

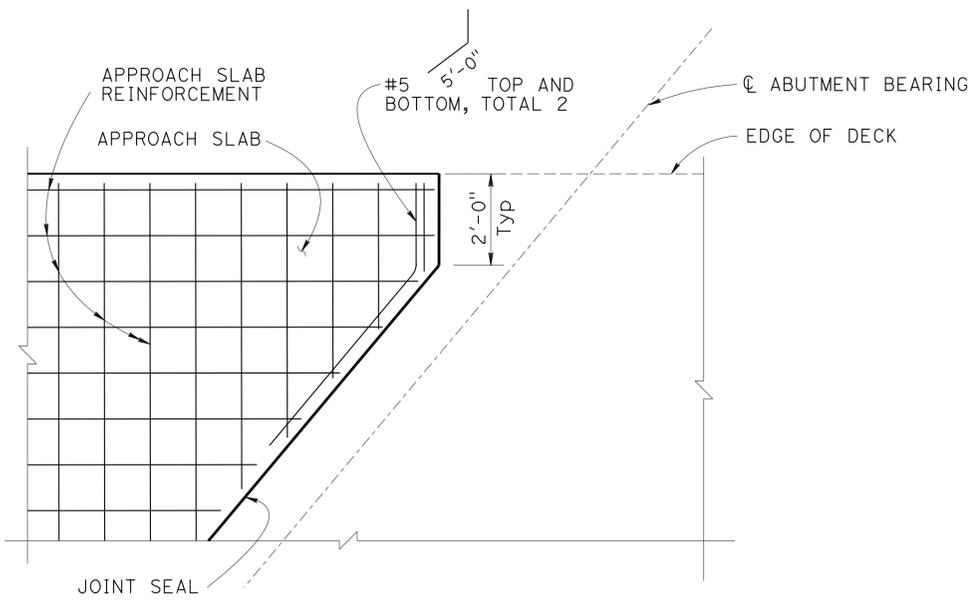
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.2/R106.5	101	110

Rui Wang 01-29-15
REGISTERED CIVIL ENGINEER DATE

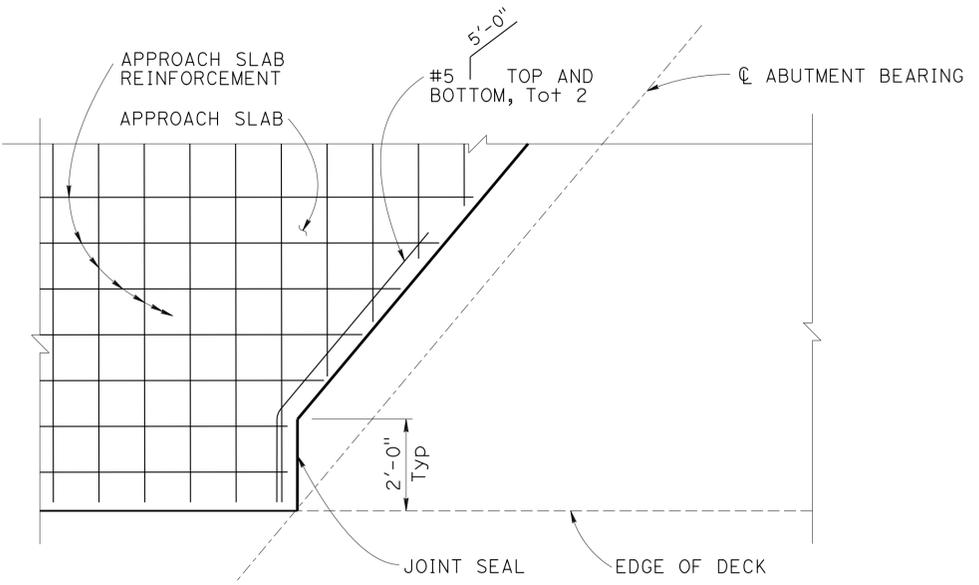
6-25-15
PLANS APPROVAL DATE

RUI WANG
No. C52910
Exp. 12/31/16
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



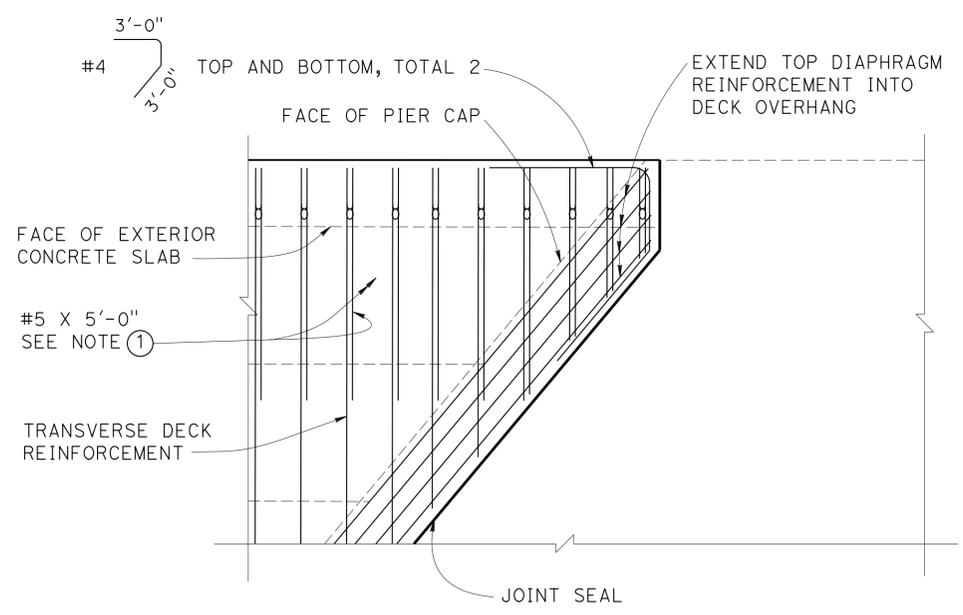
APPROACH SLAB ACUTE CORNER
 $\frac{1}{2}'' = 1'-0''$



