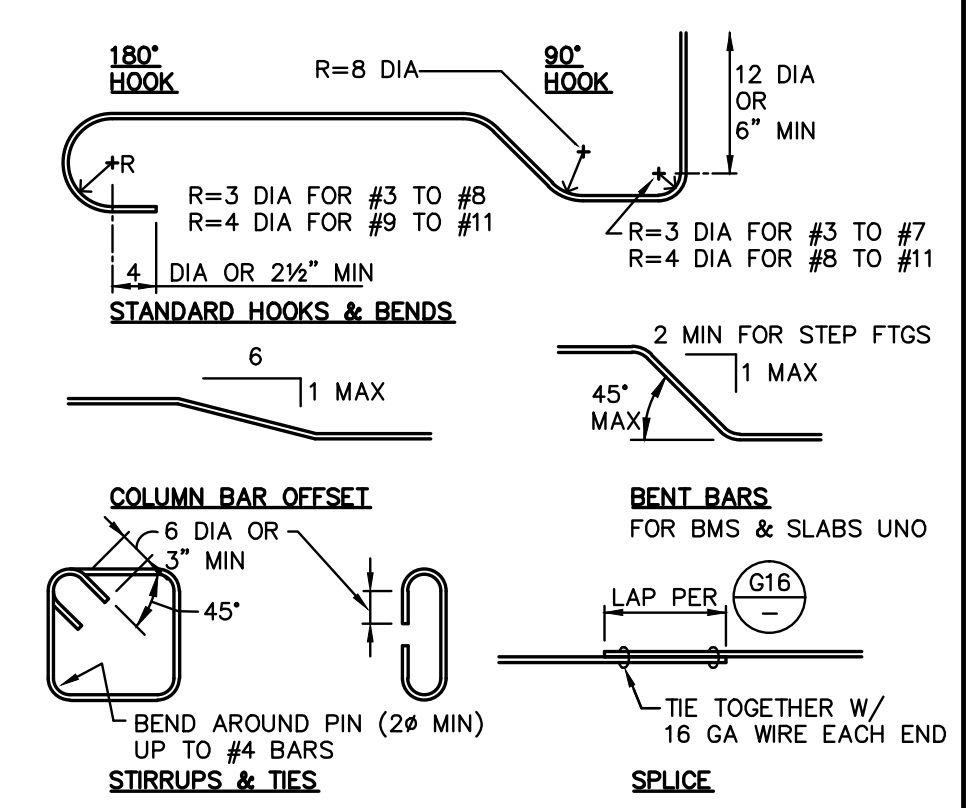
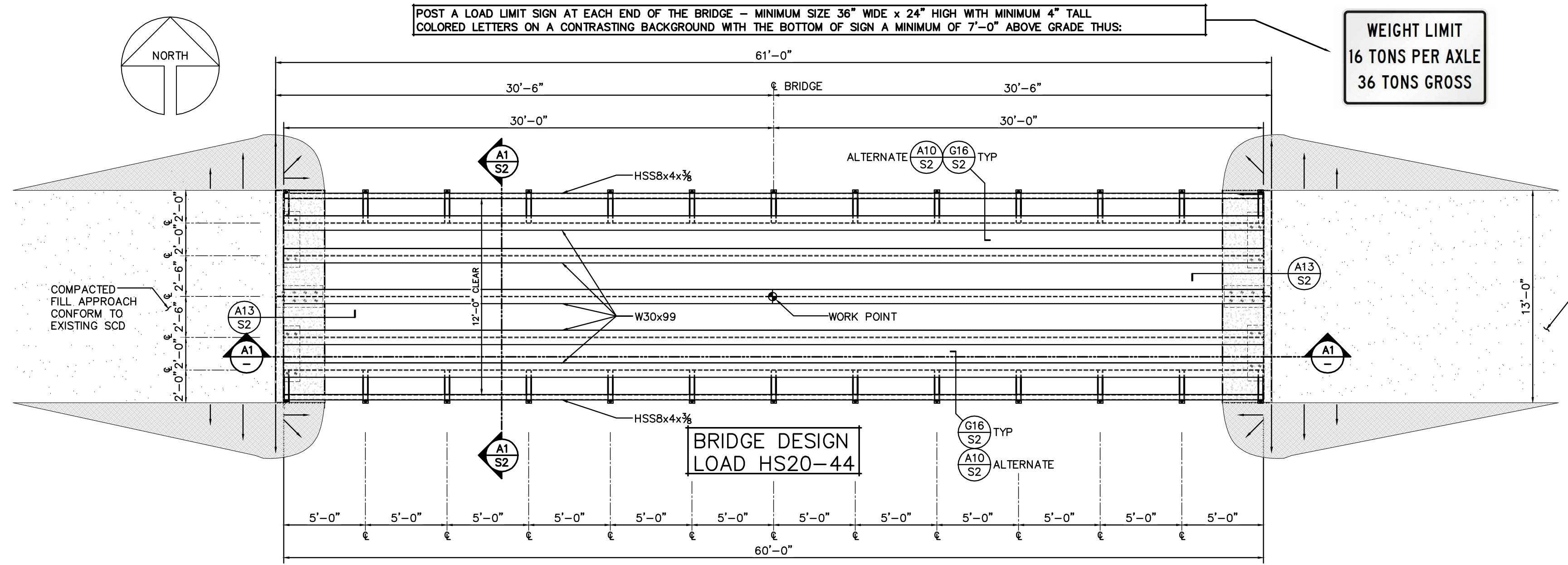


