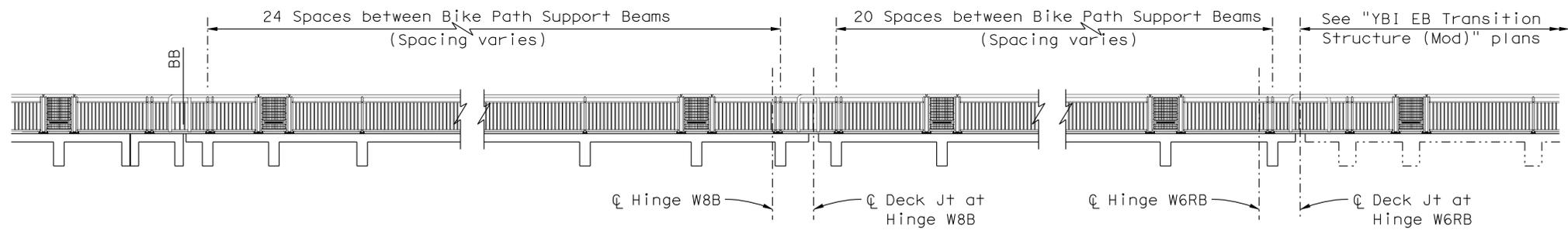


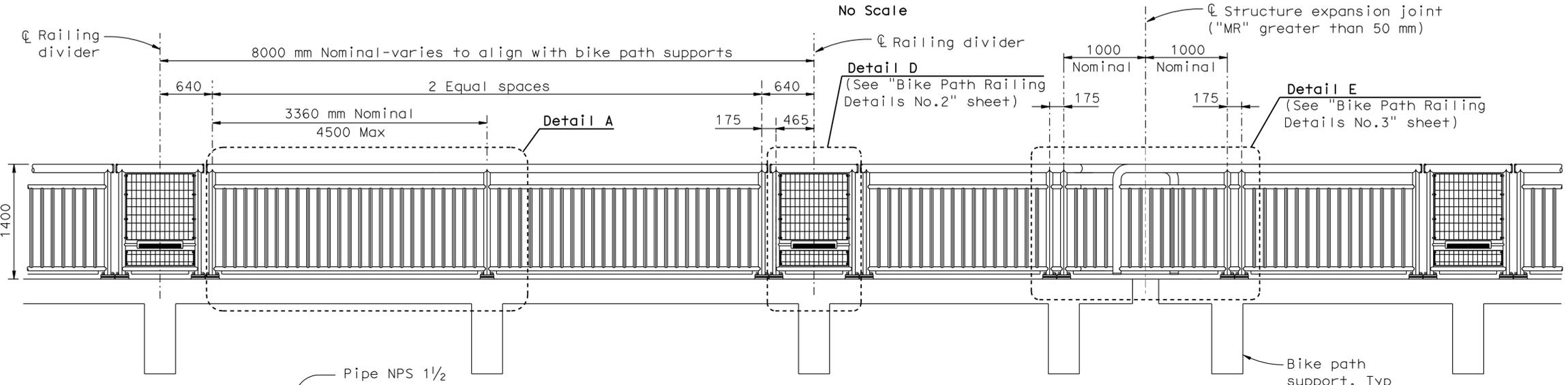


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	701	821
			11-08-11		
REGISTERED ENGINEER - CIVIL					
2-21-12					
PLANS APPROVAL DATE					
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T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105					



BIKE PATH RAILING LAYOUT

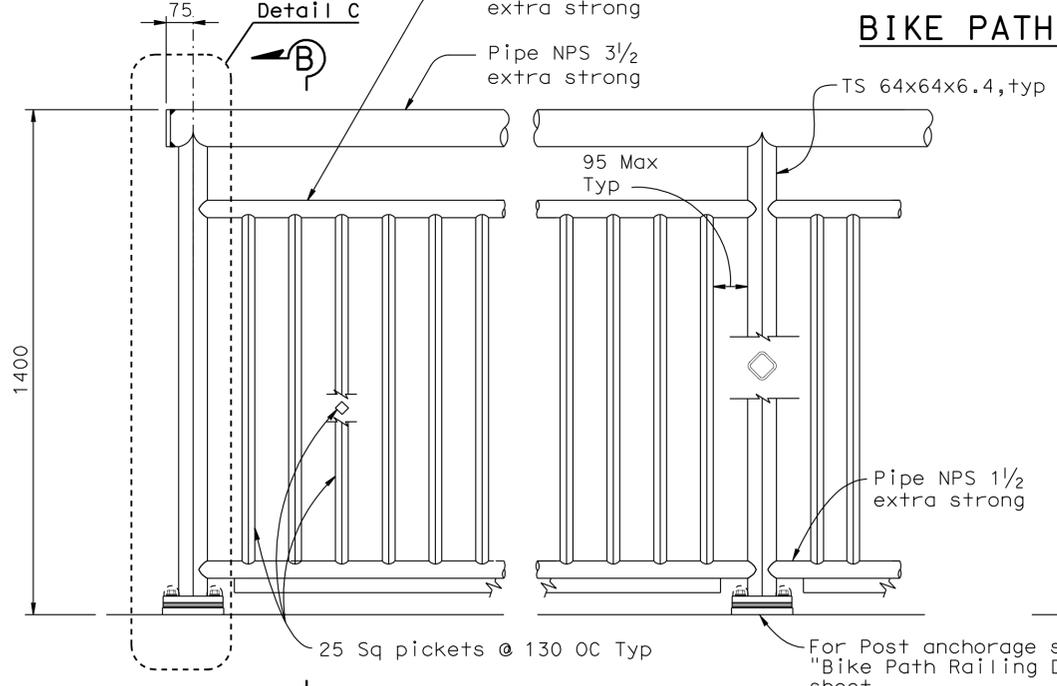
No Scale



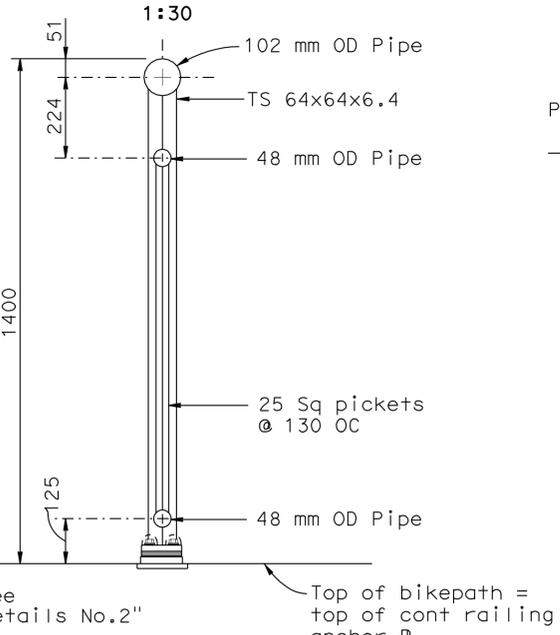
BIKE PATH RAILING-TYPICAL ELEVATION

NOTES:

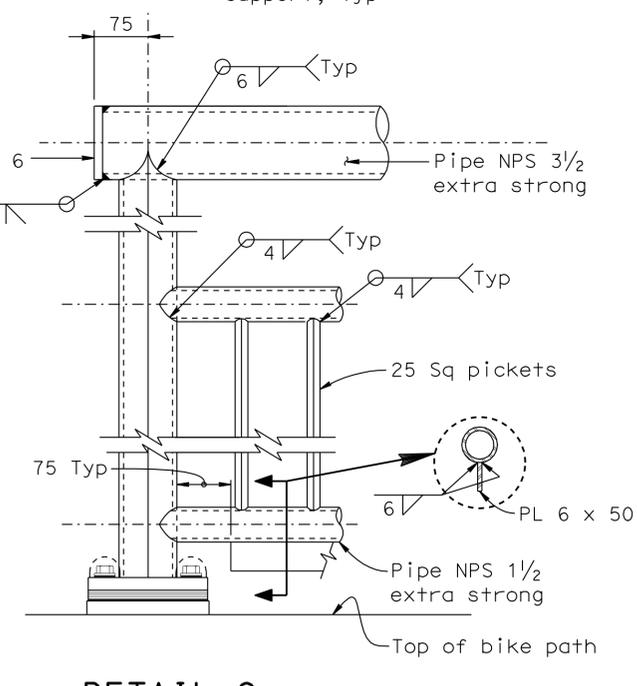
- All metal (except stainless steel) parts of railing assembly including grill shall be coated
- Railing posts shall conform to ASTM A500 Grade C (Fy=345MPa).
- Railing shall conform to vertical and horizontal alignment of bike path.
- Posts and pickets shall be perpendicular to the profile grade of the bikepath and vertical to the cross-slope of the bikepath. Rails shall be parallel to top of bikepath. Railing grill vertical bars shall be parallel to railing posts and grill horizontal bars shall be parallel to rails.
- Rails shall be shop bent or fabricated to fit horizontal curve when radius is less than 300 m.
- All exposed welds shall be ground smooth.
- Expansion joints shall be located in the railing panel spanning deck or wall joints, see "Bike Path Railing Details No.3" sheet.
- Emergency gate access shall be provided thru the inside bike path railing (railing located nearest roadway) at intervals not exceeding 80 m.
- Welding to stainless steel shall be in accordance with AWS D1.6-1999.
- Shim stack beneath post base plate to be adjusted during installation as required to maintain railing alignment. Full width galv steel shims shall be utilized, tapered as necessary to maintain post verticality.



DETAIL A
1:10



SECTION B-B
1:10



DETAIL C
1:5

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT		BRIDGE NO. 34-0006 S	YBI EB ON-RAMP STRUCTURE (FINAL) BIKE PATH RAILING DETAILS NO.1
DESIGNED BY: Chou CHECKED: Atiqullah DETAILS BY: van Ryn/Zucchi/Mai CHECKED: Chou QUANTITIES BY: Chou CHECKED: Liao		PROJECT ENGINEER Jal Birdy	

DESIGN OVERSIGHT
Juan F. Carpio
JUAN F. CARPIO, JASON FAN
SIGN OFF DATE

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 7/14/13 1/28/14 11/28/14	36	61



CU 04251
EA 0120T1

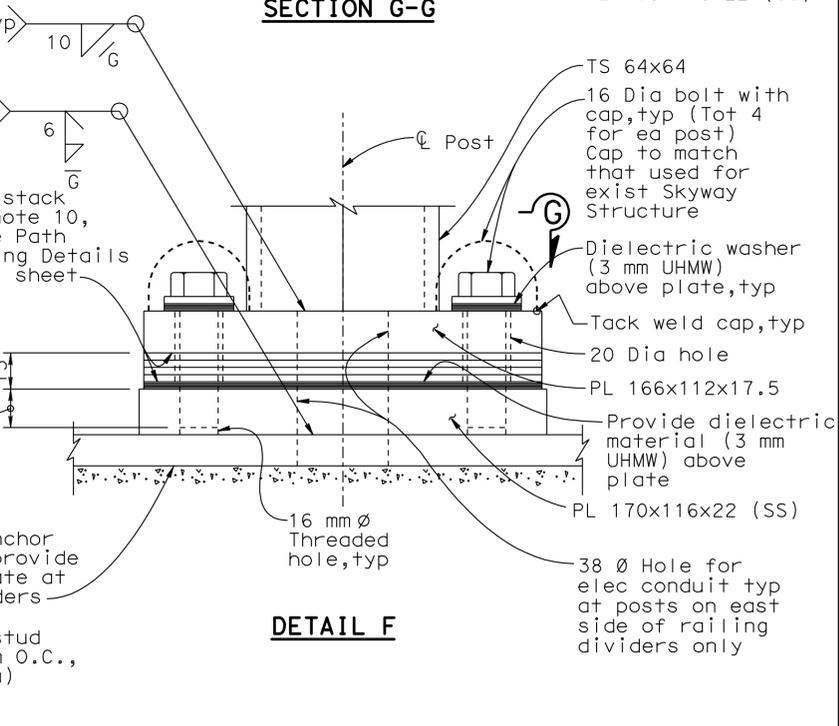
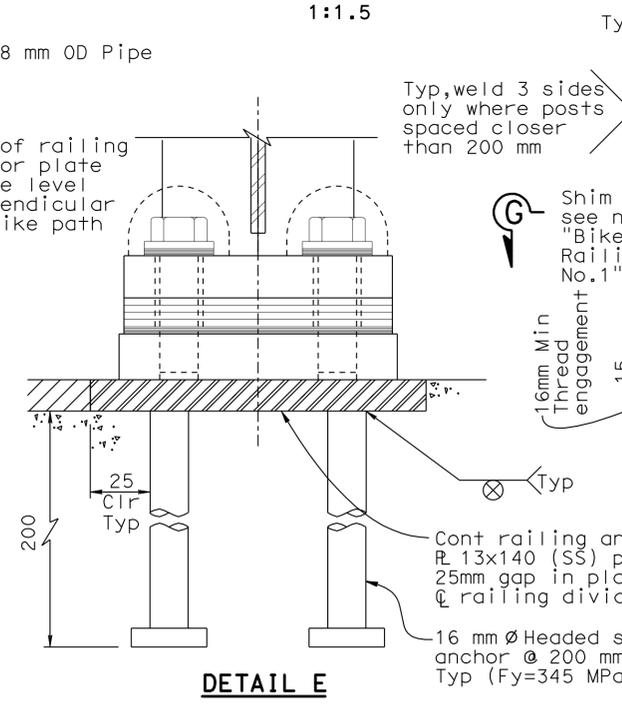
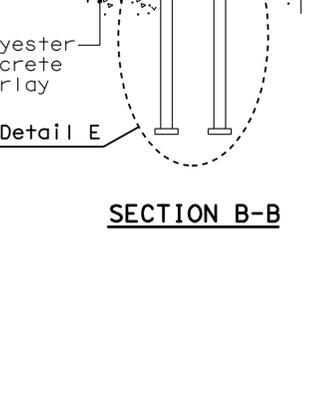
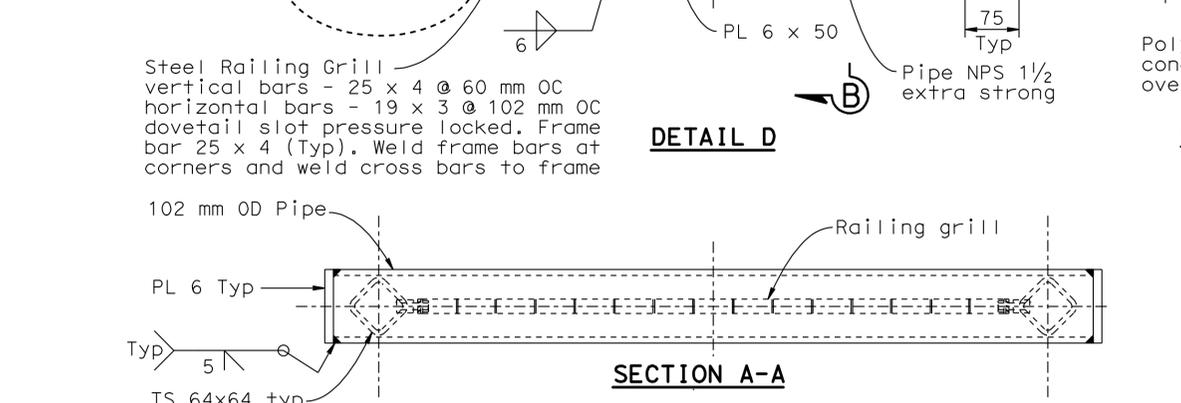
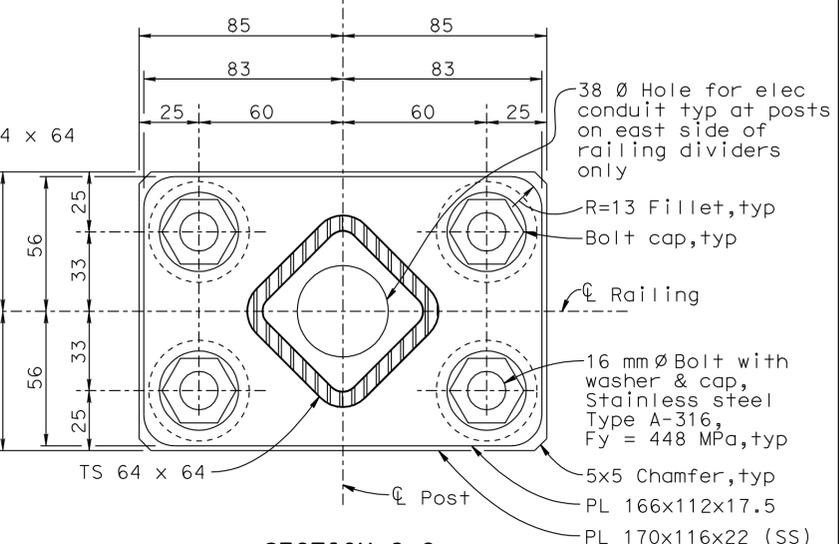
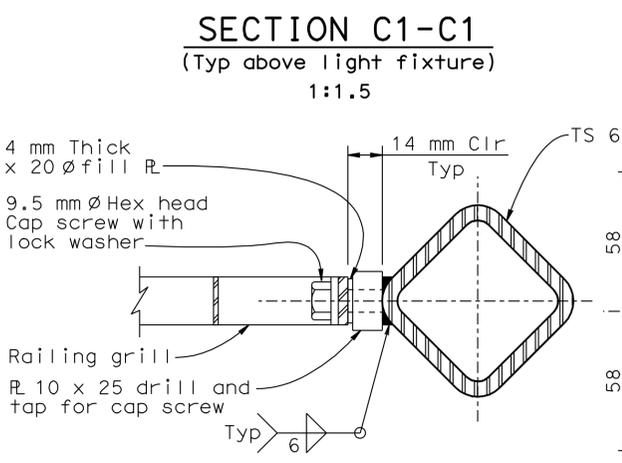
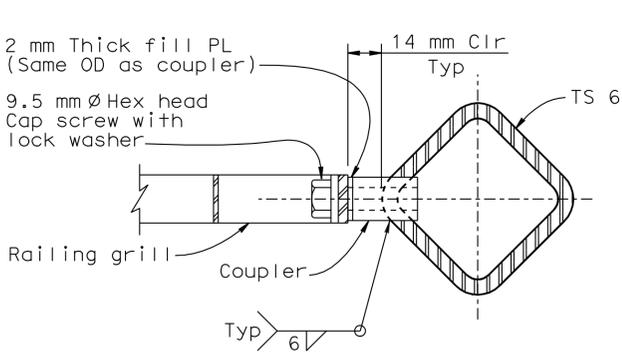
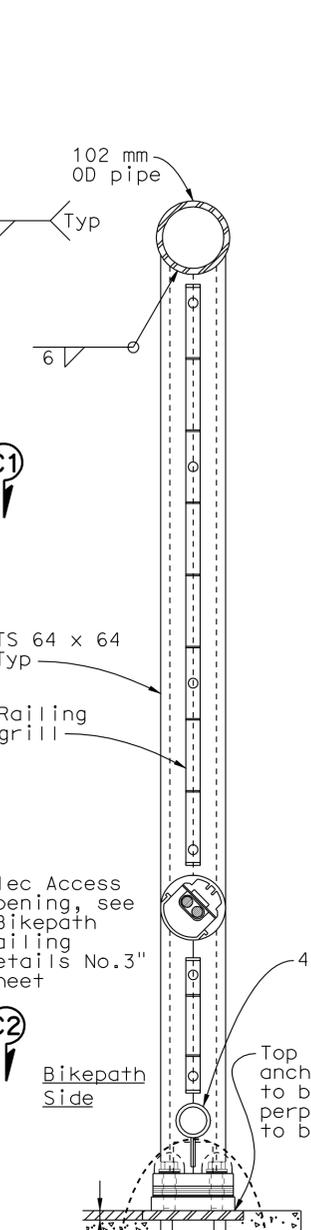
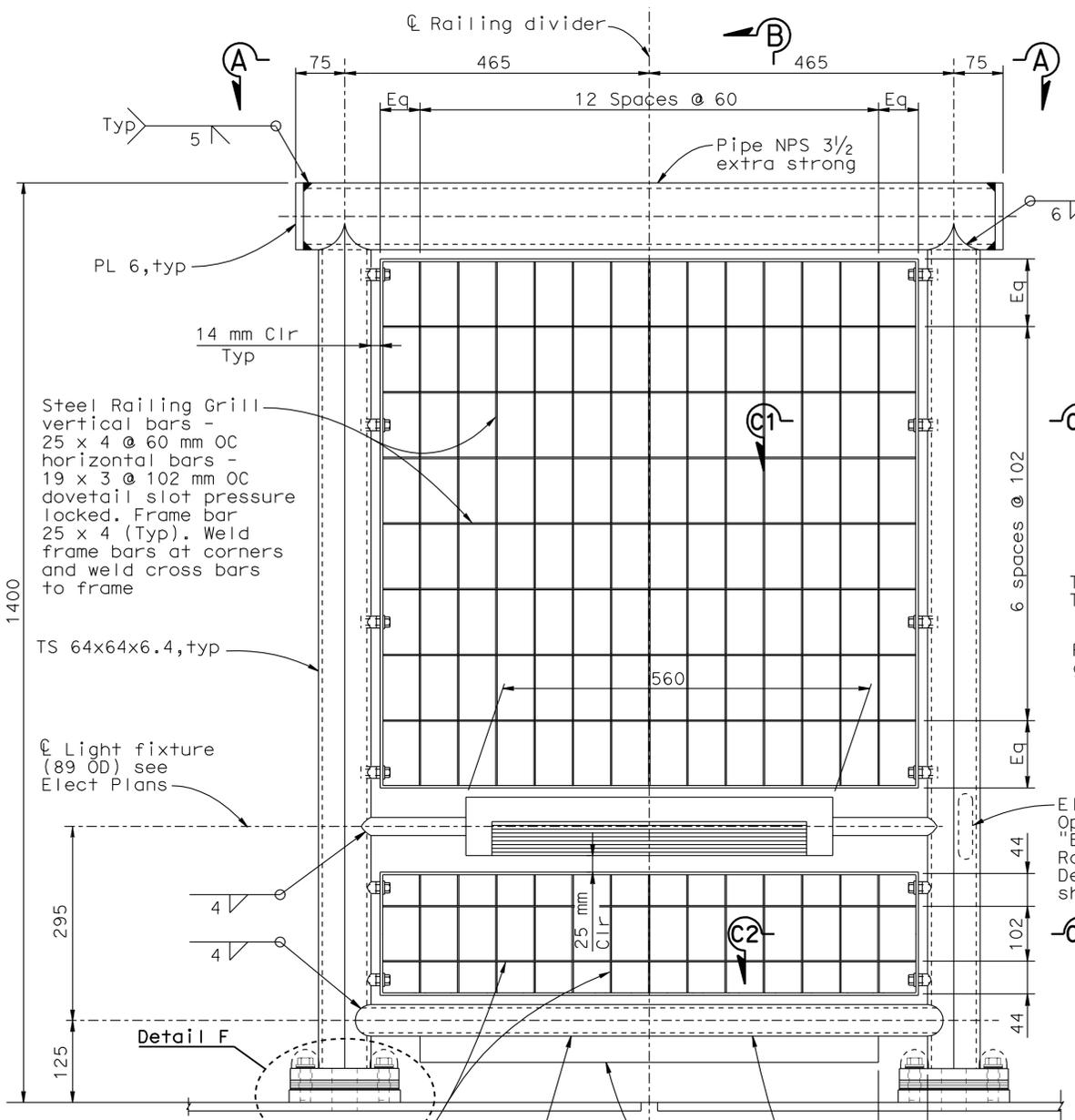
DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => 8124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 07:06



DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9		702	821

REGISTERED ENGINEER - CIVIL	11-08-11
2-21-12	PLANS APPROVAL DATE
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T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105	



TYPICAL RAILING DIVIDER
1:5

TYPICAL POST ANCHORAGE
1:1.5

DESIGN OVERSIGHT
Juan F. Carpio
 JUAN F. CARPIO, JASON FAN
 SIGN OFF DATE

DESIGN	BY Chou	CHECKED Atiqullah
DETAILS	BY van Ryn/Zucchi/Mai	CHECKED Chou
QUANTITIES	BY Chou	CHECKED Liao

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH RAILING DETAILS NO.2

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS
 0 10 20 30 40 50 60 70 80 90 100

CU 04251
 EA 0120T1

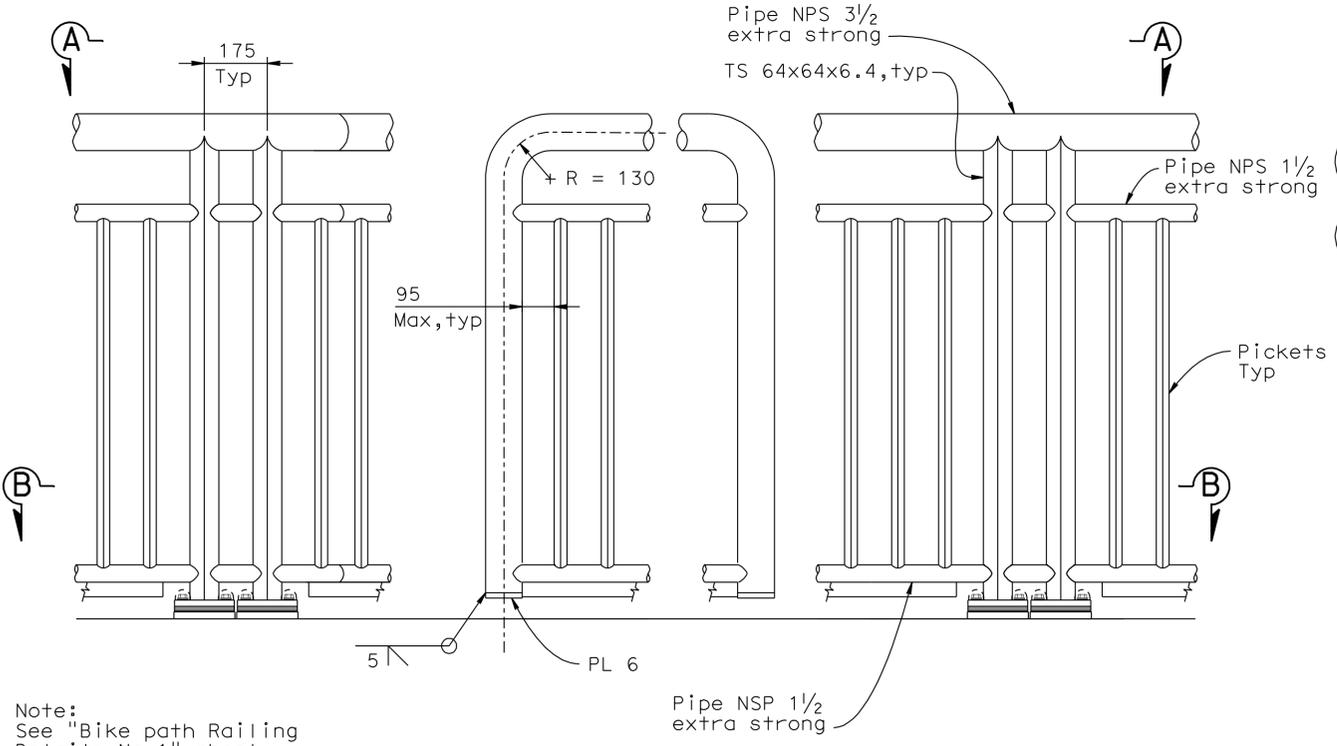
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	1/8/11 1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 2/14/13 1/28/16 11/28/16 12/28/16	37	61

DATE PLOTTED => 25-FEB-2012 USERNAME => S124496



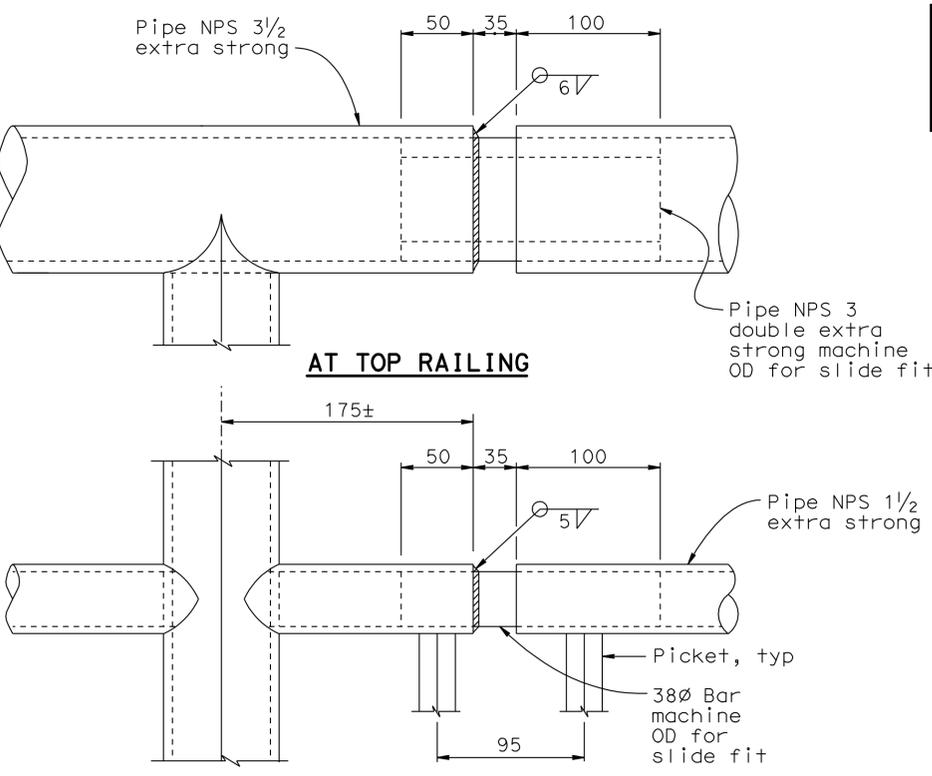
DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO.	SHEET NO.	TOTAL SHEETS
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11-08-11
 REGISTERED ENGINEER - CIVIL
 2-21-12
 PLANS APPROVAL DATE
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105

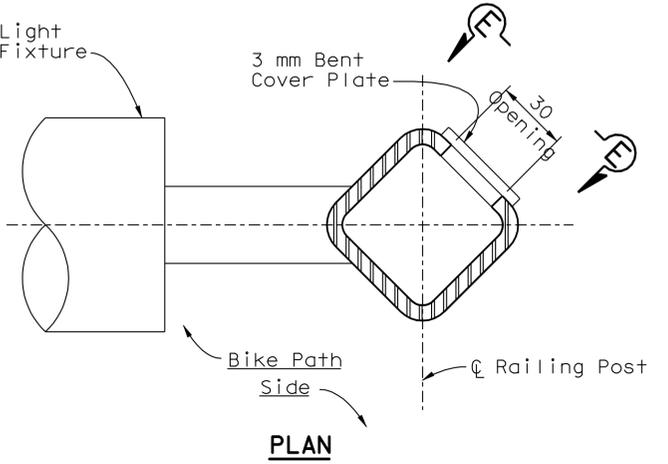


DETAIL E

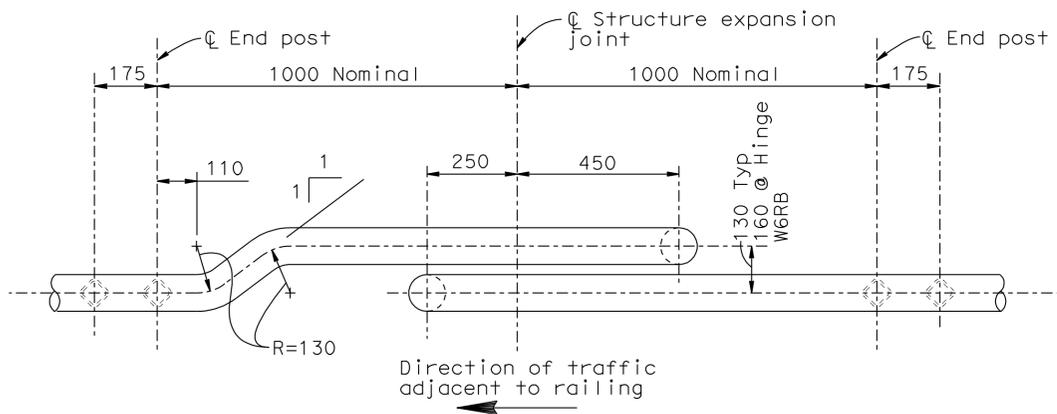
Note:
See "Bike path Railing Details No.1" sheet for additional details.



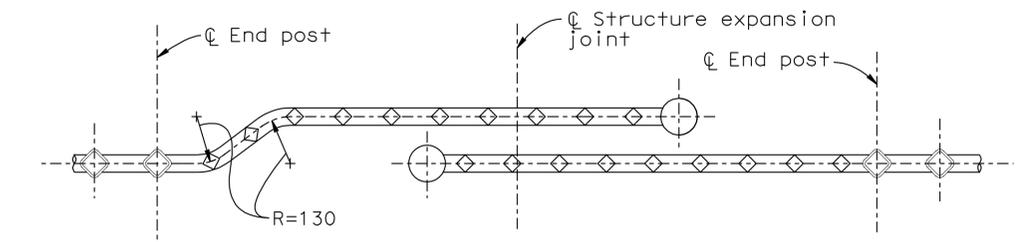
AT INTERMEDIATE AND BOTTOM RAILING
RAILING EXPANSION JOINT DETAILS MR ≤ 50
 "For use at structure expansion joints with "MR" equal to or less than 50 mm)
 1:2.5



PLAN



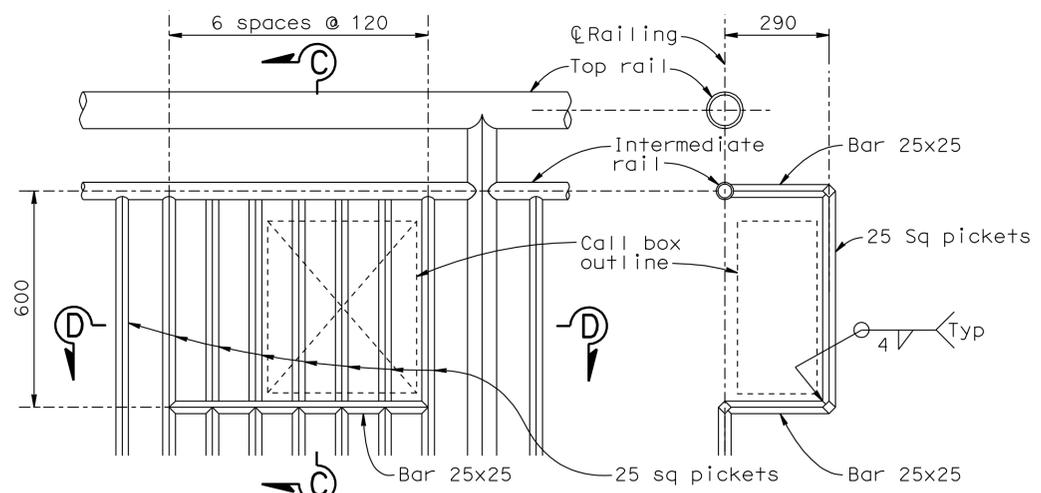
SECTION A-A



SECTION B-B

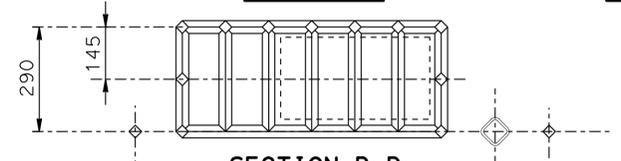
RAILING EXPANSION JOINT DETAILS MR > 50

(For use at structure expansion joints with "MR" greater than 50 mm)
 1:10



ELEVATION

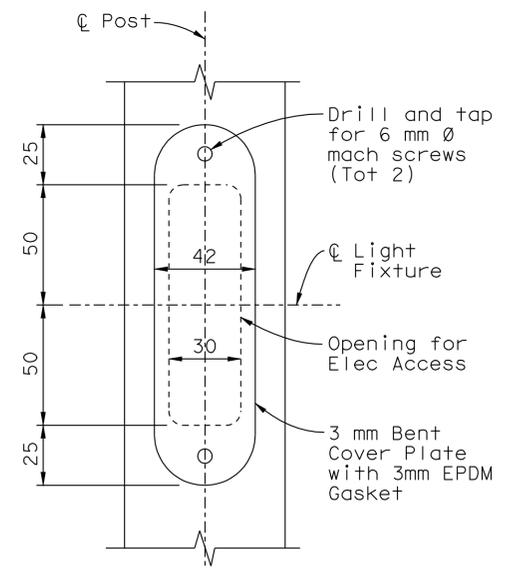
SECTION C-C



SECTION D-D

CALL BOX MOUNTING DETAIL

1:10



SECTION E-E

ELECTRICAL ACCESS OPENING AT BIKEPATH LIGHT FIXTURE

(Required at Posts on east side of Railing Dividers only)
 1:1.5

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
Juan F. Carpio Jason Fan
 JUAN F. CARPIO, JASON FAN
 SIGN OFF DATE

DESIGN	BY Chou	CHECKED Atiqullah
DETAILS	BY van Ryn/Zucchi/Mai	CHECKED Chou
QUANTITIES	BY Chou	CHECKED Liao

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH RAILING DETAILS NO.3

Rev. Date: 5-18-98



CU 04251
 EA 0120T1

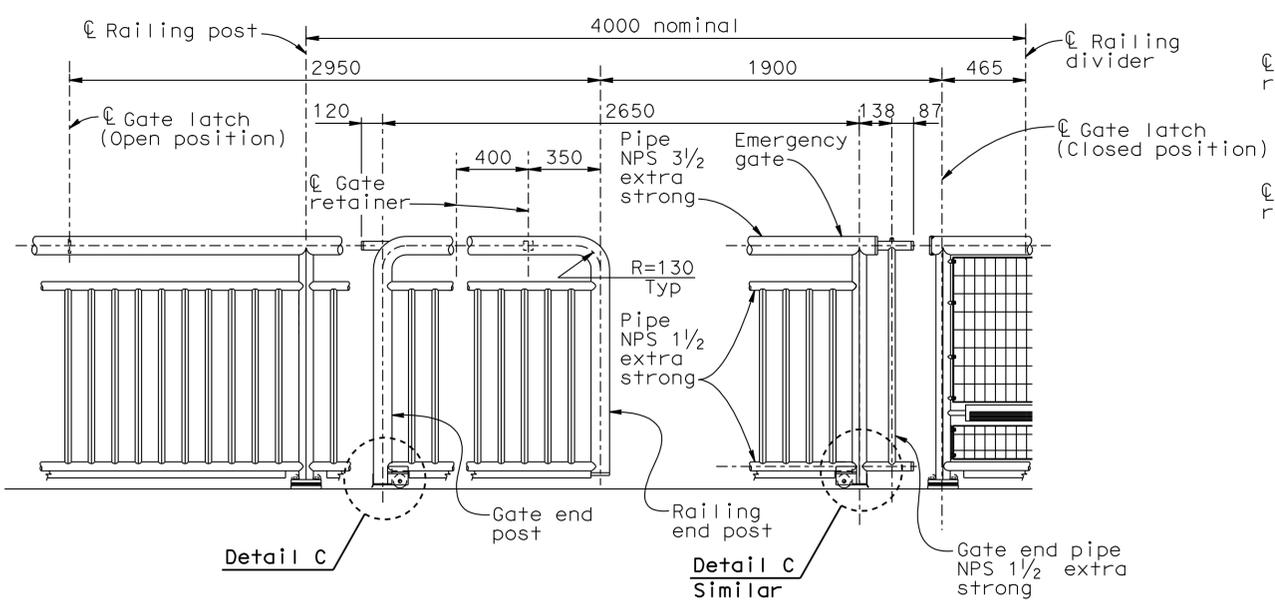
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	1/8/11 1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 2/14/13 1/28/13 11/28/10 12/28/10	38	61

