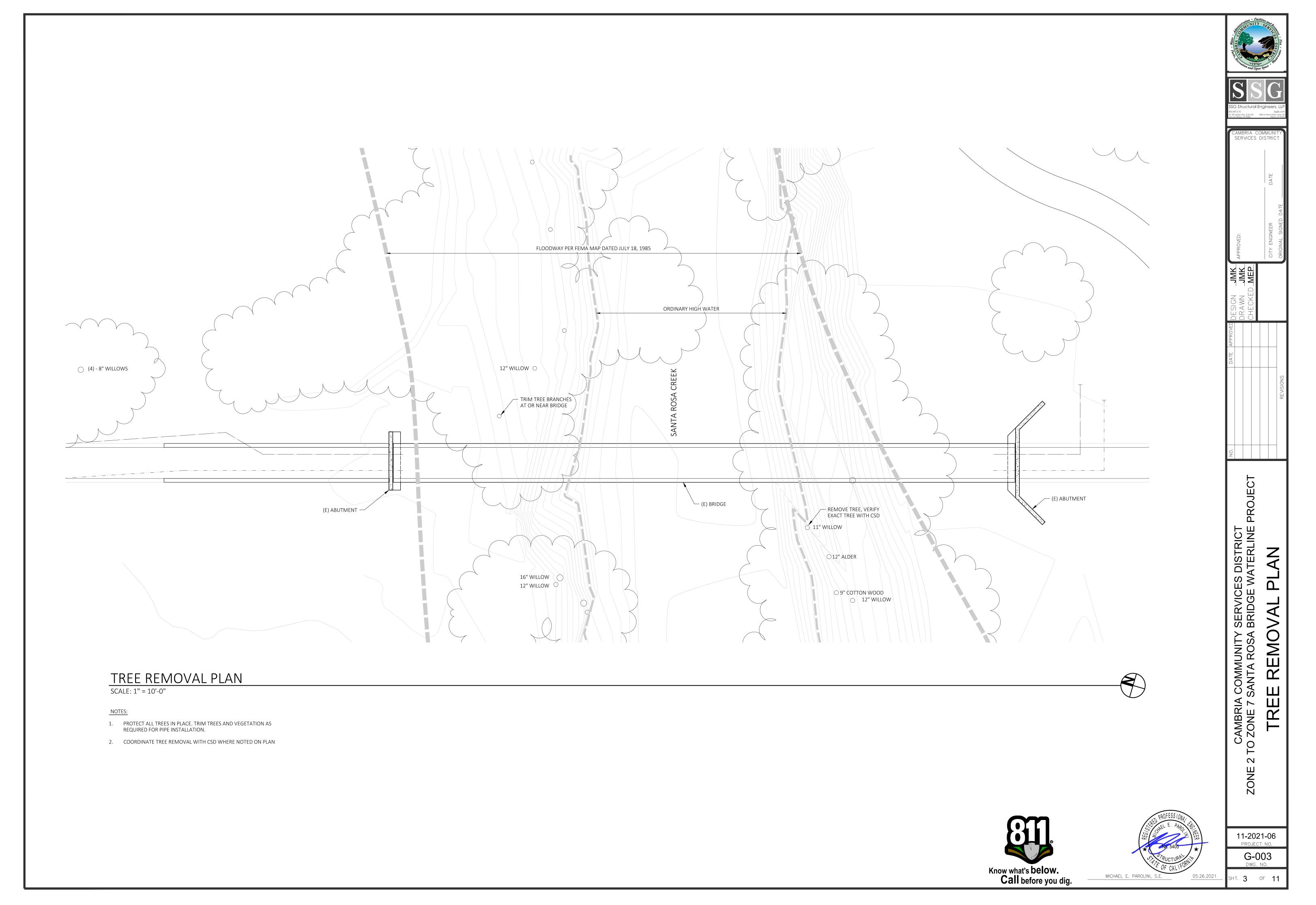
- 1. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD AND DISTRICT STANDARD SPECIFICATIONS.
- 2. DRIVEWAYS AND CONSTRUCTION ENTRANCES SHALL BE PROTECTED AGAINST EROSION AND TRACKING OF MUD AND DEBRIS AT ALL TIMES, INCLUDING EVENINGS, WEEKENDS AND HOLIDAYS. SUCH PROTECTION MAY BE MODIFIED TO PROVIDE ACCESS TO THE WORK SITE DURING WORK HOURS.
- 3. ALL STOCKPILES SHALL BE PROTECTED AGAINST WIND AND WATER EROSION, IMMEDIATELY UPON PLACEMENT AND REMOVAL FROM STREET AT THE END OF EACH DAY. SUCH PROTECTION SHALL REMAIN IN PLACE UNTIL USE OR REMOVAL OF THE STOCKPILE, REGARDLESS OF THE TIME OF YEAR.
- 4. ALL FRESH CUT AND FILL SLOPES SHALL BE IMMEDIATELY PROTECTED BY INSTALLATION OF EROSION CONTROL DEVICES, AND UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
- 5. PERMANENT EROSION CONTROL MEASURES SHALL BE FULLY ESTABLISHED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. (TO BE COMPLETED NO LESS THAN 30 DAYS PRIOR TO REQUEST FOR FINAL APPROVAL.)
- 6. WASTE MATERIALS SHALL NOT BE WASHED OFFSITE. THIS INCLUDES BUT IS NOT LIMITED TO SOIL, PAINT, GROUT, COLOR COAT, CONCRETE DUST, SAW RESIDUES, GRINDINGS, AND OIL.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF EROSION CONTROL DEVICES AS DIRECTED BY THE DISTRICT'S REPRESENTATIVE.

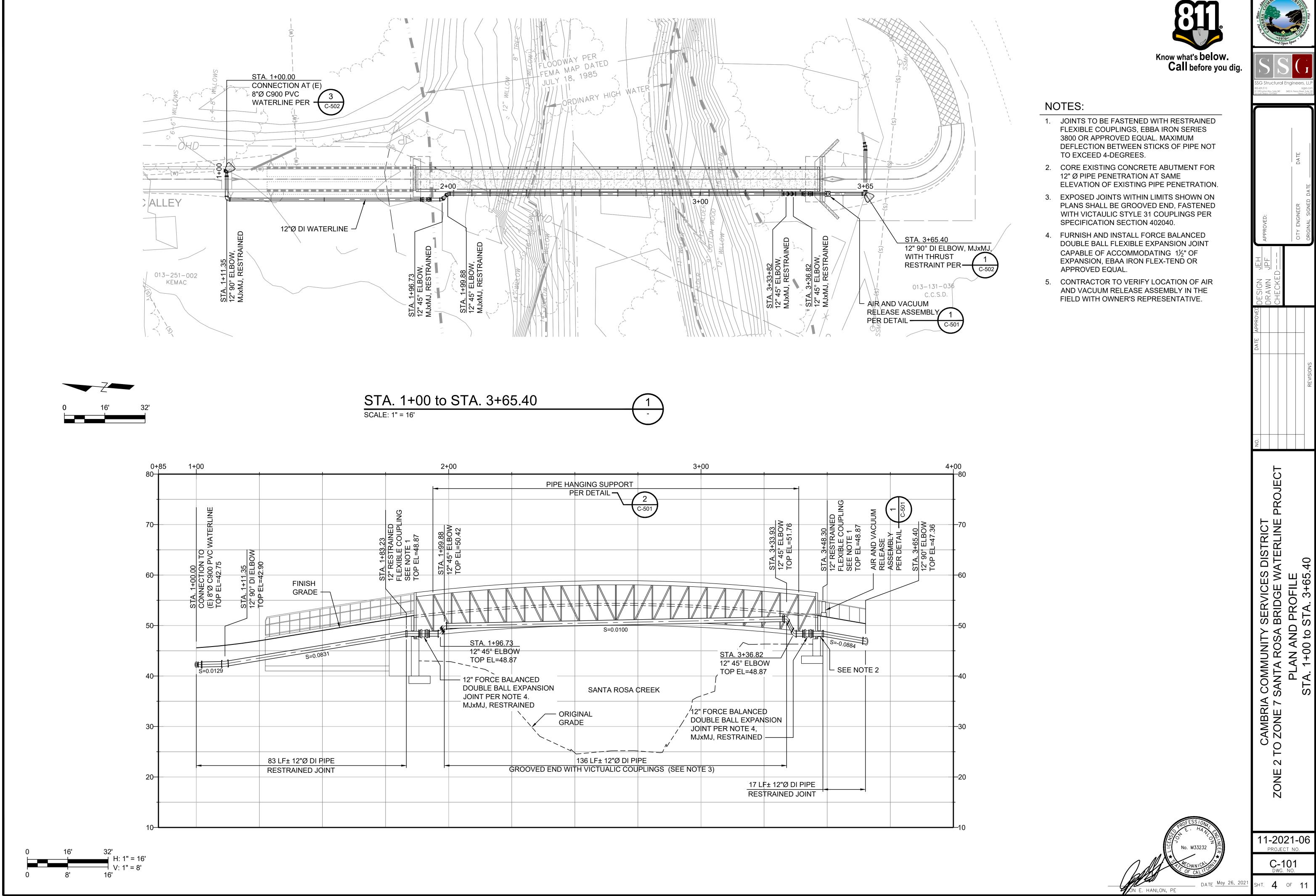
| AGI | ENCY/UTILITY | |
|--|--------------|-------------------------|
| AGENCY | CONTACT | PHONE NUMBER |
| CAMBRIA COMMUNITY SERVICES DIRECT - PROJECT MANAGER | RAY DIENZO | (805) 927-6119 EXT. 109 |
| UNDERGROUND SERVICE ALERT | | 811 |

Know what's **below. Call** before you dig.