POST A LOAD LIMIT SIGN AT EACH END OF THE BRIDGE - MINIMUM SIZE 36" WIDE x 24" HIGH WITH MINIMUM 4" TALL COLORED LETTERS ON A CONTRASTING BACKGROUND WITH THE BOTTOM OF SIGN A MINIMUM OF 7'-0" ABOVE GRADE. THIS:

**WEIGHT LIMIT**  
16 TONS PER AXLE  
36 TONS GROSS



- ALL CONCRETE SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE.
- ALL CONCRETE SHALL ATTAIN A STRENGTH OF 4,000 psi WITHIN 28 DAYS, UNO.
- ALL CEMENT USED TO BE TYPE I OR TYPE II OF ASTM-C-150.
- DRYPACK TO BE COMPOSED OF 1 PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
- CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10 DAYS OR BY AN APPROVED CURING COMPOUND (UNO).
- ALL REINFORCING STEEL, ANCHOR BOLTS AND OTHER INSETS TO BE ACCURATELY PLACED AND SECURED SO THAT THEY WILL NOT BE DISRUPTED.
- ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY THE ENGINEER, IF NOT NOTED ON DRAWINGS.

**K13 REINFORCING STEEL DATA**

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- CONFORMS TO 2019 CBC, LOCAL & OTHER APPLICABLE CODES.
- SITE WORK BY OTHERS.
- DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING WORK. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL BE OF SAME NATURE AS SIMILAR CONDITIONS ON THE PROJECT.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE OWNER/ ENGINEER TO BE NOTIFIED OF ANY DISCREPANCY BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR IS TO INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE OWNER AND ENGINEER ARE TO BE NOTIFIED IMMEDIATELY.
- THE ENGINEER IS NOT IN RESPONSIBLE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN ASSOCIATION WITH THE WORK, FOR THE ACTS OF OR OMISSIONS BY THE CONTRACTOR, SUBCONTRACTOR OR ANY PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

**K16 CONCRETE NOTES**

MINIMUM BAR LAPS FOR REINFORCING STEEL					
CONCRETE STRENGTH: 4,000 psi OR LESS (STAGGER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	16"	#6	36"	#9	62"
#4	24"	#7	48"	#10	68"
#5	28"	#8	54"	#11	76"

MINIMUM BAR SPACING (INCLUDING LAPS): 2" CLR OR 1/2" x BAR DIAMETER. 1.5 x LAP EQUALS 150% LAP LENGTH REQUIRED

CONCRETE COVER FOR REINFORCING STEEL 'CLR'

CAST AGAINST EARTH OR GRADE: 3"

EXPOSED TO EARTH OR WEATHER (FORMED): 1 1/2"

#5 & SMALLER: 2"

#6 & LARGER: 2"

NOT EXPOSED TO EARTH OR WEATHER: 1 1/2"

SLABS - FROM TOP OF CONC UNO: 2"

ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN A STANDARD 90° OR 180° HOOK UNLESS DETAILED OTHERWISE

**F13 GENERAL NOTES**

- ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE SPECIFICATIONS AS STATED IN THE "MANUAL OF STEEL CONSTRUCTION" BY AISC (LATEST EDITION). STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:  