USERNAME => S124496 DATE PLOTTED => 25-FEB-2012 TIME PLOTTED => 07:06

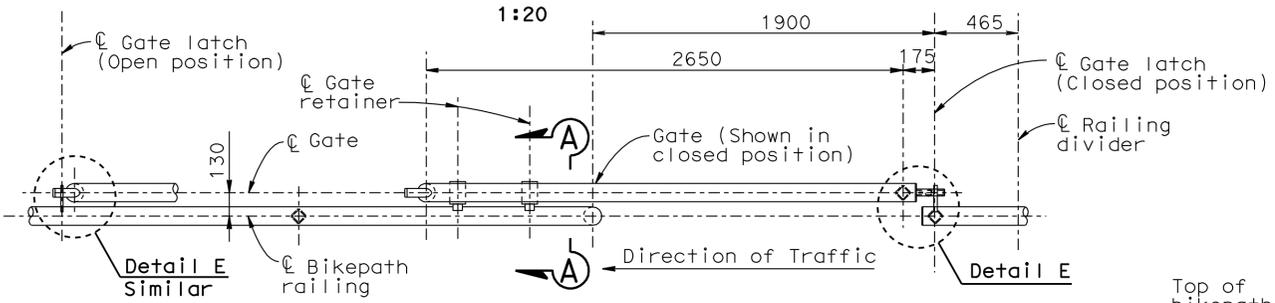


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	704	821

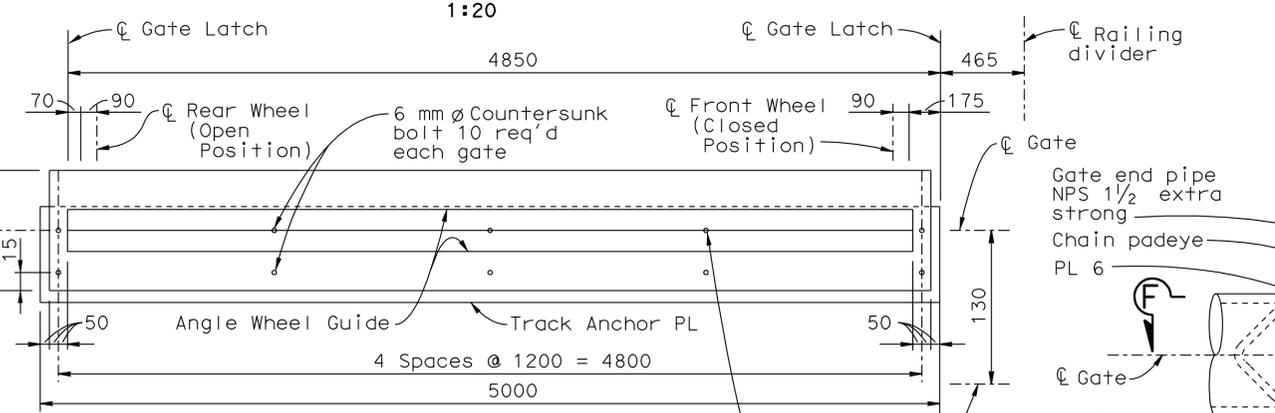
REGISTERED ENGINEER - CIVIL 11-08-11 2-21-12 PLANS APPROVAL DATE	
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T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105	



ELEVATION - EMERGENCY GATE
1:20

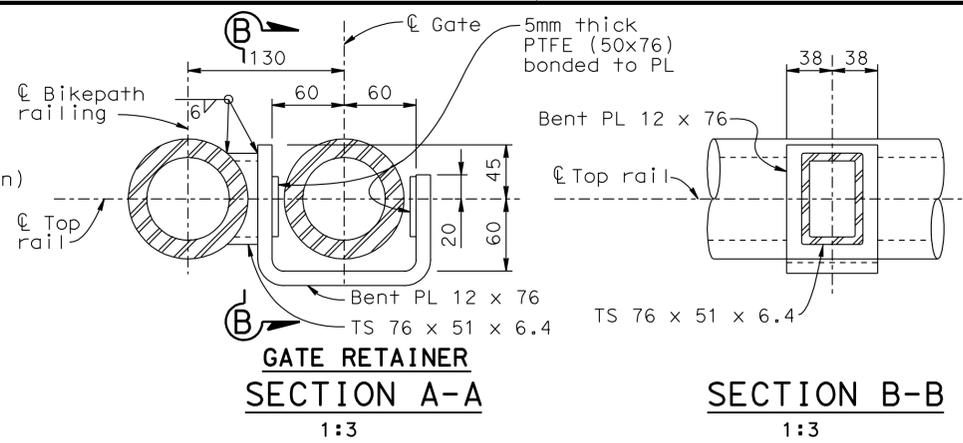


PLAN AT TOP RAIL
1:20



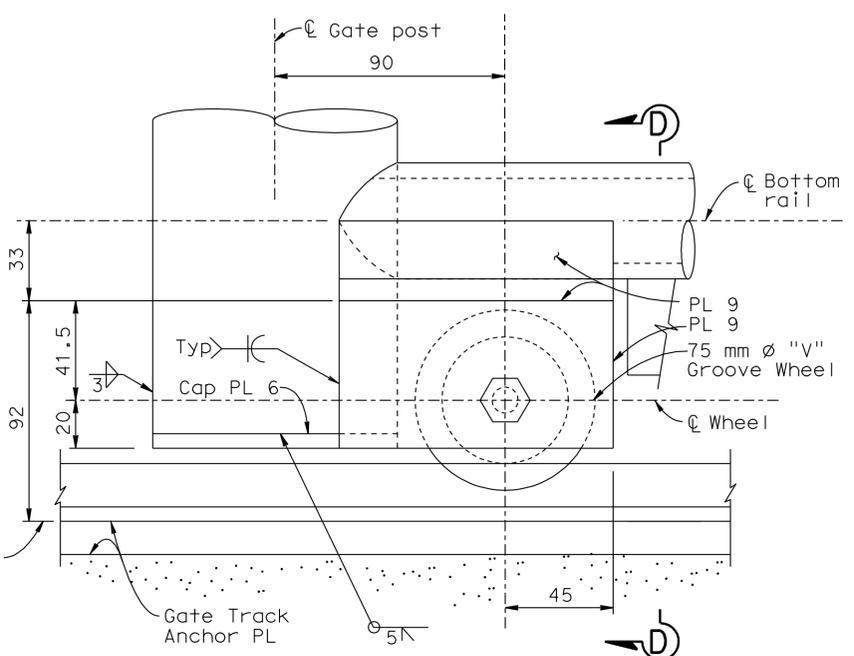
PLAN AT GATE TRACK
No Scale

Provide Access Opening in angle to install bolts patch and grind smooth after installation

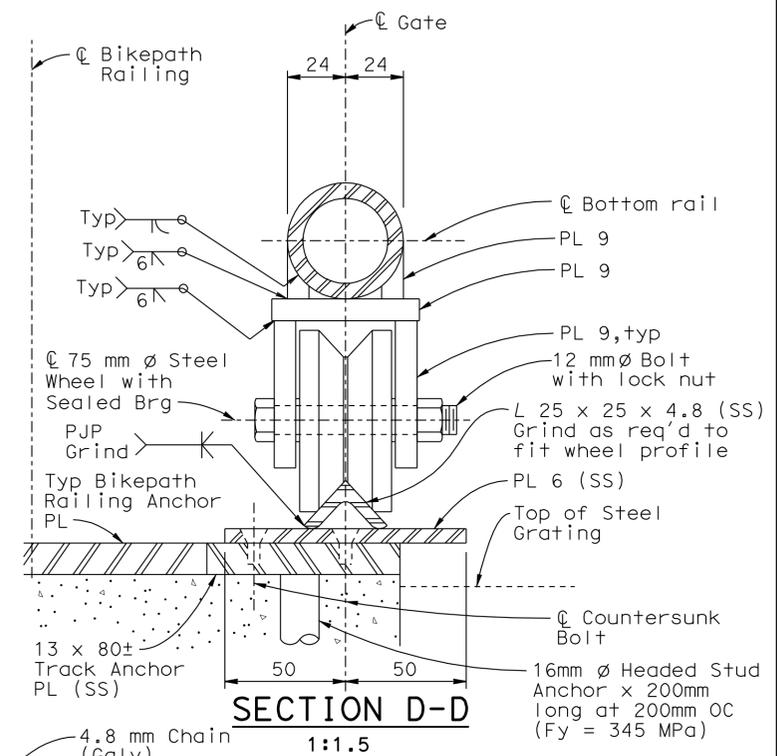


GATE RETAINER SECTION A-A
1:3

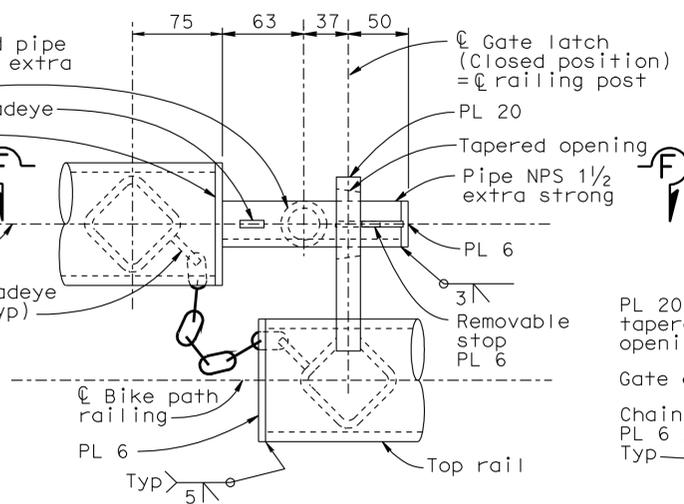
SECTION B-B
1:3



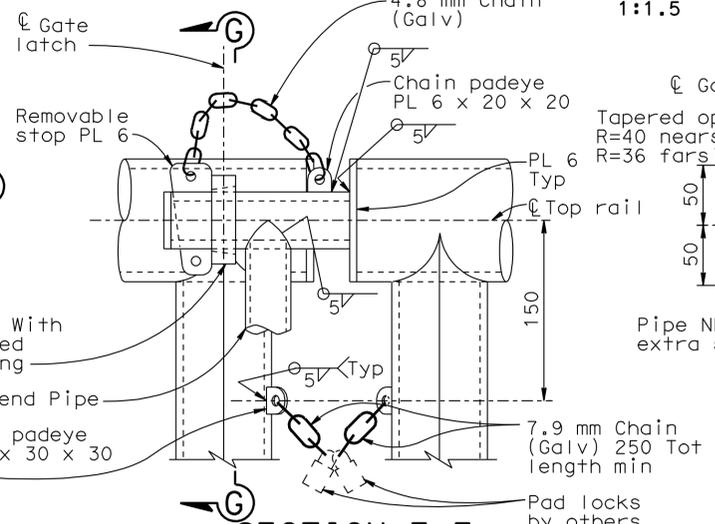
DETAIL C
1:1.5



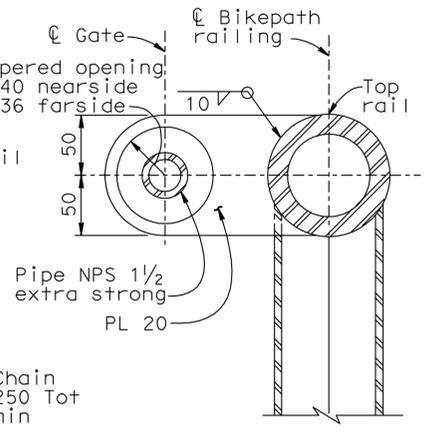
SECTION D-D
1:1.5



DETAIL E
1:3



SECTION F-F
1:3



SECTION G-G
1:3

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

 JUAN F. CARPIO, JASON FAN
 SIGN OFF DATE

DESIGN	BY Chou	CHECKED Atiqullah
DETAILS	BY van Ryn/Zucchi/Mai	CHECKED Chou
QUANTITIES	BY Chou	CHECKED Liao

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH RAILING DETAILS NO.4

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04251
 EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	1/8/11 1/24/11 10/24/11 3/14/12 3/28/12 5/28/12 2/14/13 1/28/16 11/28/10 12/28/10	39	61

Begin Bike Path Fence Sta 52+01.253

Deck Jt at Hinge W8B

20 Spaces between Bike Path Support Beams (Spacing varies)

See "YBI EB Transition Structure (Mod)" Plans

Deck Jt at Hinge W6RB



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	705	821

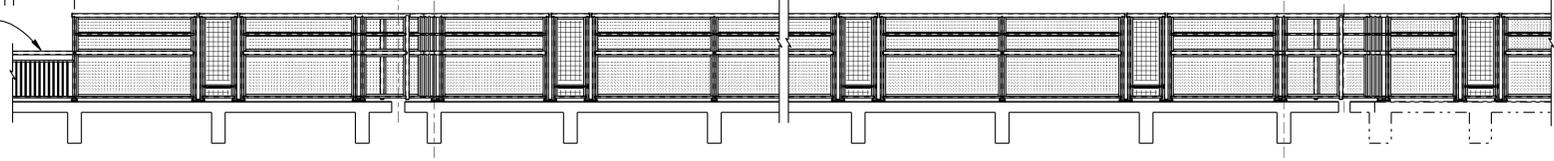
11-08-11
REGISTERED ENGINEER - CIVIL

2-21-12
PLANS APPROVAL DATE

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T.Y. LIN / MOFFATT & NICHOL
TWO HARRISON STREET
SAN FRANCISCO, CA 94105

Bike Path Railing



BIKE PATH FENCE LAYOUT (REFLECTED)

No Scale

Structure Exp Jt ("MR" greater than 50 mm)

Detail A, see "Bike Path Fence Details No.2" sheet

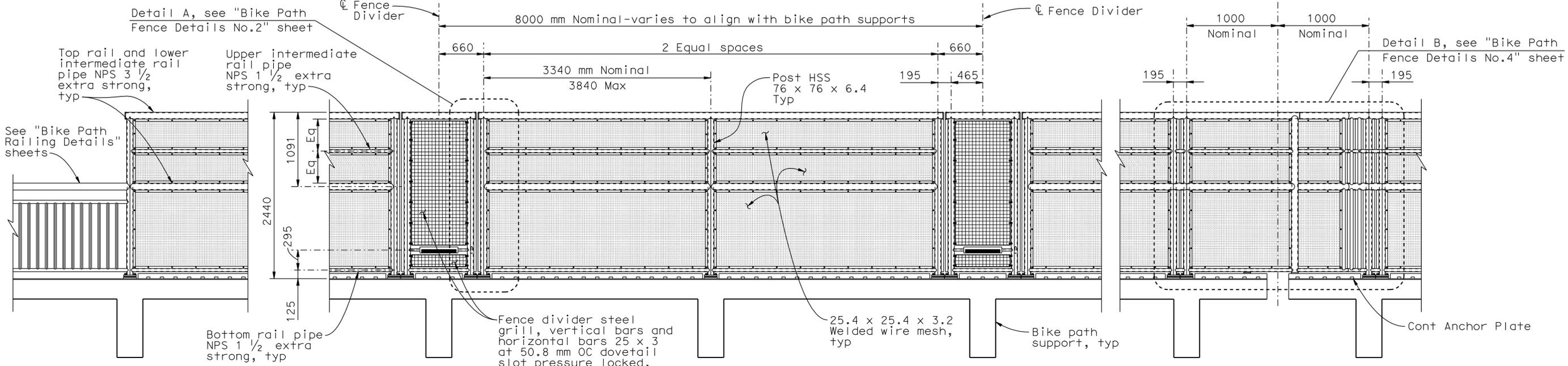
Fence Divider

8000 mm Nominal-varies to align with bike path supports

Fence Divider

1000 Nominal 1000 Nominal

Detail B, see "Bike Path Fence Details No.4" sheet



BIKE PATH FENCE - TYPICAL ELEVATION (REFLECTED)

1:30

NOTES:

- All metal (except stainless steel) parts of fence assembly shall be painted. Stainless steel not to be painted unless otherwise noted.
- Fence posts shall conform to ASTM A500 Grade C (Fy=345MPa).
- Fence shall conform to vertical and horizontal alignment of bike path.
- Posts shall be perpendicular to the profile grade of the bikepath and vertical to the cross-slope of the bikepath. Rails shall be parallel to top of bikepath.
- Rails shall be shop bent or fabricated to fit horizontal curve when radius is less than 300 m.
- All exposed welds shall be ground smooth.
- Expansion joints shall be located in the fence panel spanning deck or wall joints, see "Bike Path Fence Details No.4" sheet.
- Welding to stainless steel shall be in accordance with AWS D1.6-1999.
- Shim stack beneath post base plate to be adjusted during installation as required to maintain fence alignment. Full width galv steel shims shall be utilized, tapered as necessary to maintain post verticality.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
Juan F. Carpio, Jason Fan
JUAN F. CARPIO, JASON FAN

DESIGN	BY Lee	CHECKED Birdy
DETAILS	BY Samson	CHECKED Birdy
QUANTITIES	BY Lee	CHECKED Birdy

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Jal Birdy
PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH FENCE DETAILS NO.1

SIGN OFF DATE
Rev. Date: 5-18-98



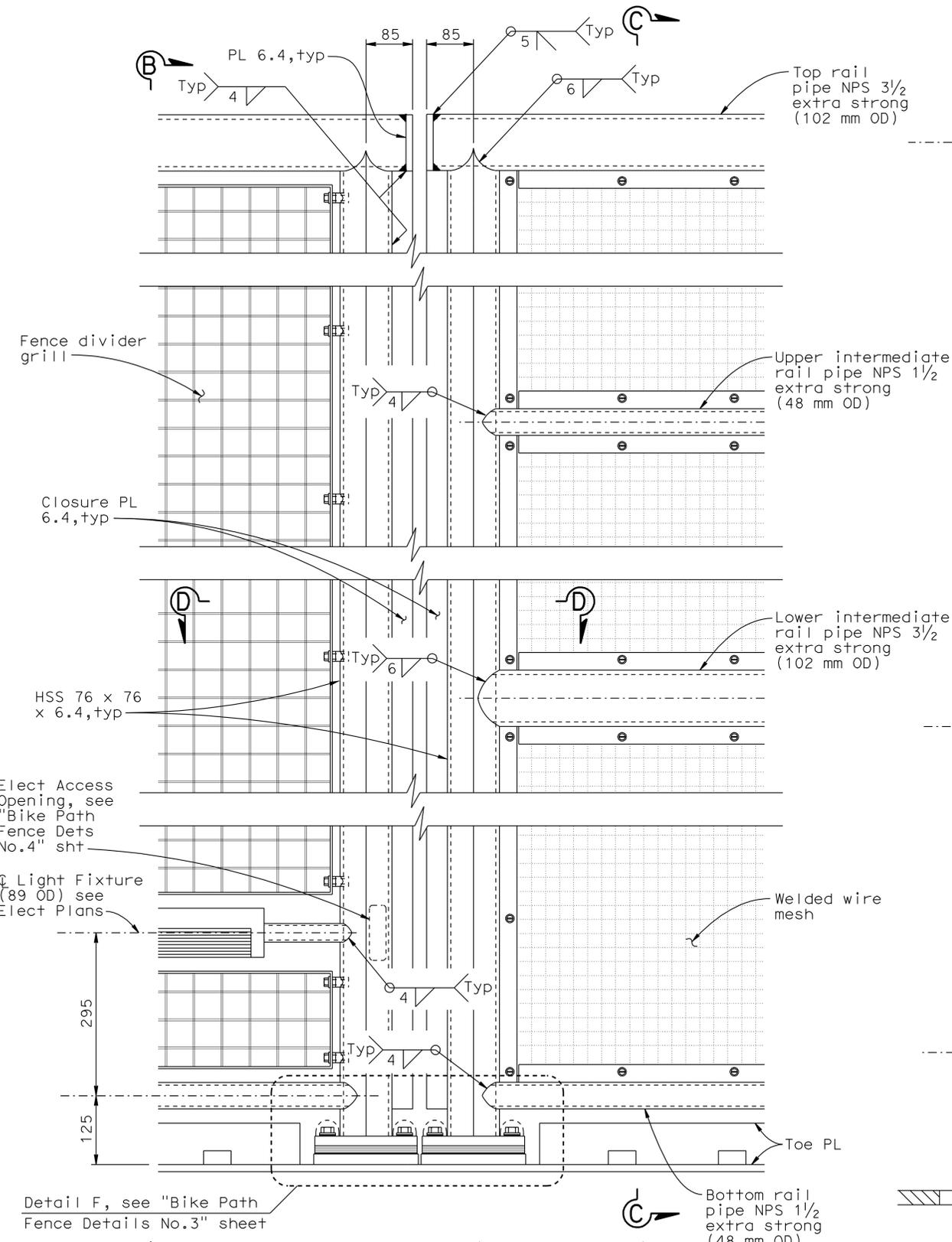
CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
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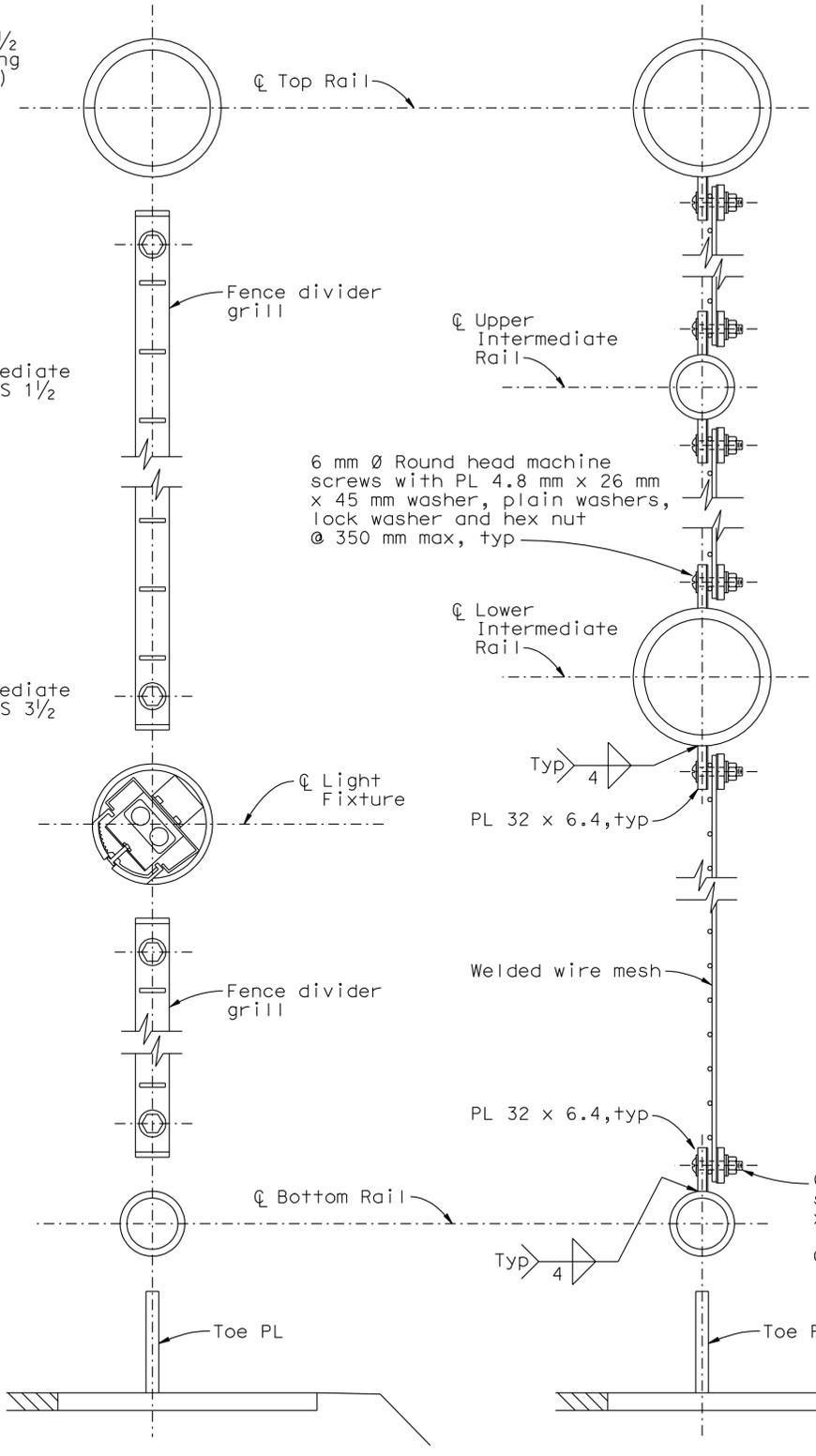


DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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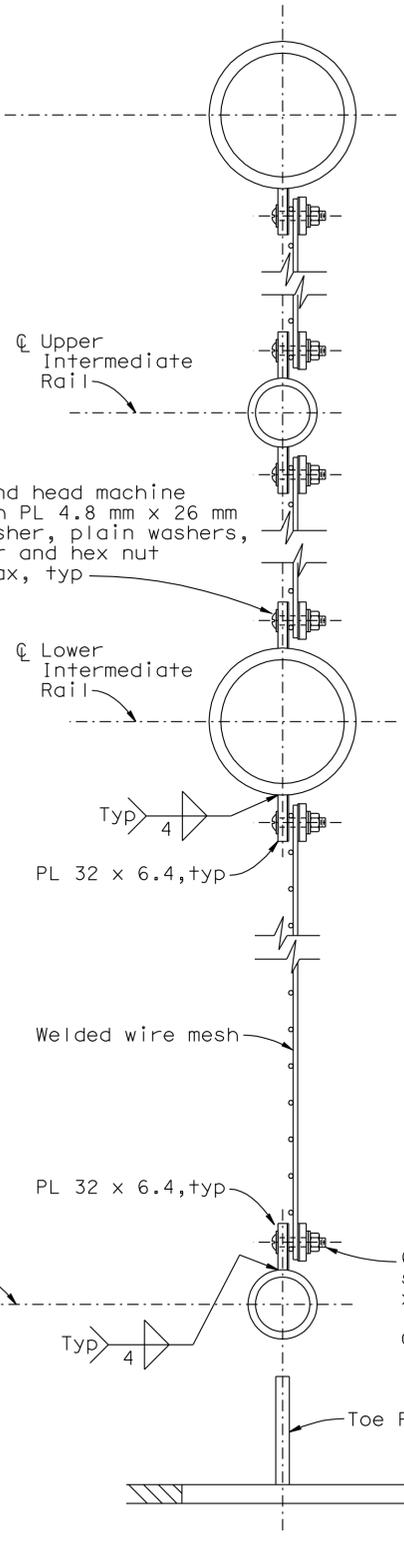
11-08-11
 REGISTERED ENGINEER - CIVIL
 2-21-12
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105



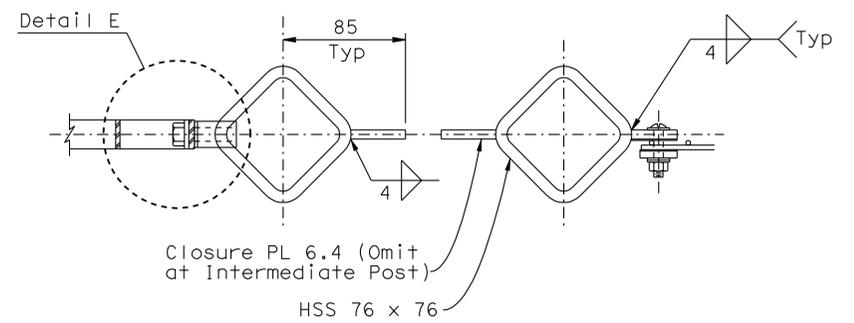
DETAIL A (REFLECTED)
1:5
(For location see "Bike Path Fence Details No.1" sheet)



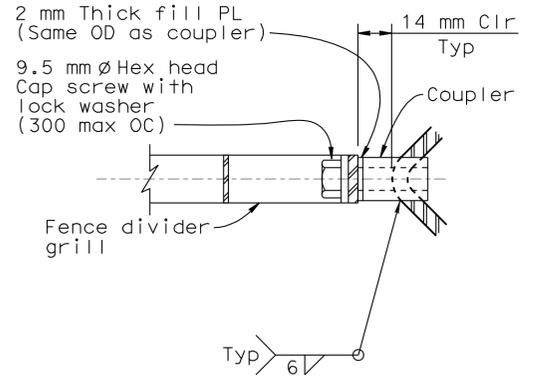
SECTION B-B
1:2.5



SECTION C-C
1:2.5



SECTION D-D
1:2.5



DETAIL E
1:1.5

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
Juan F. Carpio, Jason Fan
 JUAN F. CARPIO, JASON FAN
 SIGN OFF DATE

DESIGN	BY Lee	CHECKED Birdy
DETAILS	BY Samson	CHECKED Birdy
QUANTITIES	BY Lee	CHECKED Birdy

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH FENCE DETAILS NO.2

Rev. Date: 5-18-98



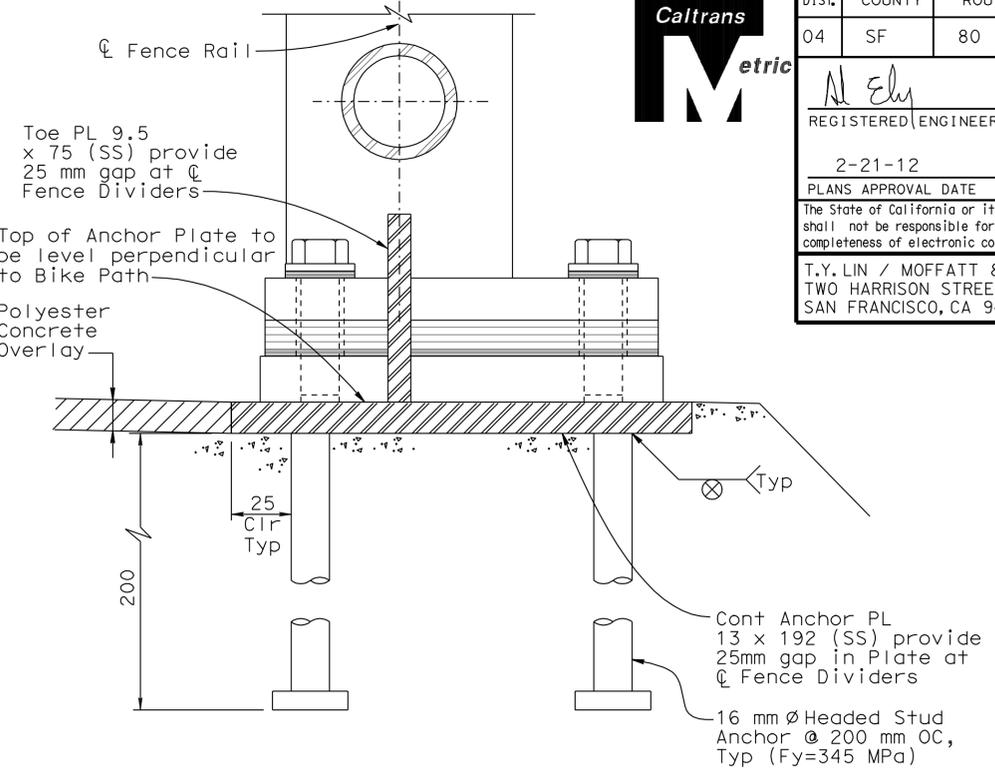
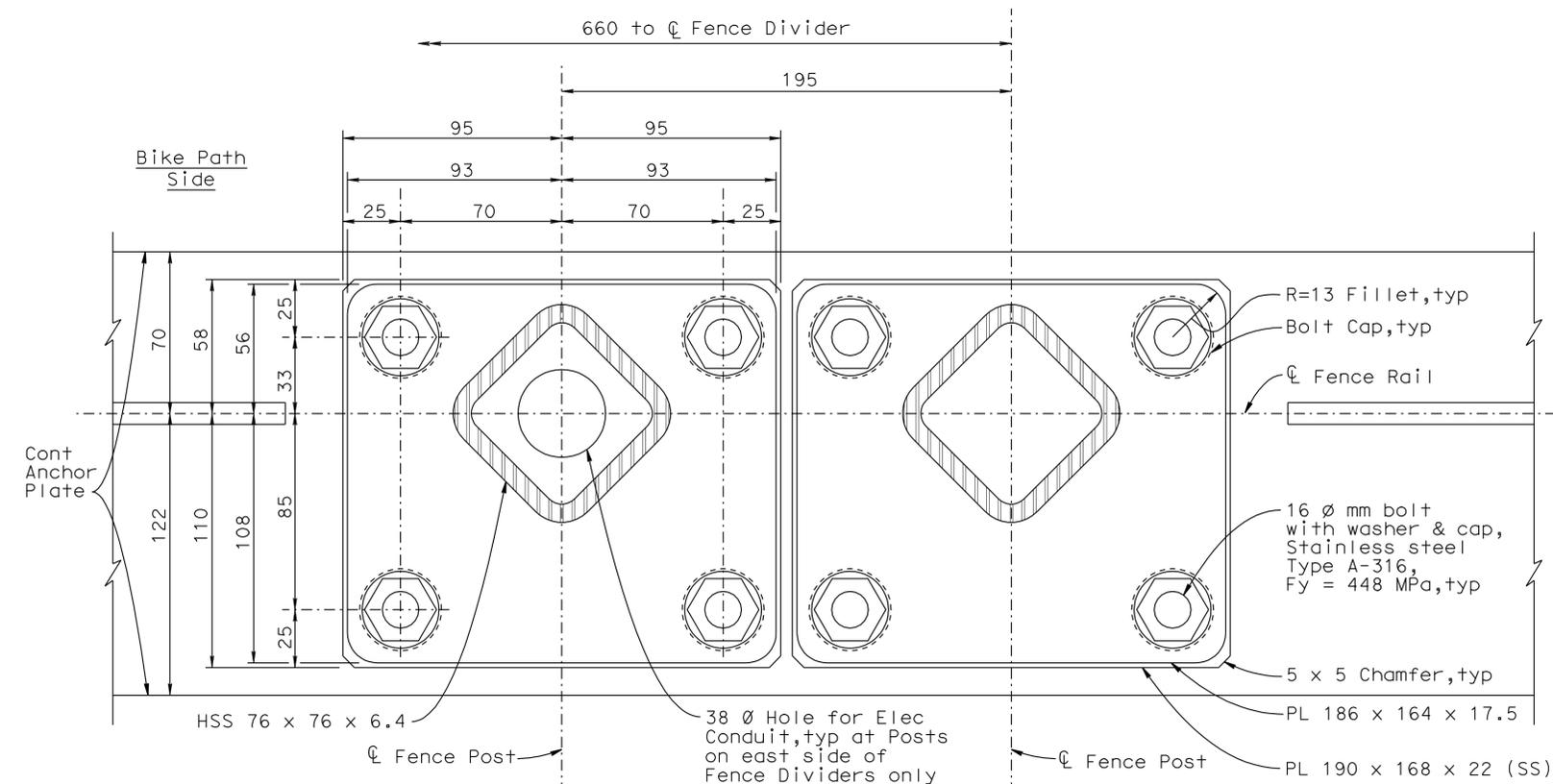
CU 04251
 EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

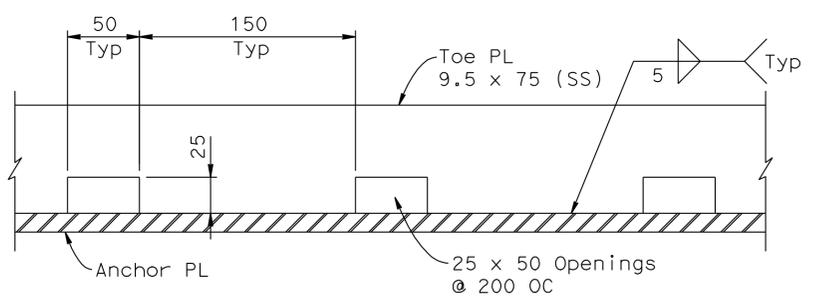
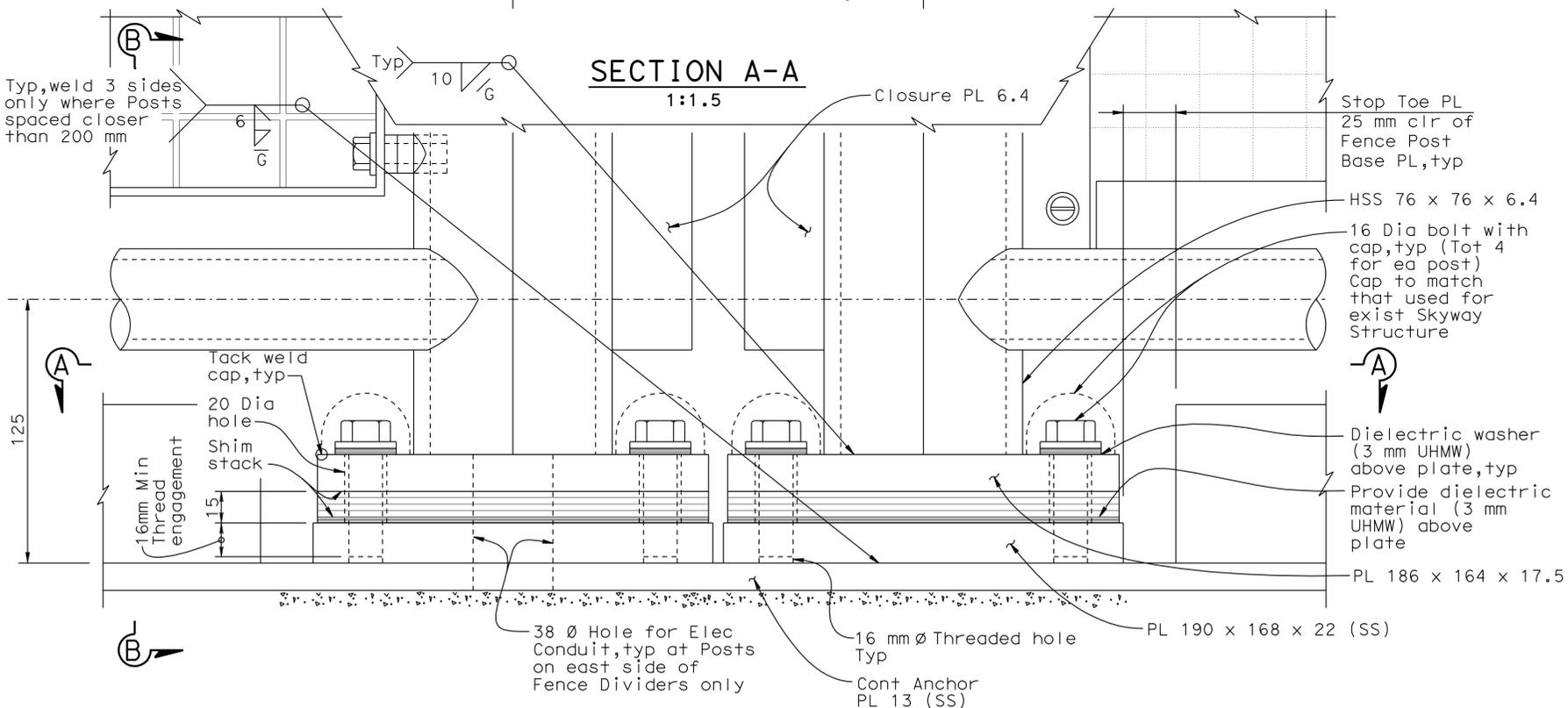
REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET	OF
11/28/10	12/25/10	4/6/11	7/24/11	10/24/11	41	61



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	707	821
REGISTERED ENGINEER - CIVIL		11-08-11		A.L. ELY	
2-21-12		PLANS APPROVAL DATE		No. 18880	
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T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105					



SECTION B-B
1:1.5



Note: Toe plates shall be painted to match typical railing.