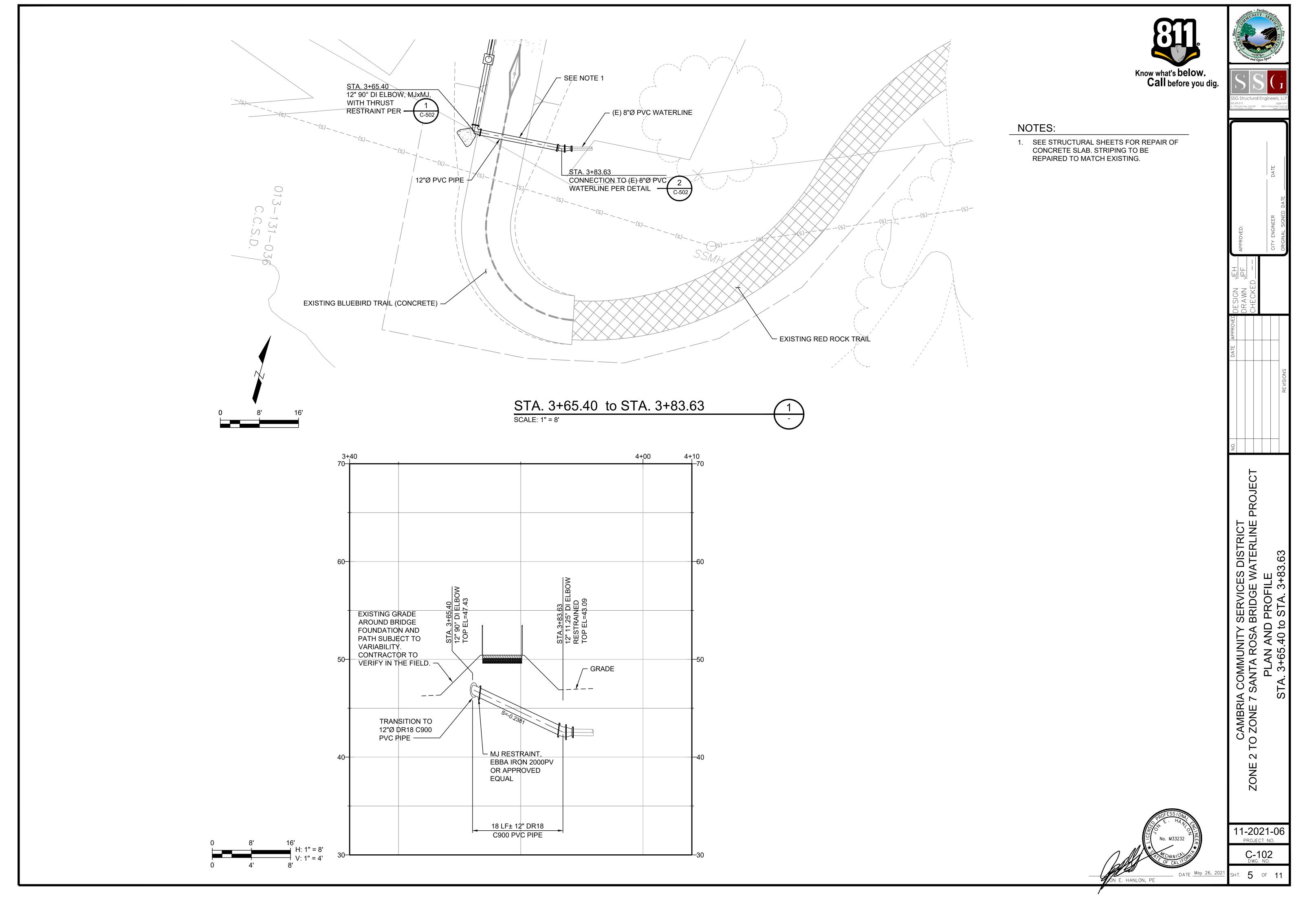


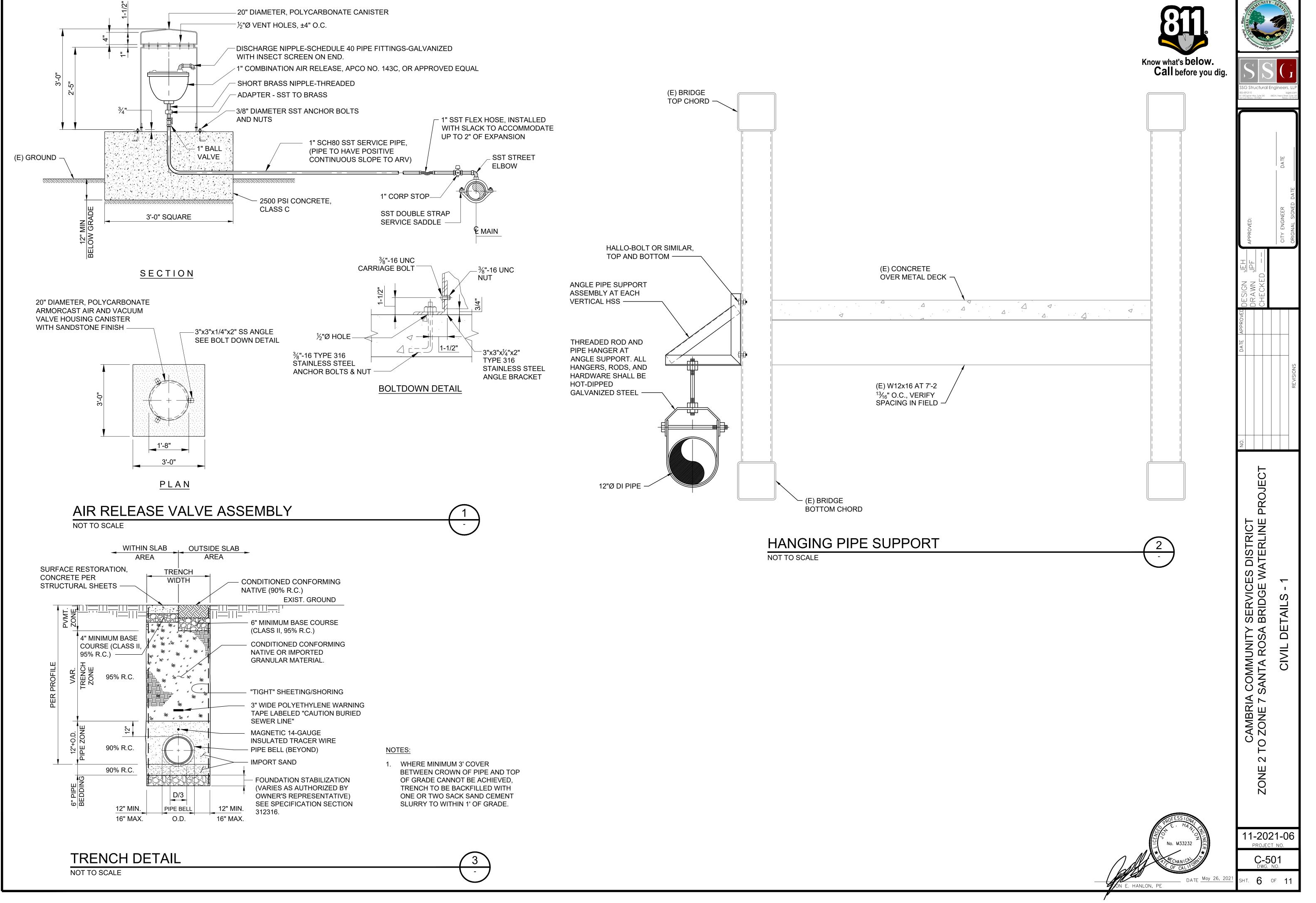
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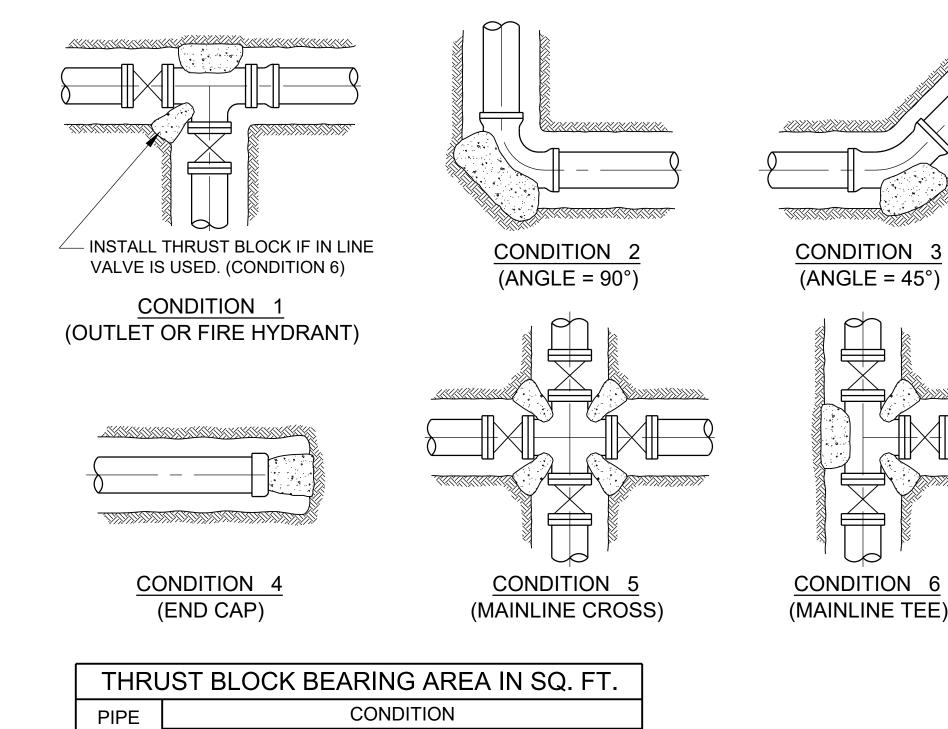