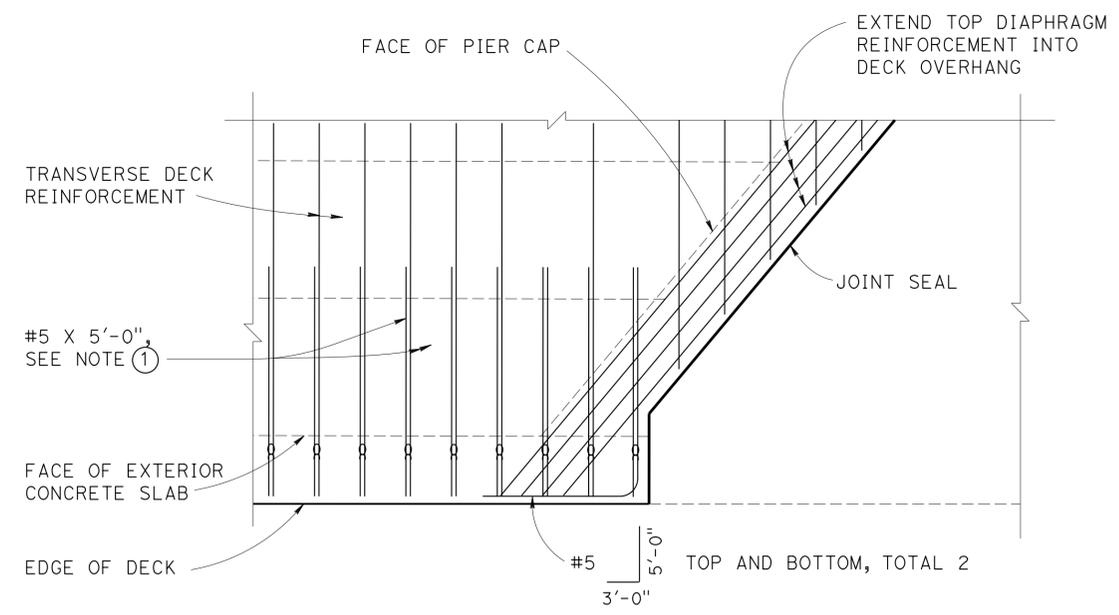
APPROACH SLAB OBTUSE CORNER
 $\frac{1}{2}'' = 1'-0''$

NOTES:

- ① Additional #5 @ 12 bundle with transverse bar.
- ⊕ Denotes bundled bar.



DECK ACUTE CORNER



DECK OBTUSE CORNER

DECK CORNER REINFORCEMENT DETAILS
 $\frac{1}{2}'' = 1'-0''$

DESIGN	BY R. WANG	CHECKED E. MERCADO
DETAILS	BY H. MAHBOOBI / H. INIGUEZ	CHECKED E. MERCADO
QUANTITIES	BY S. YEH	CHECKED E. MERCADO

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1282L
POST MILE	R105.9

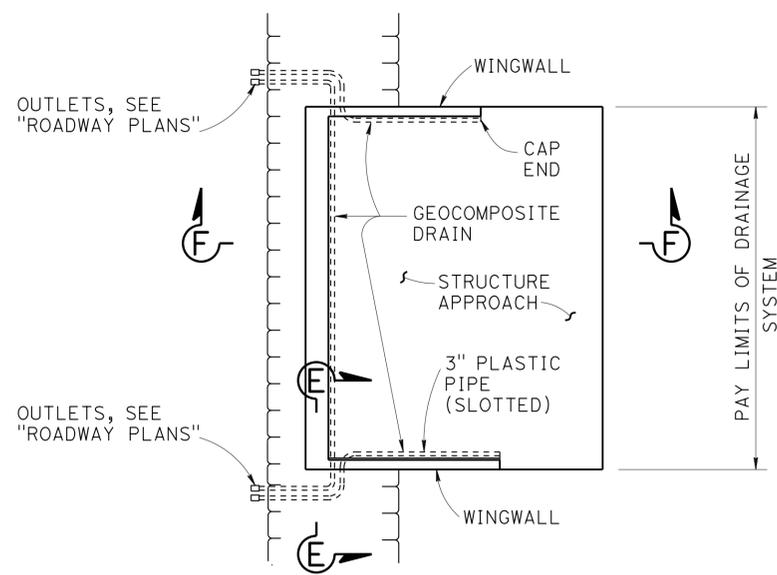
WATSON WASH BRIDGE - LEFT (REPLACE)
DECK CORNER DETAILS

DATE PLOTTED => 08/21
TIME PLOTTED =>
54-12821-r-deckcorner.dgn
25-NOV-2015 08:21

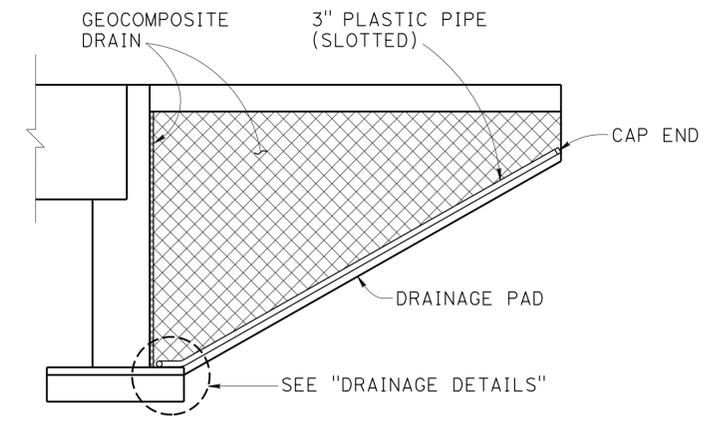
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.2/R106.5	102	110

Rui Wang 01-29-15
 REGISTERED CIVIL ENGINEER DATE
 6-25-15
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

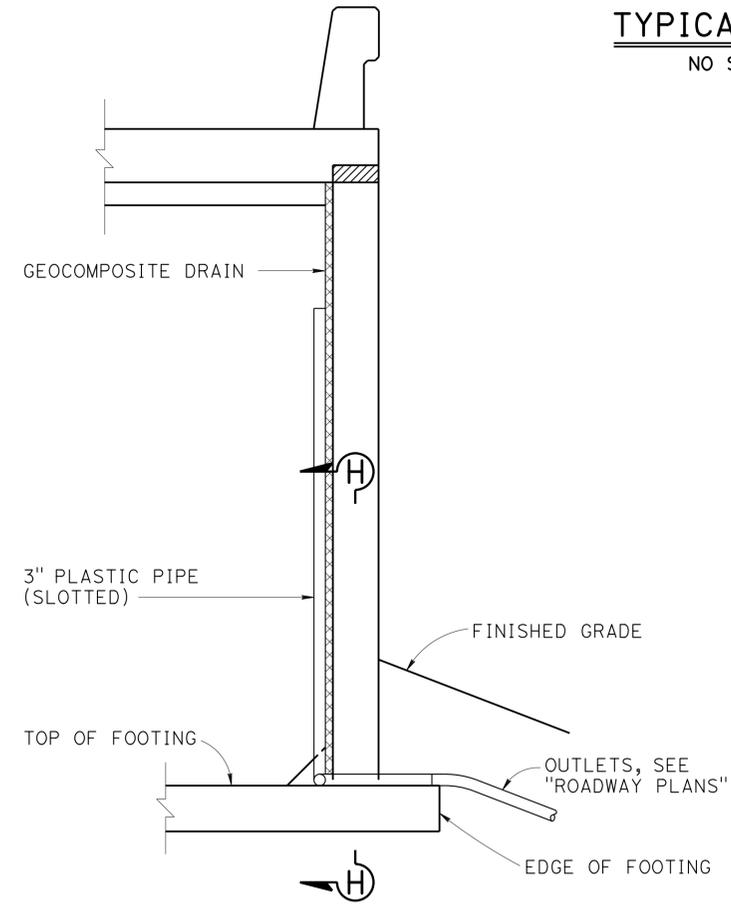
REGISTERED PROFESSIONAL ENGINEER
 RUI WANG
 No. C52910
 Exp. 12/31/16
 CIVIL
 STATE OF CALIFORNIA