TOE PLATE PARTIAL ELEVATION
No Scale

DETAIL F - TYPICAL FENCE POST ANCHORAGE
(Anchorage at Fence Divider shown, similar at Intermediate Post and Fence Exp J)
1:1.5

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
Juan F. Carpio, Jason Fan
JUAN F. CARPIO, JASON FAN

DESIGN	BY Lee	CHECKED Birdy
DETAILS	BY Samson	CHECKED Birdy
QUANTITIES	BY Lee	CHECKED Birdy

PREPARED FOR THE
STATE OF CALIFORNIA
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Jal Birdy
PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH FENCE DETAILS NO.3

SIGN OFF DATE
Rev. Date: 5-18-98



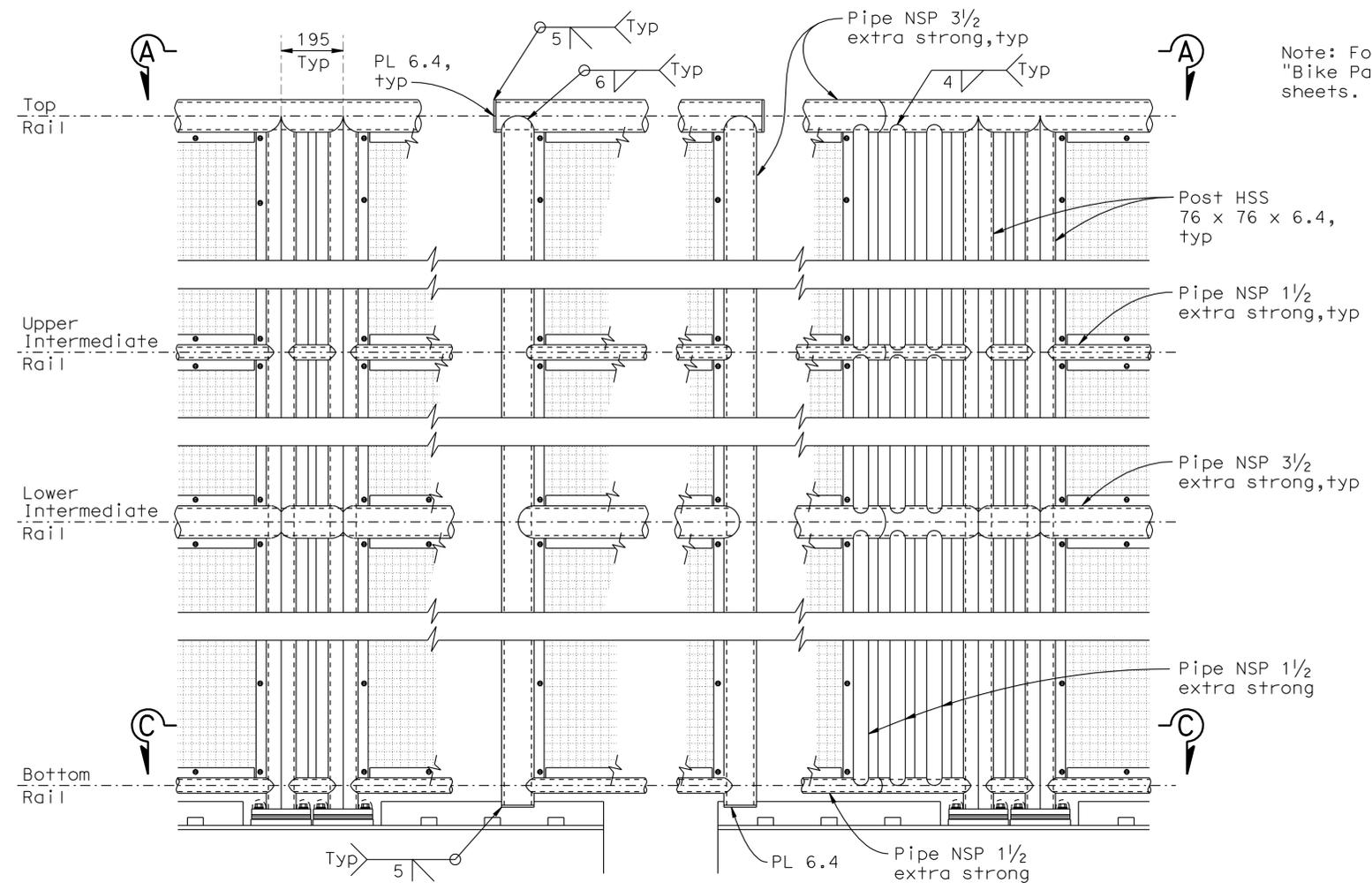
CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	11/28/10 12/25/10 4/6/11 7/24/11 10/24/11	42	61

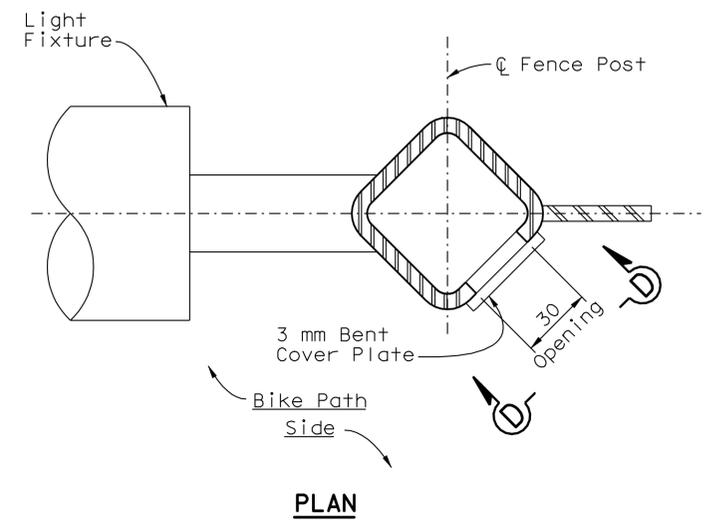


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	708	821

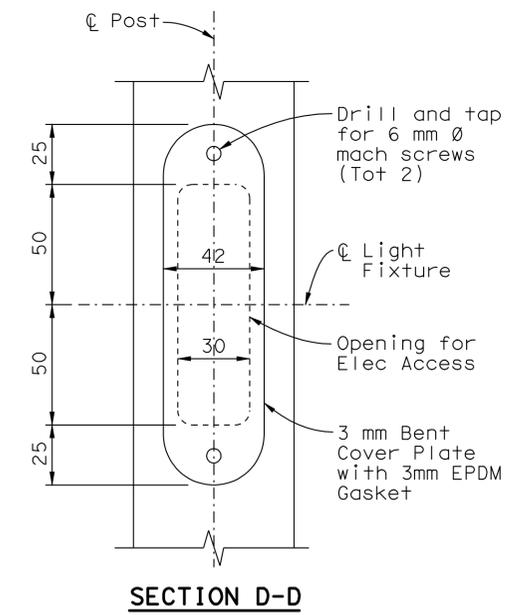
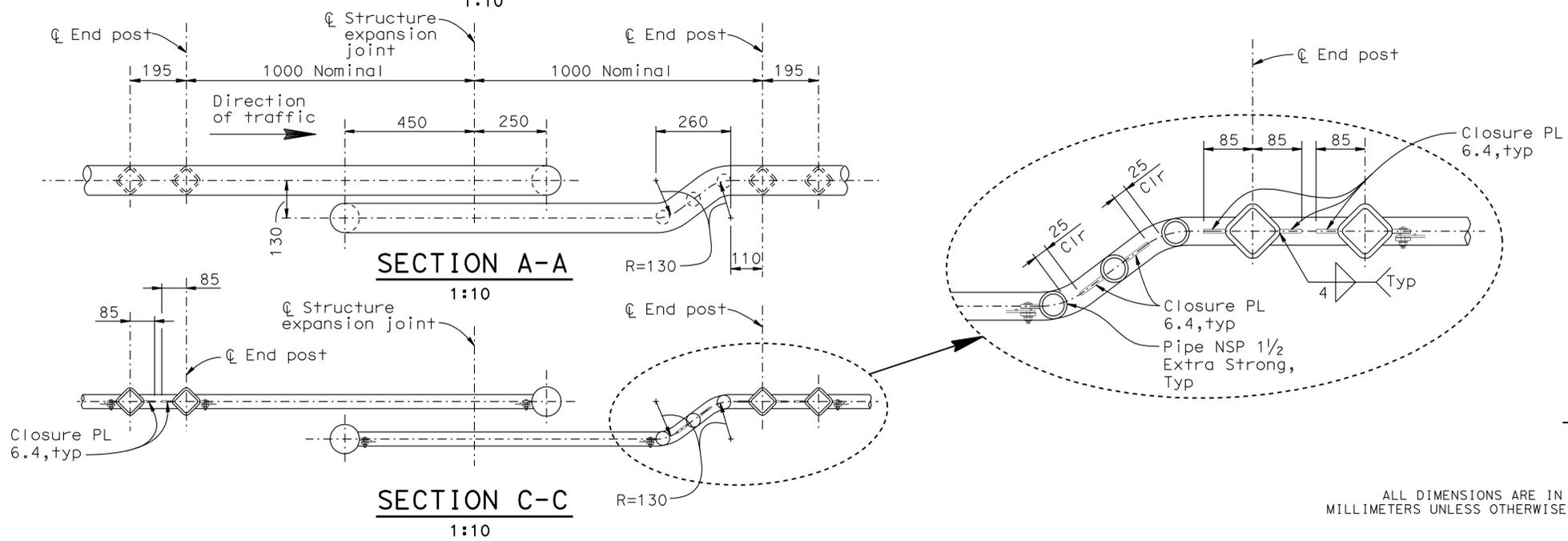
11-08-11 REGISTERED ENGINEER - CIVIL	
2-21-12 PLANS APPROVAL DATE	
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>	
T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105	



Note: For details not shown see "Bike Path Fence Details No.2 & 3" sheets.



DETAIL B - ELEVATION TYPICAL FENCE EXPANSION JOINT
 (For location see "Bike Path Fence Details No.1" sheet)



ELECTRICAL ACCESS OPENING AT BIKEPATH LIGHT FIXTURE
 (Required at Posts on east side of Fence Dividers only)
 1:1.5

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT
Juan F. Carpio
 JUAN F. CARPIO, JASON FAN
 SIGN OFF DATE
 Rev. Date: 5-18-98

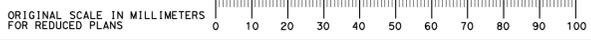
DESIGN	BY Lee	CHECKED Birdy
DETAILS	BY Samson	CHECKED Birdy
QUANTITIES	BY Lee	CHECKED Birdy

PREPARED FOR THE
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Jal Birdy
 PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
BIKE PATH FENCE DETAILS NO.4



CU 04251
 EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
11/28/10	12/28/10	1/26/11	7/24/11	10/24/11	

SHEET	OF
43	61

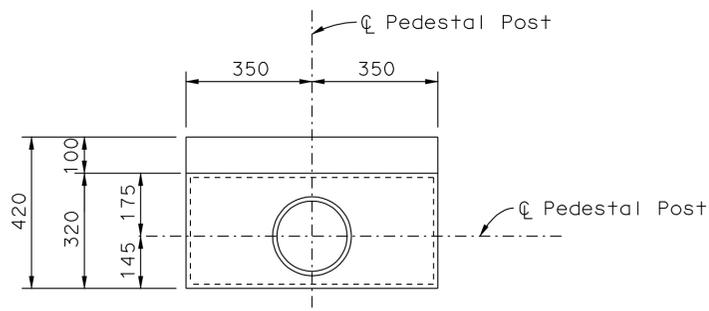
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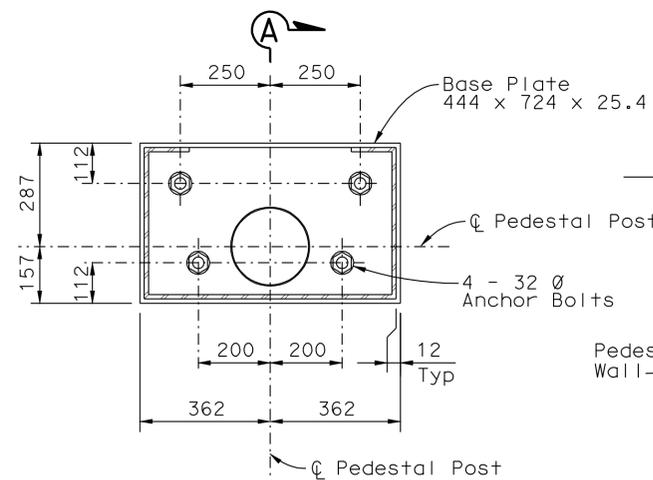
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	709	821

REGISTERED ENGINEER - CIVIL
 A.L. ELY
 No. 18880
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

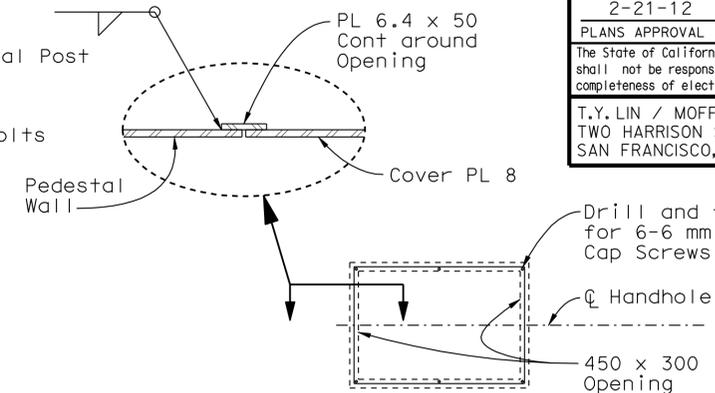
11-08-11
 2-21-12
 PLANS APPROVAL DATE
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105



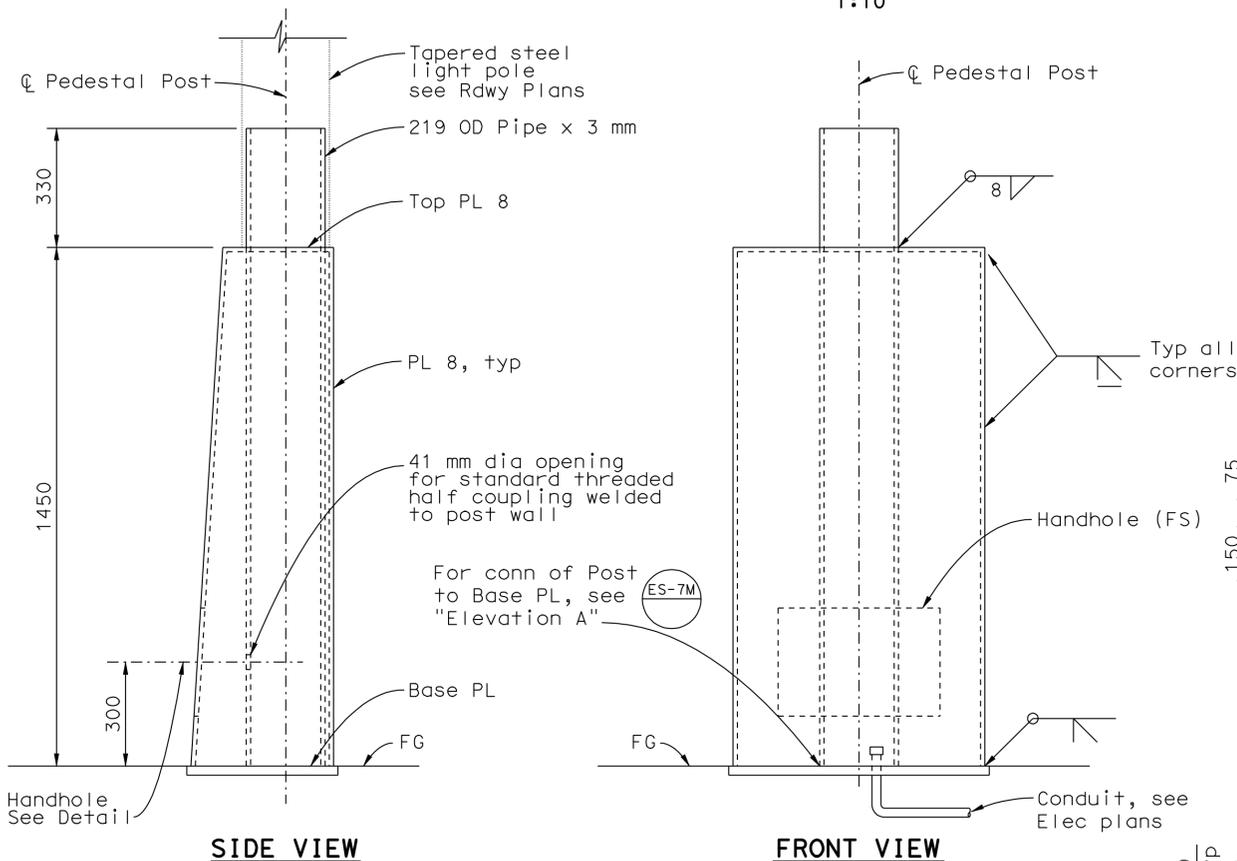
PLAN AT TOP
1:10



PLAN AT BASE PLATE
1:10



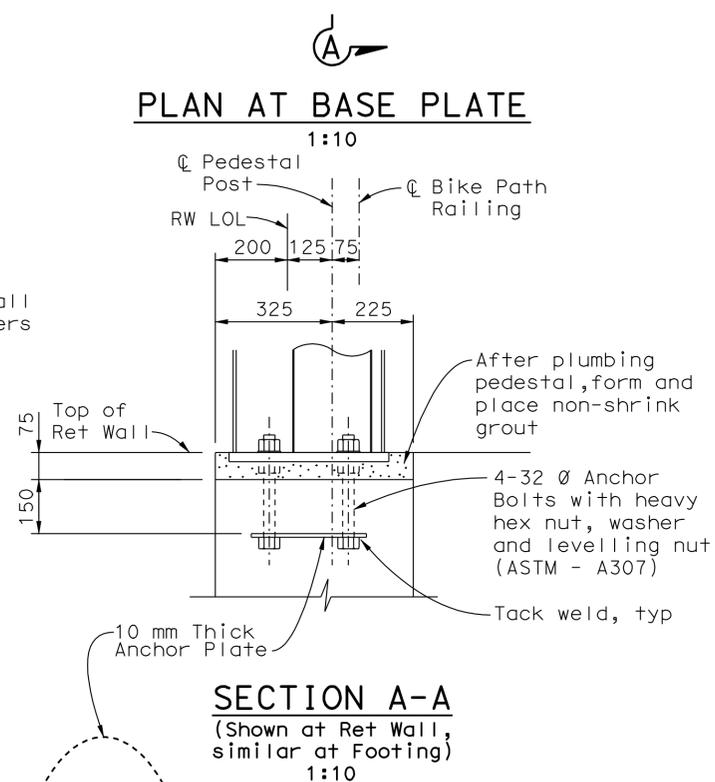
HANDHOLE DETAIL
No Scale



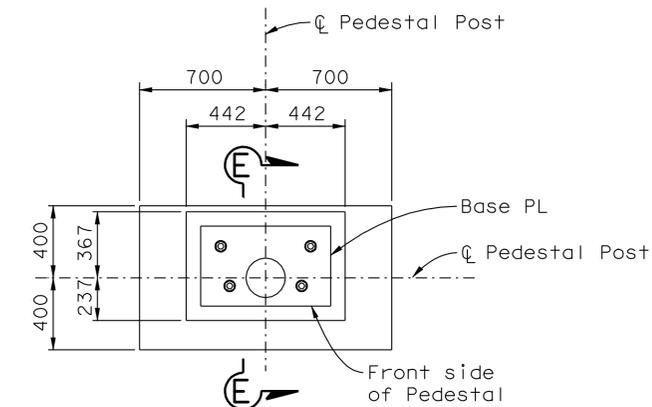
TYPICAL PEDESTAL DETAIL
1:10

Notes:

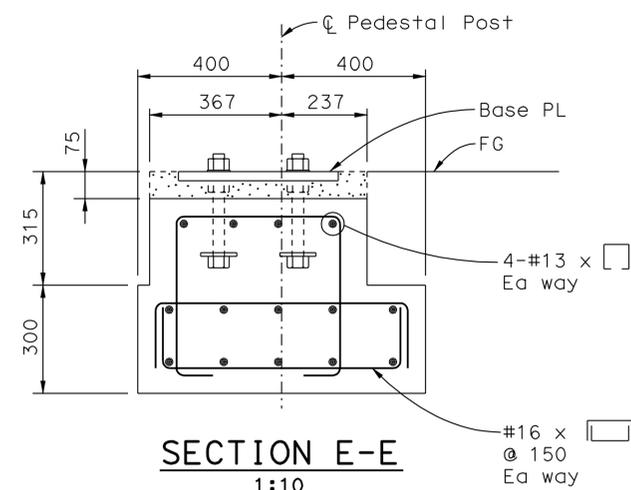
1. All metal parts of pedestal shall be galv and painted.
2. Pedestal steel plates and shapes shall conform to ASTM - A500 (Fy=345 MPa).
3. Pedestal Posts shall conform to ASTM - A500 (Fy=345 MPa).
4. All exposed welds shall be ground smooth.
5. Pedestals shall be vertical.



SECTION A-A
(Shown at Ret Wall, similar at Footing)
1:10



TYPICAL FOOTING PLAN
1:20



SECTION E-E
1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

**SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT**

DESIGN OVERSIGHT
Juan F. Carpio, Jason Fan
 JUAN F. CARPIO, JASON FAN

DESIGN	BY Lee	CHECKED Birdy
DETAILS	BY Samson	CHECKED Birdy
QUANTITIES	BY Lee	CHECKED Birdy

**PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION**

Jal Birdy
PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

**YBI EB ON-RAMP STRUCTURE (FINAL)
PEDESTAL FOR LIGHT POLE**

SIGN OFF DATE
Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 44 OF 61

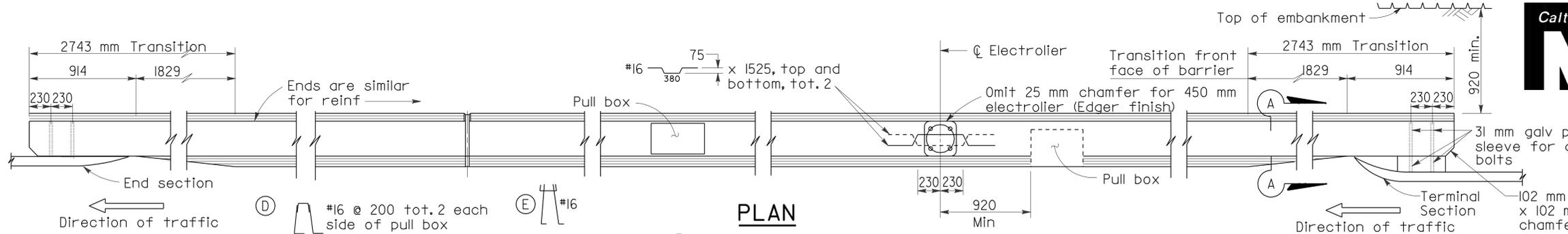
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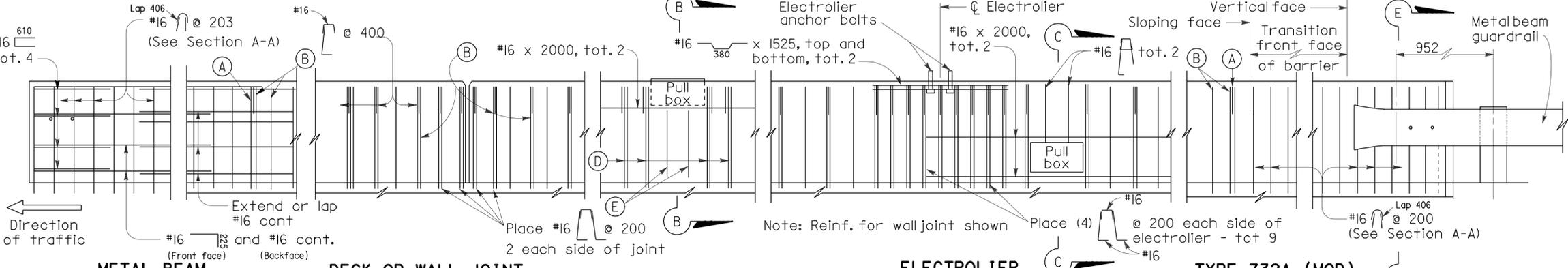
DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9		710	821

REGISTERED ENGINEER - CIVIL
A.L. ELY
No. 18880
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

11-08-11
2-21-12
PLANS APPROVAL DATE
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T.Y. LIN / MOFFATT & NICHOL
TWO HARRISON STREET
SAN FRANCISCO, CA 94105



PLAN



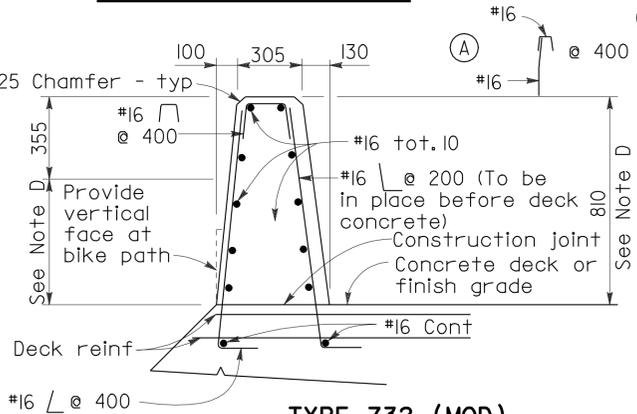
ELEVATION

METAL BEAM GUARDRAIL CONNECTION

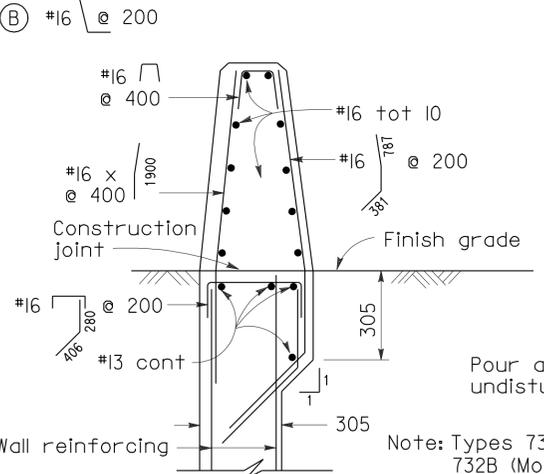
DECK OR WALL JOINT

ELECTROLIER (See Note F)

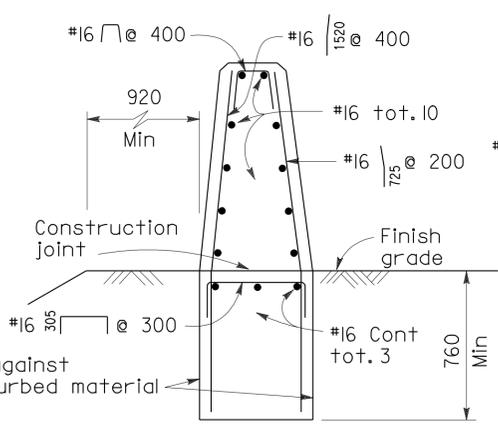
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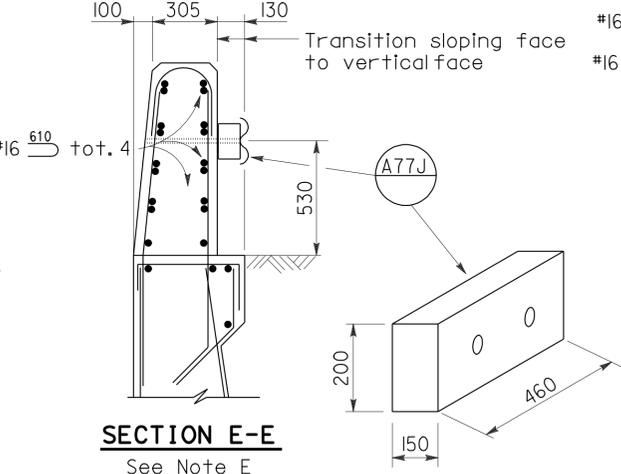
TYPE 732 (MOD)



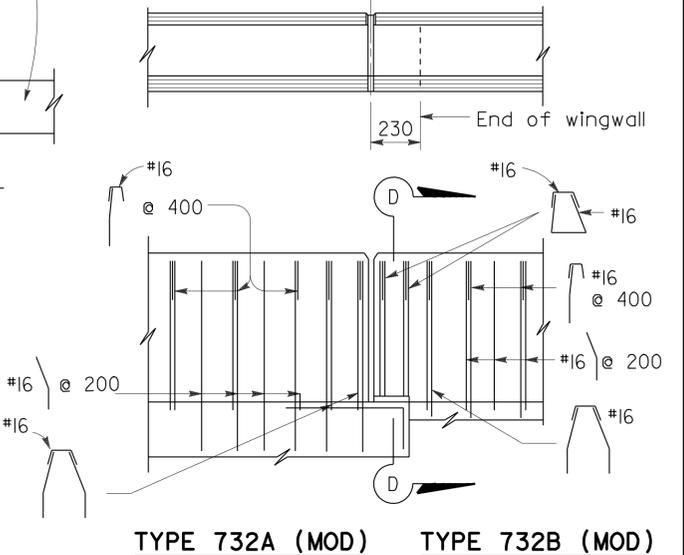
TYPE 732A (MOD)



TYPE 732B (MOD)



SECTION E-E (See Note E)

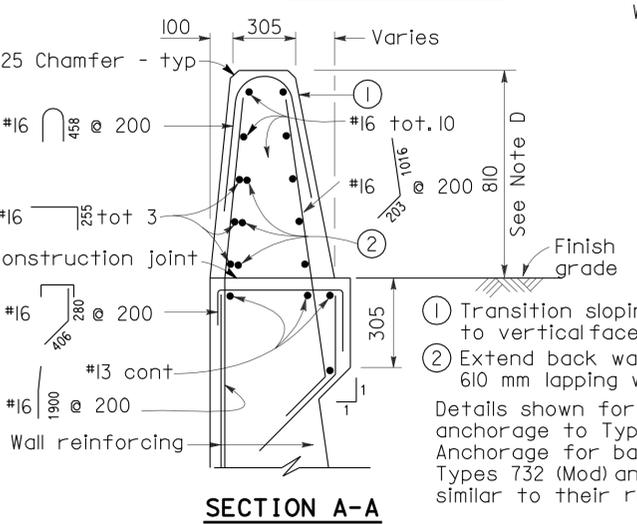


TYPE 732A (MOD) TYPE 732B (MOD)

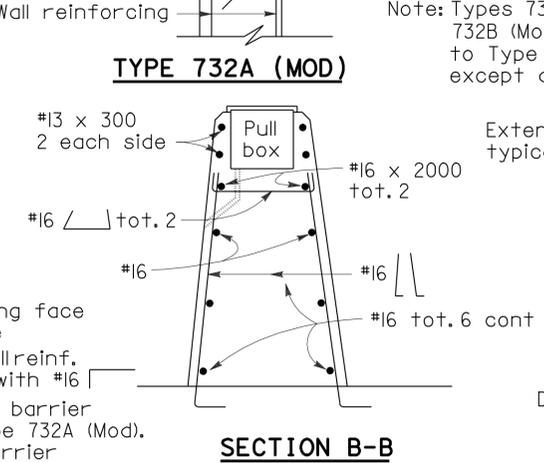
NOTES

- A. Walls are to be backfilled before barrier is placed.
- B. Clearance to reinforcing steel in barrier to be 25 mm, except as noted. Longitudinal reinforcement to stop at all expansion joints.
- C. See project plans for locations of electroliers and pull boxes.
- D. Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See Project Plans.
- E. For Metal Beam Guardrail Connection details not shown, see General Plan and Standard Plans.
- F. Refer to Project Plans and Standard Plan Sheets ES-9A, ES-9C and ES-9D for electrical details concerning barriers. The maximum number of conduits in a barrier is limited to two (2) 50 mm conduits (max.) along with one (1) 75 mm conduit. When a 75 mm conduit is used, it is restricted to the base of barrier.
- G. Minimum concrete edge distance to reinforcing shown, shall be maintained, edge distance may be adjusted to accommodate increase in concrete cover for architectural treatment. See Typical Section.

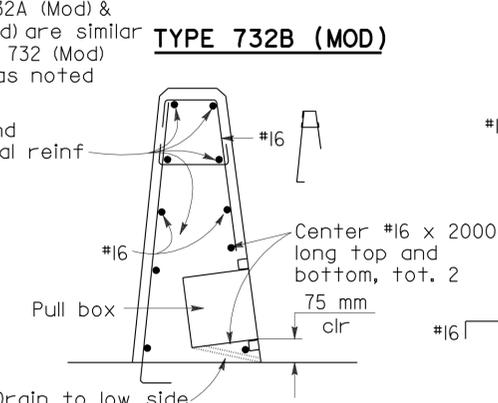
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



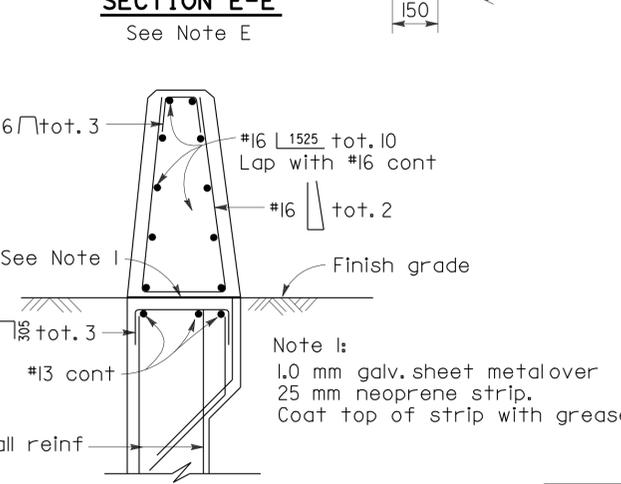
SECTION A-A



SECTION B-B



SECTION C-C (See Notes)



SECTION D-D

DESIGN OVERSIGHT
JUAN F. CARPIO, JASON FAN
SIGN OFF DATE

DESIGN	BY Chou	CHECKED Atiqullah
DETAILS	BY van Ryn/Zucchi/Mai	CHECKED Chou
QUANTITIES	BY Chou	CHECKED Liao

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Jal Birdy
PROJECT ENGINEER

BRIDGE NO.	34-0006 S
KILOMETER POST	12.8

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
YBI EB ON-RAMP STRUCTURE (FINAL)
CONCRETE BARRIER TYPE 732 (MOD)

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04251 EA 0120T1

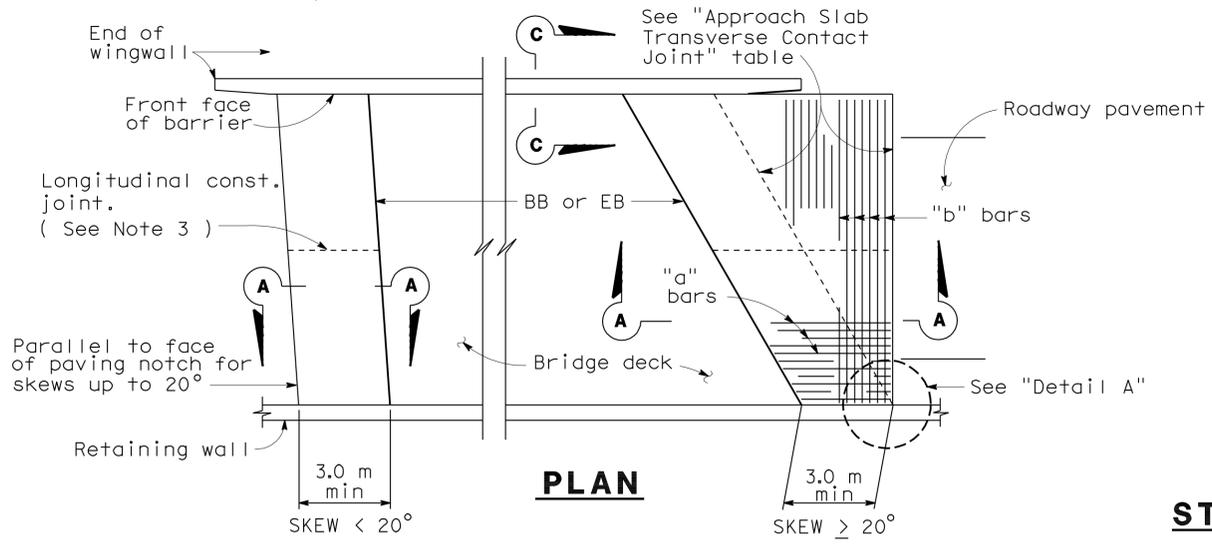
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 45	OF 61
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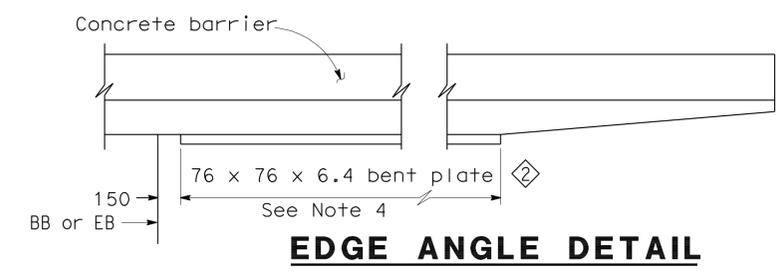
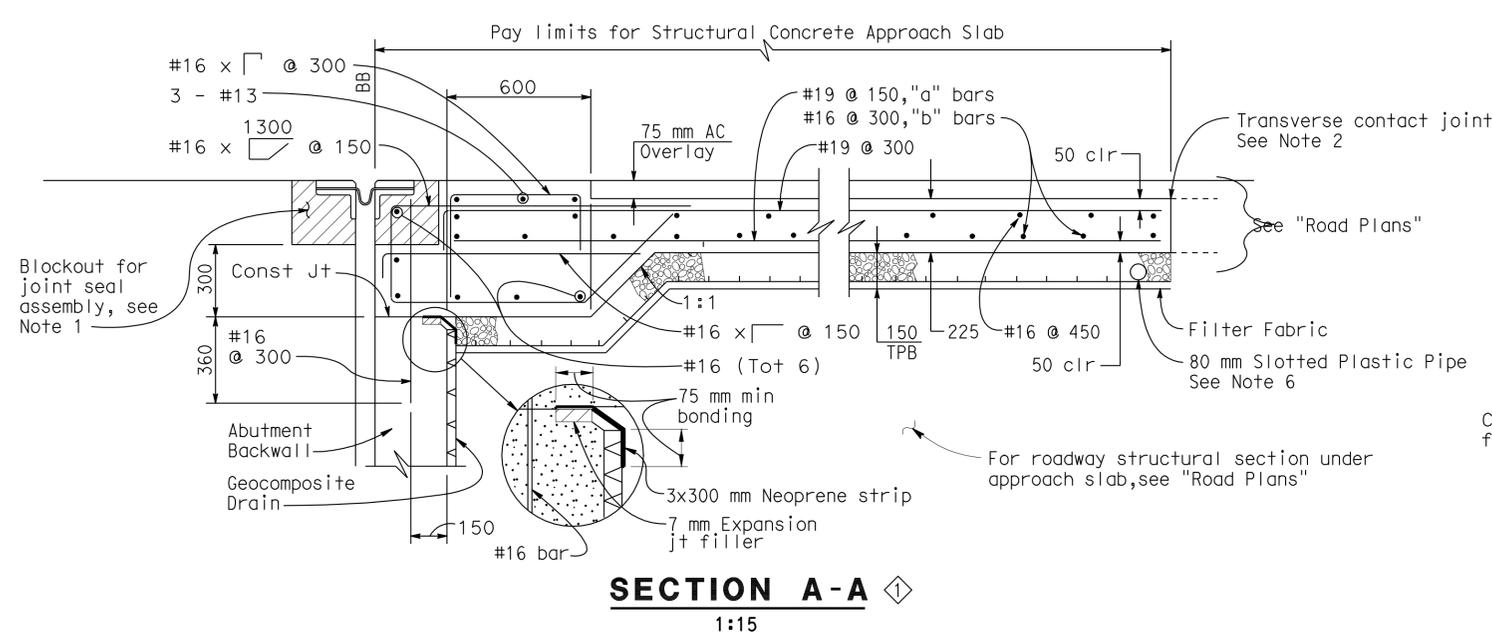
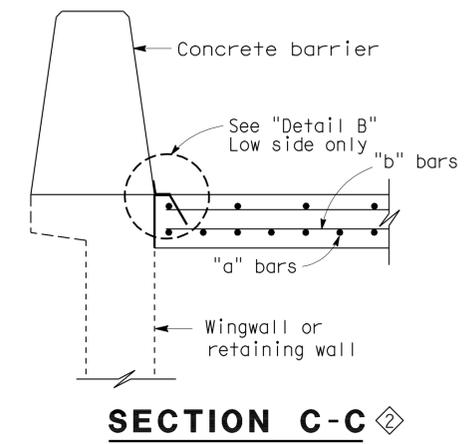
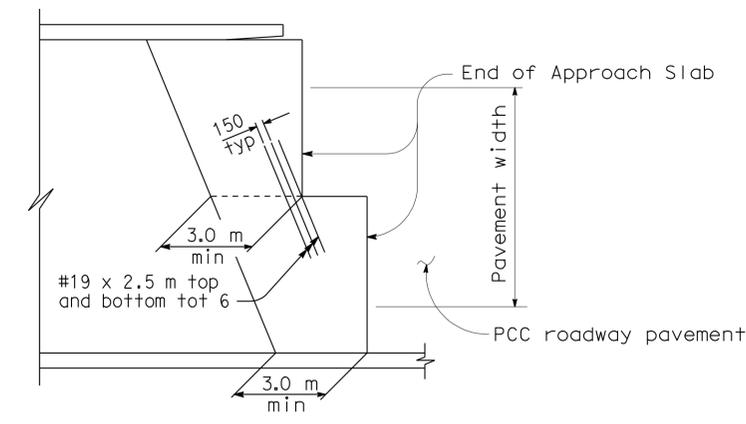


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	711	821

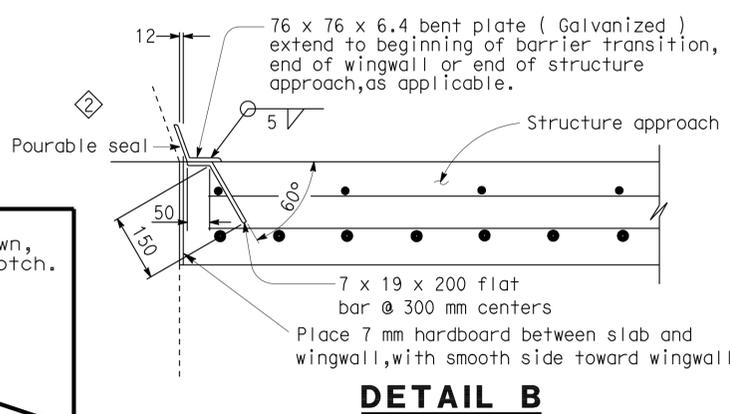
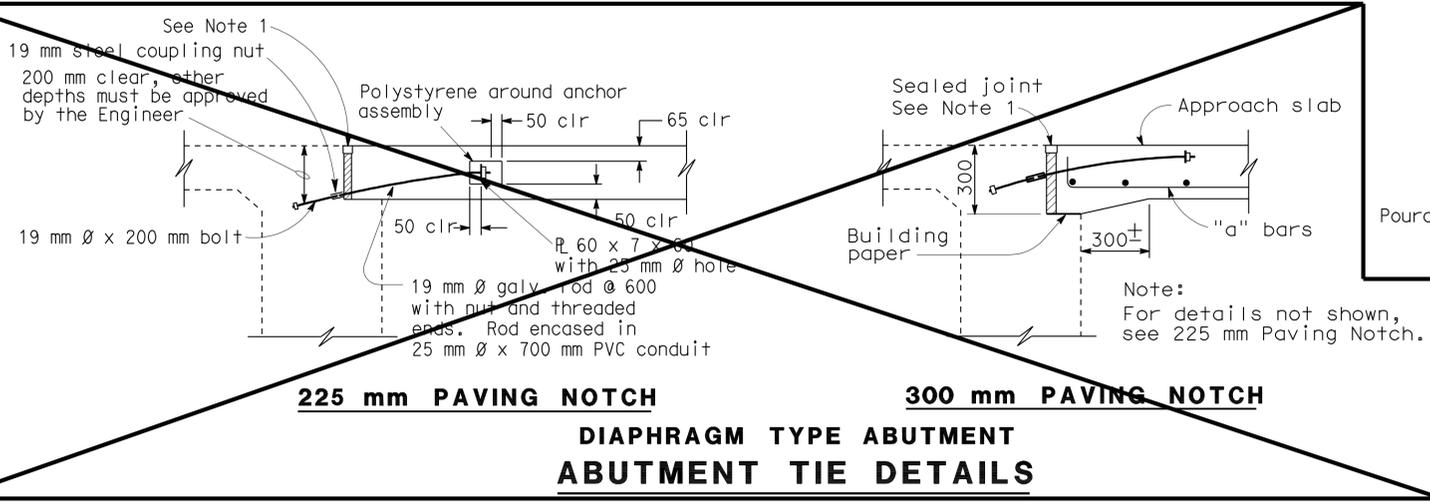
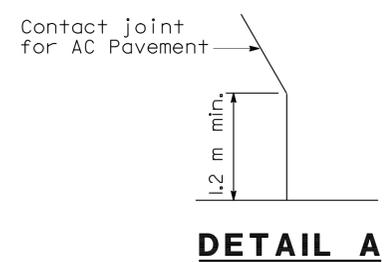
REGISTERED ENGINEER - CIVIL
 11-08-11
 2-21-12
 PLANS APPROVAL DATE
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 T.Y. LIN / MOFFATT & NICHOL
 TWO HARRISON STREET
 SAN FRANCISCO, CA 94105