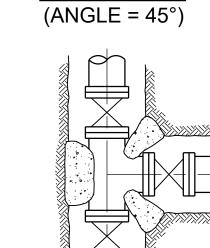


| PIPE | | | CO | NDITION | ١ | |
|------|------|------|------|---------|-----------|-----------|
| SIZE | 1 | 2 | 3 | 4 | 5 | 6 |
| 6" | 6.0 | 9.0 | 5.0 | 6.0 | 5 EACH | 5 EACH |
| 8" | 11.0 | 15.5 | 8.4 | 11.0 | 9 EACH | 9 EACH |
| 10" | 18.0 | 25.3 | 13.7 | 18.0 | 15.5 EACH | 15.5 EACH |
| 12" | 25.5 | 36.0 | 19.5 | 25.5 | 23 EACH | 23 EACH |
| 14" | 34.6 | 49.0 | 26.5 | 34.6 | 30 EACH | 30 EACH |

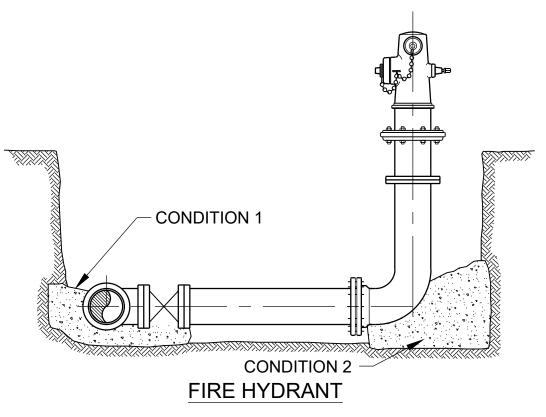
NOTES:

- 1. SIZE THRUST BLOCK ACCORDING TO THE LARGEST OUTLET DIAMETER ON TEE OR CROSS.
- 2. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED MATERIAL.
- 3. THRUST BLOCK CONCRETE SHALL BE CLASS "C" PER SPECIFICATION SECTION 312316.



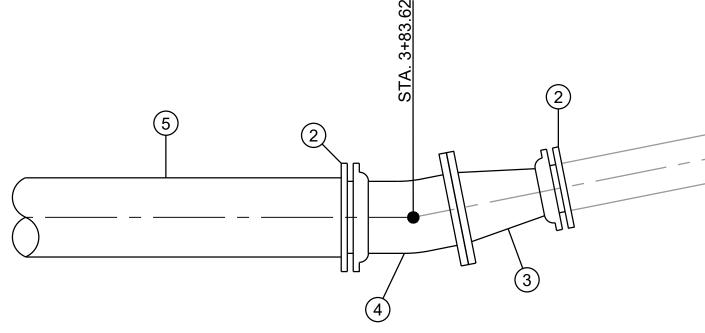


CONDITION 6 (MAINLINE TEE)

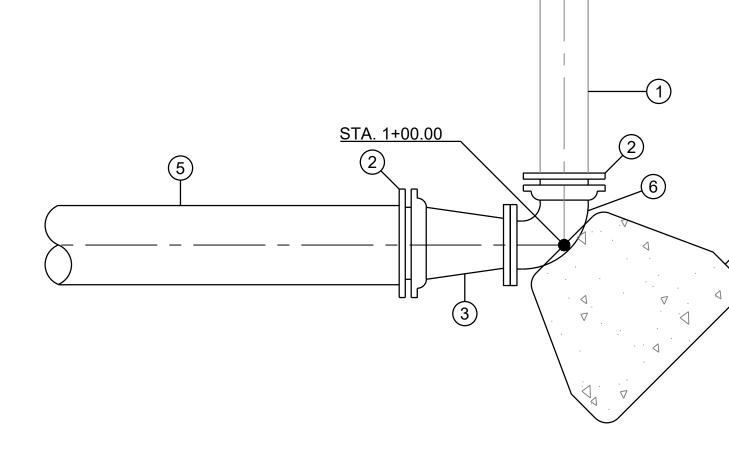


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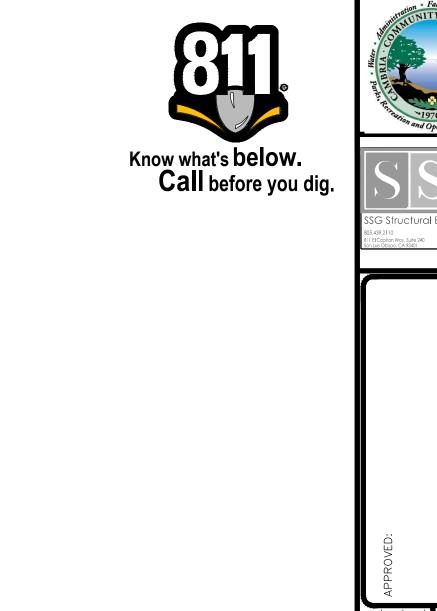


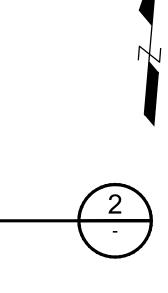
CONNECTION DETAIL - STA. 3+83.63 SCALE: 3/4" = 1'-0"





SCALE: 3/4" = 1'-0"





(1)

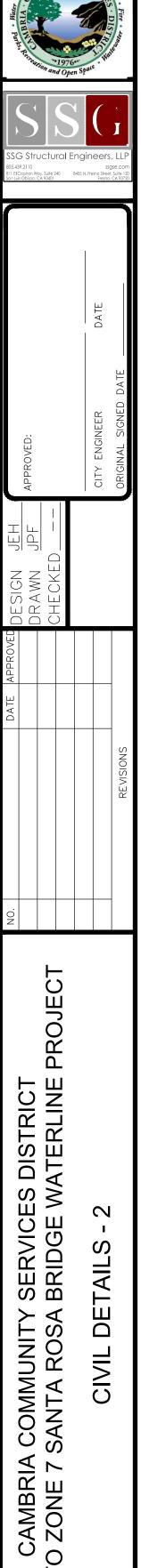




- (1)(E) 8"Ø DR18 C900 PVC PIPE
- MJ RESTRAINT, EBAA IRON 2
- 2000PV OR APPROVED EQUAL 3 8"x12" DI REDUCER, FLGxMJ,
- RESTRAINED
- 12" 11.25° DI ELBOW, FLGxMJ, 4
- RESTRAINED
- (5) 12"Ø DR18 C900 PVC PIPE
- 6 8" 90° DI ELBOW, FLG xMJ, RESTRAINED
- CONCRETE THRUST BLOCK PER _ THRUST BLOCK SHALL BE SIZED 7 FOR 12" PIPE







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CIVIL DETAILS

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11-2021-06 PROJECT NO.

C-502 DWG. NO.

SHT. **7** OF **11**

STRUCTURAL NOTES

GENERAL NOTES

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL PHASES OF 1. SAFETY NOTE: THIS PROJECT UNLESS OTHERWISE SHOWN OR NOTED.