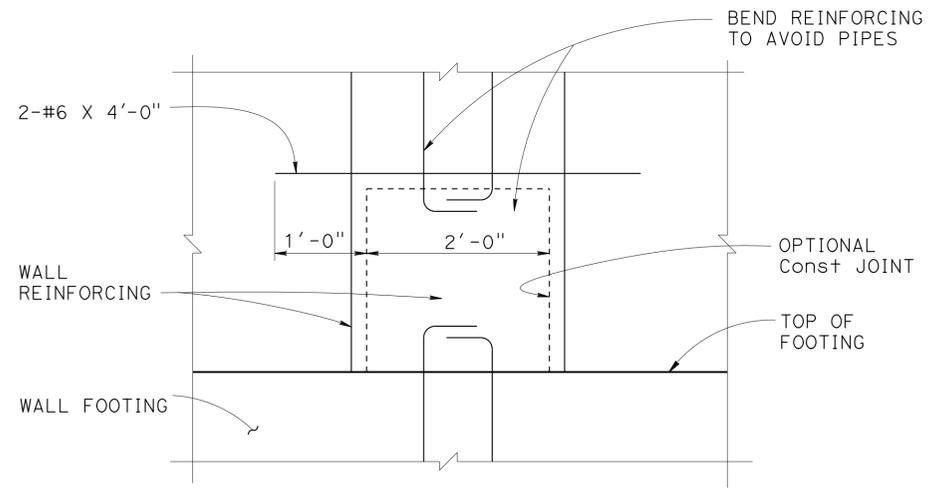
TYPICAL PLAN
NO SCALE



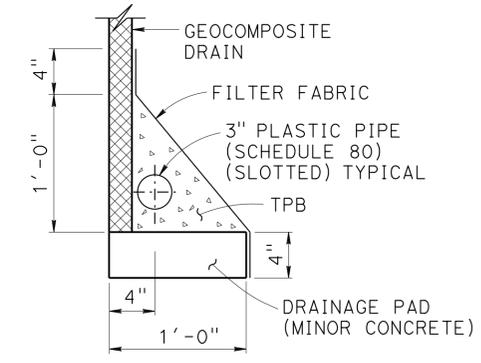
CANTILEVER WINGWALL
SECTION F-F
NO SCALE



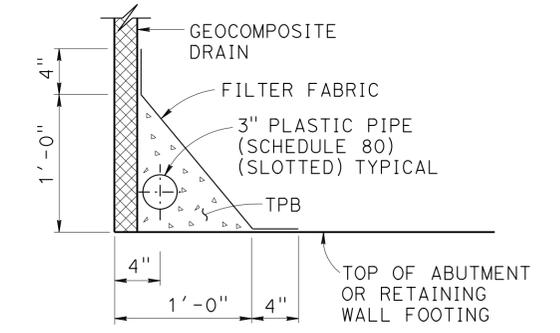
SECTION E-E
NO SCALE



SECTION H-H
NO SCALE



WITHOUT FOOTING



WITH FOOTING

DRAINAGE DETAILS
1/2" = 1'-0"

NOTE:
BENDS AND JUNCTIONS IN 3" PLASTIC PIPE ARE 30" RADIUS MINIMUM

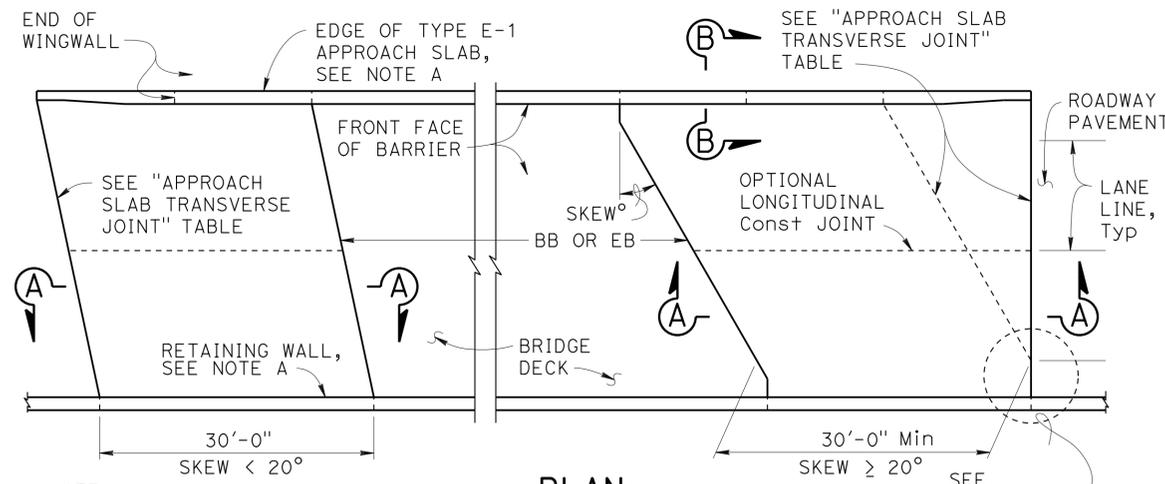
DESIGN	BY R. WANG	CHECKED E. MERCADO
DETAILS	BY H. MAHBOOBI	CHECKED E. MERCADO
QUANTITIES	BY E. MU	CHECKED B. GUNTER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 19

BRIDGE NO.	54-1282L
POST MILE	R105.9

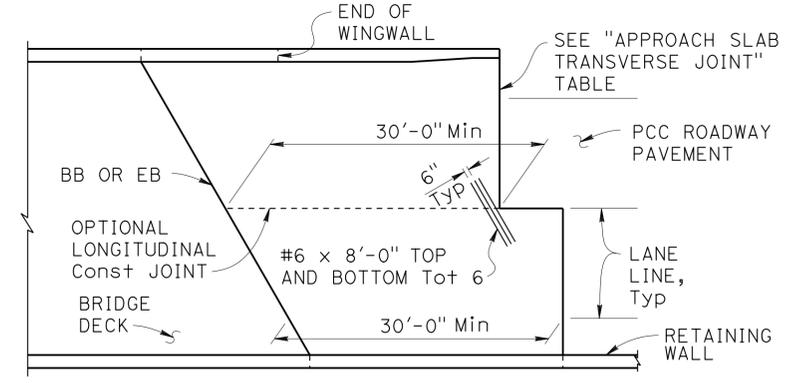
WATSON WASH BRIDGE - LEFT (REPLACE)
STRUCTURE APPROACH DRAINAGE DETAILS



PLAN
1" = 10'