STRUCTURE APPROACH - END STAGGER DETAIL



APPROACH SLAB TRANSVERSE CONTACT JOINT		
STRUCTURE SKEW	AC APPROACH PAVEMENT	PCC APPROACH PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



- NOTES:**
- For details not noted or shown, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
 - Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
 - End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
 - At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ϕ roadway.
 - For drainage details, see "Structure Approach Drainage Details" Sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NO SCALE

SPECIAL DETAILS

STANDARD DRAWING			
FILE NO. XS 22-21	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE REVISED	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. HA		

- 1 Revised Section A-A & Added Drainage
- 2 Revised Barrier & Angle

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 34-0006 S
KILOMETER POST 12.8

YBI EB ON-RAMP STRUCTURE (FINAL)
STRUCTURE APPROACH TYPE EQ(3) - MOD

DS OSD 2147A (METRIC) (REV. 2/25/97)



CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 46 OF 61
	1/18/10 2/25/10 4/5/11 1/14/11 10/24/11	

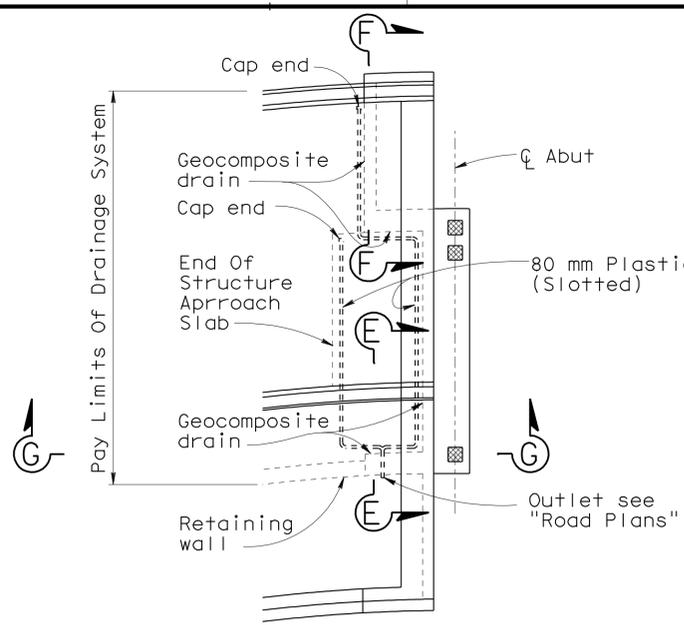
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XS221.DGN

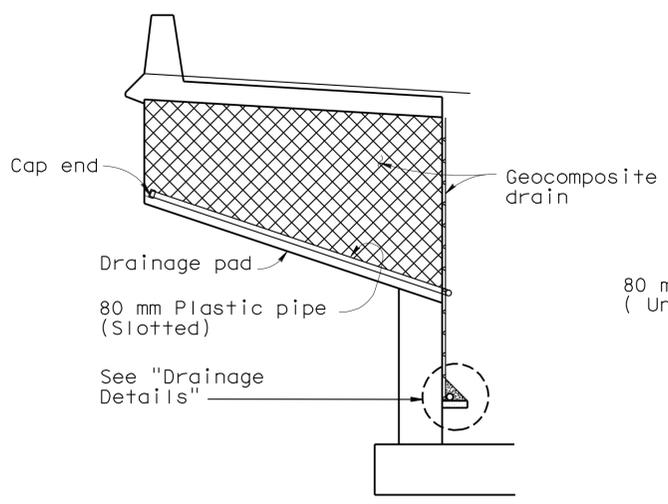


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04	SF	80	12.6/13.9	712	821

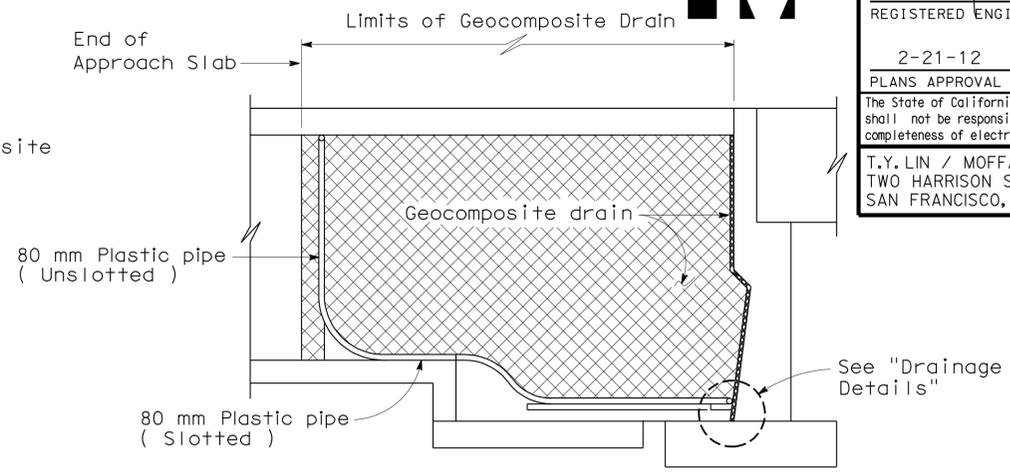
REGISTERED ENGINEER - CIVIL		11-08-11
PLANS APPROVAL DATE		2-21-12
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T.Y. LIN / MOFFATT & NICHOL TWO HARRISON STREET SAN FRANCISCO, CA 94105		



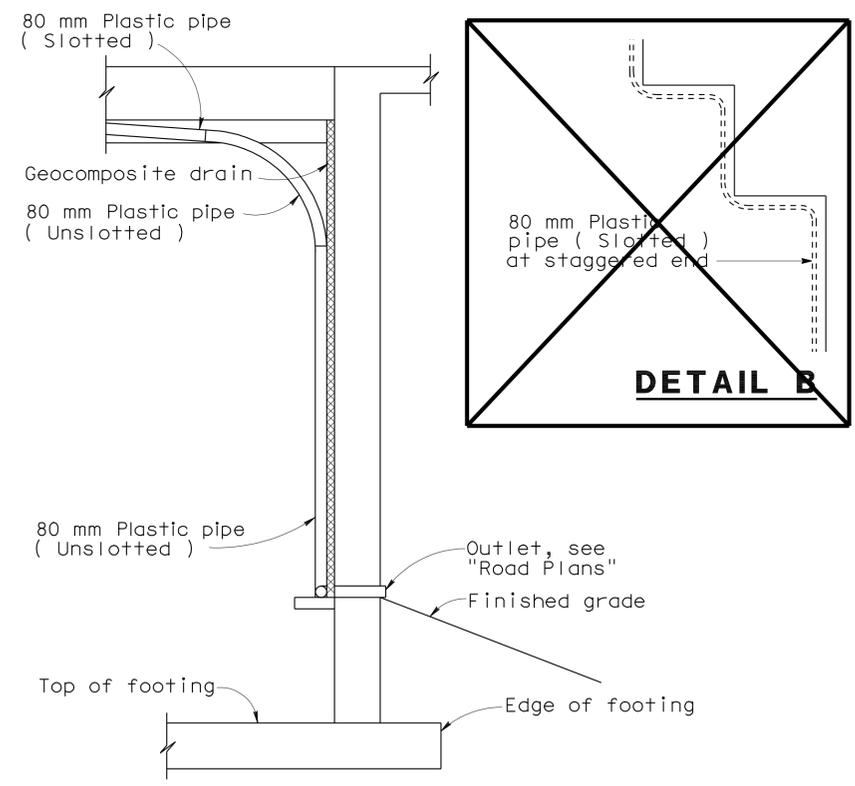
TYPICAL PLAN ①



CANTILEVER WINGWALL SECTION F-F ②

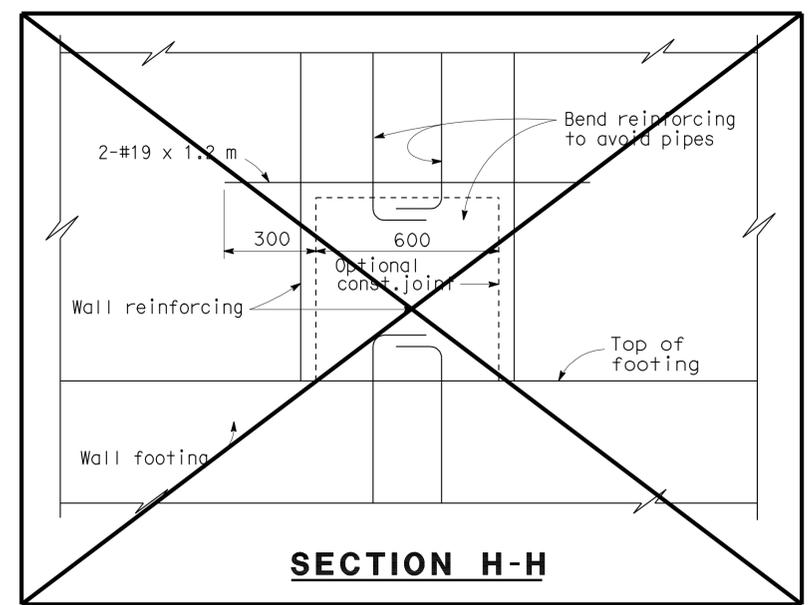


RETAINING WALL WINGWALL SECTION G-G ②



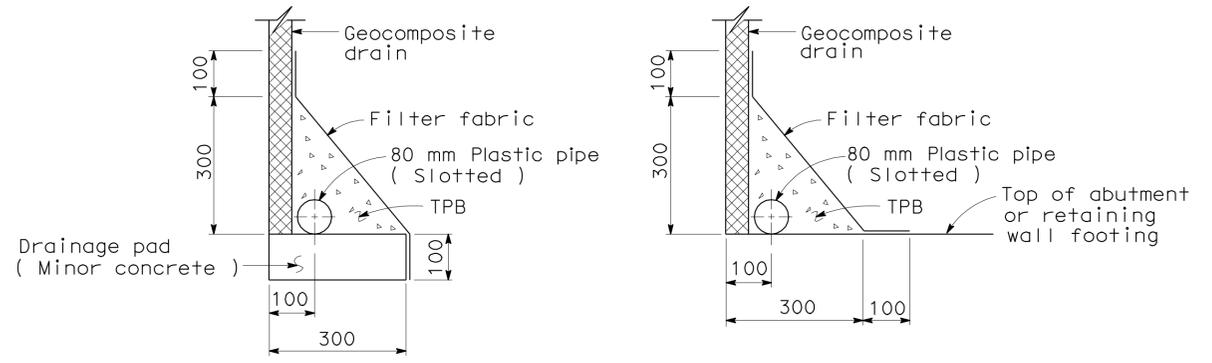
SECTION E-E ②

NOTE: Bends and junctions in 80 mm plastic pipe are 750 mm radius min.

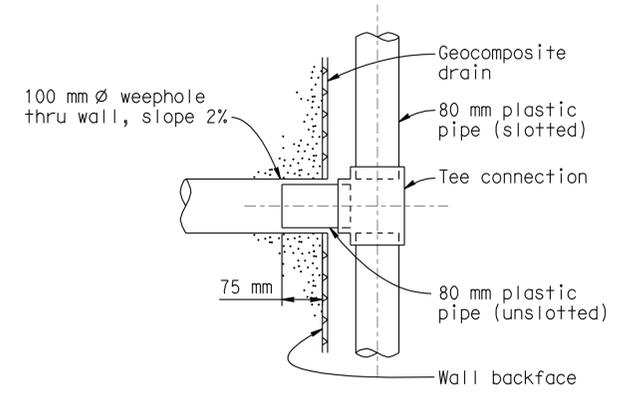


SECTION H-H

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DRAINAGE DETAILS



DETAIL AT WALL WEEPHOLE ③

SPECIAL DETAILS

STANDARD DRAWING			
FILE NO. XS 22-17	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE REVISED	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	<i>Richard D. Ford</i>
	SUBMITTED BY M. HA		DESIGN SUPERVISOR

- ① Revised Plan
- ② Revised Wingwalls
- ③ Added Weep hole Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 34-0006 S
KILOMETER POST 12.6

YBI EB ON-RAMP STRUCTURE (FINAL)
STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (METRIC) (REV. 2/25/97)



CU 04251
EA 0120T1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)					
11/18/10	12/18/10	4/6/11	1/14/11	10/24/11	

SHEET 47 OF 61

04-0120+1-34-0006s-s-sadd.dgn

XS2217.DGN

USERNAME => S124438A1E PLOTTED => 25-FEB-2012 TIME PLOTTED => 07:08

SOIL AND ROCK TYPES	
Well graded GRAVEL (GW)	Sandy fat CLAY (CH)
Poorly graded GRAVEL (GP)	Lean CLAY (CL)
GRAVEL with sand (GP or GW)	Sandy lean CLAY (CL)
GRAVEL with clay (GP or GW)	Silty CLAY (CL-ML)
Clayey GRAVEL (GC)	Essic SILT (MH)
GRAVEL with silt (GP or GW)	SILT (ML)
Silty GRAVEL (GM)	Sandy SILT (ML)
Well graded SAND (SW)	Clayey silt (ML/CL)
Poorly graded SAND (SP)	Highly plastic ORGANICS (OH)
SAND with gravel (SP or SW)	Low plasticity ORGANICS (OL)
SAND with clay (SP-SC)	SANDSTONE (Rd)
Clayey SAND (SC)	SILTSTONE (Rd)
Silty SAND (SM)	CLAYSTONE (Rd)
SAND with silt (SP-SM)	interbedded Rock Strata (Rd)
Fat CLAY (CH)	PAVEMENT

SAMPLERS	
76mm-OD, 72mm-ID Thin Walled Tube	76mm-OD, 80mm-ID Modified California Liner
57mm-OD, 54mm-ID* Thin Walled Driven Tube	51mm-OD, 35mm-ID SPT Split Spoon Sampler
63.5mm-OD, 54mm-ID Offshore Liner	Rock Core (inset symbol represents recovery %)

STANDARD PENETRATION TEST (SPT) AND MODIFIED CALIFORNIA (MC) LINER SAMPLERS

Samplers were driven with a 63.5 kg hammer dropped approximately 760 mm.

20 Number of blows to produce 30 cm of penetration after the initial 15 cm of seating.

60/26cm Number of blows required to produce the indicated penetration after an initial 15 cm seating.

R60/76cm 60 blows produced the indicated penetration during the initial 16 cm interval.

Note: In rock coring interval recovery(%) RQD are shown in the Blow Count column.

TUBE AND OFFSHORE LINER SAMPLERS

WCH Offshore Liner sample advanced with the weight of an 80 kg hammer.

PUSH or SAVE Pushed thin-walled 76mm-OD-tube.

15/80cm Number of blows required to produce the indicated penetration using a 54mm-ID tube sampler. The sampler was driven with an 80 kg downhole hammer dropped approximately 1.5 m.

CLASSIFICATION TESTS BLOW COUNTS AND ROCK QUALITY

PERCENT PASSING #200 SIEVE

WATER CONTENT (%)

TOTAL UNIT WEIGHT (kN/m³)

THEORETICAL TOTAL UNIT WEIGHT (kN/m³)

PLASTIC LIMIT LIQUID LIMIT

EQUIVALENT SPT BLOW COUNT = (MC BLOWCOUNT x 8) OR SPT BLOWCOUNT

ROCK QUALITY DESIGNATION (RQD)

ROCK RECOVERY PERCENT

ROCK CORING RATE

STRENGTH TESTS

POCKET PENETROMETER

TORVANE

REMOTE VANE

MINIATURE VANE (RESIDUAL VANE)

UNCONSOLIDATED UNDRAINED TRIAXIAL

SWEDISH FALL CONE

UNCONFINED COMPRESSION (SOIL)

Open symbols indicate remediated tests

Shear Strength interpreted from CPT Tip Resistance (Nk = 12-15)

POINT LOAD TEST (ROCK-INTACT SPECIMEN)

POINT LOAD TEST (ROCK-ALONG WEAK PLANE)

UNCONFINED COMPRESSION (ROCK)

Soil: Strength Exceeds Capacity of Measuring Device

Rock: Sample broke along discontinuity; intact sample would have greater strength

FRACTURE DENSITY (ROCK)

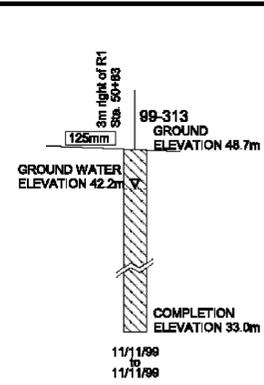
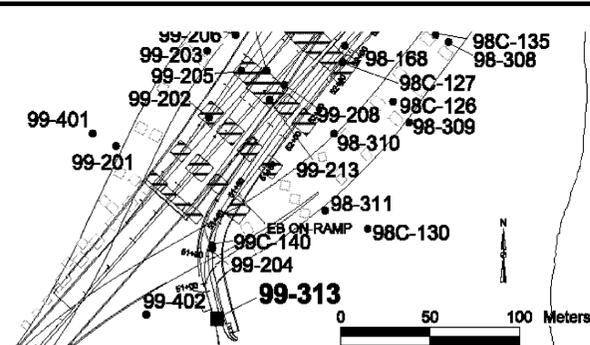
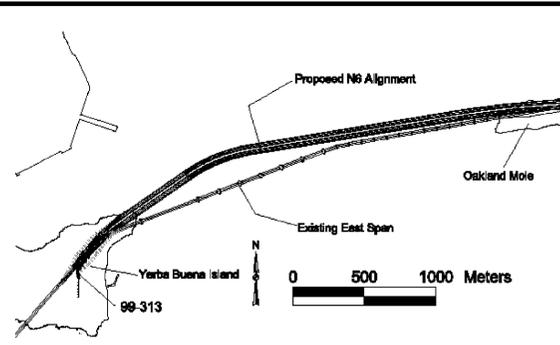
STRENGTH OF COHESIVE SOILS

Consistency	Undrained Shear Strength kPa
Very Soft	less than 12
Soft	12 to 25
Firm	25 to 50
Stiff	50 to 100
Very Stiff	100 to 200
Hard	greater than 200

DENSITY OF GRANULAR SOILS

Descriptive Term	Relative Density (%)
Very Loose	less than 15
Loose	15 to 35
Medium Dense	35 to 65
Dense	65 to 85
Very Dense	greater than 85

*Estimated from sampler driving record and CPT tip resistance.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	713	821

2-21-12
PLANS APPROVAL DATE

FUGRO EARTH MECHANICS, A JOINT VENTURE
7750 Paradise Lane, Suite 120
Oakland, CA 94621
(510) 562-8833, FAX (510) 562-8858

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BORING 99-313

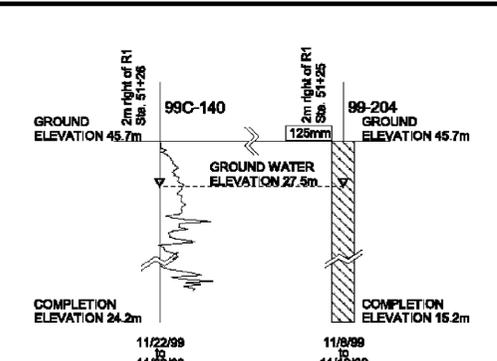
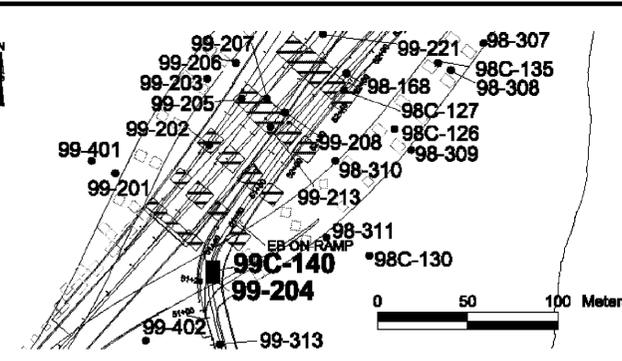
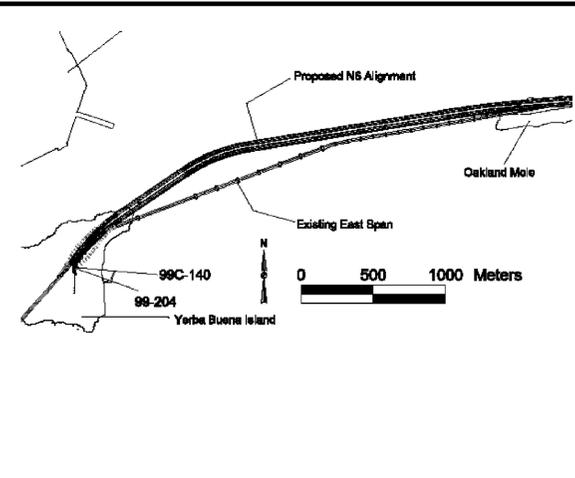
COORDINATES: E1835933 N647099
CA State Plane Zone 3, NAD83, Meters
GROUND ELEVATION: 48.7m (MSL)
START DATE: 11/11/99

STATION: 3m right of R1 Sta. 50+83
COMPLETION ELEVATION: 33.0m (MSL)
END DATE: 11/11/99

DEPTH (m)	ELEVATION (m)	SAMPLER	BLOW COUNT	MATERIAL DESCRIPTION	STRATUM NO.	CORING RATE (Min./m)			FRACTURE DENSITY (Frac./m)			
						20	40	80	5	10	25	
0.0	48.7			GROUND ELEVATION: 48.7m (MSL)								
0.3	48.4			ARTIFICIAL FILL (af) PAVEMENT, 127mm of Asphalt Concrete over Aggregate Base								
2.3	46.4			SEDIMENTARY DEPOSITS (Qa) Medium to Coarse SAND with gravel and silt (SW-SM), very dense, light gray, dry -gravel is sub-angular to sub-rounded -rock fragments up to 127mm, 0.9m to 2.1m								
4.6	44.1			Fine GRAVEL with silt and sand (GW-GM), dense to very dense, light to dark gray, dry -with fine to medium sand								
6.1	42.6			Fine to Medium SAND (SP), dense, yellowish brown, moist								
6.5	42.2			Fine to Medium SAND with silt (SP-SM), dense to very dense, reddish brown, moist -silty at 6.1m								
9.1	39.6			-dense, silty fine to medium sand, at 9.1m								
12.2	36.5			-silty fine sand, light yellowish brown, below 12.2m								
13.7	35.0			-with intensely weathered sandstone fragments and stiff clay, at 13.7m								
15.2	33.5			Sandy SILT (ML), very dense, light yellowish brown -weathered sandstone, extremely soft and friable TOTAL DEPTH: 15.7m BACK-FILLED WITH Cement Grout.								

ROBERT PRICE / SABA MOHAN GEOTECHNICAL DESIGN OVERSIGHT	DRAWN BY J. PALMER	J. PALMER	L. FLUKE FIELD INVESTIGATOR	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. KAPUSKAR PROJECT ENGINEER	BRIDGE NO. 34-0172 S KM POST	SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT	
CHECKED BY M.KAPUSKAR, S.VARATHARAJ			DATE SEE ABOVE				YBI EB ON-RAMP STRUCTURE LOG OF TEST BORINGS NO. 1	
ORIGINAL SCALE IN CENTIMETERS 0 1 2 3 4 5 6 7 8 9 10 FOR REDUCED PLANS				CU 04251 EA 0120S1	POST MILE	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
						SHEET 48	OF 61	

SOIL AND ROCK TYPES	
Well graded GRAVEL (GW)	Sandy fat CLAY (CH)
Poorly graded GRAVEL (GP)	Lean CLAY (CL)
GRAVEL with sand (GP or GW)	Silty lean CLAY (CL)
GRAVEL with clay (GP or GW)	Silty CLAY (CL-ML)
Clayey GRAVEL (GC)	Elastic SILT (MH)
GRAVEL with silt (GP or GW)	SILT (ML)
Silty GRAVEL (GM)	Sandy SILT (ML)
Well graded SAND (SW)	Clayey silt (ML-CL)
Poorly graded SAND (SP)	Highly plastic ORGANICS (OH)
SAND with gravel (SP or SW)	Low plasticity ORGANICS (OL)
SAND with clay (SP-SC)	SANDSTONE (Rd)
Clayey SAND (SC)	SILTSTONE (Rd)
Silty SAND (SM)	CLAYSTONE (Rc)
SAND with silt (SP-SM)	Interbedded Rock Strata (Rd)
Fat CLAY (CH)	PAVEMENT



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	714	821

Registered Geotechnical Engineer
 M. Kapuskar
 No. GE 2564
 Exp. 12-31-08

FUGRO-EARTH MECHANICS, A JOINT VENTURE
 7750 Pardee Lane, Suite 120
 Oakland, CA 94621
 (510) 562-8833, FAX (510) 562-8858

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SAMPLERS

76mm-OD, 72mm-ID Thin Walled Tube

57mm-OD, 54mm-ID Thin Walled Driven Tube

63.5mm-OD, 54mm-ID Cylindrical Liner

76mm-OD, 80mm-ID Modified California Liner

51mm-OD, 35mm-ID SPT Split Spoon Sampler

Rock Core (metal symbol represents recovery %)

* A variable OD, 54mm-ID tapered driven tube was used to sample coarse sand, gravel and rock

STANDARD PENETRATION TEST (SPT) AND MODIFIED CALIFORNIA (MC) LINER SAMPLERS

Samplers were driven with a 63.6 kg hammer dropped approximately 760 mm.

20 Number of blows to produce 30 cm of penetration after the initial 15 cm of seating

88/28cm Number of blows required to produce the indicated penetration after an initial 15 cm seating

Rat/8cm 60 blows produced the indicated penetration during the initial 15 cm interval

Note: In rock coring interval recovery (%)-RCD are shown in the Blow Count column.

TUBE AND OFFSHORE LINER SAMPLERS

WOH Offshore Liner sample advanced with the weight of an 80 kg hammer.

PUSH or SAVE Pushed thin-walled 76mm-OD-tube.

15/80cm Number of blows required to produce the indicated penetration using a 54mm-ID tube sampler. The sampler was driven with an 80 kg downhole hammer dropped approximately 1.5 m.

CLASSIFICATION TESTS BLOW COUNTS AND ROCK QUALITY

PERCENT PASSING #200 SIEVE

WATER CONTENT (%)

TOTAL UNIT WEIGHT (kN/m³)

THEORETICAL TOTAL UNIT WEIGHT (kN/m³)

PLASTIC LIMIT LIQUID LIMIT

EQUIVALENT SPT BLOW COUNT = (MC BLOWCOUNT/1.5) OR SPT BLOWCOUNT

ROCK QUALITY DESIGNATION (RQD)

ROCK RECOVERY PERCENT

ROCK CORING RATE

STRENGTH TESTS

POCKET PENETROMETER

TORVANE

REMOTE VANE

MINIATURE VANE (RESIDUAL VANE)

UNCONSOLIDATED UNDRAINED TRIAXIAL

SWEDISH FALL CONE

UNCONFINED COMPRESSION (SOIL)

UNCONFINED COMPRESSION (ROCK)

Open symbols indicate remolded tests

Shear Strength interpreted from CPT Tip Resistance (N_{ik} = 12-15)

POINT LOAD TEST (ROCK-INTACT SPECIMEN)

POINT LOAD TEST (ROCK-ALONG WEAK PLANE)

UNCONFINED COMPRESSION (ROCK)

Soil: Strength Exceeds Capacity of Measuring Device

Rock: Sample broke along discontinuity, intact sample would have greater strength

FRACTURE DENSITY (ROCK)

STRENGTH OF COHESIVE SOILS

Undrained Shear Strength

Consistency

Very Soft: less than 12 kPa

Soft: 12 to 25 kPa

Firm: 25 to 50 kPa

Stiff: 50 to 100 kPa

Very Stiff: 100 to 200 kPa

Hard: greater than 200 kPa

DENSITY OF GRANULAR SOILS

Descriptive Term

Very Loose: less than 15

Loose: 15 to 35

Medium Dense: 35 to 65

Dense: 65 to 85

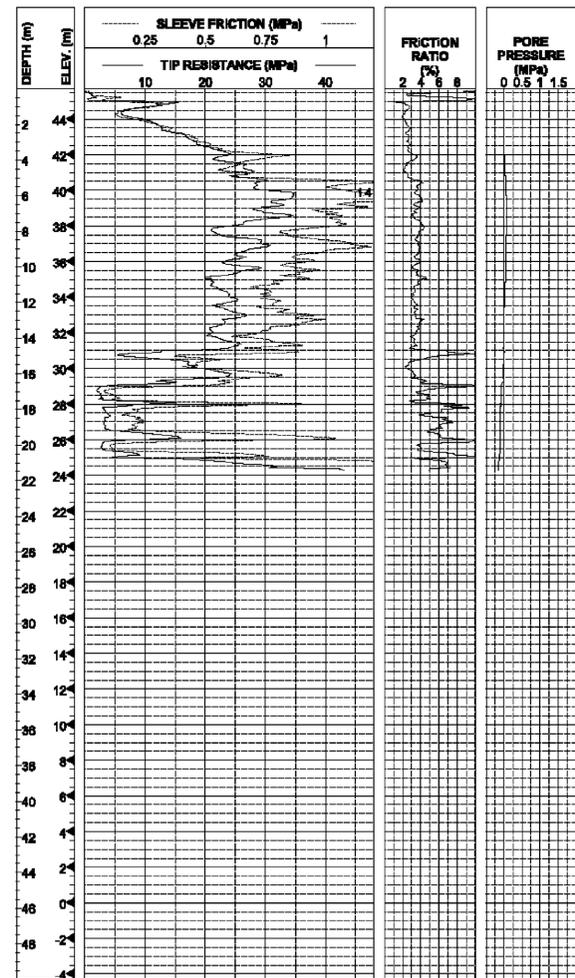
Very Dense: greater than 85

*Estimated from sampler driving record and CPT tip resistance.

CPT 99C-140

COORDINATES: E1835929 N847140
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 45.7m (MSL)
 START DATE: 11/22/99

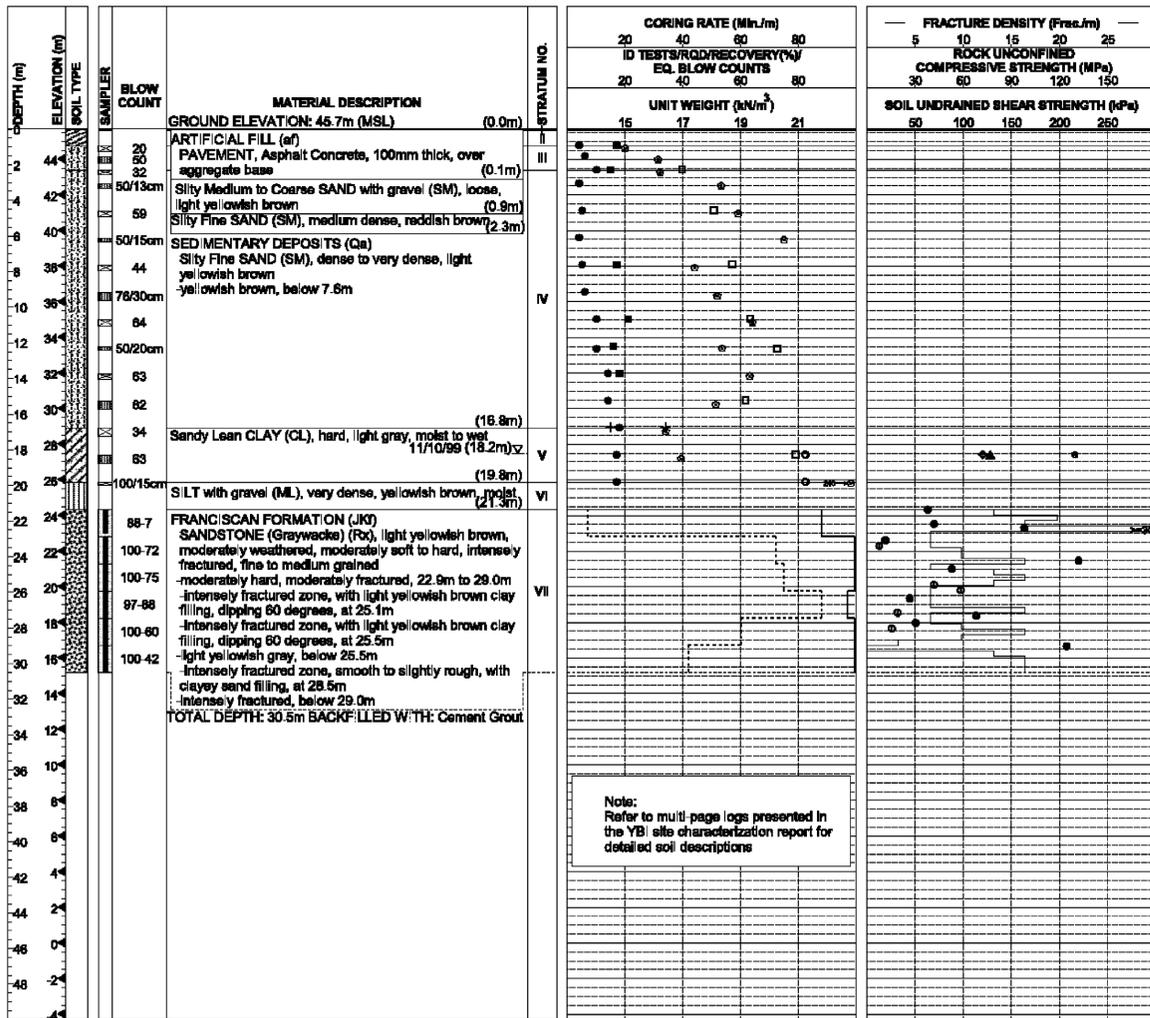
STATION: 2m right of R1 Sta. 51+26
 COMPLETION ELEVATION: 24.2m (MSL)
 CONE END AREA: 15.00 sq. cm
 (Area Ratio = 0.56)



BORING 99-204

COORDINATES: E1835929 N847138
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 45.7m (MSL)
 START DATE: 11/8/99

STATION: 2m right of R1 Sta. 51+25
 COMPLETION ELEVATION: 15.2m (MSL)
 END DATE: 11/10/99



ROBERT PRICE / SABA MOHAN GEOTECHNICAL DESIGN OVERSIGHT		DRAWN BY J. PALMER	S. SICILIANO FIELD INVESTIGATOR	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		M. KAPUSKAR PROJECT ENGINEER	BRIDGE NO. 34-0172 S
CHECKED BY M. KAPUSKAR, S. VARATHARAJ		DATE SEE ABOVE		CU 04251 EA 0120S1		KM POST	
						POST MILE	

SAN FRANCISCO OAKLAND BAY BRIDGE
 EAST SPAN SEISMIC SAFETY PROJECT

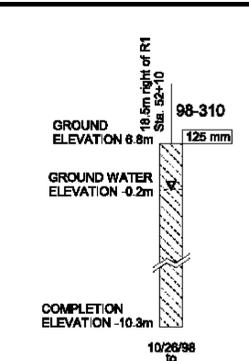
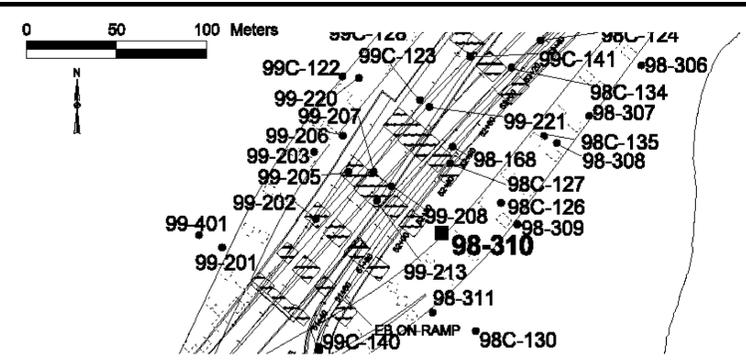
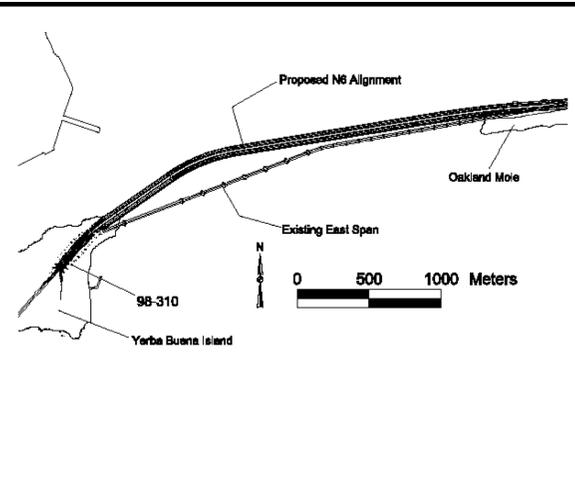
YBI EB ON-RAMP STRUCTURE

LOG OF TEST BORINGS NO. 2

REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
		49	61

SOIL AND ROCK TYPES

Well graded GRAVEL (GW)	Sandy fat CLAY (CH)
Poory graded GRAVEL (GP)	Lean CLAY (CL)
GRAVEL with sand (GP or GW)	Sandy lean CLAY (CL)
GRAVEL with clay (GP or GW)	Silty CLAY (CL-ML)
Clayey GRAVEL (GC)	Elastic SILT (MH)
GRAVEL with silt (GP or GW)	SILT (ML)
Silty GRAVEL (GM)	Sandy SILT (ML)
Well graded SAND (SW)	Clayey silt (ML/CL)
Poory graded SAND (SP)	Highly plastic ORGANICS (OH)
SAND with gravel (SP or SW)	Low plasticity ORGANICS (OL)
SAND with clay (SP-SC)	SANDSTONE (R)
Clayey SAND (SC)	SILTSTONE (Rc)
Silty SAND (SM)	CLAYSTONE (Rc)
SAND with silt (SP-SM)	Interbedded Rock Strata (Rc)
Fat CLAY (CH)	PAVEMENT



Metric

REGISTERED GEOTECHNICAL ENGINEER
 2/25/08
 DATE

2-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MIKE KAPUSKAR
 No. GE 2564
 Exp. 12-31-08

FUGRO-EARTH MECHANICS,
 A JOINT VENTURE
 7750 Pardee Lane, Suite 120
 Oakland, CA 94621
 (510) 562-8833, FAX (510) 562-8858

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SAMPLERS

- 76mm-OD, 72mm-ID Thin Walled Tube
- 67mm-OD, 54mm-ID* Thin Walled Driven Tube
- 83.6mm-OD, 54mm-ID Offshore Liner
- 78mm-OD, 80mm-ID Modified California Liner
- 61mm-OD, 35mm-ID SPT Split Spoon Sampler
- Rock Core (inset symbol represents recovery %)

* A variable-OD, 54-mm-ID tapered driven tube was used to sample coarse sand, gravel and rock

STANDARD PENETRATION TEST (SPT) AND MODIFIED CALIFORNIA (MC) LINER SAMPLERS

Samplers were driven with a 63.5 kg hammer dropped approximately 760 mm.

20 Number of blows to produce 30 cm of penetration after the initial 15 cm of seating.

66/28cm Number of blows required to produce the indicated penetration after an initial 15 cm seating.

Ref/8cm 50 blows produced the indicated penetration during the initial 15 cm interval.

Note: In rock coring interval recovery(%) RQD are shown in the Blow Count column.

TUBE AND OFFSHORE LINER SAMPLERS

WOH Offshore Liner sample advanced with the weight of an 80 kg hammer.

PUSH or SAVE Pushed thin-walled 78mm-OD tube.

15/60cm Number of blows required to produce the indicated penetration using a 54mm-ID tube sampler. The sampler was driven with an 80 kg downhole hammer dropped approximately 1.5 m.