- 2. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND SUCH OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK. THE CONTRACTOR SHALL HAVE A CURRENT COPY OF THE CBC ON THE JOB SITE.
- 4. THE "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL CONSIST OF THESE NOTES, DETAILS, SCHEDULES, PLANS, AND DRAWINGS, AS WELL AS ATTACHED SPECIFICATIONS.
- 5. ALL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO MATERIALS AND PRODUCTS, SHALL BE THOSE PUT FORTH IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS". NO SUBSTITUTIONS SHALL BE PERMITTED TO BE USED OR ASSUMED TO BE USED IN THE BIDDING OR CONSTRUCTION PROCESS WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
- 6. THE CONTRACTOR SHALL EXAMINE THE "CONTRACT OR CONSTRUCTION DOCUMENTS" AND FOUNDATION NOTES SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- 7. ALL INFORMATION ON EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND INFORMATION SHOWN ON OR IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS" BEFORE PROCEEDING WITH WORK.
- 8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS OF THE STRUCTURE.
- 9. ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES COMPRISING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- 10. THESE "CONTRACT OR CONSTRUCTION DOCUMENTS" REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- 11. INSPECTION AND APPROVAL FOR FABRICATOR'S SHOPS USED FOR FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS, COMPONENTS, MATERIALS OR ASSEMBLIES SHALL CONFORM TO CBC SECTION 1704.2.5.
- A. LABELING (AS REQUIRED OR SPECIFIED) SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1703.5. B. EVALUATION AND FOLLOW-UP INSPECTION SERVICES (AS REQUIRED OR SPECIFIED), SHALL
- CONFORM TO CBC SECTION 1703.6. 12. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY
- THESE DRAWINGS AND GENERAL NOTES.
- 13. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- 14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE PROPER ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL STRUCTURAL AND FINISH MATERIALS. THIS SHALL INCLUDE ANY NECESSARY PRELOADING OF THE STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK.
- RECORD (SUPPORT SERVICES) SHALL NOT INCLUDE INSPECTIONS OF SAFETY OR PROTECTIVE MEASURES, NOR CONSTRUCTION PROCEDURES, TECHNIQUES OR METHODS. ANY SUPPORT SERVICES PERFORMED BY ENGINEER OF RECORD DURING ANY PHASE OF CONSTRUCTION REQUIRED BY ANY REGULATING GOVERNMENTAL AGENCY, E.G. THE AUTHORITY HAVING JURISDICTION) PROVIDED BY OTHERS. THESE SUPPORT SERVICES, WHETHER OF MATERIAL OR WORK, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT SHALL BE PROPERLY "SWAY BRACED" AGAINST LATERAL FORCES.
- 17. THESE NOTES, DETAILS, DRAWINGS AND SPECIFICATIONS (CONTRACT OR CONSTRUCTION DOCUMENTS) DO NOT CARRY NECESSARY PROVISIONS FOR CONSTRUCTION SAFETY. THESE 8. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. DOCUMENTS AND ALL PHASES OF CONSTRUCTION HEREBY CONTEMPLATED ARE TO BE OCCUPATIONAL SAFETY AND HEALTH ACT.
- 18. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL 10. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185. LAP ALL WIRE MESH TWO 4. ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED AND WELDED IN ACCORDANCE WITH LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- 19. REFER TO THE ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWINGS. 11. REINFORCING STEEL SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR ANY DISCREPANCY BETWEEN THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER OF RECORD FOR CLARIFICATION BEFORE START OF CONSTRUCTION.
- 20. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 21. DRAWINGS (NOTES, SCHEDULES, DETAILS AND PLANS) SHALL HAVE PRECEDENCE OVER CONCRET STRUCTURAL CALCULATIONS.
- 22. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
- 23. THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SOILS INVESTIGATION ON THE JOB SITE.
- 24. ASTM DESIGNATION AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 25. THESE STRUCTURAL "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL NOT BE MODIFIED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 26. ONLY STRUCTURAL WORKING DRAWINGS APPROVED BY THE AUTHORITY HAVING JURISDICTION ARE PERMITTED TO BE USED FOR CONSTRUCTION ON THIS PROJECT. ALL OTHER DRAWINGS OR DOCUMENTS ARE OBSOLETE AND ARE NOT PERMITTED ON THE JOB SITE, NOR SHALL THEY BE USED FOR ANY CONSTRUCTION PURPOSES. CONTRACTORS USING UNAPPROVED DRAWINGS OR DOCUMENTS ARE SOLELY RESPONSIBLE FOR ALL WORK NOT PERFORMED IN ACCORDANCE WITH THE "APPROVED" DRAWINGS.

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

- 1. SHOP DRAWINGS OR CONTRACTOR SUBMITTALS SHOULD BE PROVIDED FOR THE FABRICATION (OR MIXING) OF THE FOLLOWING (BUT NOT LIMITED TO) COMPONENTS OR ELEMENTS. A. STRUCTURAL STEEL
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTION AND APPROVAL OF ALL SHOP DRAWINGS.
- 3. WHEN THE CONTRACTOR SUBMITS SHOP DRAWINGS OR OTHER SUBMITTALS TO ARCHITECT/ENGINEER OF RECORD FOR REVIEW, SUBMITTAL PACKAGE SHALL CONTAIN SUFFICIENT COPIES THAT ARCHITECT/ENGINEER OF RECORD MAY RETAIN A COMPLETE COPY OF SUBMITTAL PACKAGE. IN ADDITION, THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO THOROUGHLY REVIEW SUBMITTAL PACKAGE (10 WORKING DAYS, MINIMUM).
- 4. REVIEW OF SHOP DRAWINGS OR CONTRACTOR SUBMITTAL BY ARCHITECT/ENGINEER OF RECORD DOES NOT IN ANY WAY CONSTITUTE APPROVAL OF SUBMITTAL PACKAGE. ARCHITECT/ENGINEER OF RECORD'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS. REVIEW SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DEMOLITION NOTES

- A. IT IS SOLELY THE CONTRACTOR'S RESPONSIBIL SECTIONS, AS THEY APPLY TO THIS PROJECT, OF ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITI B. THE ARCHITECT, ENGINEER OF RECORD, AND RESPONSIBILITY FOR THE CONTRACTOR'S FA REQUIREMENTS
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AD OF ALL FORMS. FORMS SHALL ALSO BE ADEQUATEL SHORE BEAMS WHERE NECESSARY TO MAINTAIN THE ST
- STRUCTURE. 3. NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANC
- STRUCTURE THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND

- 1. BASIS: SEE STRUCTURAL DESIGN VALUES CHART
- UNEXPECTED SOIL CONDITIONS: ALLOWABLE VALUES UPON SOIL CONDITIONS SHOWN BY TEST BORINGS. AC APPRECIABLY FROM THAT SHOWN IN THE TEST BORING SOILS ENGINEER IMMEDIATELY.
- 3. SEE PROJECT SOILS INVESTIGATION FOR COMPACT PREPARATION REQUIREMENTS AND PROCEDURES.
- EXCAVATE TO REQUIRED DEPTHS AND DIMENSIONS (AS SOILS INVESTIGATION), CUT SQUARE AND SMOOTH WIT BE TAKEN NOT TO OVER-EXCAVATE FOUNDATION DISTURBING OF SOILS AROUND HIGHER ELEVATION.
- 5. FOOTINGS SHALL BE POURED IN NEAT EXCAVATIONS POSSIBLE
- CARRY ALL FOUNDATIONS TO REQUIRED DEPTHS INTO (PER STRUCTURAL PLANS AND DETAILS, AND PROJECT SO
- FOUNDATIONS SHALL NOT BE POURED UNTIL ALL REC INSERTS, CONDUITS, PIPES, ETC. AND FORMWORK IS PRO AUTHORITY HAVING JURISDICTION
- ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY PROJECT SOILS ENGINEER, PRIOR TO FORMING AND PLACEMENT OF REINFORCING OR CONCRETE.
- THE SIDES AND BOTTOMS OF EXCAVATIONS WHICH ARE TO HAVE CONCRETE CONTACT MUST BE MOISTENED SEVERAL TIMES JUST PRIOR TO POURING UPON THEM.

10. DE-WATER FOOTINGS, AS REQUIRED, TO MAINTAIN DRY WORKING CONDITIONS.

REINFORCING STEE

- ALL REINFORCING STEEL SHALL BE DEFORMED INTERMEDIATE GRADE BARS CONFORMING TO ASTM A615, GRADE 60 ($F_{\rm Y}$ = 60 KSI) UNLESS NOTED OTHERWISE. A. GRADE 40 (F_{y} = 40 KSI) MAY BE USED FOR #3 BARS AND SMALLER. 2. REINFORCING STEEL SHALL NOT BE WELDED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 15. OBSERVATION VISITS TO THE PROJECT SITE BY FIELD REPRESENTATIVES OF THE ENGINEER OF 3. WELDING OF REINFORCING STEEL (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL 28. CONDUITS AND SLEEVES PLACED WITHIN STRUCTURAL CONCRETE SHALL NOT BE TIED DIRECTLY CONFORM TO ACI 318-14, SECTION 26.6.4 AND AWS D1.4. WELDED REBAR SHALL BE LOW-ALLOY STEEL CONFORMING TO ASTM A706.
- SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES (AS 4. TO HOLD REINFORCING BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED. PLACING OF REINFORCEMENT STRUCTURAL STEEL AND WELDING SHALL CONFORM TO ACI 318-14 SECTION 26.6.2.
- ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE 5. SHOP DRAWINGS FOR FABRICATION OF ANY REINFORCING STEEL SHALL BE APPROVED BY CONTRACTOR AND SUBMITTED TO ARCHITECT OR ENGINEER OF RECORD, FOR THEIR REVIEW, PRIOR TO FABRICATION.
- 16. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS AND NOTES FOR 6. REFER TO TYPICAL DETAILS FOR MINIMUM SPLICE LENGTH AND MINIMUM RADIUS OF BEND OF REINFORCING STEEL. 7. ALL REINFORCING STEEL SPLICES SHALL BE STAGGERED 24", UNLESS SPECIFICALLY NOTED OR
 - DETAILED OTHERWISE.
- GOVERNED, AT ALL TIMES, BY APPLICABLE PROVISIONS OF THE CURRENT CALIFORNIA 9. FABRICATION, ERECTION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO 3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL STEEL AND WELDING, IN CONCRETE REINFORCING STEEL INSTITUTE OF STANDARD PRACTICE.
 - MODULES.
 - BOND. 12. EPOXY-COATED REINFORCEMENT (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL CONFORM TO ASTM A775.