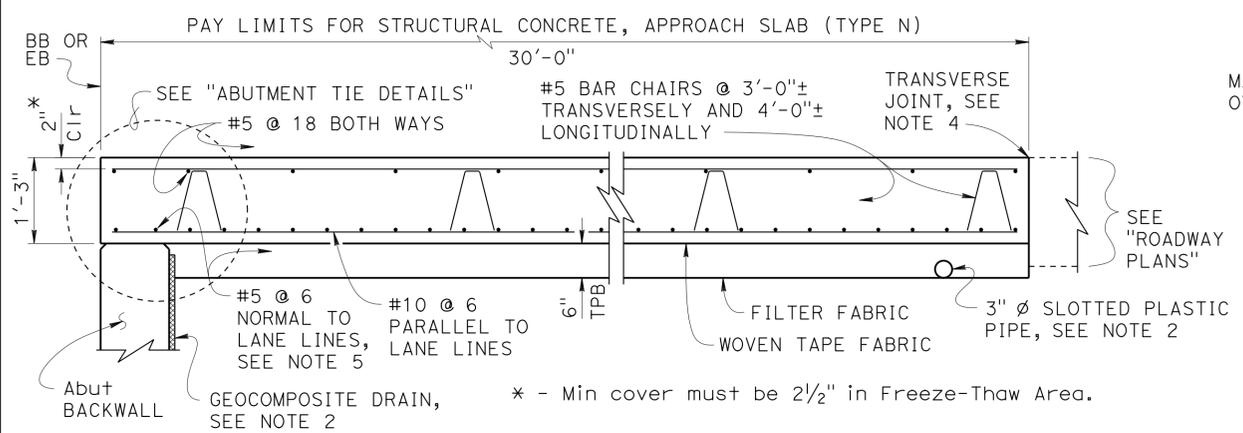
NOTE A:
Type E-1 Approach Slab shown, see "SECTION B-B" for Type E-2 details.

DETAIL A
No Scale

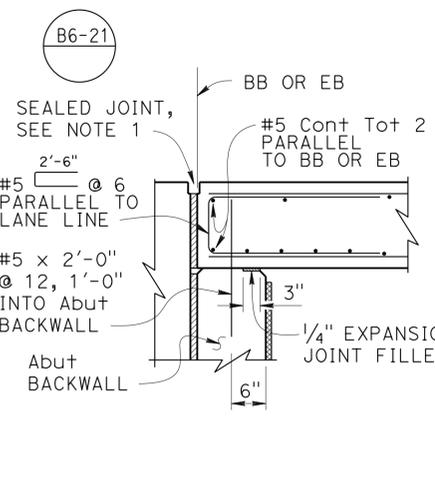


END STAGGER DETAIL
1" = 10'

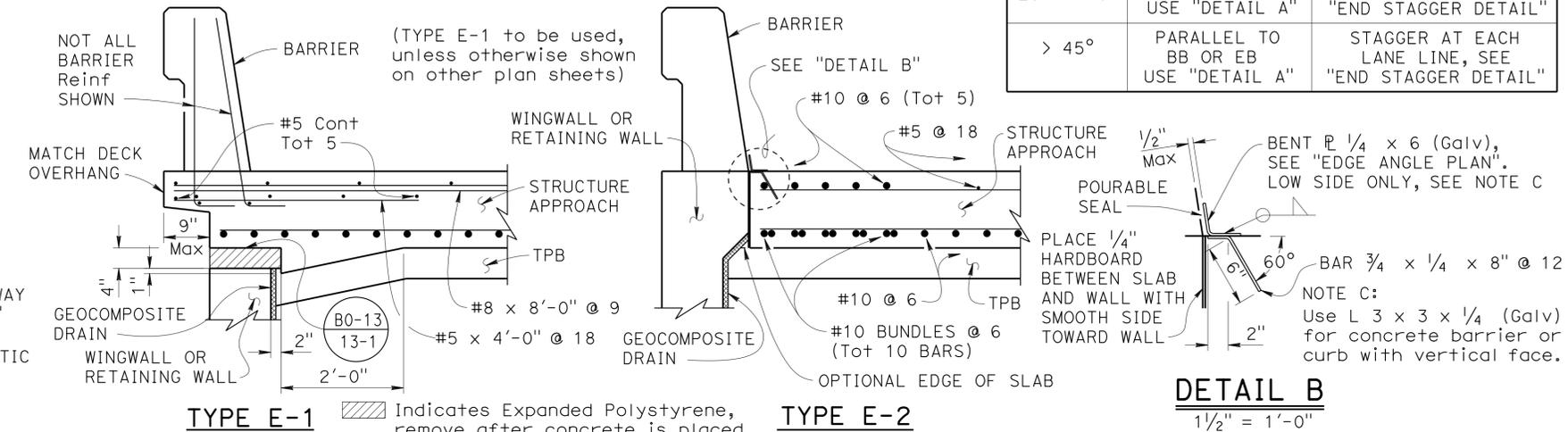
APPROACH SLAB TRANSVERSE JOINT		
APPROACH SKEW	WITH HMA ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO BB OR EB	PARALLEL TO BB OR EB
20° - 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT LANE LINES 24' TO 36' APART, SEE "END STAGGER DETAIL"
> 45°	PARALLEL TO BB OR EB USE "DETAIL A"	STAGGER AT EACH LANE LINE, SEE "END STAGGER DETAIL"



SECTION A-A
3/4" = 1'-0"



ABUTMENT TIE DETAILS
3/4" = 1'-0"

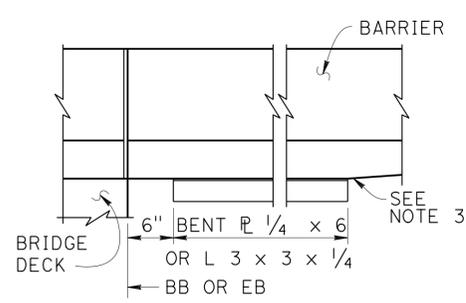


TYPE E-1

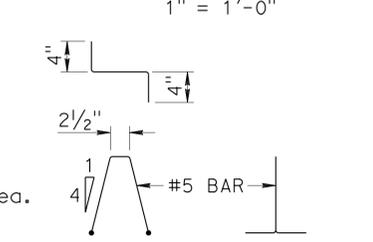
TYPE E-2

DETAIL B
1/2" = 1'-0"

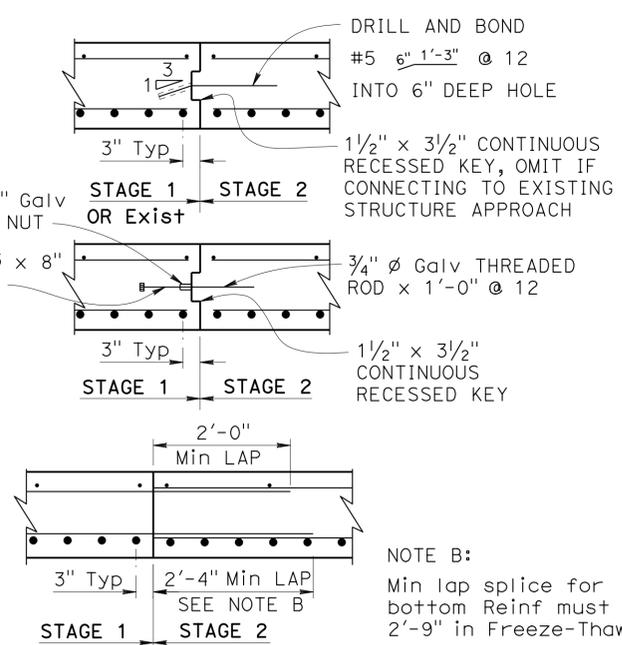
SECTION B-B
3/4" = 1'-0"



EDGE ANGLE PLAN
1" = 1'-0"



BAR CHAIR DETAIL
1" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES
3/4" = 1'-0"

NOTE B:
Min lap splice for bottom Reinf must be 2'-9" in Freeze-Thaw Area.