CLASSIFICATION TESTS BLOW COUNTS AND ROCK QUALITY

- PERCENT PASSING #200 SIEVE
- WATER CONTENT (%)
- TOTAL UNIT WEIGHT (kN/m³)
- THEORETICAL TOTAL UNIT WEIGHT (kN/m³)
- PLASTIC LIMIT LIQUID LIMIT
- EQUIVALENT SPT BLOW COUNT = (MC BLOWCOUNT/1.6) OR SPT BLOWCOUNT
- ROCK QUALITY DESIGNATION (RQD)
- ROCK RECOVERY PERCENT
- ROCK CORING RATE

STRENGTH TESTS

- POCKET PENETROMETER
- TORVANE
- REMIKOTE VANE
- MINIATURE VANE (RESIDUAL VANE)
- UNCONSOLIDATED UNDRAINED TRIAXIAL
- SWEDISH FALL CONE
- UNCONFINED COMPRESSION (SOIL)
- Open symbols indicate remolded tests
- Shear Strength interpreted from CPT Tip Resistance (Nk = 12-15)
- POINT LOAD TEST (ROCK-INTACT SPECIMEN)
- POINT LOAD TEST (ROCK-ALONG WEAK PLANE)
- UNCONFINED COMPRESSION (ROCK)
- Soil: Strength Exceeds Capacity of Measuring Device
- Rock: Sample broke along discontinuity; intact sample would have greater strength
- FRACTURE DENSITY (ROCK)

STRENGTH OF COHESIVE SOILS

Undrained Shear Strength kPa

Consistency kPa

Very Soft less than 12

Soft 12 to 25

Firm 25 to 50

Stiff 50 to 100

Very Stiff 100 to 200

Hard greater than 200

DENSITY OF GRANULAR SOILS

Descriptive Term Relative Density (%)*

Very Loose less than 15

Loose 15 to 35

Medium Dense 35 to 65

Dense 65 to 85

Very Dense greater than 85

*Estimated from sampler driving record and CPT tip resistance.

BORING 98-310

COORDINATES: E1835897 N647202
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 6.8m (MSL)
 START DATE: 10/26/98

STATION: 18.5m right of R1 Sta. 52+10
 COMPLETION ELEVATION: -10.3m (MSL)
 END DATE: 10/27/98

DEPTH (m)	ELEVATION (m)	SAMPLER	BLOW COUNT	MATERIAL DESCRIPTION	STRATUM NO.	CORING RATE (Min./m)				FRACTURE DENSITY (Fract./m)				
						20	40	60	80	5	10	15	20	25
				GROUND ELEVATION: 6.8m (MSL) (0.0m)		ID TESTS/RQD/RECOVERY(%) EQ. BLOW COUNTS				ROCK UNCONFINED COMPRESSIVE STRENGTH (MPa)				
				ARTIFICIAL FILL (af)		UNIT WEIGHT (kN/m ³)				SOIL UNDRAINED SHEAR STRENGTH (kPa)				
				PAVEMENT, Asphalt Concrete, 75mm thick (0.1m)		15	17	19	21	50	100	150	200	250
1	5.7	2		Silty SAND (SM), dark brown and dark yellowish brown, moist -with abundant angular rock and brick fragments (0.6m)	II									
2	4.7	7		BEACH DEPOSITS (Qa) Silty Fine SAND (SM), loose, dark brown and dark yellowish brown, moist (4.6m)	III									
3	3.7	6		SILT with fine sand (ML), loose, dark yellowish brown, moist -with angular sandstone fragments (6.4m)	IV									
4	2.7	27		SEDIMENTARY DEPOSITS (Qa) Clayey Fine SAND (SC), medium dense, mottled yellowish brown and gray, moist -laminated to thinly bedded (13mm), with roots and small rounded sandstone fragments to about 3mm diameter -with rounded gray sandstone gravel, at 8.1m (7.0m)	V									
5	1.7	28		Clayey SILT (ML-CL), hard, brown and mottled gray -with dark brown rounded rock fragments (9.1m)	VI									
6	0.7	75		FRANCISCAN FORMATION (JK) SANDSTONE (Graywacke) (Rc), dark yellowish brown -with pale brown in irregular zones, decomposed, soft, intersecting fractures with oxidized, smooth, planar surfaces (10.7m)	VII									
7	-0.3	100-7		SANDSTONE (Graywacke) (Rc), brown, moderately weathered, moderately hard (12.2m)	VIII									
8	-1.3	100-0		well Indurated, intensely fractured, with intersecting joints (20 to 70 degrees), bedding dipping 40 degrees -fractures are slightly rough to smooth, planar, closely spaced, with very thin, dark brown oxidation coatings -with 3mm thick quartz filling, at 13.6m	VIII									
9	-2.3	100-31		-fractures oriented predominately 45 to 60 degrees, at 14.6m	VIII									
10	-3.3	100-40		gray, slightly weathered to fresh, oxidation limited to joints, with clean, smooth joint surfaces predominately oriented 45 to 60 degrees, at 16.0m	VIII									
11	-4.3	100-66		TOTAL DEPTH: 17.1m BACKFILLED WITH Cement Grout	VIII									

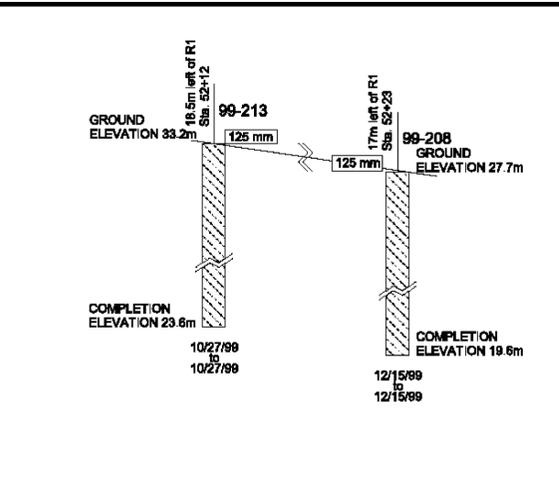
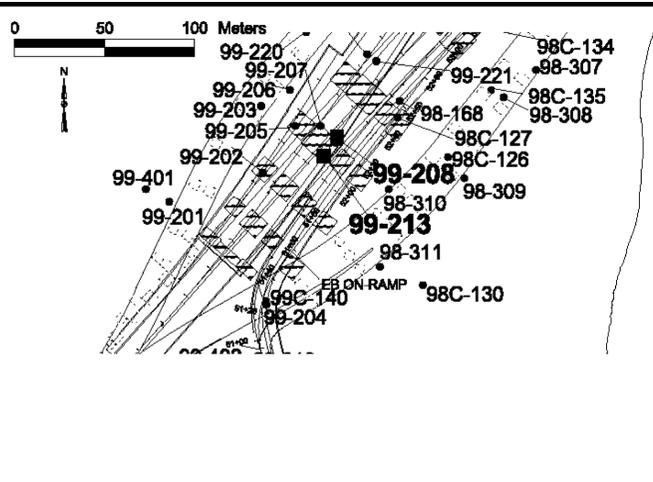
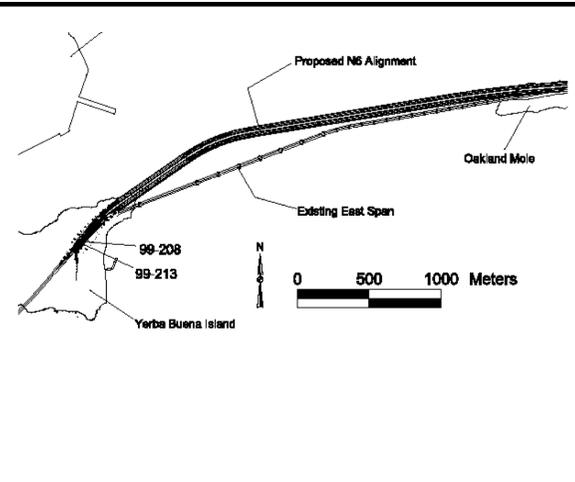
ROBERT PRICE / SABA MOHAN GEOTECHNICAL DESIGN OVERSIGHT	DRAWN BY A. BROUGHTON	B. SCHELL FIELD INVESTIGATOR	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		M. KAPUSKAR PROJECT ENGINEER	BRIDGE NO. 34-0172 S
CHECKED BY S. S. CILIANO, S. VARATHARAJ	DATE SEE ABOVE					KM POST
						POST MILE

**SAN FRANCISCO OAKLAND BAY BRIDGE
 EAST SPAN SEISMIC SAFETY PROJECT**

YBI EB ON-RAMP STRUCTURE

LOG OF TEST BORINGS NO. 4

SOIL AND ROCK TYPES	
Well graded GRAVEL (GW)	Sandy fat CLAY (CH)
Poorly graded GRAVEL (GP)	Lean CLAY (CL)
GRAVEL with sand (GP or GW)	Sandy lean CLAY (CL)
GRAVEL with clay (GP or GW)	Silty CLAY (CL-ML)
Clayey GRAVEL (GC)	Estic SILT (MH)
GRAVEL with silt (GP or GW)	SILT (ML)
Silty GRAVEL (GM)	Sandy SILT (ML)
Well graded SAND (SW)	Clayey silt (ML)
Poorly graded SAND (SP)	Highly plastic ORGANICS (OH)
SAND with gravel (SP or SW)	Low plasticity ORGANICS (OL)
SAND with clay (SP-SC)	SANDSTONE (Rd)
Clayey SAND (SC)	SILTSTONE (Rd)
Silty SAND (SM)	CLAYSTONE (Rd)
SAND with silt (SP-SM)	Interbedded Rock Strata (Rd)
Fat CLAY (CH)	PAVEMENT



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	717	821

Registered Geotechnical Engineer
 Mike Kapuskar
 No. GE 2564
 Exp. 12-31-08

2-21-12
 PLANS APPROVAL DATE

FUGRO-EARTH MECHANICS,
 A JOINT VENTURE
 7750 Pardee Lane, Suite 120
 Oakland, CA 94621
 (510) 562-8833, FAX (510) 562-8858

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SAMPLERS

- 76mm-OD, 72mm-ID Thin Walled Tube
- 67mm-OD, 54mm-ID* Thin Walled Driven Tube
- 83.6mm-OD, 64mm-ID Offshore Liner
- * A variable-OD, 64-mm-ID tapered driven tube was used to sample coarse sand, gravel and rock
- 78mm-OD, 80mm-ID Modified California Liner
- 61mm-OD, 36mm-ID SPT Split Spoon Sampler
- Rock Core (inset symbol represents recovery %)

STANDARD PENETRATION TEST (SPT) AND MODIFIED CALIFORNIA (MC) LINER SAMPLERS

Samplers were driven with a 63.5 kg hammer dropped approximately 760 mm.

20 Number of blows to produce 30 cm of penetration after the initial 15 cm of seating.

88/28cm Number of blows required to produce the indicated penetration after an initial 15 cm seating.

Ref/8cm 50 blows produced the indicated penetration during the initial 15 cm interval.

Note: In rock coring interval recovery(%)-RQD are shown in the Blow Count column.

TUBE AND OFFSHORE LINER SAMPLERS

WOH Offshore Liner sample advanced with the weight of an 80 kg hammer.

PUSH or SAVE Pushed thin-walled 78mm-OD-tube.

15/60cm Number of blows required to produce the indicated penetration using a 54mm-ID-tube sampler. The sampler was driven with an 80 kg downhole hammer dropped approximately 1.5 m.

CLASSIFICATION TESTS BLOW COUNTS AND ROCK QUALITY

- PERCENT PASSING #200 SIEVE
- WATER CONTENT (%)
- TOTAL UNIT WEIGHT (kN/m³)
- THEORETICAL TOTAL UNIT WEIGHT (kN/m³)
- PLASTIC LIMIT LIQUID LIMIT
- EQUIVALENT SPT BLOW COUNT = (MC BLOWCOUNT/8) OR SPT BLOWCOUNT
- ROCK QUALITY DESIGNATION (RQD)
- ROCK RECOVERY PERCENT
- ROCK CORING RATE

STRENGTH TESTS

- POCKET PENETROMETER
- TORVANE
- REMIKURE VANE
- MINIATURE VANE (RESIDUAL VANE)
- UNCONSOLIDATED UNDRAINED TRIAXIAL
- SWEDISH FALL CONE
- UNCONFINED COMPRESSION (BDL)
- (Open symbols indicate remolded tests)
- Shear Strength interpreted from CPT Tip Resistance (Nk = 12-15)
- POINT LOAD TEST (ROCK-INTACT SPECIMEN)
- POINT LOAD TEST (ROCK-ALONG WEAK PLANE)
- UNCONFINED COMPRESSION (ROCK)
- Soil: Strength Exceeding Capacity of Measuring Device
- Rock: Sample broke along discontinuity; intact sample would have greater strength
- FRACTURE DENSITY (ROCK)

STRENGTH OF COHESIVE SOILS

Undrained Shear Strength kPa

Consistency

Very Soft less than 12

Soft 12 to 25

Firm 25 to 50

Stiff 50 to 100

Very Stiff 100 to 200

Hard greater than 200

DENSITY OF GRANULAR SOILS

Descriptive Term Relative Density (%)*

Very Loose less than 15

Loose 15 to 35

Medium Dense 35 to 65

Dense 65 to 85

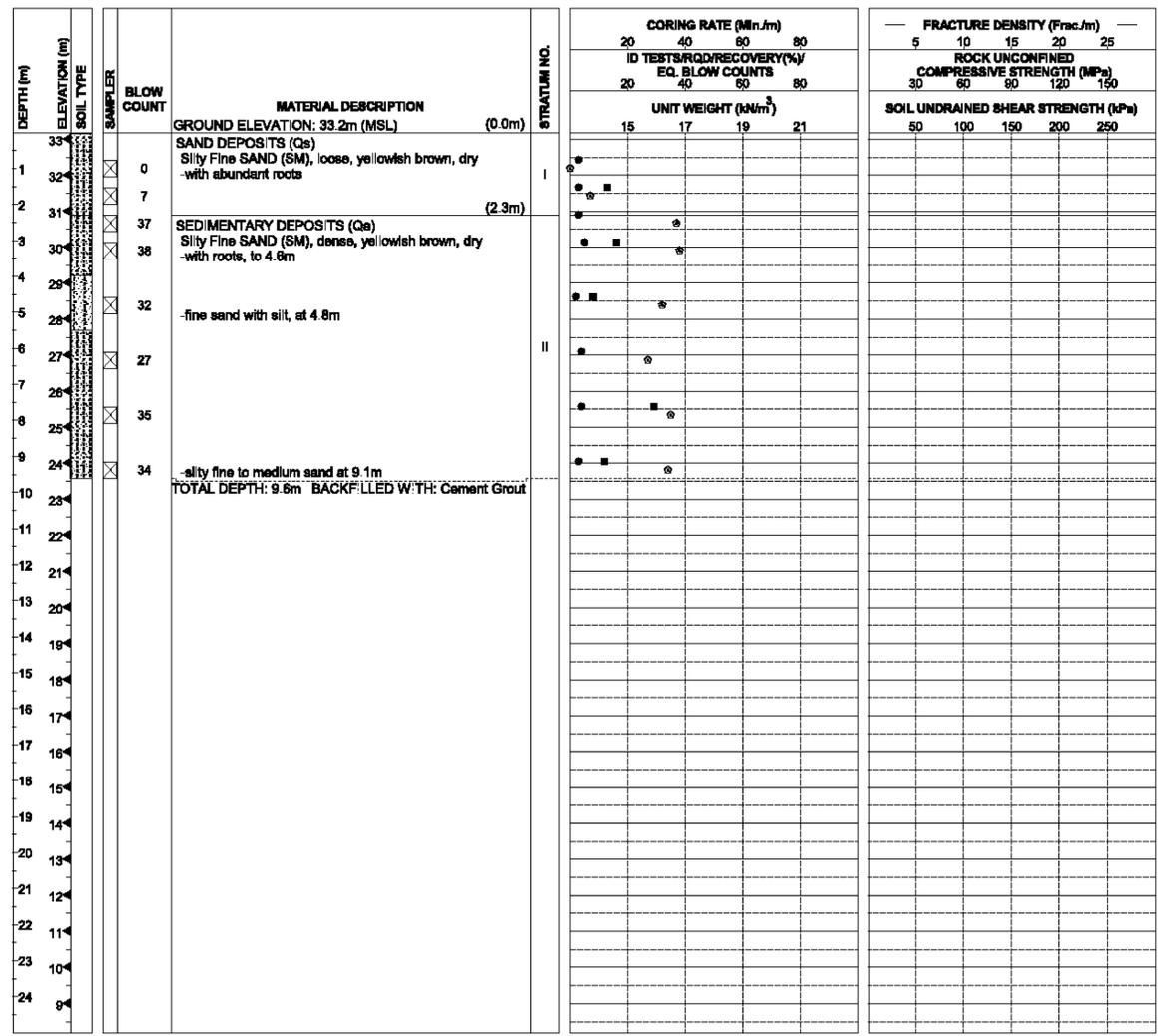
Very Dense greater than 85

*Estimated from sampler driving record and CPT tip resistance.

BORING 99-213

COORDINATES: E1835961 N647221
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 33.2m (MSL)
 START DATE: 10/27/99

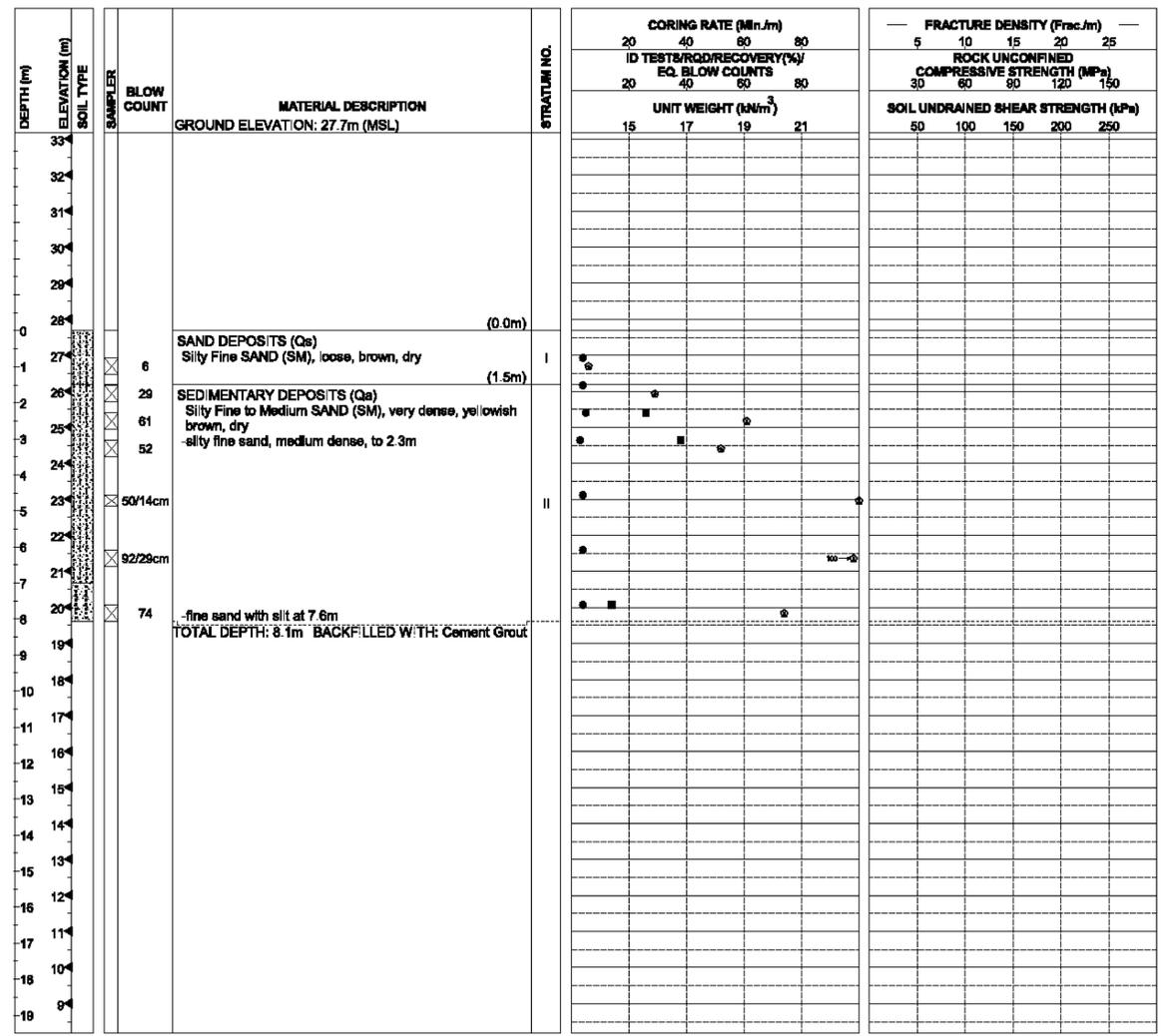
STATION: 18.5m left of R1 52+12
 COMPLETION ELEVATION: 23.6m (MSL)
 END DATE: 10/27/99



BORING 99-208

COORDINATES: E1835969 N647229
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 27.7m (MSL)
 START DATE: 12/15/99

STATION: 17m left of R1 Sta. 52+23
 COMPLETION ELEVATION: 19.6m (MSL)
 END DATE: 12/15/99



ROBERT PRICE / SABA MOHAN		DRAWN BY A. BROUGHTON		E. LIN		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		M. KAPUSKAR		BRIDGE NO. 34-0172 S		SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN SEISMIC SAFETY PROJECT									
GEOTECHNICAL DESIGN OVERSIGHT		CHECKED BY M. KAPUSKAR, S. VARATHARAJ		FIELD INVESTIGATOR		DATE: SEE ABOVE		PROJECT ENGINEER		KM POST				YBI EB ON-RAMP STRUCTURE LOG OF TEST BORINGS NO. 5							
ORIGINAL SCALE IN CENTIMETERS 0 1 2 3 4 5 6 7 8 9 10 FOR REDUCED PLANS												CU 04251 EA 0120S1				POST MILE		D/REGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	

SOIL AND ROCK TYPES

Well graded GRAVEL (GW)	Sandy fat CLAY (CH)
Poorly graded GRAVEL (GP)	Lean CLAY (CL)
GRAVEL with sand (GP or GW)	Sandy lean CLAY (CL)
GRAVEL with clay (GP or GW)	Silty CLAY (CL-ML)
Clayey GRAVEL (GC)	Estic SILT (MH)
GRAVEL with silt (GP or GW)	SILT (ML)
Silty GRAVEL (GM)	Sandy SILT (ML)
Well graded SAND (SW)	Clayey silt (ML-CL)
Poorly graded SAND (SP)	Highly plastic ORGANICS (OH)
SAND with gravel (SP or SW)	Low plasticity ORGANICS (OL)
SAND with clay (SP-SC)	SANDSTONE (Rc)
Clayey SAND (SC)	SILTSTONE (Rc)
Silty SAND (SM)	CLAYSTONE (Rc)
SAND with silt (SP-SM)	Interbedded Rock Strata (Rc)
Fat CLAY (CH)	PAVEMENT

SAMPLERS

76mm-OD, 72mm-ID Thin Walled Tube	76mm-OD, 80mm-ID Modified California Liner
57mm-OD, 54mm-ID* Thin Walled Driven Tube	61mm-OD, 35mm-ID SPT Split Spoon Sampler
83.6mm-OD, 64mm-ID Offshore Liner	Rock Core (inset symbol represents recovery %)

* A variable-OD, 64-mm-ID tapered driven tube was used to sample coarse sand, gravel and rock

STANDARD PENETRATION TEST (SPT) AND MODIFIED CALIFORNIA (MC) LINER SAMPLERS

Samplers were driven with a 63.5 kg hammer dropped approximately 760 mm.

20	Number of blows to produce 30 cm of penetration after the initial 15 cm of seating
66/28cm	Number of blows required to produce the indicated penetration after an initial 15 cm seating
Ref/8cm	50 blows produced the indicated penetration during the initial 15 cm interval

Note: In rock coring interval recovery(%) RQD are shown in the Blow Count column.

TUBE AND OFFSHORE LINER SAMPLERS

WOH	Offshore Liner sample advanced with the weight of an 80 kg hammer
PUSH or SAVE	Pushed thin-walled 76mm-OD tube
15/60cm	Number of blows required to produce the indicated penetration using a 54mm-ID tube sampler. The sampler was driven with an 80 kg downhole hammer dropped approximately 1.5 m.

CLASSIFICATION TESTS BLOW COUNTS AND ROCK QUALITY

- PERCENT PASSING #200 SIEVE
- WATER CONTENT (%)
- TOTAL UNIT WEIGHT (kN/m³)
- THEORETICAL TOTAL UNIT WEIGHT (kN/m³)
- PLASTIC LIMIT L_U Q_U D L_M I_M
- EQUIVALENT SPT BLOW COUNT = (MC BLOWCOUNT/8) OR SPT BLOWCOUNT
- ROCK QUALITY DESIGNATION (RQD)
- ROCK RECOVERY PERCENT
- ROCK CORING RATE

STRENGTH TESTS

- POCKET PENETROMETER
- TORVANE
- REMKOTE VANE
- MINIATURE VANE @ RESIDUAL VANE
- UNCONSOLIDATED UNDRAINED TRIAXIAL
- SWEDISH FALL CONE
- UNCONFINED COMPRESSION (80L)
- Open symbols indicate remolded tests
- Shear Strength interpreted from CPT Tip Resistance (Nk = 12-15)
- POINT LOAD TEST (ROCK-INTACT SPECIMEN)
- POINT LOAD TEST (ROCK-ALONG WEAK PLANE)
- UNCONFINED COMPRESSION (ROCK)
- Soil: Strength Exceeds Capacity of Measuring Device
- Rock: Sample broke along discontinuity; insect sample would have greater strength
- FRACTURE DENSITY (ROCK)

STRENGTH OF COHESIVE SOILS

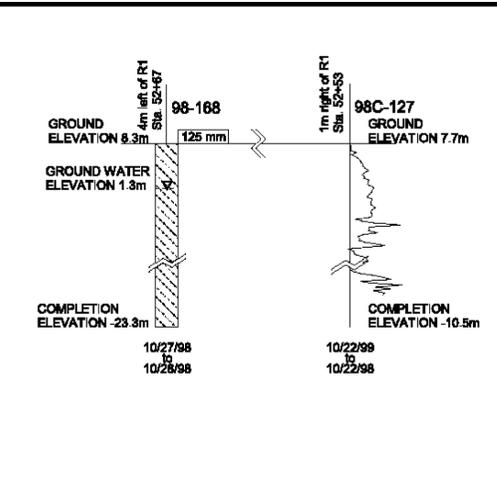
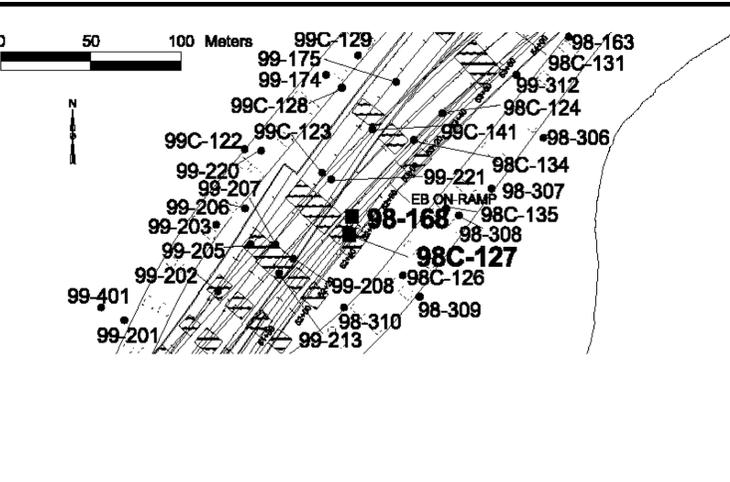
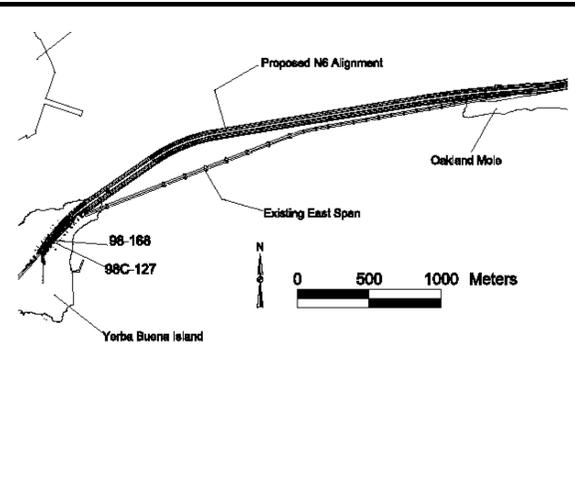
Undrained Shear Strength kPa

Very Soft	less than 12
Soft	12 to 25
Firm	25 to 50
Stiff	60 to 100
Very Stiff	100 to 200
Hard	greater than 200

DENSITY OF GRANULAR SOILS

Descriptive Term	Relative Density (%)
Very Loose	less than 15
Loose	15 to 35
Medium Dense	35 to 65
Dense	65 to 85
Very Dense	greater than 85

* Estimated from sampler driving record and CPT tip resistance.



Metric

REGISTERED GEOTECHNICAL ENGINEER
 2-21-12
 PLANS APPROVAL DATE

2/25/08
 DATE

REGISTERED PROFESSIONAL ENGINEER
 MIKE KAPUSKAR
 No. GE 2564
 Exp. 12-31-08

FUGRO-EARTH MECHANICS,
 A JOINT VENTURE
 7750 Pardee Lane, Suite 120
 Oakland, CA 94621
 (510) 562-8833, FAX (510) 562-8858

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BORING 98-168

COORDINATES: E1836003 N647251
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 8.3m (MSL)
 START DATE: 10/27/98

STATION: 4m left of R1 Sta. 52+67
 COMPLETION ELEVATION: -23.3m (MSL)
 END DATE: 10/28/98

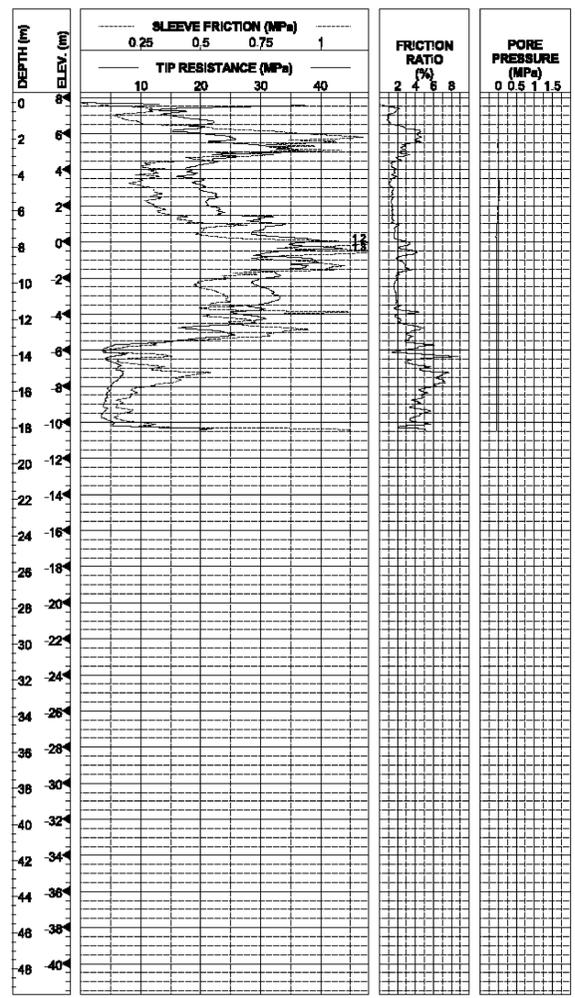
DEPTH (m)	ELEVATION (m)	SAMPLER	BLOW COUNT	MATERIAL DESCRIPTION	STRATUM NO.	CORING RATE (Min./m)				FRACTURE DENSITY (Fract./m)								
						ID TESTS/RQD/RECOVERY(%)	Eq. BLOW COUNTS	20	40	60	80	5	10	15	20	25		
0.0	8.3			GROUND ELEVATION: 8.3m (MSL)														
0.3	8.0		49	ARTIFICIAL FILL (af)	II													
0.3	8.0		34	PAVEMENT, 125 mm Asphalt Concrete over 63 mm of Aggregate Base														
3.0	5.3		57	SEDIMENTARY DEPOSITS (Qe)	III													
3.0	5.3		73	Silty Fine SAND (SM), dense, dark yellowish brown, moist														
6.1	2.2		85	Fine SAND with silt (SP-SM), dense to very dense, dark yellowish brown, moist Estimated (7.0m)														
6.1	2.2		50/15cm	-with some low plasticity clay														
6.1	2.2		52	Silty Fine SAND (SM), dense to very dense, dark yellowish brown	IV													
6.1	2.2		50/15cm	-faint bedding, thinly bedded to laminated														
13.7	-5.4		60		V													
13.7	-5.4		82	Silty Fine SAND (SM), very dense, brown														
15.2	-6.9		60		VI													
15.2	-6.9		59/30cm	Lean CLAY with sand (CL), hard, gray -with abundant yellowish brown mottles and streaks, moist														
18.3	-9.9		49	-slight increase in fine sand content, below 18.0m	VII													
18.3	-9.9		50/5cm	Sandy Lean CLAY (CL), hard, gray														
19.8	-11.4		68	Clayey SAND (SC) to Silty CLAY with SAND (CL-ML) very dense, yellowish brown, with sandstone fragments	VIII													
21.3	-12.9		Ref/5cm	Sandy SILT (ML), hard, yellowish brown	IX													
21.3	-12.9		100-17	Fine SAND with silt (SP-SM), very dense, yellowish brown, moist	X													
21.3	-12.9		100-19	FRANCISCAN FORMATION (JK)	XI													
21.3	-12.9		100-54	SANDSTONE (Graywacke) (Rc), dark yellowish brown, moderately weathered	XII													
21.3	-12.9		100-50	SANDSTONE (Graywacke) (Rc) and SILTSTONE (Rc) [7:1], bedding dipping 45 degrees, weathering limited to fractures	XIII													
21.3	-12.9		100-36	SANDSTONE (Graywacke) (Rc), gray, fresh, hard (29.0m)	XIV													
21.3	-12.9			SANDSTONE (Graywacke) (Rc) and SILTSTONE (Rc) [3:1], bedding dipping 40 degrees, fresh, weathering limited to fractures, well indurated														
31.8	-23.3			TOTAL DEPTH: 31.8m BACKFILLED WITH Cement Grout														

Note:
 Refer to multi-page logs presented in the YBI site characterization report for detailed soil descriptions

CPT 98C-127

COORDINATES: E1836002 N647242
 CA State Plane Zone 3, NAD83, Meters
 GROUND ELEVATION: 7.7m (MSL)
 START DATE: 10/22/98

STATION: 1m right of R1 Sta. 52+53
 COMPLETION ELEVATION: -10.5m (MSL)
 CONE END AREA: 15.00 sq. cm
 (Area Ratio = 0.56)



ROBERT PRICE / SABA MOHAN GEOTECHNICAL DESIGN OVERSIGHT	DRAWN BY J. PALMER	B. SCHELL FIELD INVESTIGATOR	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 34-0172 S
CHECKED BY M. KAPUSKAR, R. JIE, S. S. CILIANO, S. VARATHARAJ	DATE SEE ABOVE	PROJECT ENGINEER	POST MILE	KM POST

SAN FRANCISCO OAKLAND BAY BRIDGE
 EAST SPAN SEISMIC SAFETY PROJECT

YBI EB ON-RAMP STRUCTURE

LOG OF TEST BORINGS NO. 6

ORIGINAL SCALE IN CENTIMETERS 0 1 2 3 4 5 6 7 8 9 10 FOR REDUCED PLANS	CU 04251 EA 0120S1	POST MILE	D/REGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 53 OF 61
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LEGEND OF BORING OPERATIONS

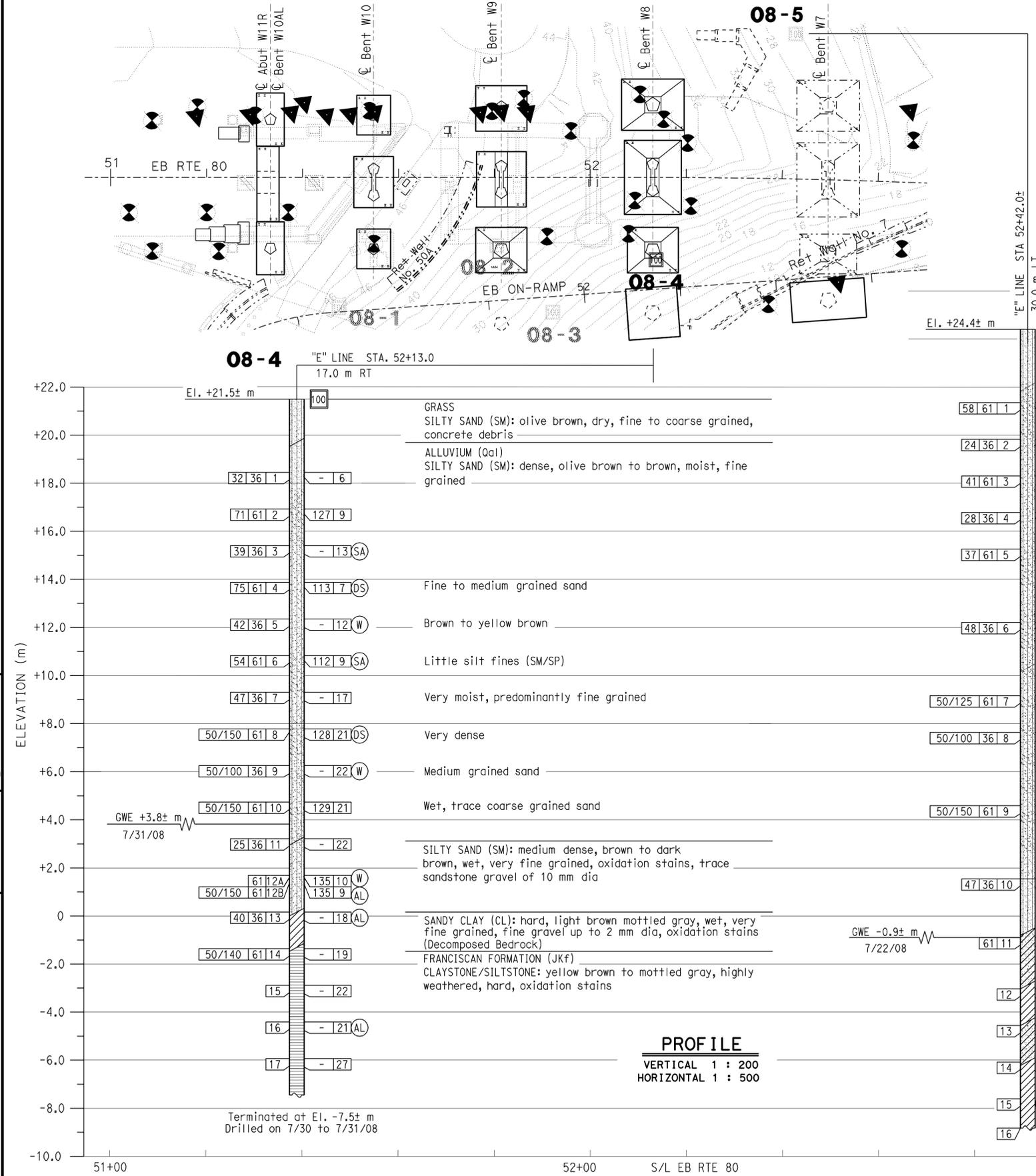
IN-SITU, LAB & FIELD TEST DESIGNATIONS

TYPE OF BORINGS

LEGEND FOR EARTH MATERIALS (USCS)

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE: Visual classification of earth materials are based on field inspection and are confirmed or revised with laboratory test results as necessary.



Caltrans Metric

PLAN 1:500

NOTES:
61 mm samples were taken using a California split-barrel sampler with an inside diameter (I.D.) of 61 mm and an outside diameter (O.D.) of 75 mm. A rope and cathead hammer system consisting of a hammer weight of 62.5 kg falling a distance of 762 mm was used to advance the drive samplers.