- 1. ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F_{c}) AS OUTLINED BELOW AT 28 DAYS. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE).
- A. CONCRETE FOR FOOTINGS AND SLAB ON GRADE: 3,000 PSI W/C = 0.45 MAX.MAXIMUM FLY ASH CONTENT SHALL BE 15%, BY WEIGHT, OF TOTAL CEMENTITIOUS MATERIALS 9.
- AND SHALL CONFORM TO ASTM C618.
- 3. ALL CONCRETE WORK SHALL COMPLY WITH CBC CHAPTER 19 AND ACI 318-14 AND LATEST EDITION OF ACI MANUAL OF CONCRETE PRACTICE.
- 4. SPECIAL INSPECTION (AS REQUIRED OR SPECIFIED) SHALL CONFORM TO CBC CHAPTER 17.
- 5. CEMENT SHALL BE PORTLAND CEMENT TYPE II/V AND SHALL CONFORM TO ASTM C150.
- 12. ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED BY 'NELSON' OR 6. AGGREGATES SHALL CONFORM TO ASTM C33, PROVIDE AGGREGATES FROM A SINGLE SOURCE. APPROVED EQUAL.
- WATER SHALL CONFORM TO ASTM C94 AND BE POTABLE. 8. ALL SPLICES ARE TO BE CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE.
- SHALL BE: A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR WEATHER: CONCRETE PLACED AGAINST FORMS, BUT EXPOSED TO EARTH OR WEATHER:
- SLABS, WALL & JOISTS, NOT EXPOSED TO EARTH OR WEATHER:
- 10. REINFORCING BARS LARGER THAN #8 ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE.
- 11. LOCATION OF ALL CONSTRUCTION JOINTS, OTHER THAN SPECIFIED, SHALL BE APPROVED BY 17. STRUCTURAL STEEL EMBEDDED INTO CONCRETE OR MASONRY SHALL BE UNPAINTED. ARCHITECT/ENGINEER OF RECORD PRIOR TO POURING. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF POURING.
- 12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS AND ANY OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE WELL SECURED IN POSITION PRIOR TO POURING OF CONCRETE.

| | | | STRUCTURAL DESIGN VALUE | S |
|--|--|-------------------------|--|--|
| | | | All values reported are unfactored and strength level, unless noted otherwise | |
| | CONCRETE(CONT.) | | Gravity Design Data | Value |
| | 13. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT/ENGINEER OF RECOR | | Dead Loads: | |
| LITY TO COMPLY WITH THE PERTINENT | TO PLACING SLEEVES, PIPES, DUCTS, CHASES, CORING AND OPENINGS ON OR T STRUCTURAL CONCRETE BEAMS, WALLS, FLOORS AND ROOF SLABS, UNLESS SPEC | Bridge Dead Load | 125 psf | |
| OF THE "CONSTRUCTION SAFETY ORDERS" ITION, AND ALL O.S.H.A. REQUIREMENTS. | DETAILED OR NOTED. ALL PIPES OR CONDUITS PASSING THROUGH CONCRETE MEMBE BE SLEEVED WITH STANDARD STEEL PIPES. SEE TYPICAL DETAIL FOR PIPE THROUGH FO | RS SHALL | Pipe Dead Load (Water Filled) | 255 plf |
| ID THE OWNER DO NOT ACCEPT ANY FAILURE TO COMPLY WITH THESE | BE SLEEVED WITH STANDARD STEEL PIPES. SEE TYPICAL DETAIL FOR PIPE THROUGH FO | JTING. | Live Loads: | |
| | 14. VIBRATE ALL CONCRETE (INCLUDING SLABS ON GRADE) AS IT IS PLACED, WITH A MEC | | Bridge Live Load | 85 psf |
| ADEQUATE DESIGN AND CONSTRUCTION | VIBRATOR OPERATED BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE U CONSOLIDATE THE CONCRETE, NOT TRANSPORT IT. REINFORCING AND FORMS SHAL | | Vehicle Live Load | 10,000 lb |
| | VIBRATED. | | Snow Loads: | |
| STRUCTURAL INTEGRITY OF THE EXISTING | 15. FORMWORK DESIGN AND REMOVAL SHALL CONFORM TO ACI 318-14 SECTION 26.11. REMOVE | | Ground Snow Load, P _e | 0 psf |
| | FORMS IN ACCORDANCE WITH THE FOLLOWING MINIMUM SCHEDULE: | | Deflection Criteria: | |
| NCIES BETWEEN THE PLANS AND EXISTING | A.SIDE FORMS OF FOOTINGS:MINIMUM 48 HOURSB.EDGE FORMS OF SLAB ON GRADE:MINIMUM 24 HOURS | | Roof, Total Load | L/240 |
| | C. WALL/RETAINING WALL FORMS: 72 HOURS & 70% OF | 2 HOURS & 70% OF DESIGN | Roof, Live Load | L/360 |
| AND LOCATION OF ALL SHORING. | STRENGTH D. COLUMN FORMS: 72 HOURS & 70% OF DESIGN STRENGTH E. ELEVATED BEAMS AND SLABS: 14 DAYS & 80% OF DESIGN STRENGTH | DESIGN | Floor, Total Load | L/240 |
| | | Floor, Live Load | L/360 | |
| | | Wind Design Data | Value | |
| | CONCRETE SHALL NOT FREE FALL MORE THAN SIX FEET. USE TREMIE, PUMP OR OTHER APPROVED METHODS. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF 5 DAYS AFTER PLACEMENT. | | Design Wind Speed (3-sec gust), V _{ULT} | 110 mph |
| es and foundation design are based | | | Design Wind Speed (3-sec gust), V _{ASD} | 85 mph |
| ACTUAL SOIL CONDITIONS WHICH DEVIATE NGS SHALL BE REPORTED TO THE PROJECT | | | Risk Category | I |
| | PLACEIVIENT. | Exposure Category | С | |
| ACTION, FILL, BACKFILLING, AND SITE | 18. THE CONTRACTOR MAY USE CONCRETE ADMIXTURES AS A CONSTRUCTION MEANS AND METHODS TO EXECUTE "CONTRACT OR CONSTRUCTION DOCUMENTS". USE OF ADMIXTURE IS | | Applicable Internal Pressure Coefficient | ± 0.18 |
| AS INDICATED IN DRAWINGS AND PROJECT | SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. 19. MIX DESIGNS SHALL BE PREPARED BY AN APPROVED TESTING LABORATORY, SIGN | ed by a | Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7) | q _z = 24 psf |
| WITH FIRM LEVEL BOTTOMS. CARE SHALL N AT LOWER ELEVATION AND PREVENT | LICENSED ENGINEER AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. 20. ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED ON PROJECT SITE AT ANY ONE TIME | | Earthquake Design Data | Value |
| | | | Risk Category | I |
| ONS, WITHOUT SIDE FORMS WHENEVER | 21. UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE, CONSTRUCTION AND CONTRO |)L JOINTS | Importance Factor, I _e | 1.0 |
| | SHALL BE PROVIDED IN ALL CONCRETE SLABS, AND SHALL BE LOCATED SUCH THAT THE AREA WITHIN JOINTS DOES NOT EXCEED 375 SQ. FT., AND IS ROUGHLY SQUARE. | | Mapped Spectral Response Accelerations | S₅= 1.578 g S₁= 0.595 g |
| O COMPACTED FILL OR NATURAL SOIL (AS SOILS INVESTIGATION). | A. FOR ALL STRUCTURAL SLABS (SUSPENDED OR ONGRADE) WHERE ARCHIT | | Site Class | D |
| REQUIRED REINFORCING STEEL, SLEEVES, | "EXPOSED" CONDITIONS ARE DESIRED, THE CONTRACTOR SHALL PROVIDE CONTROL JOINT LAYOUT FOR REVIEW BY ARCHITECT OR ENGINEER OF RECORD. | | Spectral Response Coefficients | S _{DS} = 1.052 g S _{D1} = 0.595 g |
| PROPERLY PLACED AND INSPECTED BY THE | 22. EVERY OPENING (EXCEEDING 24" IN EITHER DIRECTION) SHALL HAVE A MINIMUM (U.N.O.) DIRECTLY ADJACENT TO ALL SIDES AS WELL AS TOP AND BOTTOM (UN | | Seismic Design Category | D |
| | COUNDATION) DEINEODCING DADE SUALI EVTEND A NAININAUNA OF 24" DAET | | | |

- 9. WHERE NOT SPECIFICALLY DETAILED, THE MINIMUM CONCRETE COVER ON REINFORCING STEEL
- D. BEAMS, GIRDERS & COLUMNS, NOT EXPOSED TO EARTH OR WEATHER: $1\frac{1}{2}$ "
- 10. ALL BOLTS SHALL CONFORM TO ASTM, A307 (U.N.O.) 11. ALL WELDING SHALL CONFORM TO 'AWS D1.1 AND D1.8' SPECIFICATIONS FOR WELDING. (E-70XX ELECTRODES).

NECESSARY, WITH APPROVED "ZINC RICH" OR OTHER HIGH QUALITY EXTERIOR PRIMER.