- DESIGN NOTES**
- DESIGN: AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014
- LIMIT STATES: Service I, Strength I & II, Extreme II and Fatigue I ($\gamma_{FAT} = 1.0$)
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOAD: HL93 and permit design load
Equivalent strip width method: $W_1 = 12$ ft
Slab span: $L_1 = 24.5$ ft
- REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

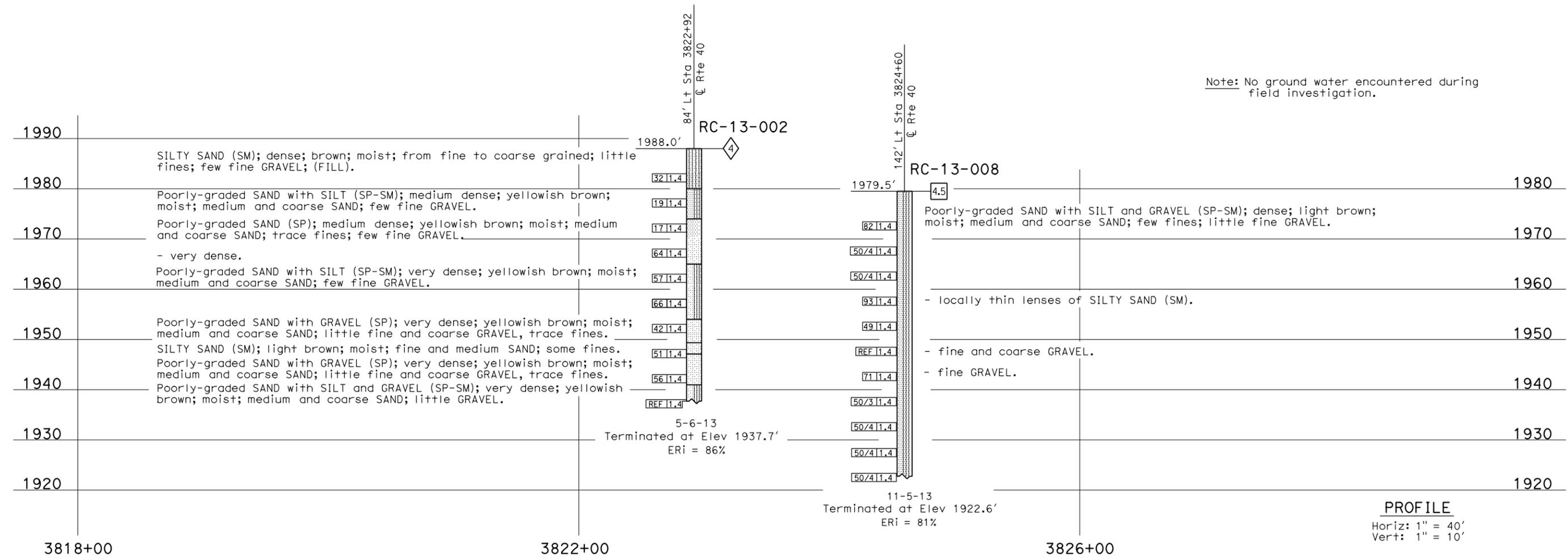
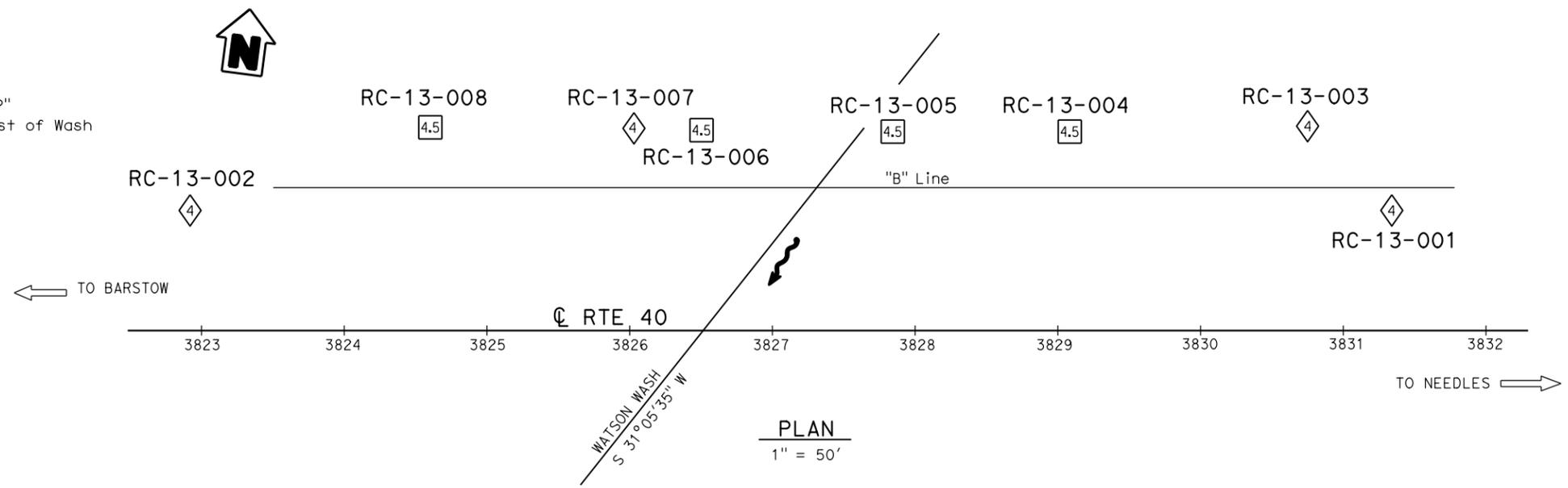
- NOTES:
- For joint protection details, breakout dimensions for joint seal assembly, and other details not shown, see other plan sheets. For $MR \leq 2'$, adjust reinforcement to clear sawcut for sealed joint. For $MR > 2'$, haunch reinforcement placed for joint seal assembly breakout must be normal to BB or EB and spaced to avoid joint seal assembly anchorage.
 - For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
 - End the plate or edge angle at beginning of barrier transition, end of wingwall, or end of structure approach as applicable.
 - Transverse joint must be a minimum of 5'-0" from an existing or constructed weakened plane joint in approach PCC roadway pavement. Refer to Standard Plans P10 and P14.
 - At the Contractor's option, approach slab transverse reinforcement may be placed parallel to BB or EB. Spacing of transverse reinforcement is measured along \mathcal{C} roadway.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	R105.2/R106.5	104	110
REGISTERED CIVIL ENGINEER			DATE	10-28-14	
6-25-15			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK
 BM "3817+94.16 POT @ IMP"
 Brass disk in median West of Wash
 Lat: 34.80973
 Lon: -115.21453
 Elev = 1974.67
 Datum: NGVD 29



Note: No ground water encountered during field investigation.