09/05/08
GEOLOGICAL PROFESSIONAL

2-21-12
PLANS APPROVAL DATE

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FUGRO-EARTH MECHANICS, J.V.
7750 Pardee Lane, Suite 120
Oakland, CA 94621

SABA MOHAN DESIGN OVERSIGHT SIGN OFF DATE		DRAWN BY K. THANT 08/15/08		CHECKED BY M. KAPUSKAR 09/25/08		FIELD INVESTIGATION BY: K. THANT DATE: As Noted		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		PROJECT ENGINEER M. KAPUSKAR		BRIDGE NO. 34-0006 S		YBI EB ON-RAMP STRUCTURE (FINAL)	
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		HORIZONTAL 1 : 500		VERTICAL 1 : 200		TERMINATED AT EL. -7.5± m Drilled on 7/30 to 7/31/08		TERMINATED AT EL. -8.8± m Drilled on 7/21 to 7/22/08		KILOMETER POST 12.8		LOG OF TEST BORINGS NO.9		SHEET 56 OF 61	

FILE => 04-012011-34-0006s-z-1+tb09.dgn

DATE PLOTTED => 25-FEB-2012

TIME PLOTTED => 07:09



DIVISION OF ENGINEERING SERVICES - OFFICE OF 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 confirm 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	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
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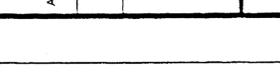
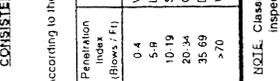
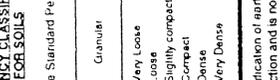
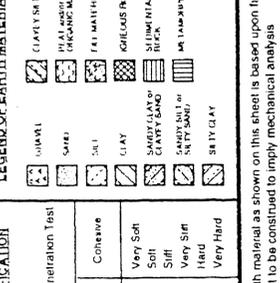
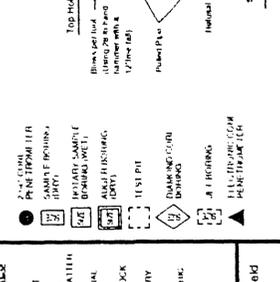
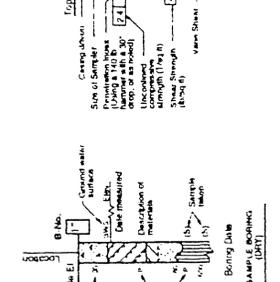
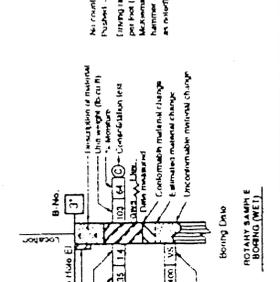
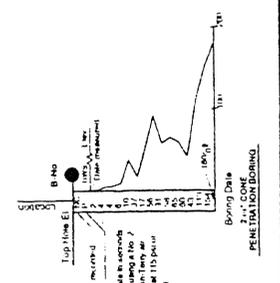
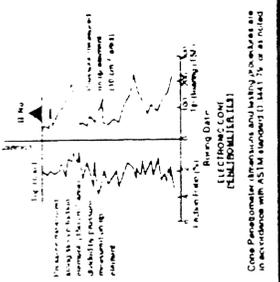
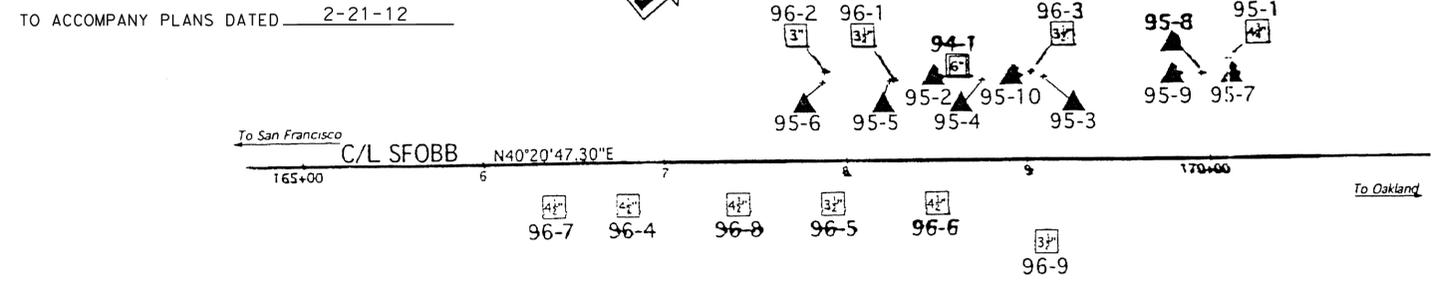
REGISTERED ENGINEER - CIVIL *R.W. Fox* 2/18/08
DATE

YBI EB ON-RAMP STRUCTURE (INITIAL)
AS-BUILT LOG OF TEST BORINGS NO. 1

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA. CU: 04251 BRIDGE No. 34-0172 S EA: 0120S1

Revisions made to this Log of Test Borings from the original 1996 Log of Test Borings are the addition of the following notes:

1. Note 1 below is changed as follows: "All elevations shown refer to Mean Lower Low Water (M.L.L.W.) Datum of 0.0. To convert M.L.L.W. elevations to Mean Sea Level (M.S.L.) Datum of 1929, subtract 3.1 feet."



Descriptor	Diagnostic features				Texture and sounding		General character, etc. (strength, excavation, etc.)
	Chemical weathering (coloration and/or oxidation)	Structural weathering (disaggregation, primary for granites and some coarse-grained sediments)	Fracture surfaces	Grain boundaries (disaggregation)	Texture	Sounding	
W1 Fresh	No discoloration, not oxidized	No discoloration or oxidation	No separation intact (tight)	No separation intact (tight)	No change	No sounding	Hammer rings when crystalline rocks struck. Almost always rock excavation except for naturally weak or weakly cemented rocks such as limestones or shales.
W2 Slightly weathered to fresh							
W3 Slightly weathered	Discoloration or oxidation is limited to surface of or on short distance from fractures. Some feebly crystals are out	Minor to complete discoloration or oxidation of most surfaces	No visible separation (tight)	No visible separation (tight)	Preserved	Minor etching of some soluble minerals may be noted	Hammer rings when crystalline rocks struck. Body of rock not weakened. In less as shales, such as shales or shales, classified as rock excavation.
W4 Moderately to slightly weathered							
W5 Moderately weathered	Discoloration or oxidation extends from fractures usually throughout. Fe-Mg minerals are "milky", lustrous crystals are "cloudy"	All fracture surfaces are discolored or oxidized	Partial separation of boundaries visible	Partial separation of boundaries visible	Generally preserved	Some etching of some soluble minerals may be noted	Hammer rings when crystalline rocks struck. Body of rock is slightly weakened. Depending on fracturing usually is rock excavation except in naturally weak rocks such as limestones or shales.
W6 Intensely to moderately weathered							
W7 Intensely weathered	Discoloration or oxidation throughout. All fractures and Fe-Mg minerals are altered to clay to some extent or chemical alteration products in situ (disaggregation, see grain boundary conditions)	All fracture surfaces are discolored or oxidized, surfaces friable	Partial separation, rock is friable, in some conditions granitic are disaggregated	Partial separation, rock is friable, in some conditions granitic are disaggregated	Texture altered by chemical disintegration (fracture angulation)	Leaching of soluble minerals may be complete	Dull sound when struck with hammer usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as bedding, jointing, or verticals. Rock is significantly weakened. Usually common excavation.
W8 Very intensely weathered							
W9 Decomposed	Discolored or oxidized throughout, but resistant minerals such as quartz may be altered. Fe-Mg minerals are completely altered to clay	Complete separation of grain boundaries (disaggregated)			Resembles a soil, partial or complete remnant rock structure may be preserved, leaching of soluble minerals usually complete		Can be granulated by hand. Always common excavation. Resistant minerals such as quartz may be present as "stringers" or "clasts"

Note: This chart and its horizontal categories are more readily applied to rocks with limestones and mica minerals. Weathering in various sedimentary rocks, particularly limestones and poorly indurated sandstones, will not always fit the categories established. This chart and weathering categories may have to be modified for particular site conditions or alteration such as hydrothermal effects. However, the basic framework and similar descriptors are to be used.

* Combination descriptors are permissible where equal distribution of both weathering characteristics are present over significant intervals or where characteristics present are "in between" the diagnostic feature. However, dual descriptors should not be used where significant, identifiable zones can be delineated. When given as a range, only two additional terms may be combined (i.e., decomposed to highly weathered or moderately weathered to fresh) are not acceptable.

† Does not include diagonal weathering along joints or faults and their associated features. For example, a shear zone that carried weathering to great depths into a fresh rock mass would not return the rock mass to be classified as weathered.

‡ These are generalizations and should not be used as diagnostic features for weathering or excavation classification. These characteristics vary to a large extent based on naturally weak materials or cementation and type of excavation.

Alphanumeric descriptor	Descriptor	Criteria
H1	Extremely hard	Core, fragment, or exposure cannot be scratched with knife or sharp pick; can only be chipped with repeated heavy hammer blows.
H2	Very hard	Cannot be scratched with knife or sharp pick. Core of fragment breaks with repeated heavy hammer blows.
H3	Hard	Can be scratched with knife or sharp pick with difficulty (heavy pressure). Heavy hammer blow required to break specimen.
H4	Moderately hard	Can be scratched with knife or sharp pick with light or moderate pressure. Core or fragment breaks with moderate hammer blow.
H5	Moderately soft	Can be grooved 1/16 inch (2 mm) deep by knife or sharp pick with moderate or heavy pressure. Core or fragment breaks with light hammer blow or heavy manual pressure.
H6	Soft	Can be grooved or gouged easily by knife or sharp pick with light pressure; can be scratched with fingernail. Breaks with light to moderate manual pressure.
H7	Very soft	Can be readily indented, grooved or gouged with fingernail, or carved with a knife. Breaks with light manual pressure.

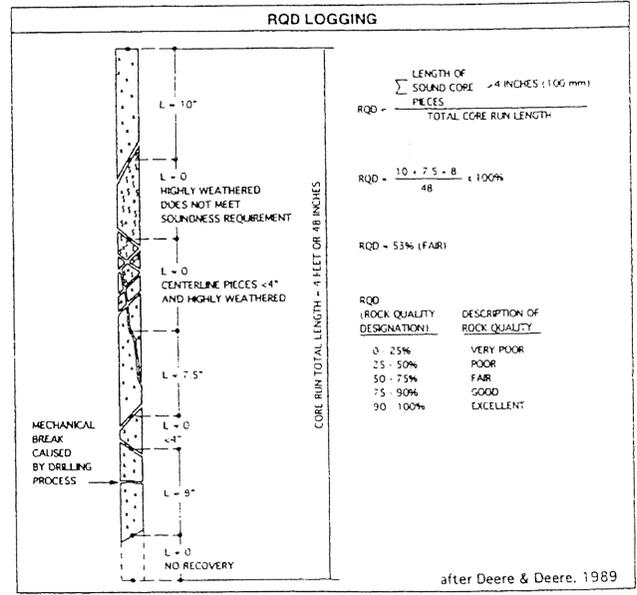
Any bedrock unit softer than H7, very soft, is to be described using USBR 5000 consistency descriptors.

Note: Although "sharp pick" is included in these definitions, descriptions of ability to be scratched, grooved or gouged by a knife is the preferred criteria.

Descriptors	Thickness / Spacing
Massive	Greater than 10 ft (3 m)
Very thickly (bedded, foliated, or banded)	3 to 10 ft (1 to 3 m)
Thickly	1 to 3 ft (300 mm to 1 m)
Moderately	0.3 to 1 ft (100 to 300 mm)
Thinly	0.1 to 0.3 ft (30 to 100 mm)
Very thinly	0.03 (3/8 in) to 0.1 ft (10 to 30 mm)
Laminated (intensely foliated or banded)	Less than 0.03 ft (3/8 in) (<10 mm)

Fracture Density	Description
UNFRACTURED (FD0)	No fractures.
VERY SLIGHTLY FRACTURED (FD1)	Core recovered mostly in lengths greater than 3 feet (1 m).
SLIGHTLY TO VERY SLIGHTLY FRACTURED (FD2)*	
SLIGHTLY FRACTURED (FD3)	Core recovered mostly in lengths from 1 to 3 feet (300 to 1000 mm) with few scattered lengths less than 1 foot (300 mm) or greater than 3 feet (1000 mm).
MODERATELY TO SLIGHTLY FRACTURED (FD4)*	
MODERATELY FRACTURED (FD5)	Core recovered mostly in 0.3 to 1.0 foot (100 to 300 mm) lengths with most lengths about 0.6 foot (200 mm).
INTENSELY TO MODERATELY FRACTURED (FD6)*	
INTENSELY FRACTURED (FD7)	Lengths average from 0.1 to 0.3 foot (30 to 100 mm) with scattered fragmented intervals. Core recovered mostly in lengths less than 0.3 foot (100 mm).
VERY INTENSELY TO INTENSELY FRACTURED (FD8)*	
VERY INTENSELY FRACTURED (FD9)	Core recovered mostly as chips and fragments with a low scattered short core lengths.

* Combinations of fracture densities (e.g. Very Intensely to Intensely Fractured or Moderately to Slightly Fractured) are used where equal distribution of both fracture density characteristics are present over a significant interval or exposure, or where characteristics are "in between" the descriptor definitions.



Consistency Classification	Soils
Very Loose	CLAYEY SILT
Loose	SANDY SILT
Slightly compact	SILT
Compact	CLAY
Dense	CLAYEY SAND
Very Dense	SANDY SILT or SILTY SAND
	SILT
	CLAYEY SILT
	SANDY SILT
	SILT
	CLAY
	CLAYEY SAND
	SANDY SILT or SILTY SAND
	SILT
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	12.6/13.9	723	821

2-21-12
 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.

FOR PLAN VIEW SEE "LOG OF TEST BORINGS 1 OF 13"

DIVISION OF ENGINEERING SERVICES - OFFICE OF 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 confirm 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	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
04	SF	80	12.6/13.9	723	821

REGISTERED ENGINEER - CIVIL: *R. W. Fox* 2/18/08
 DATE: _____

YBI EB ON-RAMP STRUCTURE (INITIAL)

AS-BUILT LOG OF TEST BORINGS NO. 2

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA. CU: 04251 BRIDGE No. 34-0004 EA: 0120S1 34-0172 S

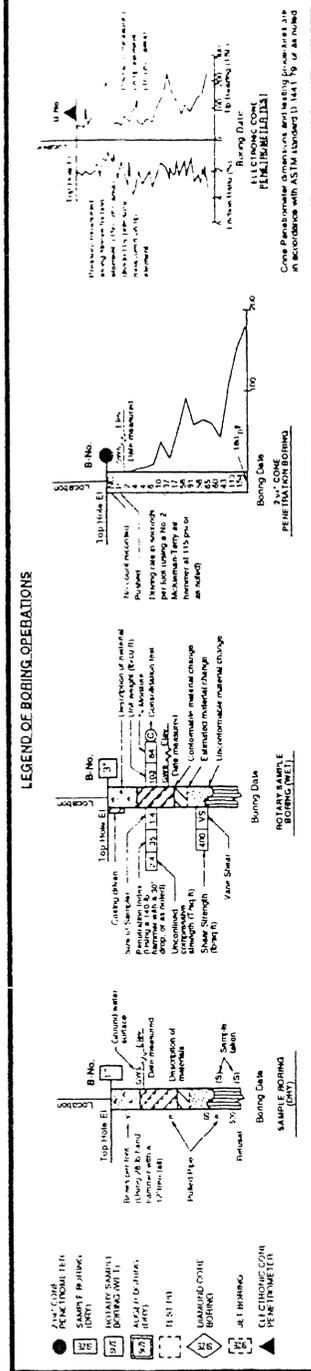


Revisions made to this Log of Test Borings from the original Log of Test Borings are the addition of the following notes:

- Refer to Boring Location Plan 1 of 13 for borehole locations and elevation datum.
- Stations, dimensions and elevations shown on this plan are in English units.

TO ACCOMPANY PLANS DATED 2-21-12

LEGEND OF BORING OPERATIONS



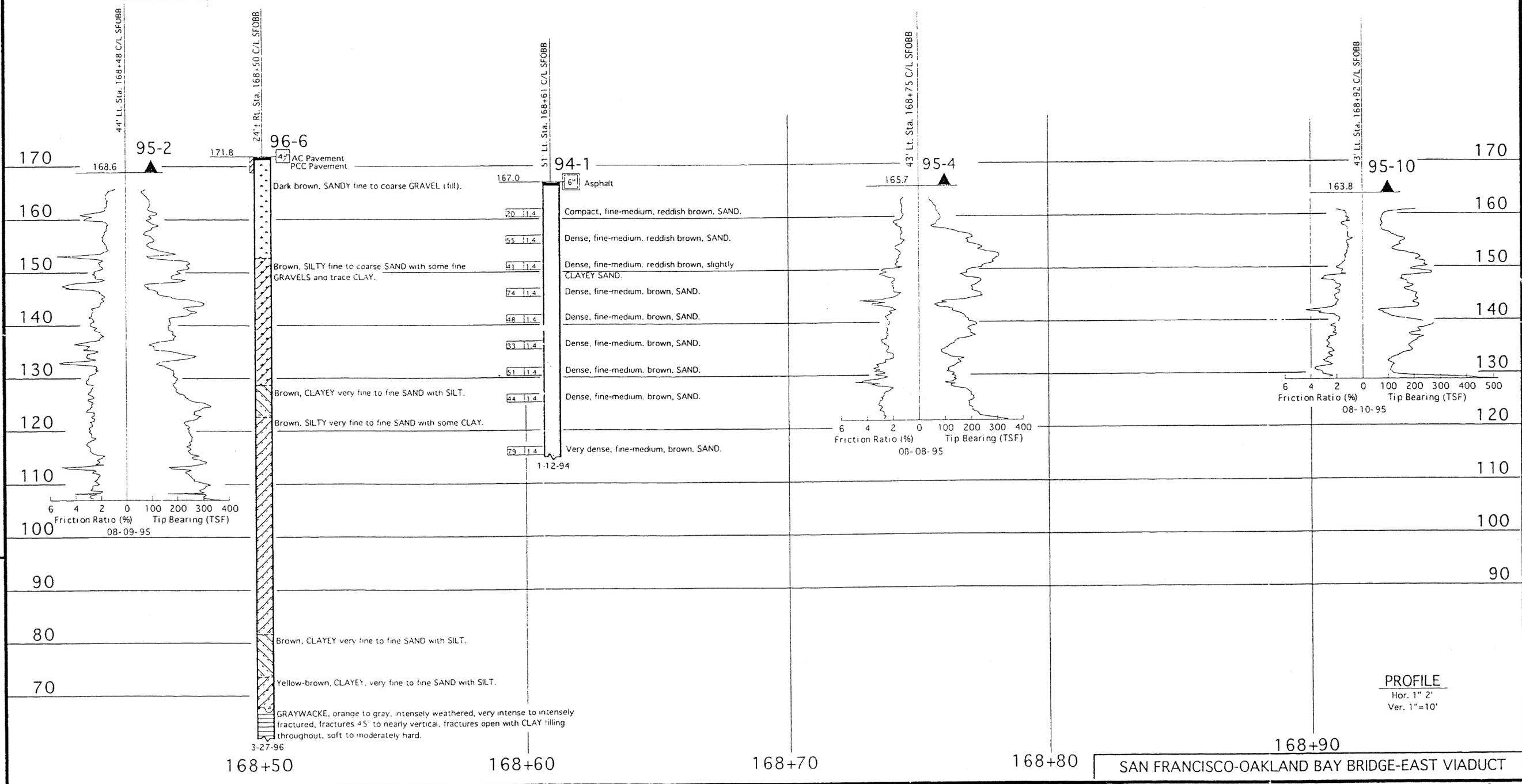
LEGEND OF EARTH MATERIALS

Consistency Classification	Symbol
Very Soft	(Symbol)
Soft	(Symbol)
Slightly compact	(Symbol)
Compact	(Symbol)
Dense	(Symbol)
Very Dense	(Symbol)

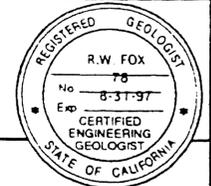
Consistency Classification for Soils

Penetration (Blows/ft)	Consistency
0-4	Very Soft
5-9	Soft
10-19	Slightly compact
20-34	Compact
35-69	Dense
>70	Very Dense

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



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SF	80	12.6/13.9	724	821



2-21-12
PLANS APPROVAL DATE

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FOR PLAN VIEW SEE "LOG OF TEST BORINGS 1 OF 13"

DIVISION OF ENGINEERING SERVICES - OFFICE OF 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 confirm 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:	KILOMETER POST - TOTAL PROJECT:	Sheet No.:	Total Sheets:
04	SF	80	12.6/13.9	724	821

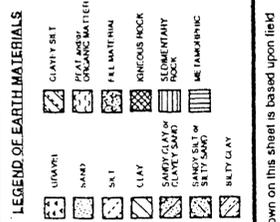
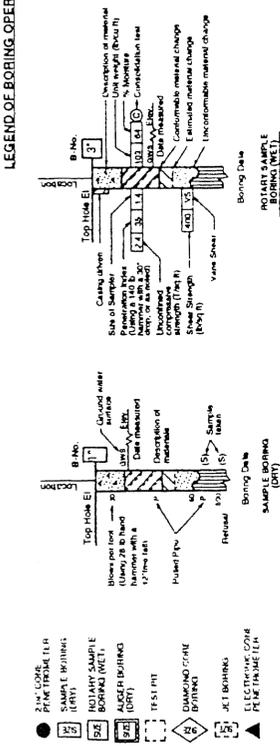
REGISTERED ENGINEER - CIVIL
DATE: 2/18/08
YBI EB ON-RAMP STRUCTURE (INITIAL)
AS-BUILT LOG OF TEST BORINGS NO. 3

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA
CU: 04251 BRIDGE NO. 34-0004
EA: 0120S1 34-0172 S



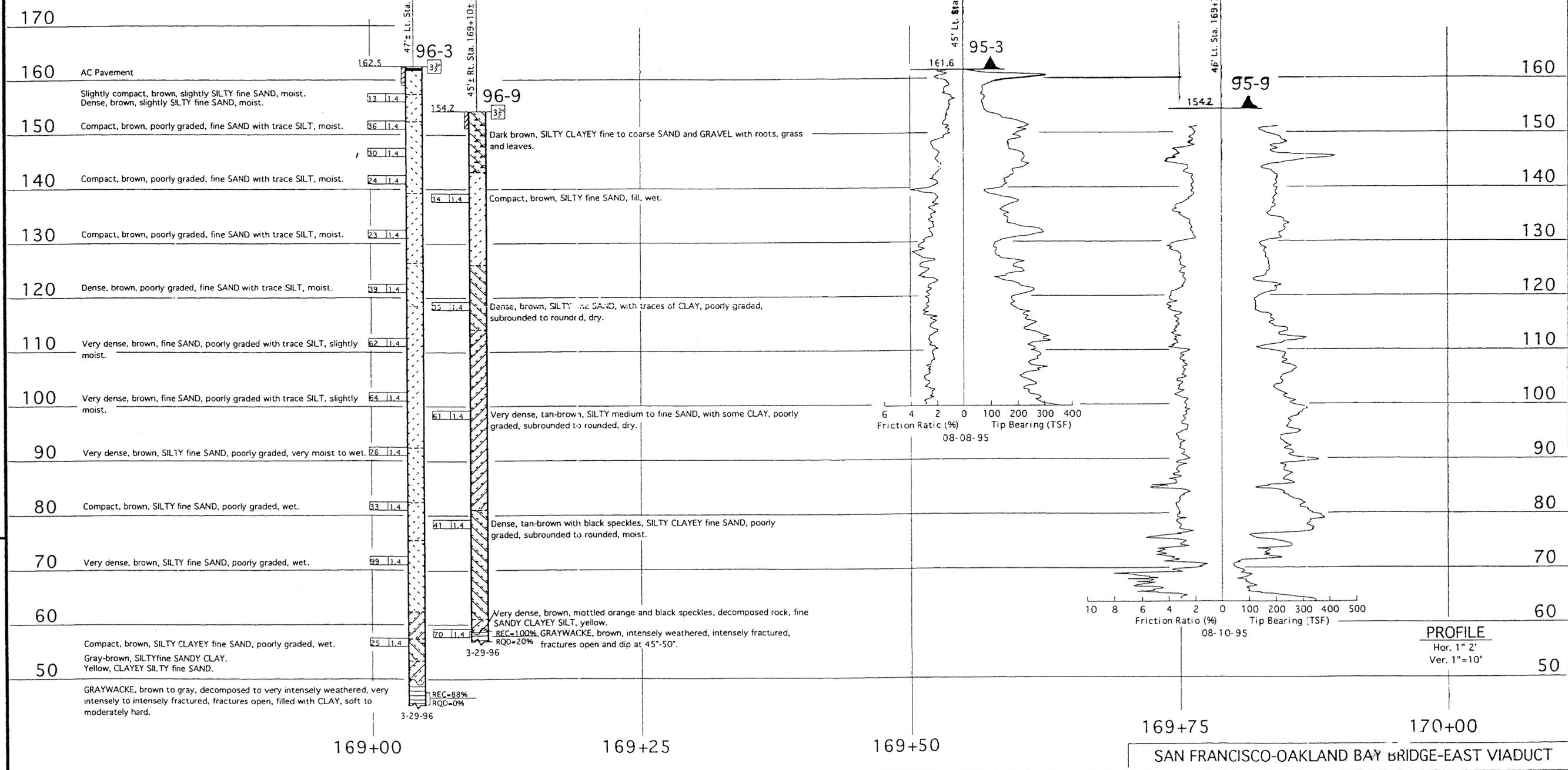
Revisions made to this Log of Test Borings from the original Log of Test Borings are the addition of the following notes:
1. Refer to Boring Location Plan 1 of 13 for borehole locations and elevation datum.
2. Stations, dimensions and elevations shown on this plan are in English units.
TO ACCOMPANY PLANS DATED 2-21-12

LEGEND OF BORING OPERATIONS

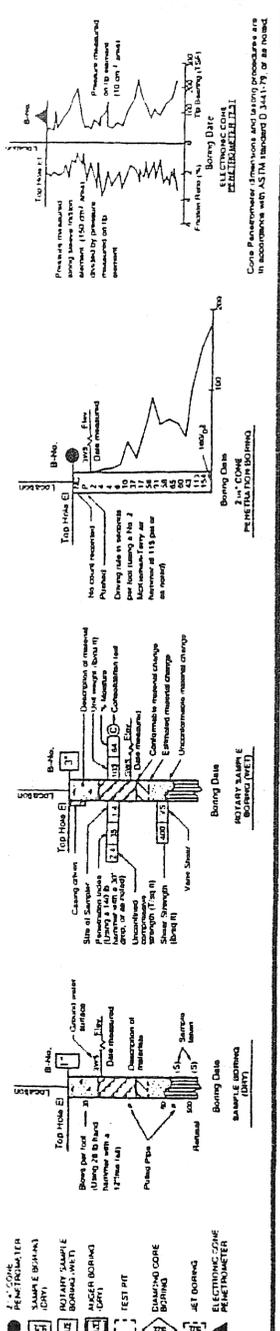


CONSISTENCY CLASSIFICATION FOR SOILS

Penetration (Blows/Ft)	Cohesive	
	Very Soft	Soft
0-4	Very Loose	Very Stiff
5-9	Loose	Stiff
10-19	Slightly Compact	Very Hard
20-34	Compact	Very Hard
35-69	Dense	Very Hard
>70	Very Dense	Very Hard



ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY: T. CROSBY	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 34-0004	SAN FRANCISCO-OAKLAND BAY BRIDGE-EAST VIADUCT
DRAWN BY: [Signature]	4-95				POST MILE 7.6/8.0	EARTHQUAKE RETROFIT PROJECT NO. 19
CHECKED BY:						LOG OF TEST BORINGS 5 OF 13



Alphanumeric Descriptor	Descriptive Term	Diagnostic Features				General characteristic (strength, excavation, etc.) §
		Chemical weathering (discoloration and oxidation)	Mechanical weathering (disintegration and disintegration) primarily for gravels and some coarse-grained sediments	Texture and solubility	General characteristic (strength, excavation, etc.) §	
W1	Fresh	No discoloration, not oxidized	No disintegration or oxidation	No weathering, intact (light)	No change	Hammer rings when crystalline rocks are struck. Abrasive, heavy rock excavation except for naturally weak or weakly cemented rocks such as siltsstones or shales.
W2	Slightly weathered to fresh					
W3	Slightly weathered	Discoloration or oxidation is limited to surface of or short distance from fractures; some tabular crystals are dull	Minor to complete discoloration or oxidation of most surfaces	No visible separation, intact (light)	Preserved	Hammer rings when crystalline rocks are struck. Body of rock not weakened. With few exceptions, such as siltsstones or shales, classified as rock excavation.
W4	Moderately to slightly weathered					
W5	Moderately weathered	Discoloration or oxidation extends from fractures usually throughout. Tabular crystals are "cloudy"	All fracture surfaces are discolored or oxidized	Partial separation of boundaries visible	Generally preserved	Hammer rings when crystalline rocks are struck. Body of rock is slightly weakened. Depending on fracturing, usually is rock excavation except in naturally weak rocks such as siltsstones or shales.
W6	Intensely to moderately weathered					
W7	Intensely weathered	Discoloration or oxidation throughout, all fractures and Fe-Mg minerals are altered to clay to some extent, or chemical alteration produces in situ clayey material, see grain boundary conditions	All fracture surfaces are discolored or oxidized, surfaces friable	Partial separation, rock is friable in some conditions or cracks are disintegrated	Texture altered by chemical disintegration (non-predominant angularity)	Dull sound when struck with hammer, usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as bedding or fracture planes, or weathered. Rock is significantly weakened. Usually common excavation.
W8	Very intensely weathered					
W9	Decomposed	Discolored or oxidized throughout, but resistant to weathering such as quartz may be unaltered; all silts and Fe-Mg minerals are completely altered to clay	Complete separation of grain boundaries (disaggregated)	Resembles a soft, porous or complete cemented rock structure may be preserved, leaching of soluble minerals usually complete	Can be granulated by hand. Always common excavation. Resistant minerals such as quartz may be present as "stringers" or "clasts."	

Note: This chart and its associated categories are more readily applied to rocks with silts and mafic minerals. Weathering in various sedimentary rocks, particularly sandstones and poorly indurated shales, will not always fit the categories established. This chart and weathering categories may have to be modified for particular site conditions or alteration such as hydrothermal effects; however, the basic framework and similar descriptors are to be used.

Combinations of descriptors are permissible where equal distribution of both weathering characteristics are present over significant intervals or where characteristics present are "in between" the diagnostic features. However, dual descriptors should not be used where significant, identifiable zones can be delineated. When given as a range, only two adjacent terms may be combined (e.g., W3-W4).

Does not include discoloration weathering along shear or fault and their associated features. For example, a shear zone that carried weathering to great depths into a fresh rock mass would not require the rock mass to be classified as weathered.

These are generalizations and should not be used as diagnostic features for weathering or excavation classification. These characteristics vary to a large extent based on naturally weak materials or composition and type of excavation.

Alphanumeric descriptor	Descriptor	Criteria
H1	Extremely hard	Core, fragment, or exposure cannot be scratched with knife or sharp pick; can only be chipped with repeated heavy hammer blows.
H2	Very hard	Cannot be scratched with knife or sharp pick. Core of fragment breaks with repeated heavy hammer blows.
H3	Hard	Can be scratched with knife or sharp pick with difficulty (heavy pressure). Heavy hammer blow required to break specimen.
H4	Moderately hard	Can be scratched with knife or sharp pick with light or moderate pressure. Core or fragment breaks with moderate hammer blow.
H5	Moderately soft	Can be grooved 1/16 inch (2 mm) deep by knife or sharp pick with moderate or heavy pressure. Core or fragment breaks with light hammer blow or heavy manual pressure.
H6	Soft	Can be grooved or gouged easily by knife or sharp pick with light pressure, can be scratched with fingernail. Breaks with light to moderate manual pressure.
H7	Very soft	Can be readily indented, grooved or gouged with fingernail, or carved with a knife, breaks with light manual pressure.

Any bedrock unit softer than H7, very soft, is to be described using USBR 5000 consistency descriptors.

Note: Although "sharp pick" is included in these definitions, descriptions of ability to be scratched, grooved or gouged by a knife is the preferred criteria.

Alphanumeric descriptor	Descriptor	Criteria
FD0	UNFRACTURED (FD0)	No fractures.
FD1	VERY SLIGHTLY FRACTURED (FD1)	Core recovered mostly in lengths greater than 3 feet (1 m).
FD2	SLIGHTLY TO VERY SLIGHTLY FRACTURED (FD2)	Core recovered mostly in lengths from 1 to 3 feet (300 to 1000 mm) with few scattered lengths less than 1 foot (300 mm) or greater than 3 feet (1000 mm).
FD3	SLIGHTLY FRACTURED (FD3)	Core recovered mostly in lengths from 1 to 3 feet (300 to 1000 mm) with few scattered lengths less than 1 foot (300 mm) or greater than 3 feet (1000 mm).
FD4	MODERATELY TO SLIGHTLY FRACTURED (FD4)	Core recovered mostly in 0.3 to 1.0 foot (100 to 300 mm) lengths with most lengths about 0.8 foot (200 mm).
FD5	MODERATELY FRACTURED (FD5)	Core recovered mostly in 0.3 to 1.0 foot (100 to 300 mm) lengths with most lengths about 0.8 foot (200 mm).
FD6	INTENSELY TO MODERATELY FRACTURED (FD6)	Core recovered mostly in lengths less than 0.3 foot (100 mm).
FD7	INTENSELY FRACTURED (FD7)	Lengths average from 0.1 to 0.3 foot (30 to 100 mm) with scattered fragmented intervals. Core recovered mostly in lengths less than 0.3 foot (100 mm).
FD8	VERY INTENSELY TO INTENSELY FRACTURED (FD8)	Core recovered mostly as chips and fragments with a few scattered short core lengths.
FD9	VERY INTENSELY FRACTURED (FD9)	Core recovered mostly as chips and fragments with a few scattered short core lengths.

Combinations of fracture densities (e.g. Very Intensely to Intensely Fractured or Moderately to Slightly Fractured) are used where equal distribution of both fracture density characteristics are present over a significant interval or exposure, or where characteristics are "in between" the descriptor definitions.

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DIST.	COUNTY	ROUTE	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
04	SF	80	12.6/13.9	725	821

REGISTERED ENGINEER - CIVIL
YBI EB ON-RAMP STRUCTURE (INITIAL)
AS-BUILT LOG OF TEST BORINGS NO. 4

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA



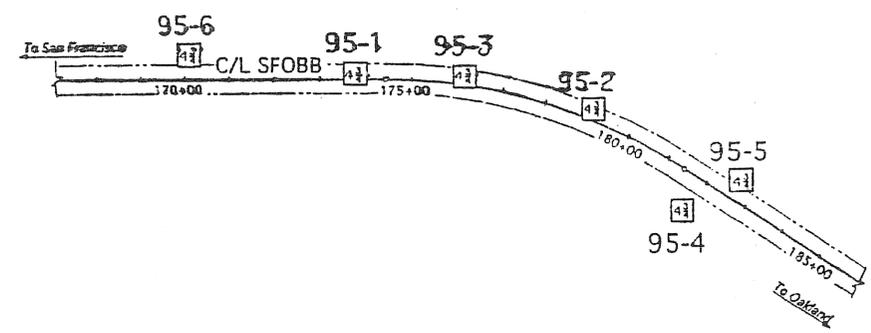
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	725	821

REGISTERED ENGINEERING GEOLOGIST
R.W. FOX
No. 78
Exp. 8-31-97
2-21-12
PLANS APPROVAL DATE

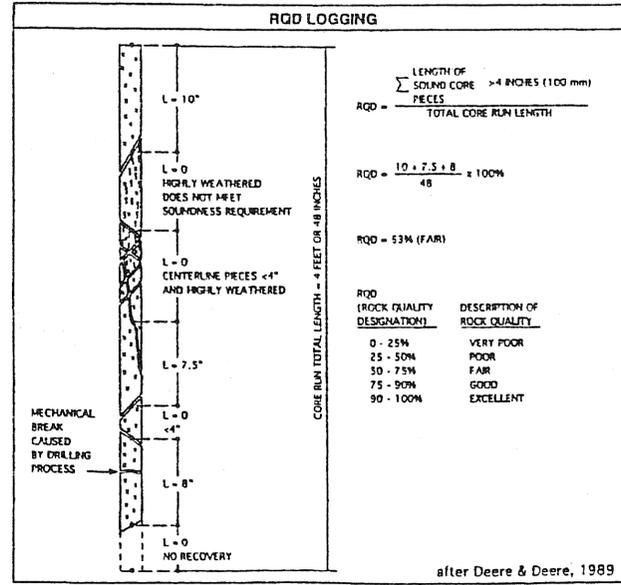
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Revisions made to this Log of Test Borings from the original 1996 Log of Test Borings are the addition of the following note:
1. Note 1 below is changed as follows: "All elevations shown refer to Mean Lower Low Water (M.L.L.W.) Datum of 0.0. To convert M.L.L.W. elevations to Mean Sea Level (M.S.L.) Datum of 1929, subtract 3.1 feet."
TO ACCOMPANY PLANS DATED 2-21-12

BENCH MARK
BM 9
U.S. Coast and GEODETIC SURVEY, (M.L.W., 1960)
BM V52N Elev. 154.979
FD. BRASS PLUG, 1980, (NAD MLLW), 1933



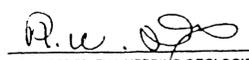
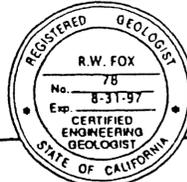
Descriptors	Thickness / Spacing
Massive	Greater than 10 ft (3 m)
Very thickly (bedded, foliated, or banded)	3 to 10 ft (1 to 3 m)
Thickly	1 to 3 ft (300 mm to 1 m)
Moderately	0.3 to 1 ft (100 to 300 mm)
Thinly	0.1 to 0.3 ft (30 to 100 mm)
Very thinly	0.03 (3/8 in) to 0.1 ft (10 to 30 mm)
Laminated (Intensely foliated or banded)	Less than 0.03 ft (3/8 in) (<10 mm)



- NOTES**
- All elevations shown refer to Mean Lower Low Water (M.L.L.W.) Datum = 0.0. To convert M.L.L.W. elevations to Mean Sea Level (M.S.L.) Datum of 1929, add 3.1 feet.
 - All Standard Penetration Tests for borings 95-1 through 95-6 were performed using N-size rod.
 - Rock Quality Designation, Weathering, Hardness, Fracture Density and Bedding Thickness descriptors, as shown on this plate, were used to describe all rock core from borings drilled in 1995. Descriptors were determined in the field in accordance with the United States Department of the Interior, Bureau of Reclamation, Engineering Geology, Field Manual.
 - Rock Quality Designation (RQD) was logged using HQ size core diameter at borings 95-1 and 95-2. NX-size core diameter was used at borings 95-3, 95-4, and 95-5. RQD was logged using Bx size core diameter at boring 95-6. Both core recovery and RQD may be slightly lower than Nx and HQ size core diameter.
 - Shear wave velocity data and reports for borings 95-1, 95-2, 95-3, 95-4, 95-5, and 95-6 are available for review through the Engineering Service Center, Office of Structural Foundations, Geotechnical Support Branch, at the Transportation Laboratory, 5900 Folsom Blvd., Sacramento, CA 95819.
 - Test data for soils and rock from boring 95-1, 95-2, 95-3, 95-4, 95-5, and 95-6 are available for review through the Engineering Service Center, Office of Structural Foundations, Geotechnical Support Branch, at the Transportation Laboratory, 5900 Folsom Blvd., Sacramento, CA 95819.
 - Dilatometer (D) data for tests performed at borings 95-3, 95-4, 95-5, and 95-6 are available for review through the Engineering Service Center, Office of Structural Foundations, Structure Foundations Branch, at the Transportation Laboratory, 5900 Folsom Blvd., Sacramento, CA 95819.
 - Soil description / modifier: Trace = < 5%
Some = < 5-12%
With = > 12%

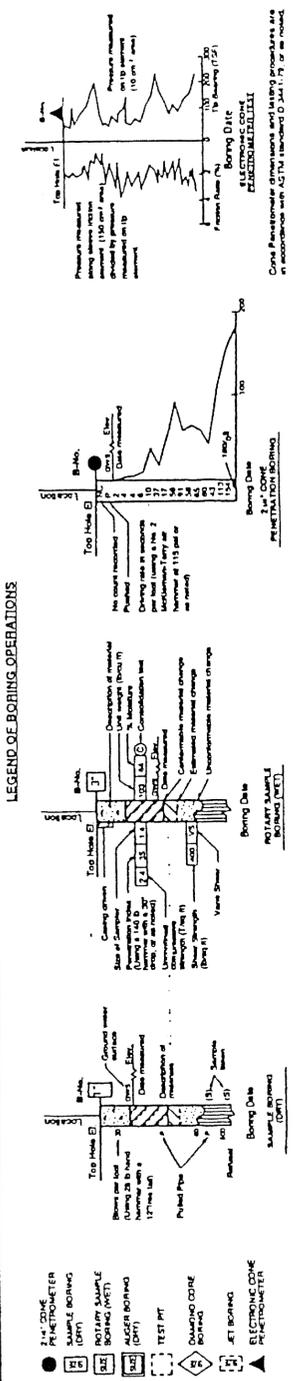
ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY: M. LUQMAN / T. CROSBY	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 33-0025 POST MILE 1.15	SAN FRANCISCO-OAKLAND BAY BRIDGE EARTHQUAKE RETROFIT PROJECT NO. 2 LOG OF TEST BORINGS 1 OF 17
DRAWN BY Ima Gamara 9/95	CHECKED BY 11/2/95					REVISION DATES (PRELIMINARY STAGE ONLY) 10-16-88 11-8-88 2-28-89 7/7/90

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	726	821

 REGISTERED ENGINEERING GEOLOGIST		
2-21-12 PLANS APPROVAL DATE		

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LOG OF BORING NO. YB1b.		SAN FRANCISCO-OAKLAND BAY BRIDGE RESIDENT ENGINEER'S REPORT HOLE NO. YB1b.				
Elevation +95.7', Elevation of Ground Surface (Excavated)		Depth to Rock Surface: +4.5' Nature and Thickness of Deposits to Rock Surface: +93.7' to +16.5', Soft, Brown Silty Sand; +16.5' to +4.5', Clayey Sand and Sandy Clay.				
DRILL CORE RECORD						
Length of Drilling	Core Recovered	Per Cent Recovery	Condition of Core	Character of Rock	Structural Features	Remarks
						Soft, Silty, Sand. (Soft, Silty, Sand. The Soil is Fairly Dry and Well Compacted. The Most of it is Silty and somewhat Cemented but Numerous Pockets and Strata of Clean, Permeable, Non-Cemented, Sand also Occur, of Varying Thickness and Extent.)
+46.0'						Soft, Brown Silty Sand. Same as Described Above. Sample YB1b-1, 12.3' Gulf. Average.
+44.0'						Soft, Brown Silty Sand. Same as Described Above.
+29.0'						Soft, Brown Silty Sand. Same as Described Above. Sample YB1b-2, 130' Gulf. Average.
+28.2'						Soft, Brown Silty Sand. Same as Described Above.
+16.5'						Clayey Sand at +16.5'
+10.0'						Gradual Change to a Sandy Clay at Elevation +10.0'
+4.5'						Decomposed Rock at Elevation +6.0'. Top of Bedrock at Elevation +4.5'
0.0'						Soft Broken Sandstone. Brown in Color. Very Friable at Surface but Gradually Increasing in Hardness with Depth.
-9.7'						Bottom of Boring at Elevation -9.7'
Location of Boring: Station 170+82 and 38' Right of Center Line of Bridge.						