PLATE STEEL & L SHAPES	ASTM A36	Fy=36ksi
SHAPES	ASTM A992	Fy=50ksi
RECTANGULAR & SQUARE HSS	ASTM A500, GRADE B	Fy=46ksi
STEEL PIPE	ASTM A53, GRADE B	Fy=35ksi
- WELDING ELECTRODES SHALL MEET AWS REQUIREMENTS. WELD METAL SHALL MATCH OR EXCEED TENSILE STRENGTH OF PARENT METAL. ELECTRODES SHALL BE E70XX FOR SHIELDED METAL ARC, E7XX-EXXX FOR SUBMERGED ARC, AND E70-X FOR GAS METAL ARC, UNO.
- ALL STRUCTURAL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF AWS D1.1. SPECIAL INSPECTION REQUIRED FOR ALL WELDING PER ENGINEER OF RECORD. INSPECTIONS TO MEET THE REQUIREMENTS SET FORTH PER THE LOCAL BUILDING CODE. REFER TO (A13)

**D13 STRUCTURAL STEEL NOTES / SPECS**

- REQUIRED SPECIAL INSPECTIONS**  
 IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE 2019 CALIFORNIA BUILDING CODE:
- STRUCTURAL WELDING
    - ALL WELDING, BOTH SHOP AND FIELD.
    - INSPECTION TO BE PERFORMED DURING FABRICATION OF MATERIAL IN THE SHOP. SUBMIT ALL REPORTS & CERTIFICATIONS TO BUILDING DEPARTMENT AND COPIES TO ENGINEER OF RECORD PRIOR TO ERECTION.
    - INSPECTION TO BE PERFORMED DURING FIELD WELDING OF MATERIAL. CERTS AND REPORTS TO INSPECTOR WITHIN 2 WEEKS OF ERECTION.
    - STRUCTURAL WELDS SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE CURRENTLY ADOPTED EDITION OF AWS D1.1.
    - FULL TIME INSPECTION REQUIRED DURING FINAL FIELD WELDING OF CONNECTIONS.
    - SPECIAL INSPECTOR TO BE HIRED BY OWNER.
    - REFER TO (D13) FOR STRUCTURAL STEEL.
  - REINFORCING PLACEMENT AND CONCRETE COMPRESSIVE STRENGTH.
  - COMPACTION OF CLASS II TO 95% RELATIVE COMPACTION.

**A13 SPECIAL INSPECTION AND SPECIAL SUBMITTAL NOTES**

**G16 REINFORCING STEEL DATA**

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM (A615M-40) FOR #4 BARS AND SMALLER AND ASTM (A706M-60) FOR #5 BARS AND LARGER, UNLESS NOTED OTHERWISE.
- USE LOW HYDROGEN ELECTRODES, GRADE (E-70) FOR WELDING OF REINFORCING BARS (IF APPLICABLE).
- REINFORCING BARS MARKED CONTINUOUS TO BE SPLICED PER (G16) UNLESS NOTED OTHERWISE. LAPS IN ALL GRADE BEAMS OR CONCRETE POURED ABOVE GRADE TO BE VERIFIED WITH ENGINEER, PRIOR TO POURING.
- ALL REINFORCING SHALL BE SECURELY TIED AND BRACED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
- ALL REINFORCING SHALL BE KEPT CLEAN AND FREE OF RUST.

**E16 REINFORCING STEEL NOTES**

- ALL SOILS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 18 OF THE 2019 CBC. FOUNDATION DESIGN PRESSURES ARE 3,000 psf D+L (4,000 psf D+L+EQ/W). ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOILS AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. ALL FOOTING EXCAVATIONS SHALL BE AS NEAT AS PRACTICABLE. OVER-EXCAVATIONS IN DEPTH SHALL BE FILLED WITH CONCRETE. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO PLACEMENT OF REINFORCING OR CONCRETE.
- PRIOR TO PLACEMENT OF CONCRETE, FOUNDATION EXCAVATIONS AND REINFORCING STEEL SHALL BE INSPECTED BY THE BUILDING INSPECTOR, UNO.