FOUNDATION). REINFORCING BARS SHALL EXTEND A MINIMUM OF 24" PAST EDGE OF

SAME SIZE AND SPACING AS VERTICAL BARS IN WALL AND COLUMNS. DO NOT "HICKEY" BARS.

23. DOWEL ALL CONCRETE WALLS AND COLUMNS TO SUPPORTING CONCRETE WITH BARS OF THE

24. AT THE END, AS WELL AS TOP, OF WALLS SHALL BE A MINIMUM OF 2-#5 CONTINUOUS (U.N.O.).

25. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS (IN ACCORDANCE

26. CONCRETE PLACED WHEN THE AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL

27. CONCRETE PLACED DURING HOT WEATHER SHALL CONFORM TO ACI 318-14 SECTION 26.5.5,

WITH CBC SECTION 1705.3) MADE BY AN APPROVED TESTING LABORATORY.

BELOW 40° SHALL CONFORM TO ACI 318-14 SECTION 26.54, AND ACI 306R-16.

A. 1" CONCRETE COVER SHALL BE MAINTAINED AROUND ALL REINFORCEMENT.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303-10).

5. ALL WELDING SHALL BE DONE BY QUALIFIED AND CERTIFIED WELDERS.

6. NO FIELD WELDING PERMITTED, UNLESS SPECIFICALLY NOTED OTHERWISE.

STRUCTURAL STEEL MEMBERS. BURNING OF HOLES IS NOT PERMITTED.

A. ANGLES, CHANNELS, PLATES, BARS, ROUNDS, AND OTHER MISCELLANEOUS SHAPES:

ASSEMBLIES SHALL CONFORM TO CBC SECTION 1704.2.5.

1. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 360-10 AND AISC 341-10.

A. FABRICATION OF ALL STRUCTURAL STEEL SHALL BE DONE IN THE SHOP OF AN APPROVED

FABRICATOR. INSPECTION AND APPROVAL FOR FABRICATOR'S SHOPS USED FOR

FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS, COMPONENTS, MATERIALS OR

Shall conform to astm ass8 and shall have a minimum yield stress (F_{v}) of 36

AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10) AND CODE OF

7. SHOP DRAWINGS FOR THE FABRICATION OF ANY STRUCTURAL STEEL SHALL BE APPROVED BY

8. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH

THE CONTRACTOR AND SUBMITTED TO ARCHITECT OR ENGINEER OF RECORD FOR THEIR

ALL STRUCTURAL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCHED-UP, AS

OPENING.

AND ACI 305R-14.

ALL DOWELS SHALL BE VERTICAL.

TO STRUCTURAL REINFORCEMENT.

ACCORDANCE WITH CBC CHAPTER 17.

REVIEW, PRIOR TO FABRICATION.

- 13. WHERE FILLET WELD SIZE IS NOT INDICATED, USE 'AWS' MINIMUM SIZE BASED ON THE THICKNESS OF THE THINNER PART BEING WELDED, AS SPECIFIED IN AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10), SECTION J2.2.
- 14. ALL BUTT WELDS TO BE COMPLETE JOINT PENETRATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 15. WELDER QUALIFICATION REQUIREMENTS, WELDING PROCEDURE AND WELDING ELECTRODES FOR ALL STRUCTURAL STEEL (EXCEPT STRUCTURAL SHEET STEEL, SEE STEEL DECKING) SHALL CONFORM TO CBC SECTIONS 1705.2.1 AND 2204.1.
- 16. PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND ALL STRUCTURAL STEEL BELOW GRADE.
- ASTM A1852 BOLTS ARE AN ACCEPTABLE SUBSTITUTION FOR A325 BOLTS.

ABBREVIATIONS

HORIZ.

HSS

HT.

| ADD | REVIATIONS | |
|-----------------|--|---------------|
| A.B. ABV. | Anchor Bolt Above | IBC ICC |
| ACI ADD'L | American Concrete Institute Additional | ID IN. |
| ADJ. | Adjacent | INT. |
| AHJ AISC | Authority Having Jurisdiction American Institute of Steel | ksi |
| APPROX. ASCE | Construction Approximate(ly) American Society of Civil | LL |
| ASTM | Engineers American Society of Testing | MAX. MB |
| ATR AWS | and Materials All Thread Rod American Welding Society | MECH. MFR. |
| BLDG. | Building | MIN. MPH |
| В.О. | Bottom of | MTL. |
| BOT. | Bottom | (NI) |
| BRG. b/t | Bearing Between | (N) N.T.S. |
| CAC | California Administrative Code | 0.C. |
| CANT. | Cantilever | o/ |
| CBC | California Building Code | OD |
| CIP CJ | Cast-in-place Control Joint | PEN. |
| CJP | Complete Joint Penetration | PL. |
| CL. | Centerline | PJP |
| CLR. | Clear | psi |
| COL. | Column | PSF |
| CONC. | Concrete | PSL |
| CONN. | Connection | PERF. PW |
| CONST. CONT. | Construction Continue, Continuous | FVV |
| CSK. | Countersink | Q.A. Q.C. |
| Ø | Diameter | REBAR |
| DBL. DCW | Double Demand Critical Weld | REINF. |
| DEV DET. | Detail | RET. |
| DEN. DEMO | Demolition | REQ'D |
| DIAG. | Diagonal | |
| DL | Dead Load | S.F. |
| DWGS. | Drawings | SHT. |
| - • | | SIM. SMS |
| EA. E.F. | Each | SQ. |
| e.f. Elec. | Each Face Electric, Electrical | STAGG'D |
| ELEV. | Elevation | STD. |
| EMBED. | Embedded, Embedment | STL. |
| EOR | Engineer of Record | SEOR |
| EQ. | Equal | T&B |
| EQUIP. | Equipment | THR'D |
| E.W. (E) | Each Way | Т.О. |
| (⊏) EXP. | Existing Expansion | TRL. |
| EXT. | Exterior | TYP. |
| FAB. | Fabricated | U.N.O. |
| FDN. | Foundation | |
| F.F. | Finish floor | VERT. |
| FLR. | Floor | VIF |
| F.O. FRMG. | Face of | w/ |
| FRIVIG. FT. | Framing Foot,Feet | w/c |
| FTG. | Footing | WSS |
| | - | WT. |
| GA. | Gauge | WWM |
| GALV. | Galvanized | |
| GEOR | Geotechnical Engineer of Record | |

International Building Code International Code Council Inside Diameter Inch, Inches Interior Kips per Square Inch Live Load Maximum Machine Bolt Mechanical Manufactured, Manufacturer Minimum Miles per Hour Metal New Not to Scale On Center Outside Diameter Penetration Plate Partial Joint Penetration Pounds per Square Inch Pounds per Square Foot Parallel Strand Lumber Perforated Puddle Weld Quality Assurance Quality Control Reinforcing Bar Reinforcement Retaining Required Square Feet Sheet Similar Sheet Metal Screw Square Staggered Standard Structural Engineer of Record Top and bottom Threaded Top of _____ Triple Typical Unless Noted Otherwise Vertical Verify in Field With Water/Cement Ratio Welded Steel Stud Weight Welded Wire Mesh

SYMBOLS

Record

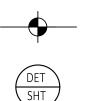
Holdowr

Horizontal

Height

Hollow Steel Section





Concrete Footing

Concrete Wall

Elevation Reference

Detail Number Reference Sheet Number Reference





SERVICES DISTRIC



IT. 8 OF 11

S-001 DWG. NO.

SPECIAL INSPECTION GENERAL NOTES All Special Inspection shall be provided in accordance with CBC Section 1704 and 1705. Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702.1, 1703.1 and 1704.1. Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work. Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704.2.1. Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705.1.1 Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following: A. Acknowledgement of awareness of the special requirements contained in the statement of special inspections; B. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Authority Having Jurisdiction; C. Procedures for exercised control within the contractor's organization, the method and frequency of reporting and the distribution of the reports; and D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization. Refer to Special Inspection requirements by other disciplines not included herein. SPECIAL CASES Verification and Inspection Adhesive anchors (Epoxy) Inspection of anchors installed in hardened concrete. Installed in horizontally or upwardly inclined orientations to resist sustained tension loads. (Concrete shall be cured for a minimum of 21 days) All other installations of adhesive anchors.

Mechanical anchors

Inspection of anchors installed in hardened concrete.