CONSISTENCY CLASSIFICATION FOR SOILS	
According to the Standard Penetration Test	
Penetration Index (Blows / FT)	Classification
0-4	Very Soft
5-9	Soft
10-19	Slightly compact
20-29	Compact
30-39	Dense
40-49	Very Dense
>70	Very Hard

LEGEND OF EARTH MATERIALS	
GRAVEL	CLAYEY SILT
SAND	SILT
SILT	CLAY
CLAY	SEDIMENTARY ROCK
CLAYEY SAND	METAMORPHIC ROCK
SANDY CLAY	CLAYEY SAND
SANDY SILT	SILT SAND
SILT SAND	SILT CLAY

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

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY:	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 33-0025
DRAWN BY: Jm W/L	9-95	M. LUQMAN & T. CROSBY			POST MILE 1.15
CHECKED BY:	1/2/55				

SAN FRANCISCO-OAKLAND BAY BRIDGE EARTHQUAKE RETROFIT PROJECT NO. 2	
LOG OF TEST BORINGS 10 OF 17	
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 61	OF 61

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3



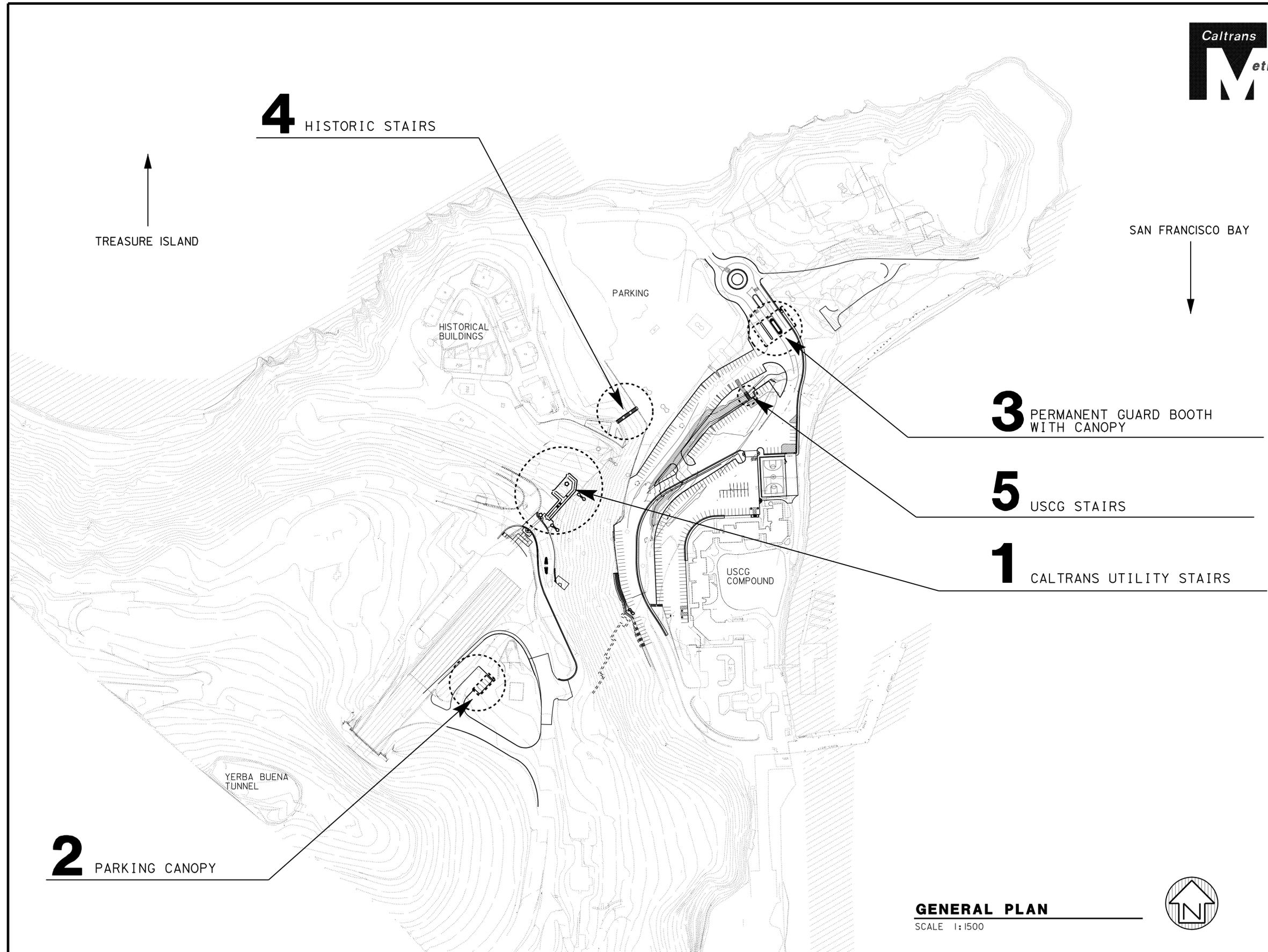
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	727	821

 LICENSED ARCHITECT		5-6-11 DATE
2-21-12 PLANS APPROVAL DATE		
<i>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.</i>		



ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID * EXEMPT Reviewed by: Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 11-09-11
--	--

* EXEMPTION DOCUMENT ON FILE



- GENERAL NOTES**
- CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
 - LOCATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

2 PARKING CANOPY

4 HISTORIC STAIRS

3 PERMANENT GUARD BOOTH WITH CANOPY

5 USCG STAIRS

1 CALTRANS UTILITY STAIRS

GENERAL PLAN
SCALE 1:1500



 DESIGN SUPERVISOR DESIGN ARCHITECT	DESIGNER: Q. WONG DRAWN BY: S. YEH	CHECKED BY: Q. WONG STRUCTURAL REVIEW: Q. WONG	SHEET LEGEND A-I ARCHITECTURAL ST-I STRUCTURAL M-I MECHANICAL EE-I ELECTRICAL W-I WATER SUPPLY SS-I SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES GENERAL PLAN	SHEET GP OF XX
00_gp.dgn DS OSD metric Rev. 11/98 25-FEB-2012 07:09		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 0400000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF XX

25-FEB-2012 07:09 00_gp.dgn

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A0-3.3	ACCESSIBILITY STANDARD DETAILS
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Sheet No. Sheet Title (Cont.)

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EE3- 7	SIGNAL LIGHTS DETAILS



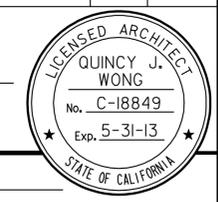
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	728	821

5-6-11 DATE

LICENSED ARCHITECT

2-21-12 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: FRANCIS SOLICH

Approval date: 11-09-11

DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	YERBA BUENA ISLAND TRANSITION STRUCTURES GENERAL INDEX	SHEET A0-1
				34-004		
DETAILS BY S. YEH	CHECKED Q. WONG			KM POST		
QUANTITIES BY	CHECKED			12.8		
a0_1_0_index.dgn		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE
DS OSD metric Rev. 11/98 09-MAR-2012 13:39		0 10 20 30 40 50 60 70 80 90 100		3598 0400000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES
				REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
				07-11-05 08-15-05 07-06-06 12-01-06 9-27-07 12-14-07 9-21-09 7-5-11 3-30-11		XX

09-MAR-2012 13:39

PROJECT DATA

APPLICABLE CODES INCLUDE:

- 1984 UNIFORM FEDERAL ACCESSIBILITY STANDARDS
- 2010 CALIFORNIA BUILDING CODE
- 2010 CALIFORNIA MECHANICAL CODE
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 CALIFORNIA FIRE CODE
- 2010 CALIFORNIA ENERGY CODE
- AS DEFINED IN THE 2010 CALIFORNIA BUILDING CODE
- THE CONSTRUCTION TYPE, OCCUPANCY GROUP, AND
- ALLOWABLE FLOOR AREA FOR THE BUILDING IN THIS
- PROJECT ARE :

(1) UTILITY STAIRS

CONSTRUCTION TYPE	V - B
OCCUPANCY GROUP	NOT APPLICABLE
BASIC ALLOWABLE AREA TABLE 503 OF CBC	NOT APPLICABLE
DESIGN FLOOR AREA	NOT APPLICABLE
ROOF COVERING	NOT APPLICABLE

(2) PARKING CANOPY

CONSTRUCTION TYPE	V - B
OCCUPANCY GROUP	S-1
BASIC ALLOWABLE AREA TABLE 503 OF CBC	836 SM
ACTUAL FLOOR AREA	129 SM
ROOF COVERING	CLASS C - NR

(3) GUARD BOOTH WITH CANOPY

GUARD BOOTH		BUILDING HEIGHT	ONE SOTRY
CONSTRUCTION TYPE	V - B	ALLOWABLE BUILDING HEIGHT	12.2 M
OCCUPANCY GROUP	U	ACTUAL BUILDING HEIGHT	3 M
BASIC ALLOWABLE AREA TABLE 503 OF CBC	836 SM	FIRE SPRINKLER	NOT REQUIRED
DESIGN FLOOR AREA	24.8 SM	FIRE ALARM	NOT REQUIRED
ROOF COVERING	CLASS C - NR	OCCUPANCY LOAD	3

CANOPY

CONSTRUCTION TYPE	V - B	BUILDING HEIGHT	ONE SOTRY
OCCUPANCY GROUP	S-1	ALLOWABLE BUILDING HEIGHT	12.2 M
BASIC ALLOWABLE AREA TABLE 503 OF CBC	836 SM	ACTUAL BUILDING HEIGHT	7 M
DESIGN FLOOR AREA	248 SM	FIRE SPRINKLER	NOT REQUIRED
ROOF COVERING	CLASS C - NR	FIRE ALARM	NOT REQUIRED
		OCCUPANCY LOAD	9

(4) HISTORIC STAIRS

CONSTRUCTION TYPE	V - B
OCCUPANCY GROUP	NOT APPLICABLE
BASIC ALLOWABLE AREA TABLE 503 OF CBC	NOT APPLICABLE
DESIGN FLOOR AREA	NOT APPLICABLE
ROOF COVERING	NOT APPLICABLE

(5) USCG STAIRS

CONSTRUCTION TYPE	V - B
OCCUPANCY GROUP	NOT APPLICABLE
BASIC ALLOWABLE AREA TABLE 503 OF CBC	NOT APPLICABLE
DESIGN FLOOR AREA	NOT APPLICABLE
ROOF COVERING	NOT APPLICABLE



BUILDING DATA

(1) UTILITY STAIRS

- A. ROOF SYSTEM
NONE
- B. FLOOR SYSTEM
REINFORCED CONCRETE SLAB

(2) PARKING CANOPY

- A. ROOF SYSTEM
METAL ROOFING OVER METAL DECK OVER PRE-ENGINEERED STEEL FRAME
- B. FLOOR SYSTEM
REINFORCED CONCRETE SLAB

(3) GUARD BOOTH WITH CANOPY

- A. ROOF SYSTEM
METAL ROOFING OVER METAL DECK OVER PRE-ENGINEERED STEEL FRAME
- B. FLOOR SYSTEM
REINFORCED CONCRETE SLAB

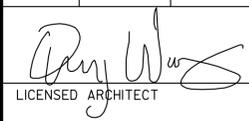
(4) HISTORIC STAIRS

- A. ROOF SYSTEM
NONE
- B. FLOOR SYSTEM
REINFORCED CONCRETE SLAB

(5) USCG STAIRS

- A. ROOF SYSTEM
NONE
- B. FLOOR SYSTEM
REINFORCED CONCRETE SLAB

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	729	821


 5-6-11 DATE
 LICENSED ARCHITECT

LICENSED ARCHITECT
 QUINCY J. WONG
 No. C-18849
 Exp. 5-31-13
 STATE OF CALIFORNIA

2-21-12
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: 
FRANCIS SOLICH
Approval date: 11-09-11

GENERAL NOTES

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL MEASUREMENTS OR CONDITION.

a0_2_0_notes.dgn DS OSD metric Rev. 11/98 25-FEB-2012 07:09	DESIGN	BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES GENERAL NOTES & PROJECT DATA	SHEET A0-2
	DETAILS	BY S. YEH	CHECKED Q. WONG			KM POST	12.8		
	QUANTITIES	BY	CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 07-06-06 12-01-06 9-27-07 12-14-07 9-21-09 7-5-11 3-30-11			
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.				ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 0400000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES	

25-FEB-2012 07:09

ARCHITECTURAL ABBREVIATIONS

&	AND	EPB	ELECTRICAL PANELBOARD	LPG	LIQUIFIED PETROLEUM GAS	S	SOUTH
L	ANGLE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	LS	LAG SCREW	SC	SOLID CORE
CL	CENTER LINE	EQUIP	EQUIPMENT	M	METER	SCHED	SCHEDULE
Ø	DIAMETER OR ROUND	ESCL	ESCALATOR	MAT	MATERIAL	SD	SOAP DISPENSER
□	SQUARE	ETW	EDGE OF TRAVEL WAY	MAX	MAXIMUM	SDST	SELF DRILLING SELF TAPPING
d	PENNY	EWC	ELECTRIC WATER COOLER	MB	MACHINE BOLT	SF	SQUARE FEET
°	DEGREE	EXP	EXPANSION	MBR	MEMBER	SH	SHelf
		EXPO	EXPOSED, EXPOSURE	MECH	MECHANICAL	SHWR	SHOWER
		EXT	EXTERIOR	MEMB	MEMBRANE	SHT	SHEET
A/C	AIR CONDITIONING	FD	FLOOR DRAIN	MET	METAL	SHTG	SHEATHING
AC	ASPHALT CONCRETE	FDN	FOUNDATION	MFR	MANUFACTURER	SIM	SIMILAR
AB	ANCHOR BOLT	FE	FIRE EXTINGUISHER	MH	MAN HOLE	SL	SCORE LINE
ABV	ABOVE	FEC	FIRE EXTINGUISHER CABINET	MIN	MINIMUM	SMS	SHEET METAL
ACOUS	ACOUSTICAL	FF	FINISH FLOOR	MIR	MIRROR	SOHD	SECTIONAL OVERHEAD DOOR
ADA	AMERICANS WITH DISABILITY ACT	FG	FINISH GRADE	MISC	MISCELLANEOUS	SPEC	SPECIFICATION
ADJ	ADJUSTABLE	FH	FIRE HYDRANT	MIW	MALLEABLE IRON WASHER	SPS	STRUCTURAL PLYWOOD
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	mm	MILLIMETER	SS	SQUARE
ALUM	ALUMINUM	FHMS	FLATHEAD METAL SCREW	MO	MASONRY OPENING	SRRA	SAFETY ROADSIDE REST AREA
APA	AMERICAN PLYWOOD ASSOCIATION	FHWS	FLATHEAD WOOD SCREW	MTD	MOUNTED	SS	SERVICE SINK
ARCH	ARCHITECTURAL, ARCHITECT	FIN	FINISH	MUL	MULLION	SST	STAINLESS STEEL
ASPH	ASPHALT	FJ	FLOOR JOIST			STA	STATION
		FLASH	FLASHING			STAG	STAGGER
BD	BOARD	FLR	FLOOR			STD	STANDARD
BIT	BITUMINOUS	FLUOR	FLUORESCENT	N	NORTH	STL	STEEL
BLDG	BUILDING	FOC	FACE OF CONCRETE	ND	NAPKIN DISPOSAL	STOR	STORAGE
BLK	BLOCK	FOF	FACE OF FINISH	NIC	NOT IN CONTRACT	STRUC	STRUCTURAL
BLKG	BLOCKING	FOM	FACE OF MASONRY	NO	NUMBER	SUSP	SUSPENDED
BM	BEAM	FOS	FACE OF STUD	NOM	NOMINAL		
BN	BOUNDARY NAILING	FRMG	FRAMING	NTS	NOT TO SCALE	T	TREAD
BOT	BOTTOM	FRPP	FIBERGLASS REINFORCED PLASTIC PANEL			T&G	TONGUE & GROOVE
BR	BRIDGE	FT	FEET, FOOT	OBSC	OBSCURE	TB	TOLL BOOTH
BTM	BOTTOM	FTG	FOOTING	OC	ON CENTER	TEL	TELEPHONE
BTWN	BETWEEN	FURR	FURRING	OD	OUTSIDE DIAMETER	TEMP	TEMPERED
BUR	BUILT-UP-ROOFING	FWY	FREEWAY	OFF	OFFICE	TER	TERRAZZO
				OFD	OVERFLOW DRAIN	THK	THICK
CJ	CONTROL JOINT	GA	GAUGE	OG	ORIGINAL GROUND	THLD	THRESHOLD
CL	CHAIN LINK	GAL	GALLON	OH	OPPOSITE HAND	TJ	TOOLED JOINT
CAB	CABINET	GALV	GALVANIZED	OHD	OVERHEAD	TKBD	TACKBOARD
CB	CATCH BASIN	GB	GRAB BAR	OHWS	OVERHEAD WOOD SCREW	TN	TOE NAIL
CEM	CEMENT	GI	GALVANIZED IRON	OP	OPERATIONS	TNVM	TAMPON/NAPKIN VENDING MACHINE
CER	CERAMIC	GL	GLASS	OPNG	OPENING	TOC	TOP OF CURB OR CONCRETE
CH	CLOTHES HOOK	GLM	GLUE LAMINATED MEMBER	OPP	OPPOSITE	TOP	TOP OF PAVEMENT
CIDH		GLZ	GLAZING	OPT	OPTION, OPTIONAL	TOS	TOE OF SLOPE
CIP	CAST IN BRACEED HOLE	GR	GRADE	P	PITCH	TOT	TOTAL
CKBD	CHALKBOARD	GSM	GALVANIZED SHEET METAL	PB	POST BASE	TOW	TOP OF WALL
CLG	CEILING			PC	POST CAP	TS	TUBE STEEL
CMU	CONCRETE	GYP	GYP SUM	PCC	PORTLAND CEMENT CONCRETE	TSCD	TOILET SEAT COVER
		GYP SHTG	GYP SUM SHEATHING	PDF	POWDER DRIVEN FASTENERS	TTD	TOILET TISSUE DISPENSER
CLO	CLOSET	HB	HOSE BIB	PH	PHILLIPS HEAD	TTY	TELETYPEWRITER
CLR	CLEAR	HC	HOLLOW CORE	PL	PLATE	TYP	TYPICAL
COL	COLUMN	HD	HEAD, HOLD DOWN	PLAM	PLASTIC LAMINATE		
CONC	CONCRETE	HDR	HEADER	PLAS	PLASTER	UNF	UNFINISHED
CONN	CONNECTION	HDWD	HARDWOOD	PLAS	PLYWOOD	UON	UNLESS OTHERWISE NOTED
CONST	CONSTRUCTION	HDWR	HARDWARE	PMF	PRESSED METAL FRAME	UR	URINAL
CONT	CONTINUOUS	HEX	HEXAGONAL			USCG	UNITED STATES COAST GUARD
CORR	CORRIDOR	HEMLOCK-FIR	HEMLOCK-FIR	PR	PAIR		
CPT	CARPET	HGR	HANGER	PRTN	PARTITION		
CT	CERAMIC TILE	HM	HOLLOW METAL	PT	POINT	VAR	VARIES
CTR	CENTER	HORIZ	HORIZONTAL	PTD	PAPER TOWEL DISPENSER	VCT	VINYL COMPOSITION TILE
CTSK	COUNTERSUNK	HP	HIGH POINT	PTD/R	PAPER TOWEL DISPENSER /RECEPTACLE	VERT	VERTICAL
CY	CUBIC YARD	HR	HOUR			VEST	VESTIBULE
		HSB	HIGH STRENGTH BOLT			VR	VENT RISER
DBL	DOUBLE	HSS	HOLLOW STRUCTURAL SECTION	PVC	POLYVINYL CHLORIDE	VTR	VENT THRU ROOF
DEPT	DEPARTMENT			PWB	PREFABRICATED WOOD I BEAM		
DET	DETAIL	HT	HEIGHT	QT	QUARRY TILE	W	WEST
DF	DOUGLAS FIR	HVAC	HEATING, VENTILATING, AIR CONDITIONING			W/	WITH
DIA	DIAMETER	HWY	HIGHWAY	(R)	RELOCATED	W/O	WITHOUT
DIM	DIMENSION			R	RADIUS, RISER	WC	WATER CLOSET
DN	DOWN	ID	INSIDE DIAMETER	R/W	RIGHT OF WAY	WD	WOOD
DP	DEEP	IN	INCH	RD	ROOF DRAIN	WDW	WINDOW
DR	DOOR	INFO	INFORMATION	RDWD	REDWOOD	WH	WATER HEATER
DS	DOWNSPOUT	INSUL	INSULATION	REF	REFERENCE	WP	WORKING POINT
DWG	DRAWING	INT	INTERIOR	REFG	REFRIGERATOR	WR	WATER RESISTANT
DWR	DRAWER	REINF	REINFORCED(ING)	REQ	REQUIRED	WSCT	WAINSCOT
		RFG	ROOFING	RFG	ROOFING	WT	WEIGHT
(E)	EXISTING	RFSWN	ROUGHSAWN	RH	ROUND HEAD	WTPR	WATERPROOFING
E	EAST	RHWS	ROUND HEAD WOOD SCREWS	RJ	ROOF JOIST	WWF	WELDED WIRE FABRIC
EA	EACH			RM	ROOM		
EF	EXHAUST FAN	LAB	LABORATORY	RO	ROUGH OPENING	YD	YARD
EHD	ELECTRIC HAND DRYER	LAV	LAVATORY	RSWN	RESAWN		
EJ	EXPANSION JOINT	LBS	POUNDS	RTE	ROUTE		
EL	ELEVATION (HEIGHT)	LF	LINEAR FEET	RWL	RETAINING WALL		
ELEC	ELECTRICAL	LKR	LOCKER		RAINWATER LEADER		
ELEV	ELEVATION (VIEW)	LLV	LONG LEG VERTICAL				
ELVR	ELEVATOR	LOL	LAYOUT LINE				
EMER	EMERGENCY						
ENCL	ENCLOSURE						
EP	EDGE OF PAVEMENT						
EQ	EQUAL						

DESIGN CRITERIA



THE BUILDING WORK ON THIS PROJECT HAS BEEN DESIGNED TO CONFORM TO THE 2010 TITLE 24 CALIFORNIA BUILDING CODE.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	730	821

2-21-12
PLANS APPROVAL DATE

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GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL MEASUREMENTS OR FIELD CONDITIONS.

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: FRANCIS SOLICH
Approval date: 11-09-11

SYMBOLS

	GRID LINE		BUILDING SECTION LETTER
	MATCH LINE		SHEET
	WORKING POINT		DETAIL NUMBER
	ROOM NUMBER		SHADED ARROW INDICATES ELEVATION DRAWN
	DOOR DESIGNATION		SECTION LETTER; SECTION DRAWN ON SAME SHEET
	WINDOW DESIGNATION		ELEVATION LETTER; ELEVATION DRAWN ON SAME SHEET
	LOUVER DESIGNATION		DRAWN ON SAME SHEET
	COLOR DESIGNATION		

 DESIGN SUPERVISOR DESIGN ARCHITECT	DESIGNER	Q. WONG	CHECKED BY	Q. WONG	SHEET LEGEND A-I ARCHITECTURAL ST-I STRUCTURAL M-I MECHANICAL EE-I ELECTRICAL W-I WATER SUPPLY SS-I SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES ARCHITECTURAL ABBREVIATIONS, SYMBOLS	SHEET	OF
	DRAWN BY	S. YEH	STRUCTURAL REVIEW	Q. WONG				KM POST	12.8		ARCHITECTURAL ABBREVIATIONS, SYMBOLS	A0-2.1
a3_0_2_abbr.v.dgn		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT	3598	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		
DS OSD metric Rev. 11/98 27-FEB-2012 09:48						PROJECT NUMBER & PHASE	04000000271			07-11-05 08-15-05 11-14-05 03-01-06 09-27-07 12-14-07 9-21-08 7-5-11 6-1-11	X	X

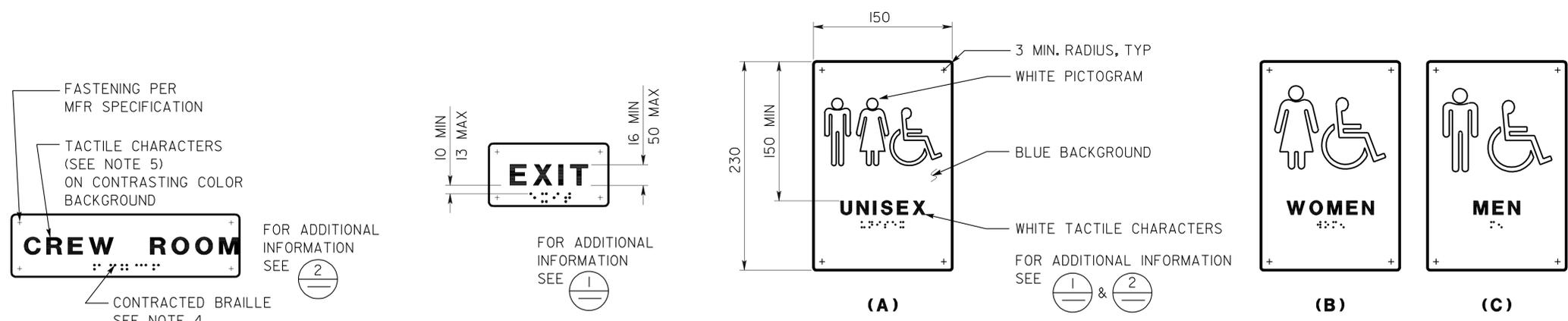
27-FEB-2012 09:48



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	731	821

 LICENSED ARCHITECT		08-10-11 DATE
2-21-12 PLANS APPROVAL DATE		
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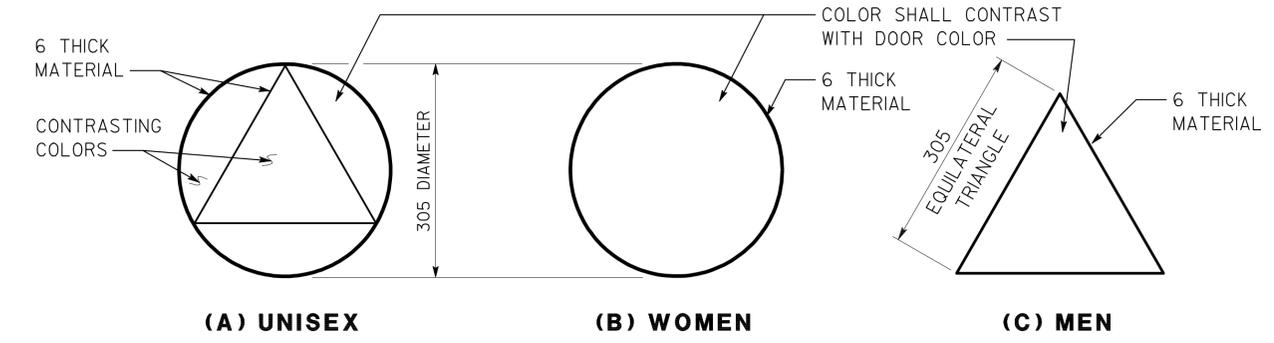
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: Date: 11-21-11	Reviewed by: FRANCIS SOLICH Approval date: 11-09-11



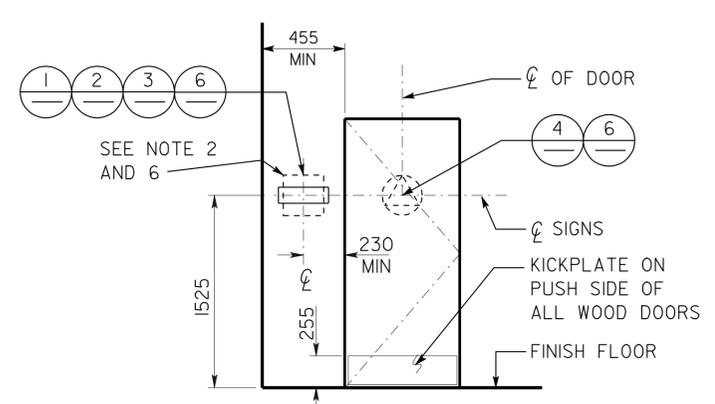
1 ROOM IDENTIFICATION SIGN
 INSTALL PER DETAIL 5
 TEXT VARIES
 SEE PLANS, EXT ELEVATIONS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT
 SEE DETAIL 7 FOR TEXT MOUNTING HEIGHT

2 INTERIOR EXIT SIGN
 INSTALL PER DETAIL 5
 TEXT MAY VARY
 SEE PLANS, OR DOOR SCHEDULE FOR LOCATIONS AND TEXT
 SEE DETAIL 7 FOR TEXT MOUNTING HEIGHT

3 RESTROOM SIGNS
 INSTALL PER DETAIL 5
 SEE DETAIL 7 FOR TEXT MOUNTING HEIGHT

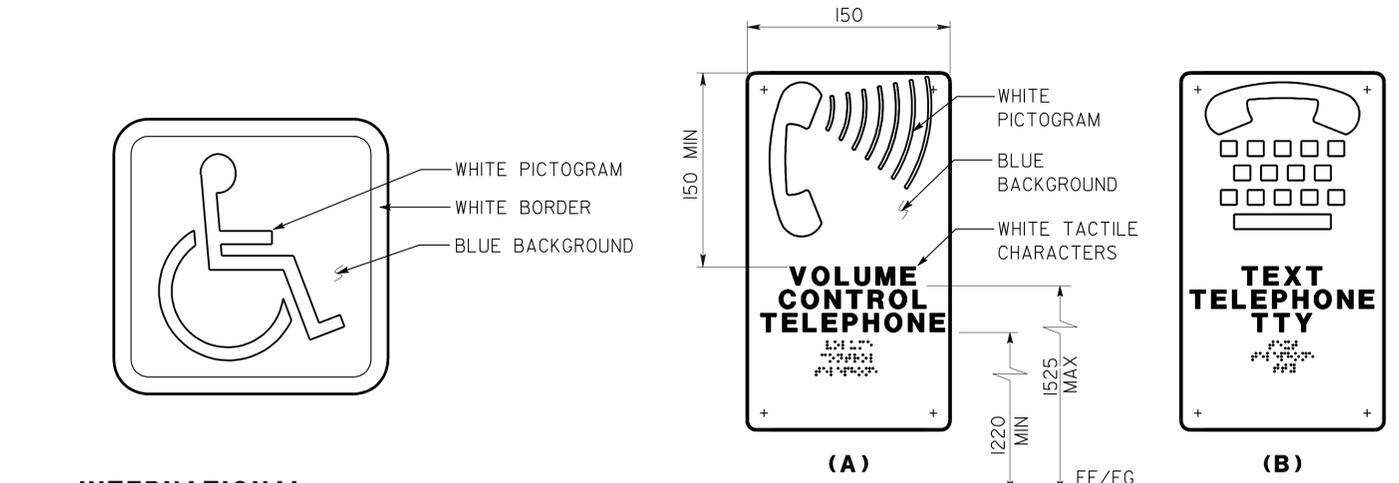


4 RESTROOM IDENTIFICATION SYMBOLS
 INSTALL PER DETAIL 5
 ANY PICTOGRAM AND TEXT ARE NOT REQUIRED



5 SIGN LOCATIONS
 REFER TO SIGNAGE NOTES FOR ADDITIONAL INFORMATION

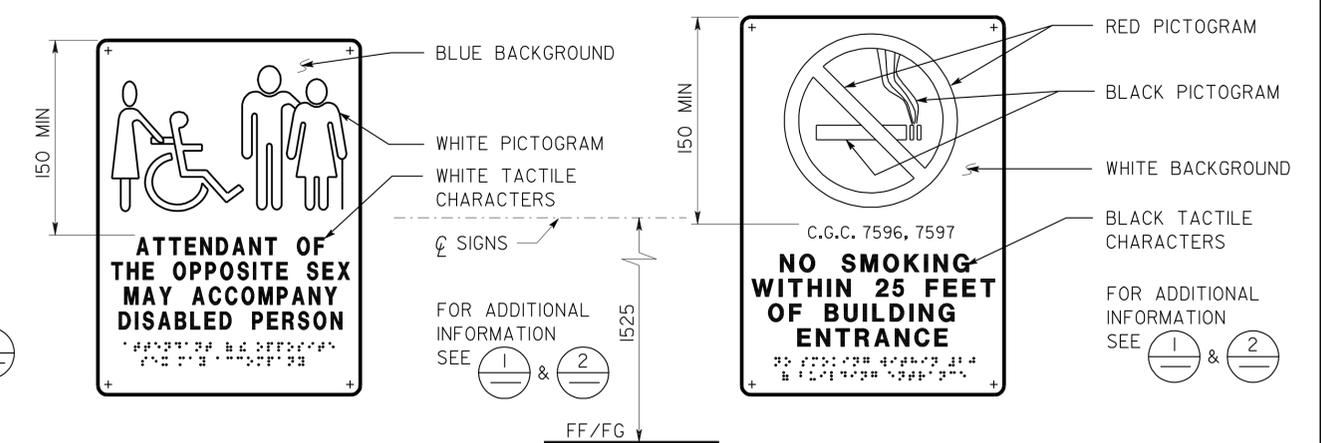
- SIGNAGE NOTES:**
- LOCATE ROOM IDENTIFICATION SIGNS, EXIT SIGNS, AND RESTROOM SIGNS ON WALL ADJACENT TO DOOR ON LATCH SIDE. IF WALL SPACE IS NOT AVAILABLE ON LATCH SIDE, LOCATE ON NEAREST ADJACENT WALL. LOCATE SIGN TO THE RIGHT OF RIGHT HAND DOOR AT DOUBLE DOORS WITH TWO ACTIVE LEAFS.
 - REFER TO SPECIFICATIONS FOR SIGN MATERIAL AND OTHER COLOR SELECTION. EXCEPT DETAIL 6, SIGN COLORS MAY VARY FROM DETAILS.
 - SEE DOOR SCHEDULE FOR TEXT AND SIGN LOCATIONS, UON.
 - CONTRACTED BRAILLE: DOTS SHALL BE 2.54 OC IN EACH CELL WITH 5 SPACE BETWEEN CELLS MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 0.6 ABOVE THE BACKGROUND. DOTS SHALL BE DOMED OR ROUNDED.
 - TACTILE CHARACTERS SHALL BE UPPERCASE SANS SERIF RAISED 0.8 MIN WITH A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
 - PROVIDE 455 x 455 MIN CLEAR FLOOR SPACE IN FRONT OF AND CENTERED ON THE SIGN.



6 INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN
 INSTALL PER DETAIL 5
 SEE PLANS, ELEVATIONS, OR SCHEDULE FOR SIGN LOCATIONS. DECAL MAY BE USED.

7 TELEPHONE SIGNS
 TEXT MAY VARY
 SEE PLANS OR EXT ELEVATIONS FOR SIGN LOCATIONS AND MOUNTING HEIGHTS

8 RESTROOM ACCOMPANY SIGN
 SEE PLANS OR ELEVATIONS FOR LOCATIONS
 SEE DETAIL 7 FOR TEXT MOUNTING HEIGHT



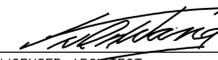
9 NO SMOKING SIGN
 SEE PLANS OR EXTERIOR ELEVATIONS FOR SIGN LOCATIONS
 SEE DETAIL 7 FOR TEXT MOUNTING HEIGHT

DETAILS
 NO SCALE UNLESS OTHERWISE NOTED

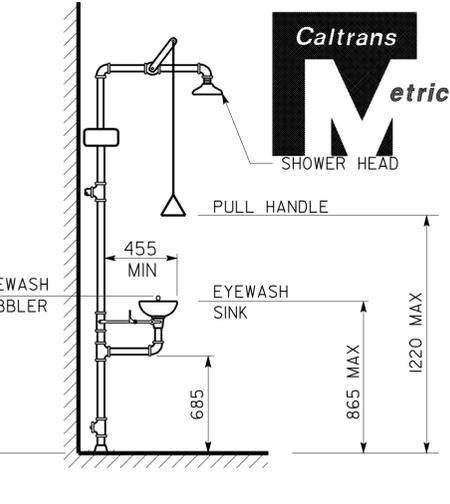
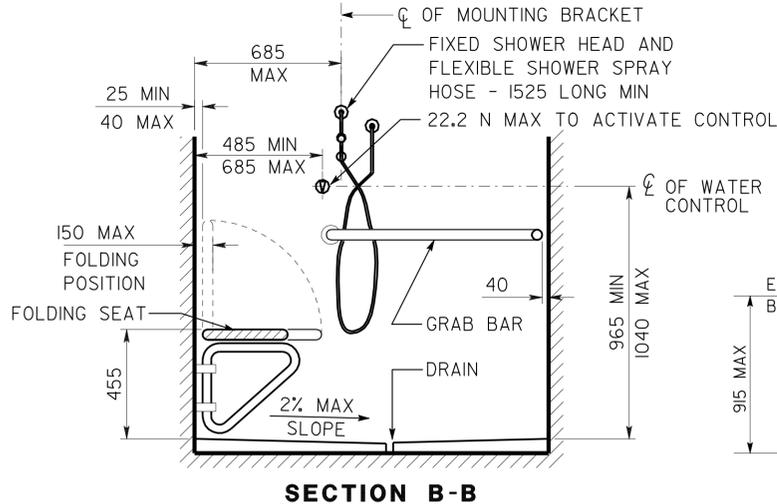
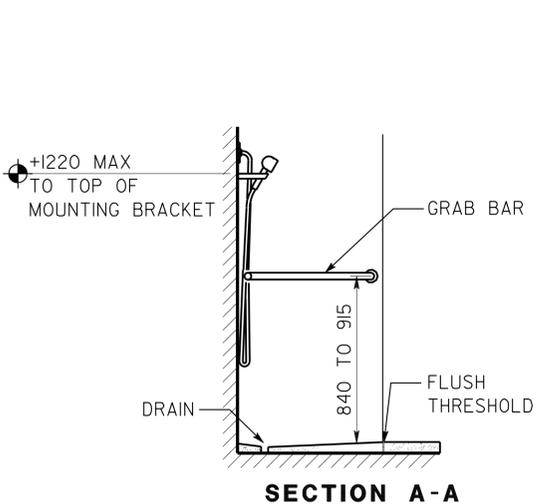
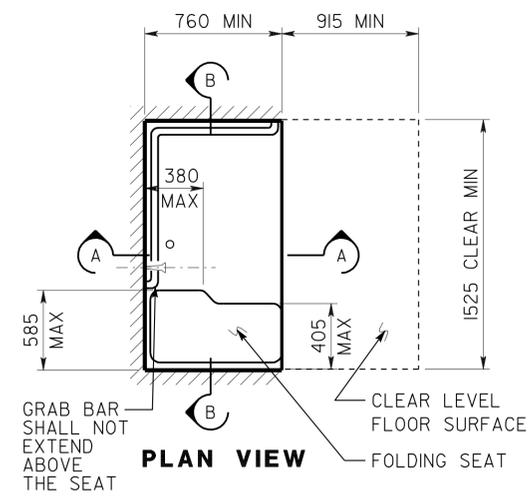
NOTE: SOFT CONVERSION IS USED THAT METRIC NUMBERS ARE ROUNDED TO THE NEAREST 5 OR 10
 NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		BRIDGE NO. 34-004		YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET A0-3.3	
FILE NO. 07-11	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED R.E. Travis	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		KM POST 12.8		ACCESSIBILITY STANDARD DETAILS		OF XX	
SUBMITTED BY Y.A. WANG				DEPARTMENT OF TRANSPORTATION		UNIT PROJECT NUMBER & PHASE 3598 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.				ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		0 10 20 30 40 50 60 70 80 90 100		07-11-05 07-15-05 07-06-06 07-21-07 07-14-07 09-21-08 11-30-11		SHEET OF	

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	732	821

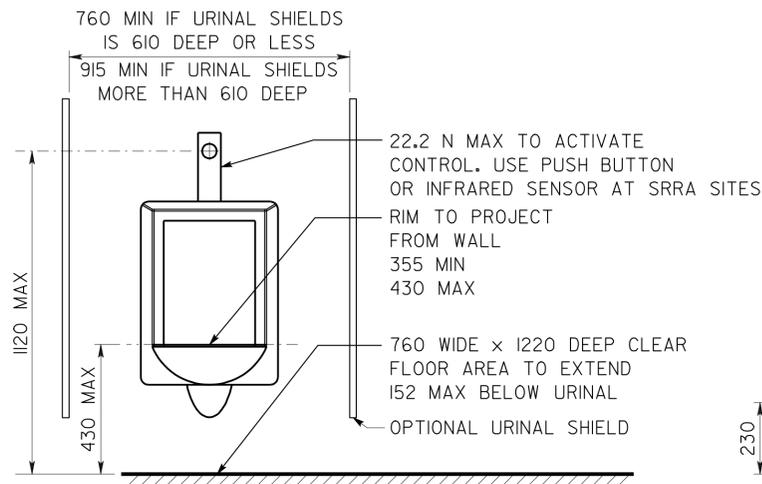
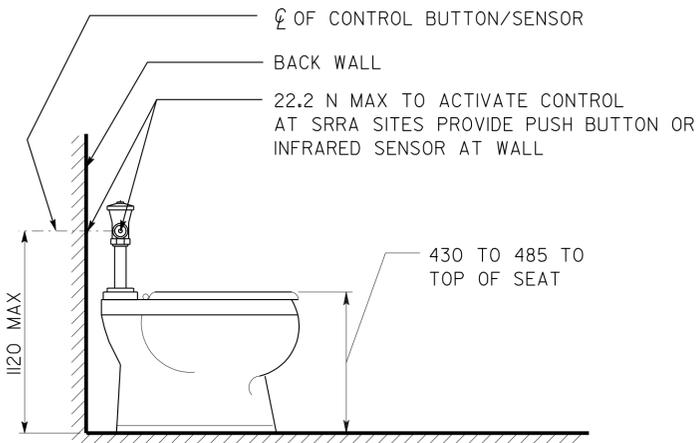
 LICENSED ARCHITECT		07-20-11 DATE
2-21-12 PLANS APPROVAL DATE		
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID		CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by:  Date: 11-21-11	Reviewed by:  FRANCIS SOLICH Approval date: 11-09-11	