**C16 FOUNDATION NOTES**

SEISMIC DESIGN PARAMETERS-EQUIVALENT LATERAL FORCE PROCEDURE

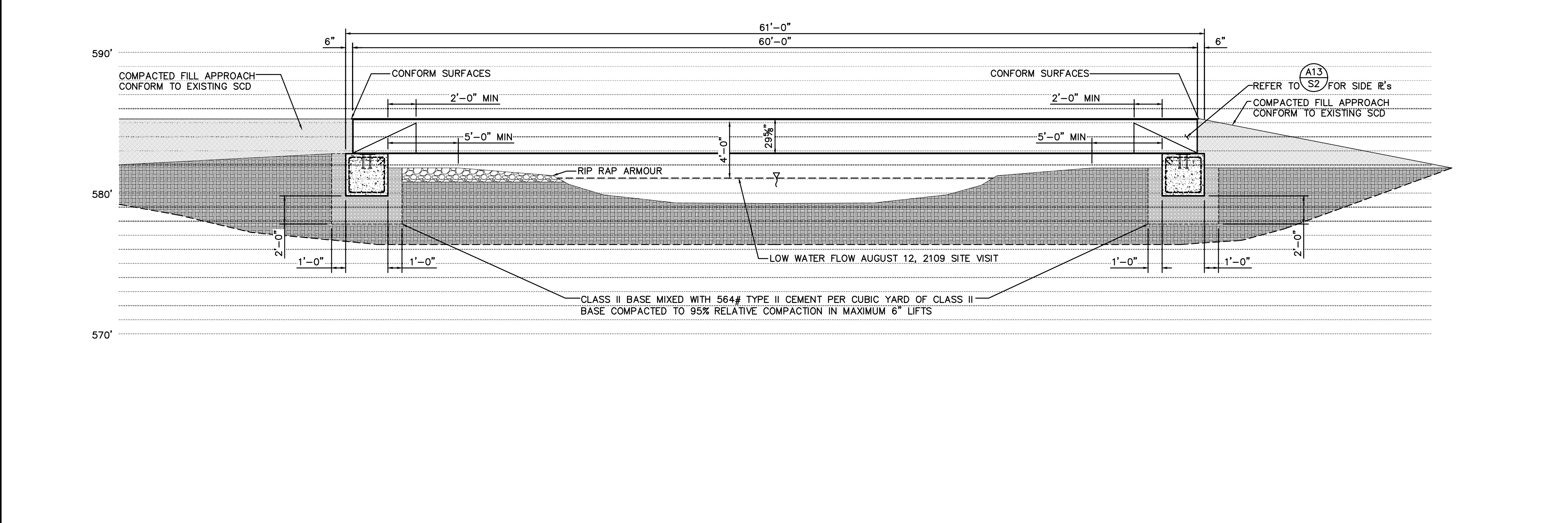
SEISMIC FORCE RESISTING SYSTEM	= TABLE 15.4-2
SITE CLASS	= D
SEISMIC DESIGN CAT	= D
RISK CAT	= III

Ss = 169.5 %	So = 2
Si = 68.9 %	R = 3
Sds = 1.356 %	Cp = 0.333
Sdi = 78.1 %	Vmod = 0.238W
	Fp,red = N/A

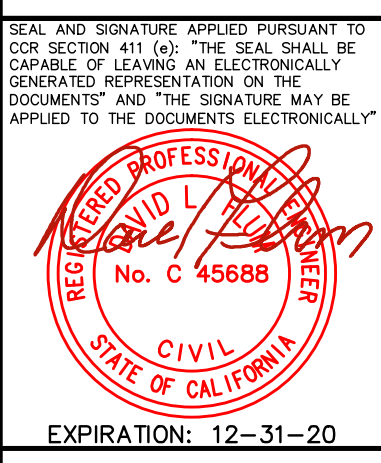
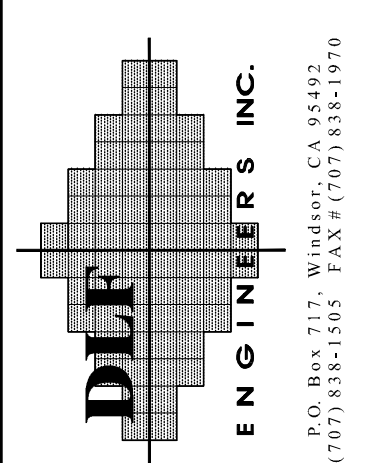
ACTUAL BEARING PRESSURE  
 Fbb = 2.53 ksf D+L

**A16 2019 CBC DESIGN CRITERIA**

**G1 PLAN VIEW - 60'-0" BRIDGE** REFER TO (A13, A16, C16, D13, E16, F13, G16, K13, K16)



**A1 SECTION - 60'-0" BRIDGE** REFER TO (A13, A16, C16, D13, E16, F13, G16, K13, K16)



EXPIRATION: 12-31-20  
 DATE SIGNED: 08-14-19

ISSUED FOR PRICING 08-14-19  
 UPDATE TO 2019 CBC 02-05-2020

DRAWN BY: JPF  
 CHECKED BY: DLF

**REPLACEMENT BRIDGE**  
 CONSERVATION FUND  
 SODA SPRINGS ROAD  
 ANNAPOLIS, CALIFORNIA 95412

PLOT DATE  
 8/12/2019 2:33 PM

JOB NUMBER  
**4128.11.19**

SCALE  
**AS NOTED**

SHEET NUMBER  
**S1**