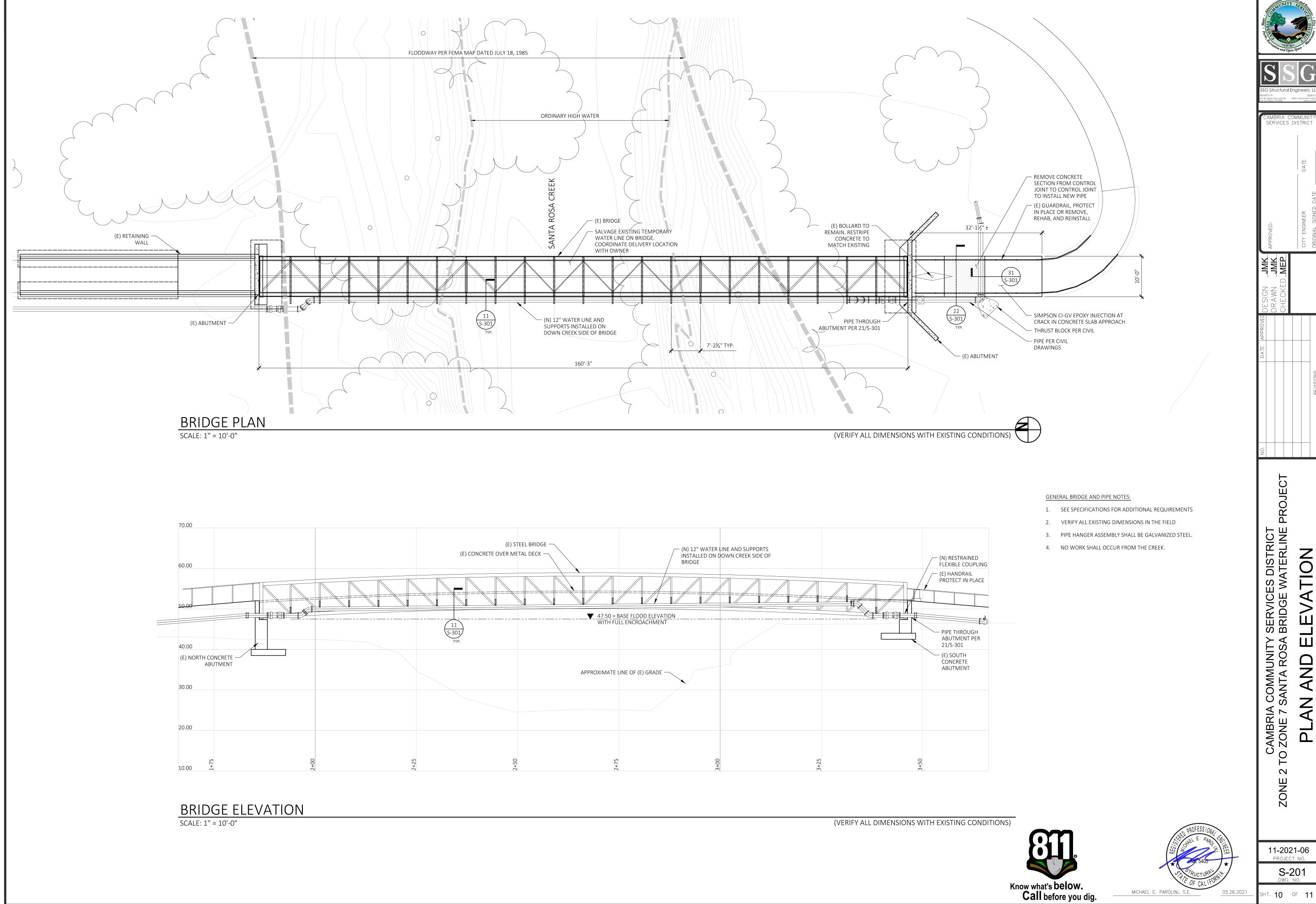
Periodic Continuous \checkmark

 \checkmark

| Vei | ification and Inspection | Continuous | Periodic | | |
|------------|--|--------------|-----------------------|--|--|
| Req | uired verification and inspection of steel construc | tion | | | |
| 1. | Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers: | | | | |
| | For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required. | | \checkmark | | |
| 2. | Material verification of structural steel or cold-form steel deck: | | | | |
| | a. Identification markings to conform to ASTM standards specified in the approved construction documents. | | \checkmark | | |
| | b. Manufacturer's certified test reports. | | ✓ | | |
| 3. | Inspection of high-strength bolting: | | | | |
| | a. Snug-tight joints | | \checkmark | | |
| | b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation | | \checkmark | | |
| | c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation | \checkmark | | | |
| 4. | Material verification of weld filler materials: | | | | |
| | a. Identification markings to conform to AWS specification in the approved Construction Documents | | \checkmark | | |
| | b. Manufacturer's certificate of compliance required | | \checkmark | | |
| 5. | Inspection of welding: | | | | |
| | a. Structural steel and cold formed steel deck: | | | | |
| | 1) Complete and partial joint penetration groove welds | √ | | | |
| | 2) Multi-pass fillet welds | ✓ | | | |
| | 3) Single-pass fillet welds > $\frac{5}{16}$ " | \checkmark | | | |
| | 4) Plug and slot welds | ✓ | | | |
| | 5) Single-pass fillet welds $\leq \frac{5}{16}$ " | | ✓ | | |
| | 6) Floor and roof deck welds ^c | | ✓ | | |
| | b. Reinforcing steel: ^d | | | | |
| | Verification of weldability of reinforcing steel other than ASTM A706. | | ~ | | |
| | Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. | \checkmark | | | |
| | 3) Shear reinforcement | ✓ | | | |
| | 4) Other reinforcing steel | | ✓ | | |
| 6. | Inspection of steel frame joint details for compliance: | | | | |
| | a. Details such as bracing and stiffening b. Member locations | | ✓ ✓ | | |
| | c. Application of joint details at each | | ∕ , | | |
| 100 | connection | | \checkmark | | |
| lnsp 1. | Welding procedure specifications (WSPs) | | | | |
| | Welding procedure specifications (WSPs) available | ✓ | | | |
| 2. | Manufacturer certifications for welding consumables available | ✓ | | | |
| 3. | Material identification (type/grade) | | \checkmark | | |
| 4. | Welder identification system ^e | | ✓ | | |
| 5. | Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, | | \checkmark | | |
| 6. | tacking, backing type and fit Configuration and finish of access holes | | | | |
| 7. | Fit-up of fillet welds Dimensions, cleanliness, tacking | | · | | |
| 8. | Check welding equipment | | | | |
| Insp | ection tasks during welding | 1 | | | |
| 1. | Use of qualified welders | | \checkmark | | |
| 2. | Control and handling of welding consumables Packaging, exposure control | | \checkmark | | |
| 3. | No welding over cracked tack welds | | ✓ | | |
| 4. | Environmental conditions Wind speed within limits, precipitation and | | \checkmark | | |
| | temperature | | | | |

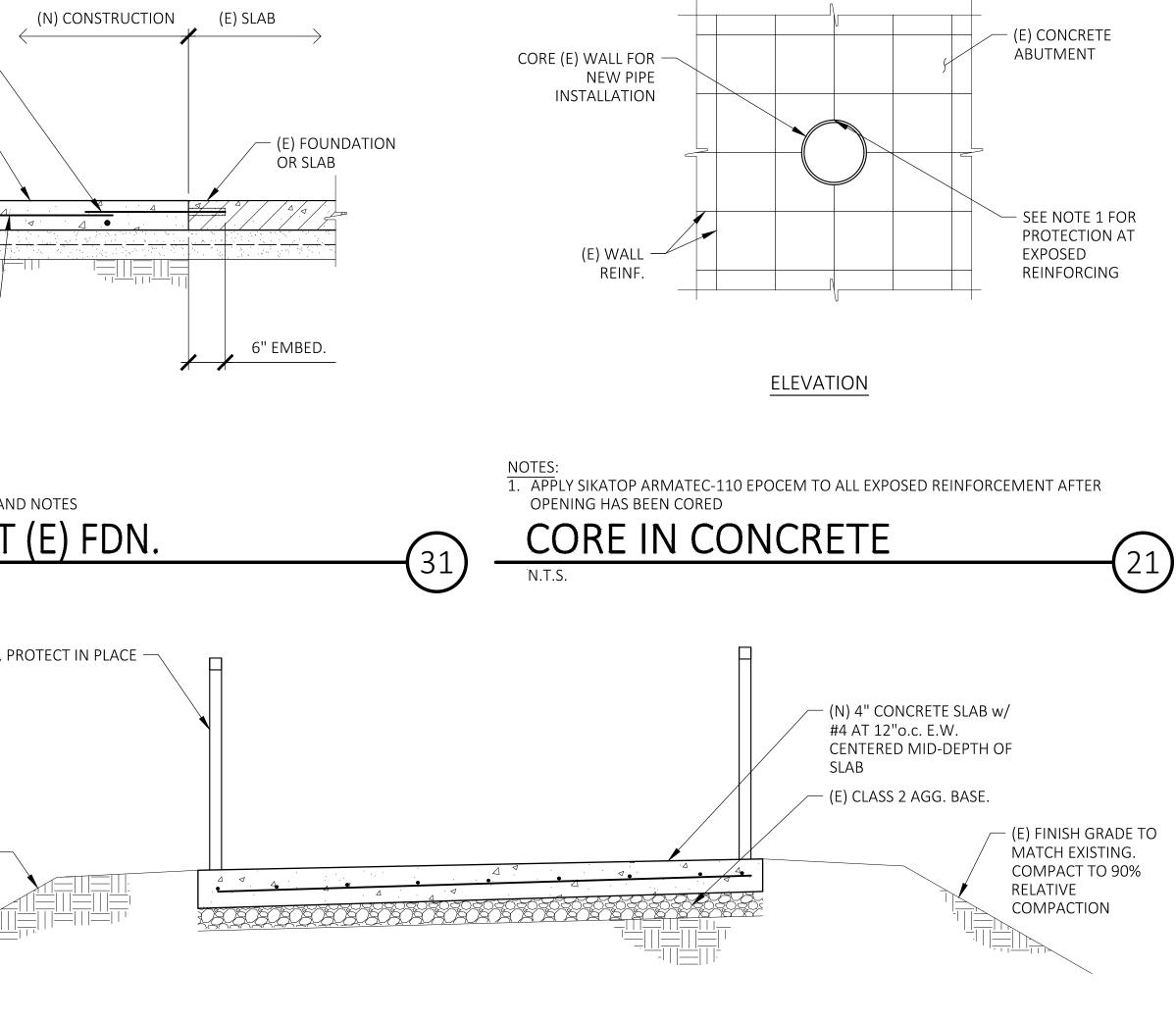
| STEEL CONSTRUCTION, CONTINUED | | | | |
|-----------------------------------|--|---|----------------|--|
| Ver | ification and Inspection | Continuous | F | |
| Inspe | ection tasks during welding (Continued) | | | |
| 5. | WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.),proper position (F, V, H, OH) | | | |
| 6. | Welding techniques Interpass and final cleaning, each pass within profile limitations | | | |
| Inspe | ection tasks after welding | | | |
| 1. | Welds cleaned | | | |
| 2. 3. | Size, length and location of welds Welds meet visual acceptance criteria | \checkmark | | |
| | Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity | \checkmark | | |
| 4. | Arc strikes | \checkmark | | |
| 5. 6. | k-Area ^f Backing removed and weld tabs removed (if | \checkmark | | |
| 0. | required) | \checkmark | | |
| 7. o | Repair activies | \checkmark | | |
| 8 | Document acceptance or rejection of welded joint or member | \checkmark | | |
| Inspe | ection tasks prior to bolting ^g | | | |
| 1. | Manufacturer's certifications available for fastener materials | ✓ | | |
| 2. | Fasteners marked in accordance with ASTM requirements | | | |
| 3. | Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) | | | |
| 4. | Proper bolting procedure selected for joint detail | | | |
| 5. | Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements | | | |
| 6. | Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used | | | |
| 7. | Proper storage provided for bolts, nuts, washer and other fastener components | | | |
| Inspe | ection tasks during bolting | | | |
| 1. | Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required | | | |
| 2. | Joint brought to the snug-tight condition prior to the pretensioning operation | | | |
| 3. | Fastener component not turned by the wrench prevented from rotating | | | |
| 4. | Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below | | | |
| Inspe | ection tasks after bolting | | | |
| 1. | Document acceptance or rejection of bolted connections | \checkmark | | |
| Not a. b. c. d. e. | es: Steel Construction CBC Section 1705.2 and Table 1705.2.2 CBC Section 1707.11.1 AWS D1.3 AWS D1.4, ACI 318: Section 3.5.2 The fabricator or erector, as applicable, shall m who has welded a joint or member can be ider low-stress type. | | | |
| f. g. Minir | When welding of doubler plates, continuity pla in the k-area, visually inspect the web k-area for All methods of installation for high strength bo pre-tension by a Skidmore-Welhelm calibrator (see minimum pre-tension chart below). mum Bolt Pretension (kips) | or cracks within 3 inch Its shall require verifi | nes c catio | |
| | size , inches | Group A | 1 | |
| | ½" Diameter | (A325, etc.) 12 | (/ | |
| | 5/8" Diameter | 19 | | |
| | ³ / ₄ " Diameter | 28 | | |
| | ⁷ ∕ ₈ " Diameter 1" Diameter | 39 51 | | |
| | 1½" Diameter | 56 | | |
| | 1¼" Diameter | 71 | | |
| | 1 ³ / ₈ " Diameter | 85 | | |
| | 1½" Diameter | 103 | | |