PROFILE
 Horiz: 1" = 40'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19		BRIDGE NO. 54-1282L POST MILE R105.9		WATSON WASH BRIDGE - LEFT (REPLACE) LOG OF TEST BORINGS 1 OF 7	
FUNCTIONAL SUPERVISOR NAME: M. DeSalvatore	DRAWN BY: F. Nguyen, W. Tang CHECKED BY: E. Neupert	FIELD INVESTIGATION BY: F. De Haro		UNIT: 3643 PROJECT NUMBER & PHASE: 0800020102 1		CONTRACT NO.: 08-0N5504		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 02-28-14 12-08-14 11-20-14	
O&S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		FILE => 54-12821-z-1otb_1of7.dgn		SHEET 25		OF 31	

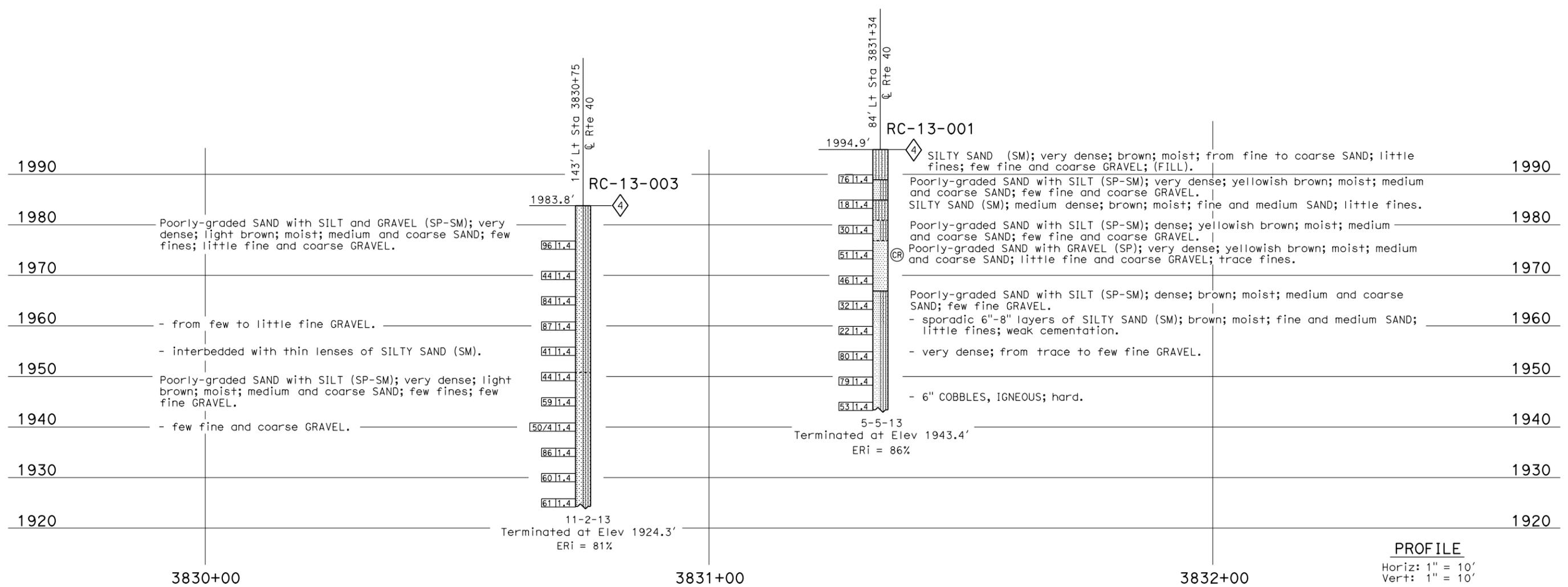
USERNAME => s125726 DATE PLOTTED => 24-NOV-2015 TIME PLOTTED => 16:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R105.2/R106.5	107	110
REGISTERED CIVIL ENGINEER			DATE	10-28-14	
PLANS APPROVAL DATE			6-25-15		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 7"



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19		BRIDGE NO. 54-1282L POST MILE R105.9		WATSON WASH BRIDGE - LEFT (REPLACE)	
FUNCTIONAL SUPERVISOR NAME: M. DeSalvatore		DRAWN BY: F. Nguyen CHECKED BY: XX		FIELD INVESTIGATION BY: F. DeHaro		PROJECT NUMBER & PHASE: 0800020102 1		CONTRACT NO.: 08-0N5504		LOG OF TEST BORINGS 4 OF 7	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3643		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 28 OF 31	
08 CIVIL LOG OF TEST BORINGS SHEET				FILE => 54-12821-2-lotb_4of7.dgn				02-08-14 11-28-14 12-08-14			

USERNAME => s125726 DATE PLOTTED => 24-NOV-2015 TIME PLOTTED => 16:07



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	170.4	51	53

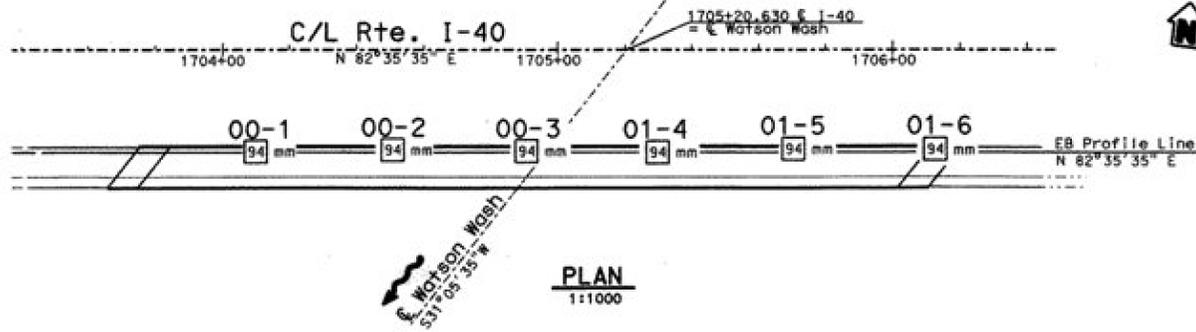
REGISTERED CIVIL ENGINEER
 2-28-02
 Mark Desalvatore
 No. 39499
 Exp. 12-31-05
 CIVIL
 STATE OF CALIFORNIA

BENCH MARK

TBM at B.B. Elev. 605.690 m
 Fd. nail in painted "+" at 39.18 m
 Rt. of Sta. 1164+87.63 C/L Rte. 40.

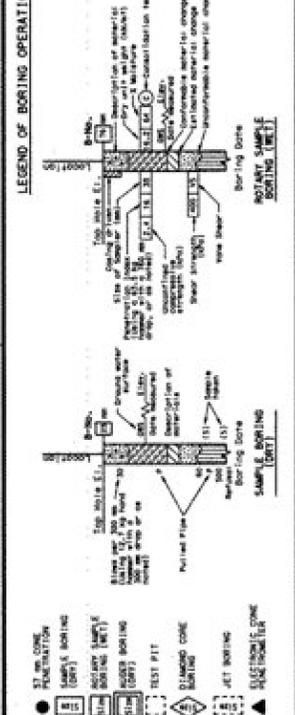
TBM at E.B. Elev. 607.420 m
 Fd. nail in painted "+" at 39.18 m
 Rt. of Sta. 1167+13.49 C/L Rte. 40.

HZ. Datum NAD83 meters
 VT. Datum NGVD29 meters



Note: No ground water encountered during field investigation.

LEGEND OF BORING OPERATIONS

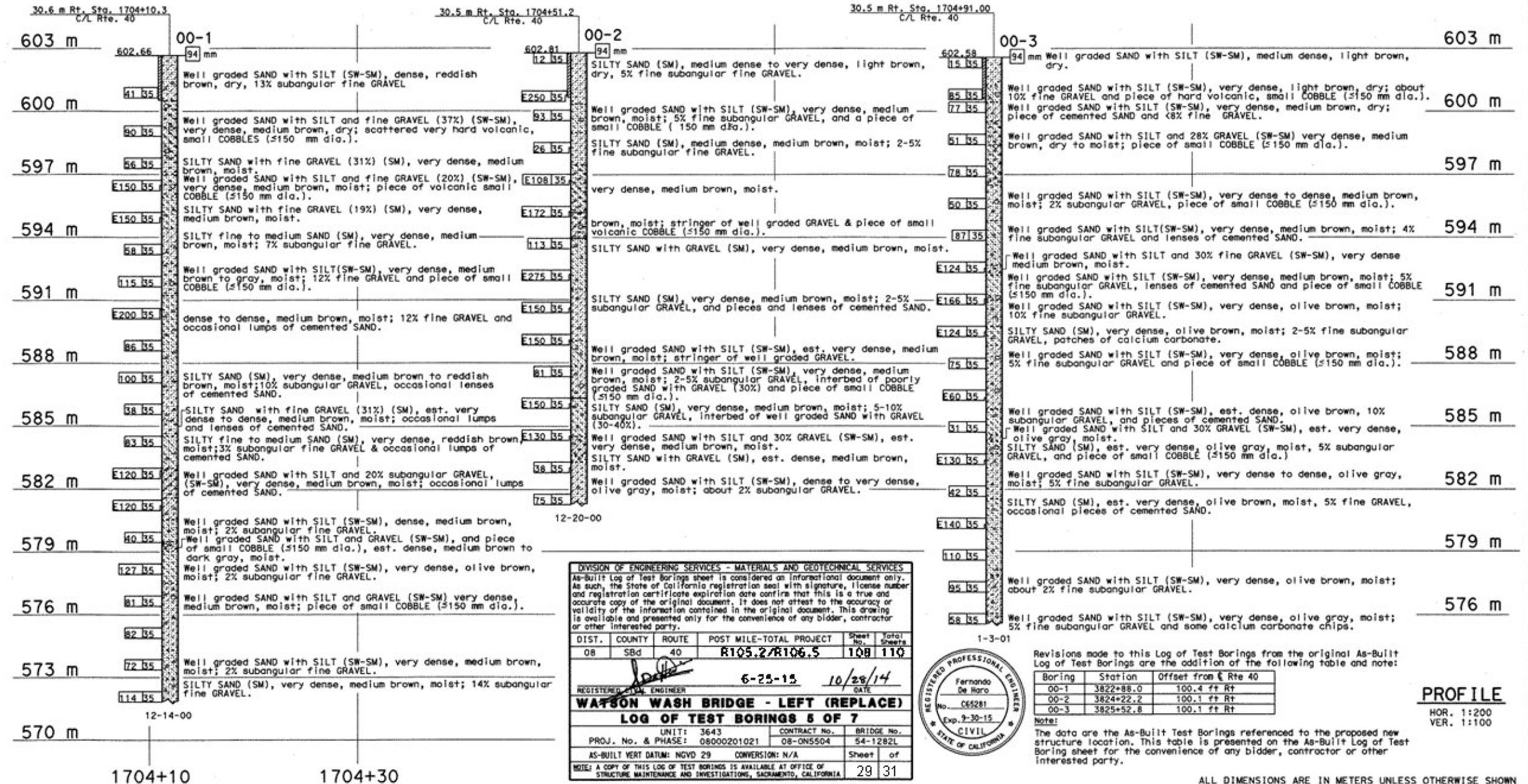


LEGEND OF EARTH MATERIALS

GRAVEL	CLAYEY SILT
SAND	CLAY
SILT	CLAYEY SAND
CLAY	SANDY CLAY
CLAYEY SAND	SANDY SILT
SANDY CLAY	SILT
SANDY SILT	CLAYEY SAND
SILT	SANDY CLAY
CLAYEY SAND	SANDY SILT
SANDY CLAY	SILT

CONSISTENCY CLASSIFICATION FOR SOILS

SPT Blows (60 mm)	Consistency
0-4	Very Loose
5-10	Loose
11-20	Medium Dense
21-30	Dense
31-50	Very Dense
50	Hard



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirms that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
08	SBd	40	R105.2/R106.5	108	110

REGISTERED CIVIL ENGINEER
 6-25-15 10/28/14
WATSON WASH BRIDGE - LEFT (REPLACE)
LOG OF TEST BORINGS 5 OF 7
 UNIT: 3643 CONTRACT No. BRIDGE No.
 PROJ. No. & PHASE: 08000201021 08-0N5504 54-1282L
 AS-BUILT VERT DATUM: NGVD 29 CONVERSION: N/A Sheet of
 NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA 29 31



Revisions made to this Log of Test Borings from the original As-Built Log of Test Borings are the addition of the following table and note:

Boring	Station	Offset from C/L Rte 40
00-1	3822+88.0	100.4 ft Rt
00-2	3824+22.2	100.1 ft Rt
00-3	3825+52.8	100.1 ft Rt

Note:
 The data are the As-Built Test Borings referenced to the proposed new structure location. This table is presented on the As-Built Log of Test Boring sheet for the convenience of any bidder, contractor or other interested party.