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| v | | | 805.439.2110 811 El Capitan Way, Suite 240 8 San Luís Obispo, CA 93401 | ssgse.com 405 N. Fresno Street, Suite 12(Fresno, CA 9372) |
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| 148 | | * No. 5405 * | PROJEC [®] | |
| | Know what's below. | MICHAEL E. PAROLINI, S.E. 05.26.2021 | DWG. | NO. |
| | Call before you dig. | | SHT. 9 (| DF 11 |



| | (E) S (E) CONCRETE OVER ME | TEEL BRIDGE — ETAL DECK — | (N) 12" WATER INSTALLED ON I BRIDGE | LINE AND SUPPORTS DOWN CREEK SIDE OF | |
|------|-------------------------------|------------------------------|---|---|--|
| | | | | | |
| | | ▼ 47.50 = E | BASE FLOOD ELEVATION | | |
| | | WITH FU | ASE FLOOD ELEVATION | | |
| | S-301 TYP. | | | | |
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| | | APPROXIMATE I | INE OF (E) GRADE | | |
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| 7+75 | 2+7.0 2+50 2+50 | 2+75 | 3+00 | 3+25 | |
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| (N) ← |
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| ½" Ø x 2'-0" SMOOTH DOWEL WITH GREASED END EMBED. INTO (E) SLAB |
| CONC. SLAB ON GRADE (1) |
| REINF. PER PLAN |
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| |
| NOTES: (#) 1. SEE FOUNDATION PLAN AND NOT (N) SLABAT (E) N.T.S. |
| |
| (E) HAND RAIL, PROTEC |
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| PROTECT SLOPE WITH |
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SLAB SECTION

22

L3x3x5⁄₁₆ -

L3x3x⁵⁄₁₆ -

ΕA.`

END

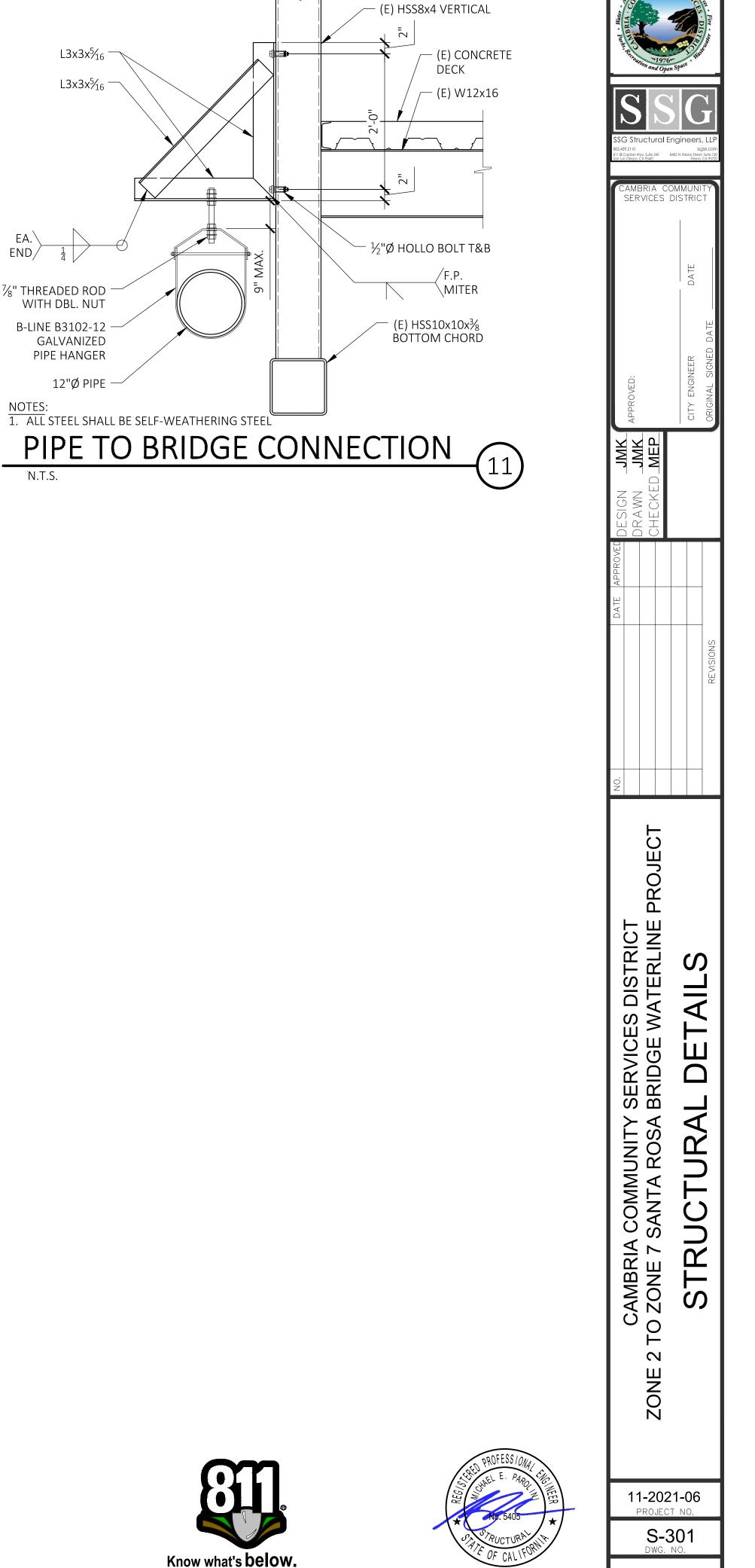
%" THREADED ROD -WITH DBL. NUT

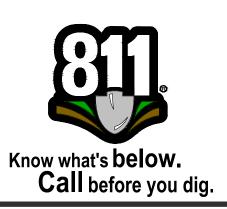
B-LINE B3102-12 -GALVANIZED

N.T.S.

PIPE HANGER

12"Ø PIPE







05.26.2021

HT. **11** OF **11**

Exhibit E - Drawings