PROFILE
 HOR. 1:200
 VER. 1:100

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

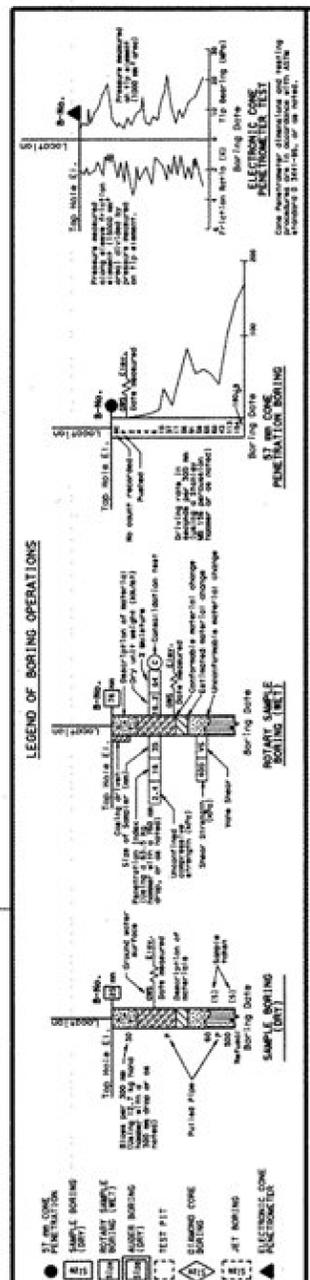
ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY: F. Gerami	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 54-0805R	WATSON WASH BRIDGE RIGHT (REPLACEMENT)
DRAWN BY I. G-Remmen 2/01 / F. Nguyen 3/01	CHECKED BY F. Gerami 3/01, 12/3/01				KILOMETER POST R170.37	LOG OF TEST BORINGS 1 OF 3
OSF GEOLOGIST LOG OF TEST BORINGS SHEET (METRIC) (REV. 1/25/00)			ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100	CU 08-108 EA 483731	REVISION DATES (PRELIMINARY STAGE ONLY) 2/01 11/01 11/01 11/01 11/01 2/04	SHEET OF



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	40	170.4		52	53

REGISTERED CIVIL ENGINEER
 2-28-02
 Mark Desalvatore
 No. 39499
 Exp. 12-31-05
 CIVIL
 STATE OF CALIFORNIA

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3



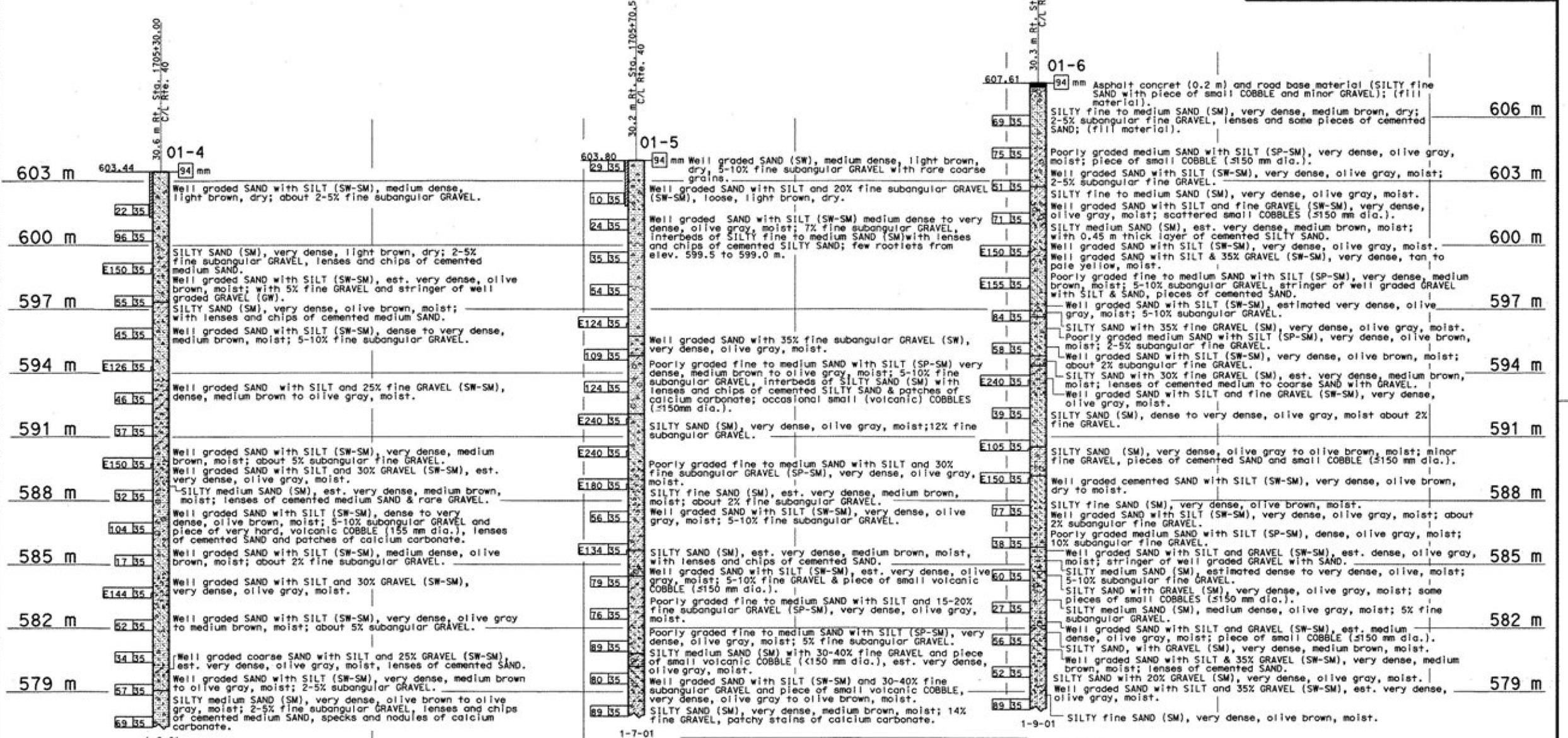
LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Proctor Test

SPPT (Blow Count)	Consistency
0-4	Very Loose
5-10	Loose
11-20	Medium Dense
21-30	Dense
31-50	Very Dense
50	Hard

NOTE: Classification of earth materials shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

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DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
08	Sbd	40	R105.2/R106.5	109	110

REGISTERED CIVIL ENGINEER
 6-25-15
 10/25/14
WATSON WASH BRIDGE - LEFT (REPLACE)
LOG OF TEST BORINGS 6 OF 7
 UNIT: 3643 CONTRACT No. BRIDGE No.
 PROJ. No. & PHASE: 08000201021 08-0N5504 54-1282L
 AS-BUILT VERT DATUM: NGVD 09 CONVERSION: N/A Sheet of
 NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA 30 31



Revisions made to this Log of Test Borings from the original As-Built Log of Test Borings are the addition of the following table and note:

Boring	Station	Offset from Rte 40
01-4	3826+80.7	100.4 ft Rt
01-5	3828+13.6	99.1 ft Rt
01-6	3829+53.1	99.4 ft Rt

Note:
The data are the As-Built Test Borings referenced to the proposed new structure location. This table is presented on the As-Built Log of Test Boring sheet for the convenience of any bidder, contractor or other interested party.

ENGINEERING SERVICE CENTER **STRUCTURE FOUNDATIONS** FIELD INVESTIGATION BY: F. Gerami

DRAWN BY: I. G-Remmen 2/01 / F. Nguyen 3/01
 CHECKED BY: F. Gerami 3/01, 12/3/01

BRIDGE NO. 54-0805R **WATSON WASH BRIDGE RIGHT (REPLACEMENT)**

KILOMETER POST R170.37 **LOG OF TEST BORINGS 2 OF 3**

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
2-28-02		