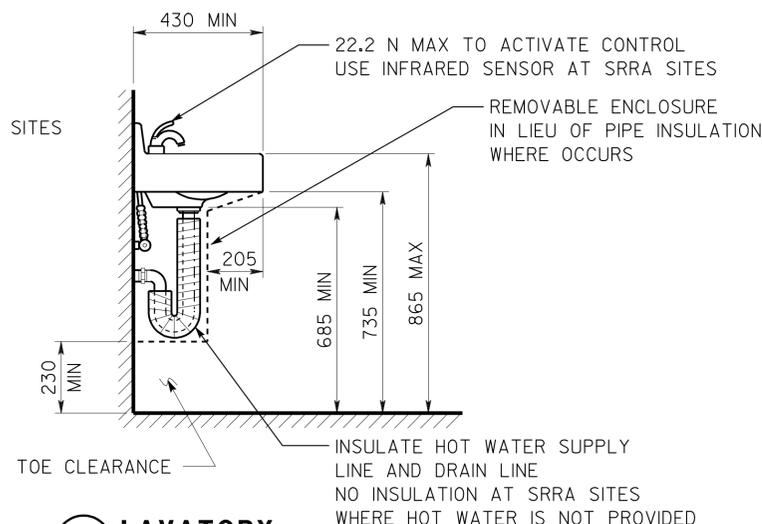
1 SHOWER STALL
OMIT AT SRRA SITES

2 EMERGENCY EYEWASH/SHOWER
NO SCALE

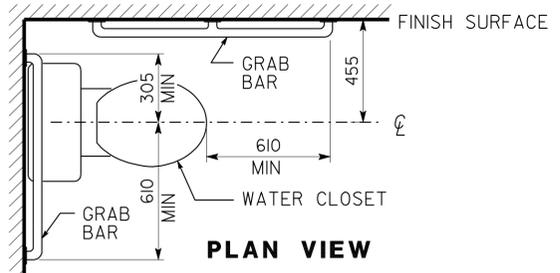
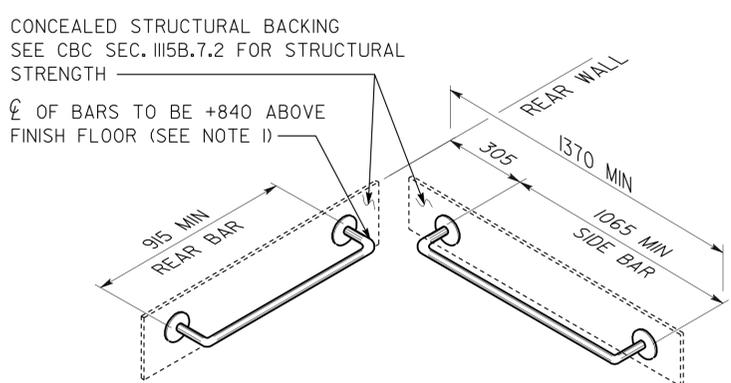
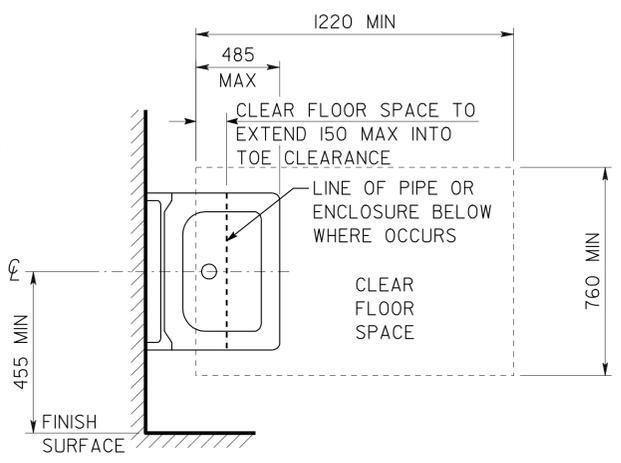


3 WATER CLOSET
SEE SPEC FOR FIXTURE TYPE

4 URINAL

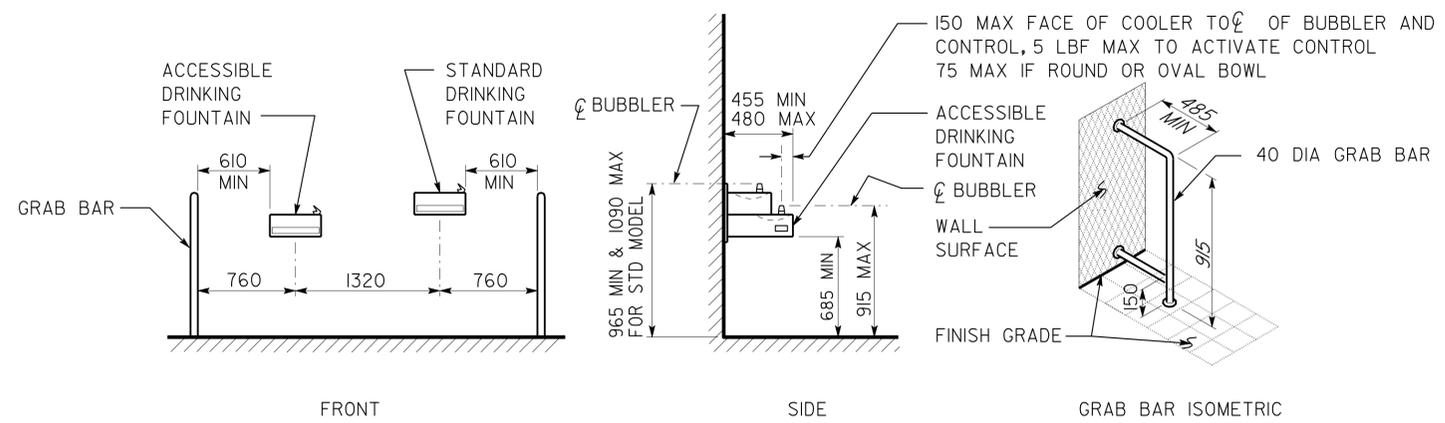


5 LAVATORY



GRAB BAR NOTE:
 1. IF TANK TYPE TOILET IS USED, TOP OF REAR BAR MAY BE SET TO 915 MAX ABOVE FINISH FLOOR. SIDE BAR TO REMAIN AS SHOWN.
 2. GRAB BARS TO BE 30 TO 40 DIAMETER WITH CLEAR SPACE OF 40 TO SMOOTH WALL SURFACE.

6 GRAB BARS/ WATER CLOSET



7 ELECTRIC WATER COOLER

IN LIEU OF GRAB BARS, OTHER TYPES OF WING WALLS MAY BE USED
 DIMENSIONS AT FRONT ELEVATION MAY VARY - SEE PLAN

DETAILS
NO SCALE UNLESS OTHERWISE NOTED

NOTE: SOFT CONVERSION IS USED THAT METRIC NUMBERS ARE ROUNDED TO THE NEAREST 5 OR 10

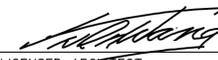
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

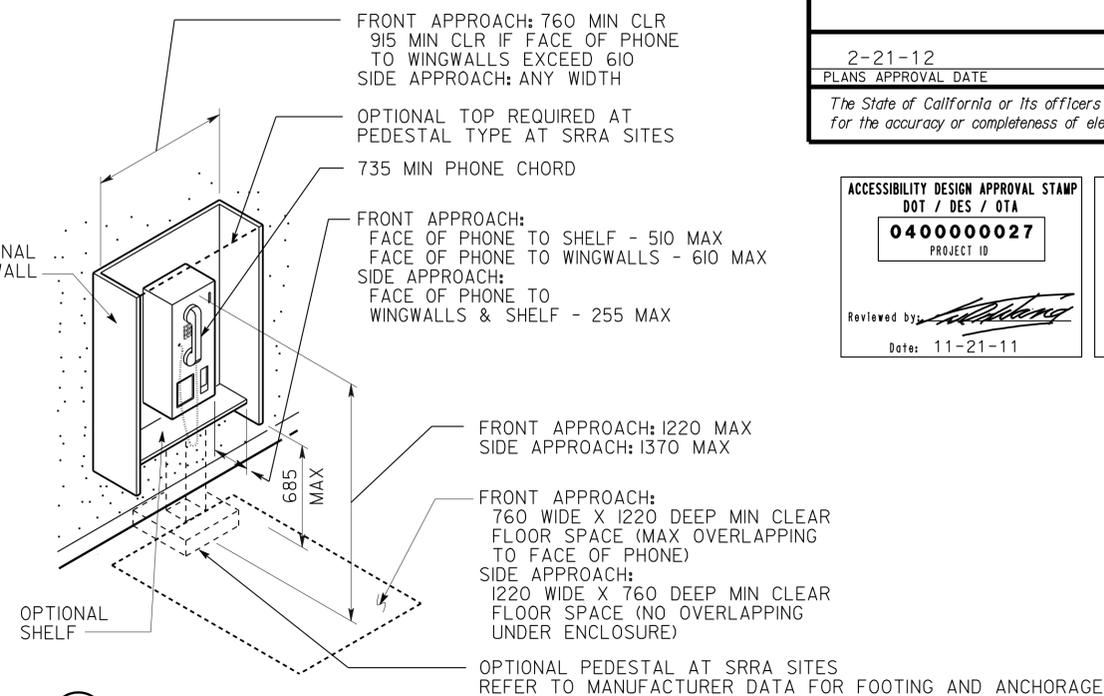
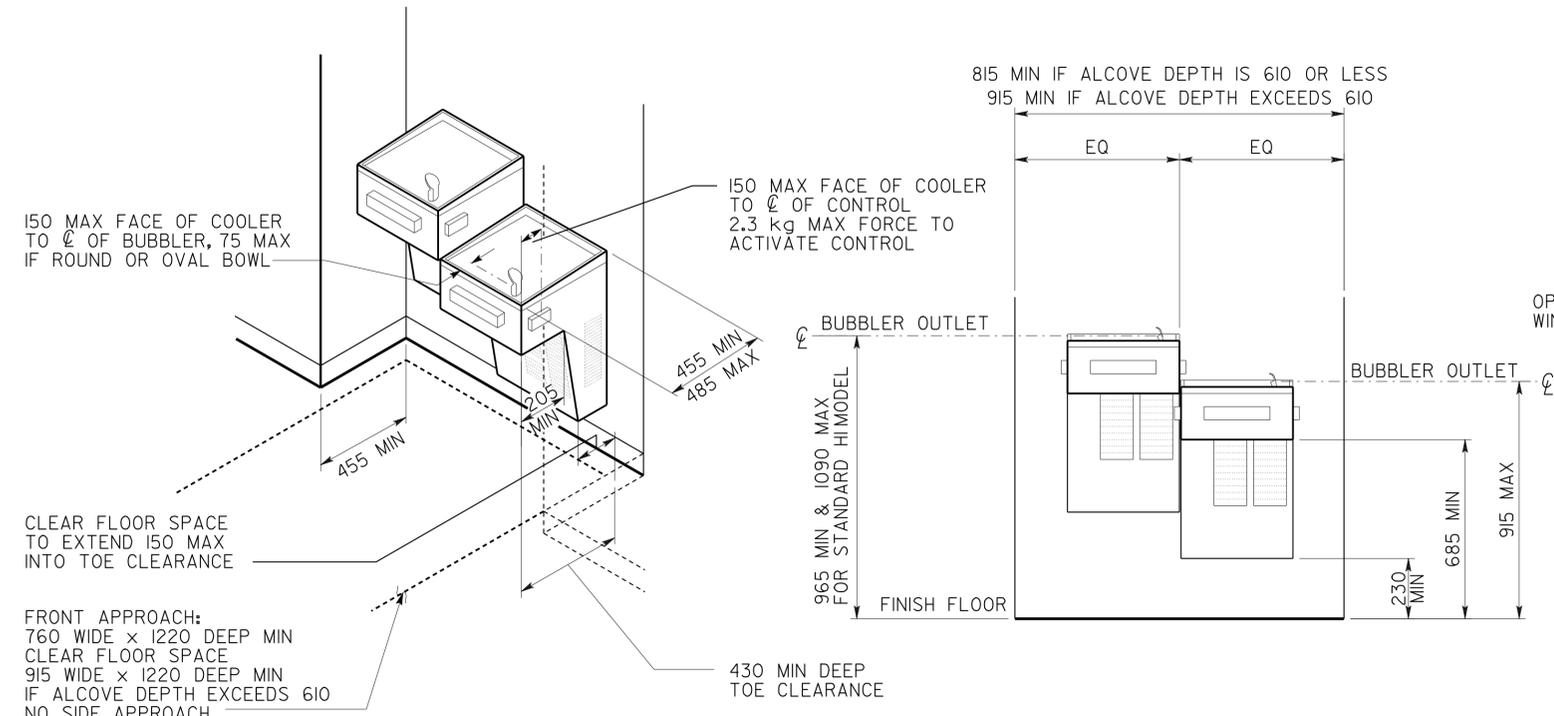
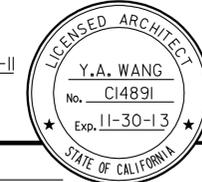
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		YERBA BUENA ISLAND		SHEET	
FILE NO.	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED Y.A. WANG	CALIFORNIA		ARCHITECTURAL		34-004		TRANSITION STRUCTURES		A0-3.4	
DRAWING DATE 07-11	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		AND STRUCTURAL DESIGN		KM POST 12.8		ACCESSIBILITY STANDARD DETAILS		OF XX	
SUBMITTED BY Y.A. WANG				SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 0400000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
DS OSD metric Rev. 11/98 25-FEB-2012 09:08				0 10 20 30 40 50 60 70 80 90 100						07-11-05 08-15-05 07-06-06 12-01-06 9-27-07 12-14-07 9-21-08 7-5-11 3-30-11			

25-FEB-2012 09:08

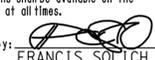


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	733	821


 LICENSED ARCHITECT
 DATE 07-20-11
 PLANS APPROVAL DATE 2-21-12
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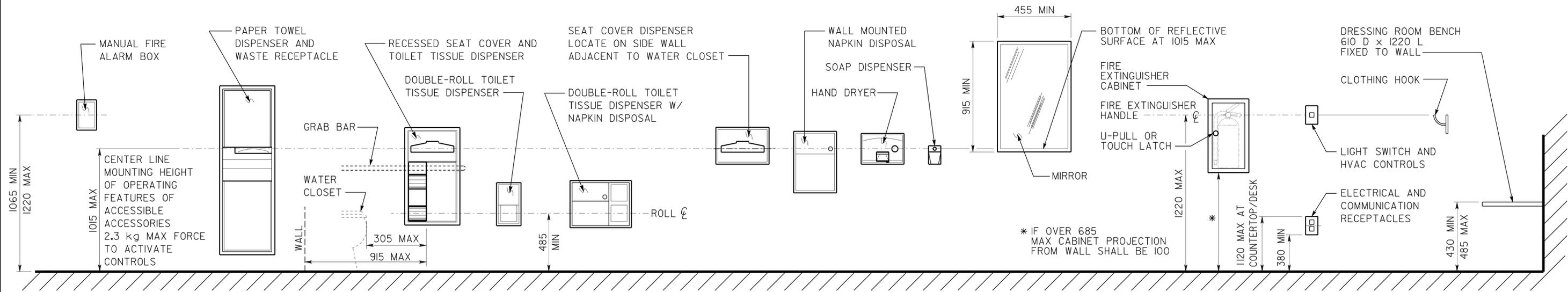
ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
040000027
 PROJECT ID
 Reviewed by: 
 Date: 11-21-11

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 FRANCIS SOLICH
 Approval date: 11-09-11

1 ELECTRIC WATER COOLER AT ALCOVE

FIXTURE TYPE MAY VARY
 WIDTH OF ALCOVE MAY VARY
 TWO FIXTURES WITH SEPARATE MOUNTING HEIGHTS MAY BE INSTALLED AT SEPARATE LOCATIONS.

2 TELEPHONE



3 ACCESSORIES

DETAILS
NO SCALE UNLESS OTHERWISE NOTED

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STANDARD DRAWING				STATE OF CALIFORNIA		BRIDGE NO. 34-004		YERBA BUENA ISLAND		SHEET	
FILE NO. 07-11	DESIGN BY D. ALSEY	CHECKED Y.A. WANG	APPROVED 	CALIFORNIA		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		TRANSITION STRUCTURES		A0-3.5	
DRAWING DATE 07-11	DETAILS BY D. GOOD	CHECKED Y.A. WANG	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION		KM POST 12.8		ACCESSIBILITY STANDARD DETAILS		OF XX	
SUBMITTED BY Y.A. WANG				SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		UNIT PROJECT NUMBER & PHASE 3598 0400000271		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
DS OSD metric				ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-11-05 07-15-05 07-06-06 07-21-07 07-14-07 07-21-08 7-5-11 3-30-11		XX	

25-FEB-2012 09:08



FINISH NOTES

* EXEMPTION DOCUMENT ON FILE

1. MANUFACTURERS DESIGNATIONS ARE USED TO INDICATE PATTERN AND COLOR AND ARE NOT INTENDED TO SHOW A PREFERENCE FOR A PARTICULAR BRAND. ALL PRODUCTS MAY BE SUBMITTED FOR APPROVAL IF EQUAL IN COLOR AND TEXTURE.
2. PREFINISHED BY MANUFACTURER
3. CONCRETE TO BE COATED WITH CONCRETE HARDENER WITH OIL AND GREASE SEALER
4. CONCRETE STEP AND LANDING SHALL BE MEDIUM BROOM TEXTURE FINISH
5. COLOR NO. CLEAR ANODIC OXIDE COATING

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	734	821

LICENSED ARCHITECT

5-6-11
 DATE

2-21-12
PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

040000027
PROJECT ID

* EXEMPT

Reviewed by:
Date: 11-21-11

CALIFORNIA STATE FIRE MARSHAL
APPROVED

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Reviewed by:
FRANCIS SOLICH
Approval date: 11-09-11

MATERIAL	COLOR NUMBER	FINISH NOTES
HANDRAIL, GUARDRAIL, PIPE RAIL, AND POST		2, 5
CONCRETE CURB	-	3
CONCRETE LANDINGS, AND STEPS	-	3, 4
HANDRAIL SUPPORT		2, 5

a1_0_1_index.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES FINISH & COLOR SCHEDULES	SHEET		
	DETAILS BY S. YEH	CHECKED Q. WONG			KM POST 12.8		CALTRANS UTILITY STAIRS	A1-0.1	
	QUANTITIES BY	CHECKED					OF		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE	3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 07-06-06 09-21-07 12-14-07 04-01-10 1-5-11	XX



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	735	821

LICENSED ARCHITECT *Quincy Wong* 5-6-11 DATE

LICENSED ARCHITECT QUINCY J. WONG No. C-18849 Exp. 5-31-13 STATE OF CALIFORNIA

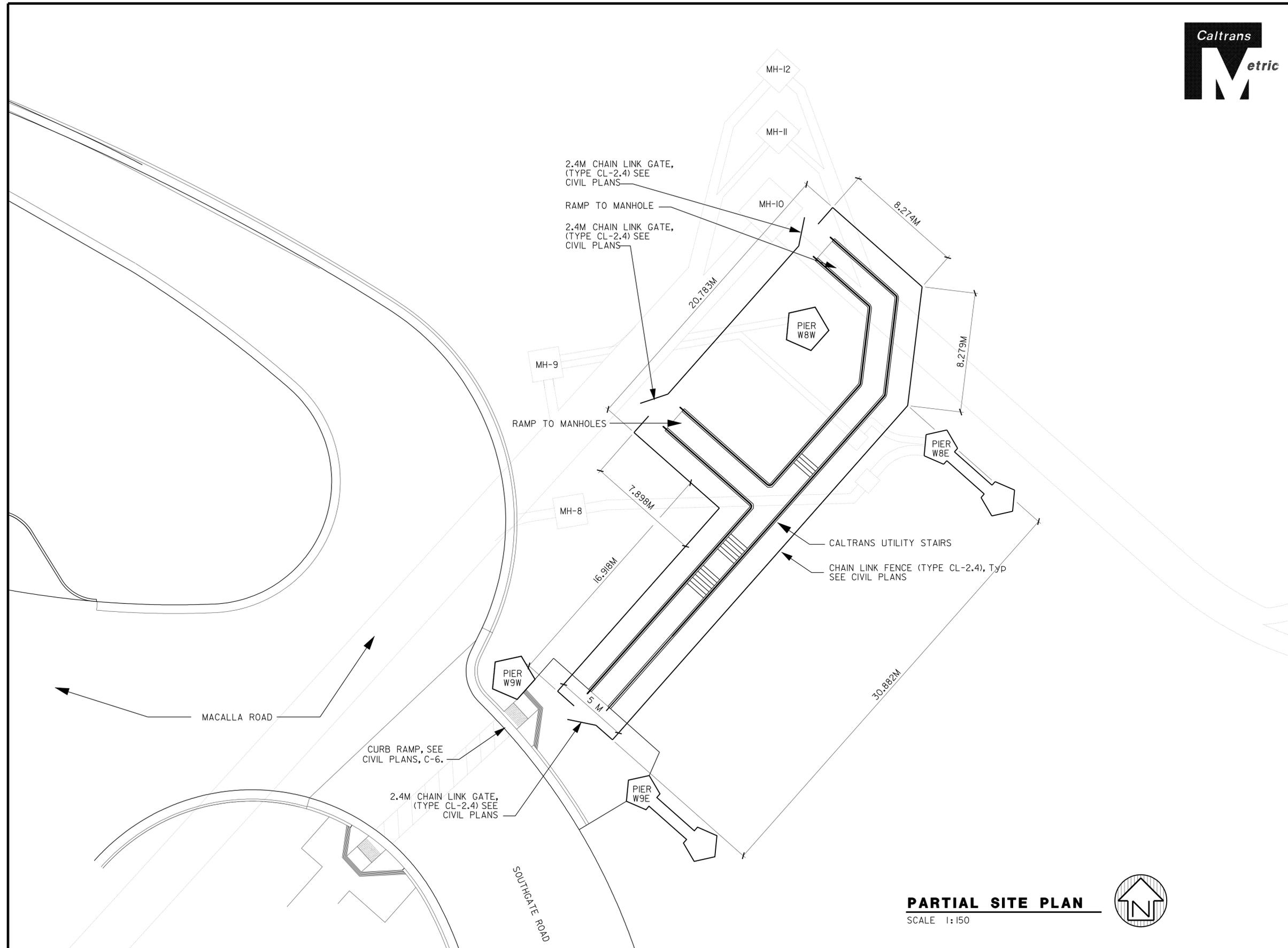
2-21-12 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *Francis Solich* FRANCIS SOLICH Approval date: 11-09-11



PARTIAL SITE PLAN
SCALE 1:150



a1_1_site.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET A1-1
	DETAILS BY S. YEH	CHECKED Q. WONG			KM POST 12.8		
QUANTITIES BY	CHECKED		UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X XX	

25-FEB-2012 09:09



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	736	821

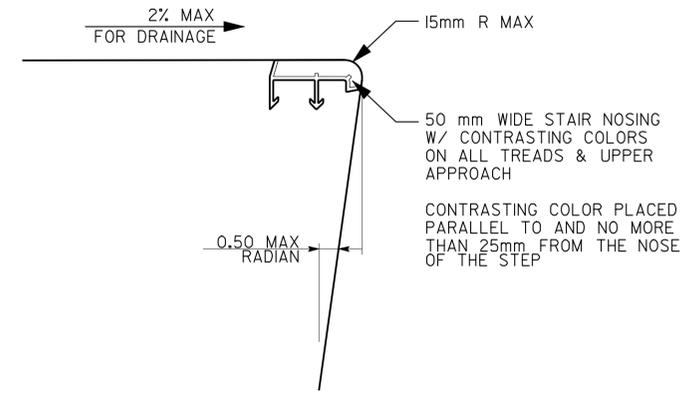
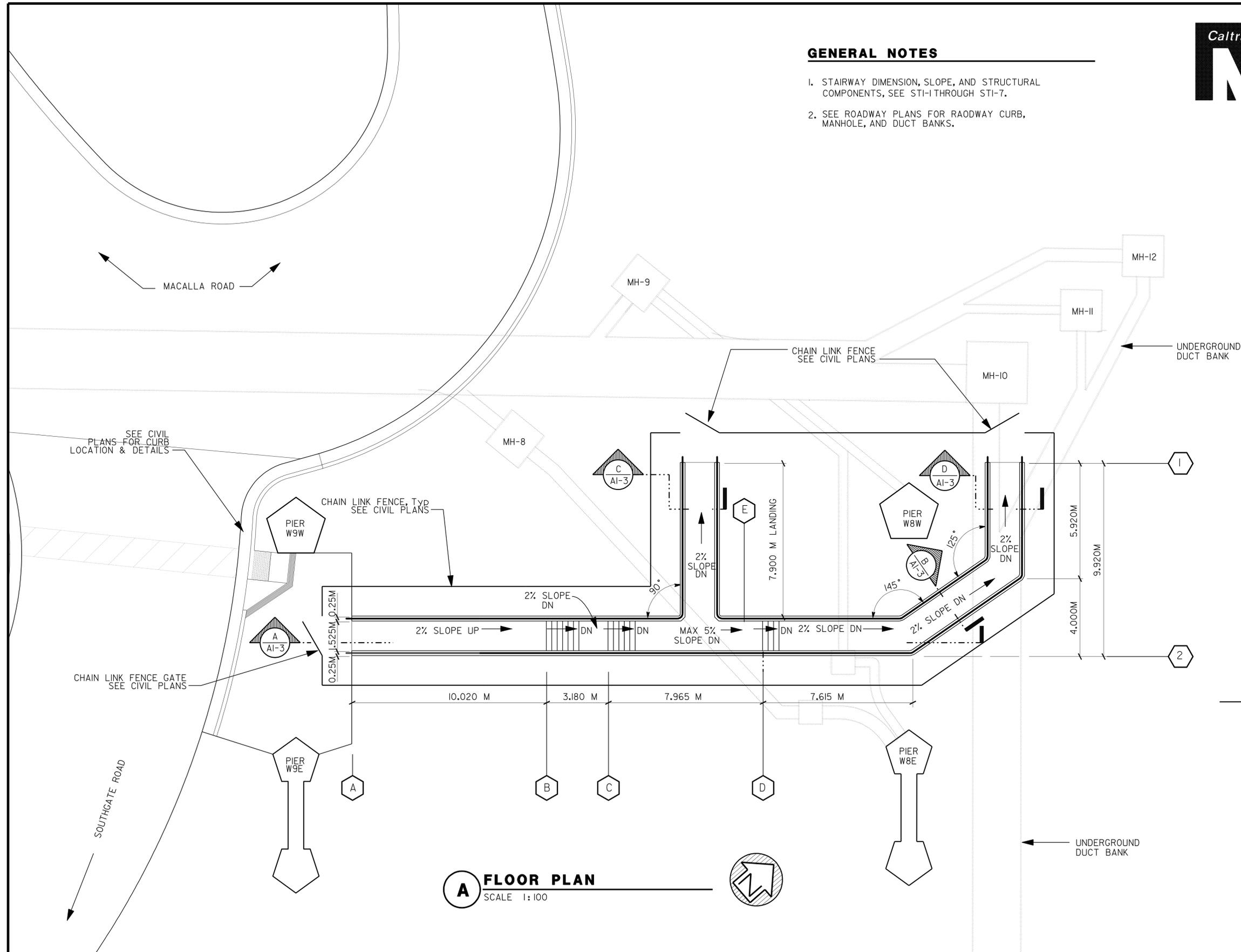
LICENSED ARCHITECT *Quincy Wong* 5-6-11 DATE

2-21-12 PLANS APPROVAL DATE

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- GENERAL NOTES**
1. STAIRWAY DIMENSION, SLOPE, AND STRUCTURAL COMPONENTS, SEE STI-1 THROUGH STI-7.
 2. SEE ROADWAY PLANS FOR ROADWAY CURB, MANHOLE, AND DUCT BANKS.



A FLOOR PLAN
SCALE 1:100

1 NOSING @ STAIR TREAD
NO SCALE

a1_2_plan.dgn DS OSD metric Rev. 11/98 09-MAR-2012 13:39	DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES FLOOR PLAN	SHEET OF A1-2
	DETAILS BY S. YEH	CHECKED Q. WONG			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100	UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF XX	09-MAR-2012 13:39

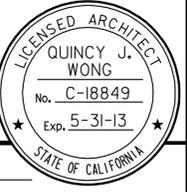
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.
2. SEE STI-1 THROUGH STI-7. FOR ADDITIONAL INFORMATION.

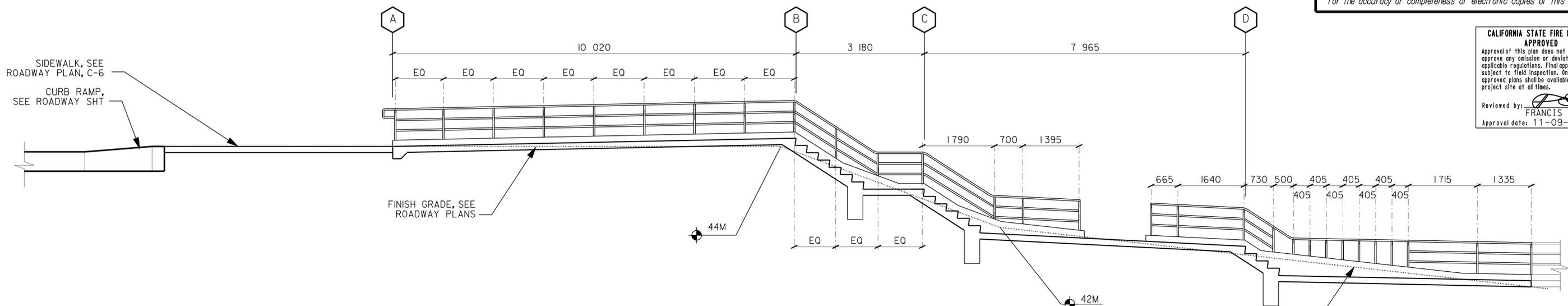


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	737	821

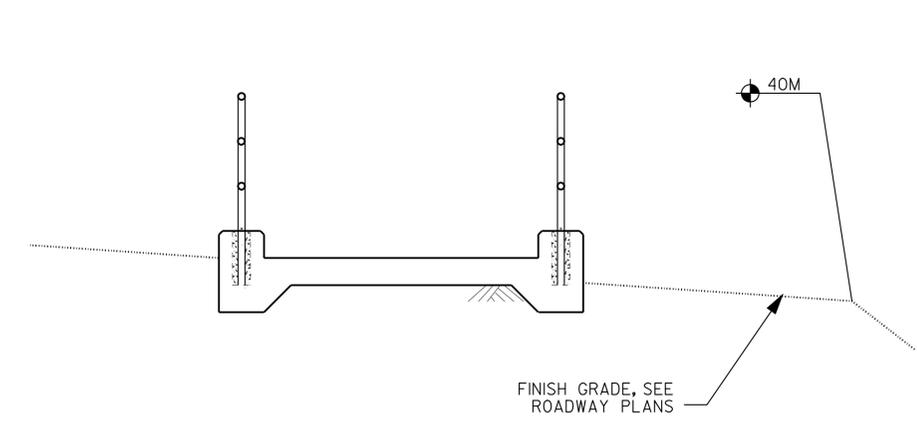
 LICENSED ARCHITECT		5-6-11 DATE
2-21-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



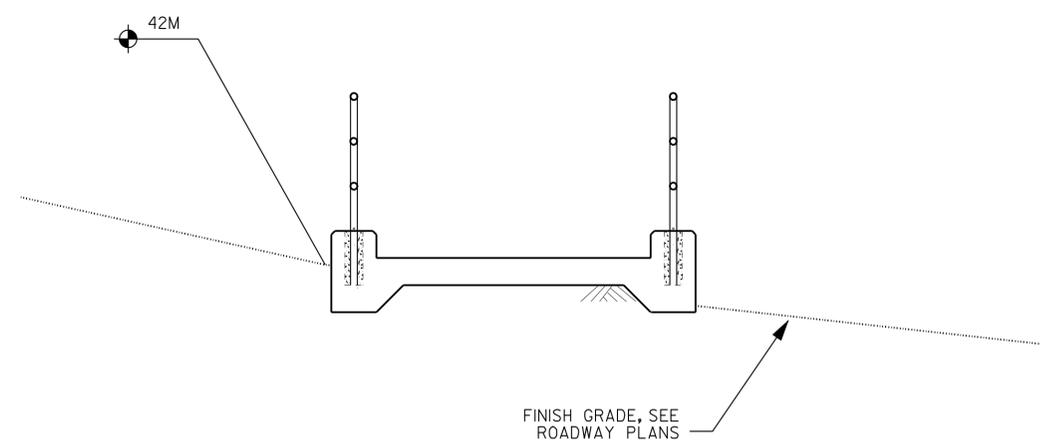
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by:
FRANCIS SOLICH
 Approval date: 11-09-11



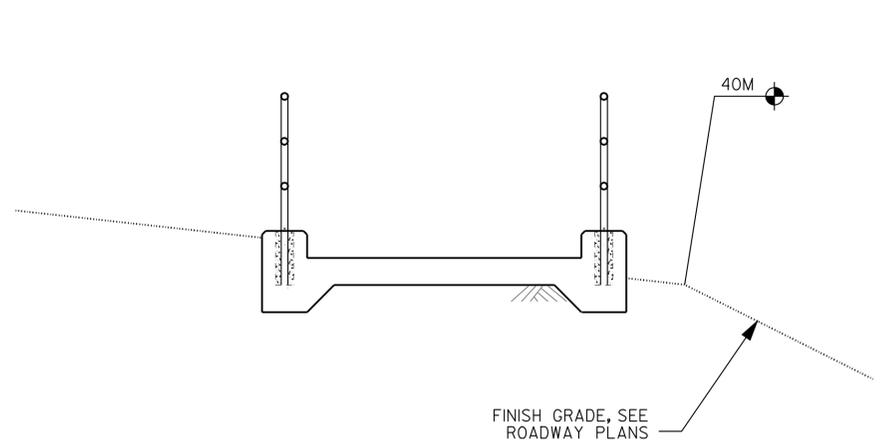
A SECTION
 SCALE 1:50



B SECTION
 SCALE 1:20



C SECTION
 SCALE 1:20



D SECTION
 SCALE 1:20

a1_3_section.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTIONS	SHEET A1-3
	DETAILS BY S. YEH	CHECKED Q. WONG			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X XX

25-FEB-2012 09:09



COLOR SCHEDULE

MANUFACTURERS' DESIGNATIONS BELOW ARE INCLUDED AS EXAMPLES OF COLOR AND FINISH ONLY. OTHER MANUFACTURERS' PRODUCTS WHICH MATCH THESE PRODUCTS MAY BE SUBMITTED FOR APPROVAL.

1. STEEL COLUMNS & ALL SUPPLEMENTARY PARTS
"METAL SALES", K7, METALLIC SILVER
2. METAL DECKING SUPPORTING MEMBERS INCLUDING ALL ANCHORS, FASTENING, ACCESSORIES, ELECTRICAL CONDUITS.
MATCH STEEL COLUMN
3. STEEL GIRDER & BEAM INCLUDING ALL BRACKETS, FASTENING, ACCESSORIES
MATCH STEEL COLUMN
4. PREFINISHED METAL FLASHINGS
MATCH STEEL COLUMN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	738	821

LICENSED ARCHITECT *Quincy Wong* DATE 5-6-11

2-21-12
PLANS APPROVAL DATE

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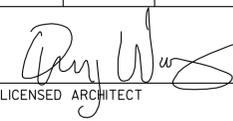
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID * EXEMPT Reviewed by: <i>[Signature]</i> Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 11-09-11
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* EXEMPTION DOCUMENT ON FILE

a2_0_1_index.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES COLOR SCHEDULE	SHEET OF A2-0.1	
	DETAILS BY S. YEH CHECKED Q. WONG			KM POST 12.8			PARKING CANOPY
	QUANTITIES BY CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-05 08-15-05 11-18-05 03-01-06 09-27-07 12-14-07 1-5-11			
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF XX	

25-FEB-2012 09:09

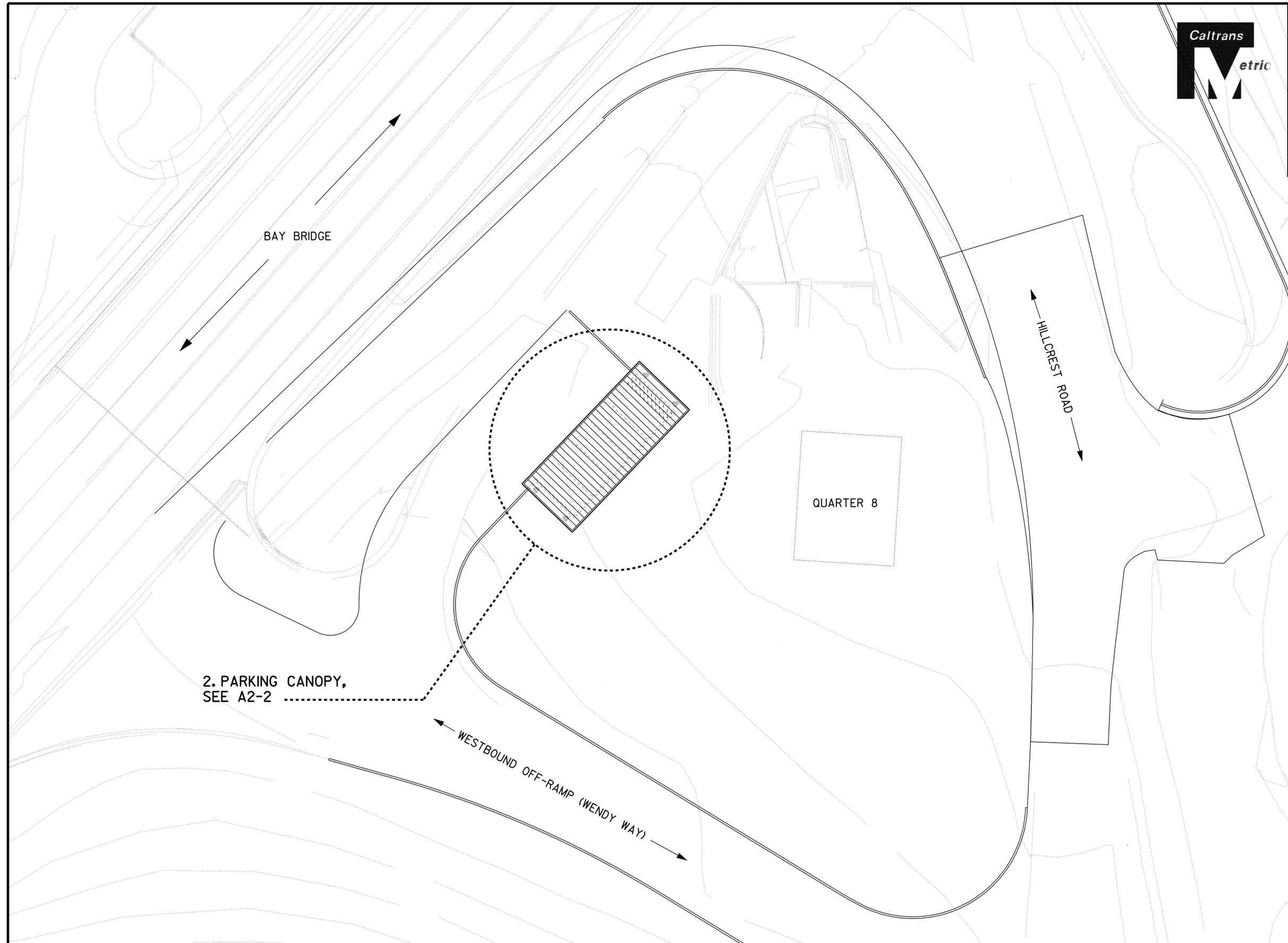


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	739	821
 LICENSED ARCHITECT			5-6-11	DATE	
			2-21-12 PLANS APPROVAL DATE		
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 Reviewed by: 
 FRANCIS SOLICH
 Approval date: 11-09-11

GENERAL NOTE

SEE ROADWAY PLANS FOR LOCATION OF CANOPY PLACEMENT.
 CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS OR ASSEMBLIES.



PARTIAL SITE PLAN
 SCALE 1:200



a2_1_site.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 04000000271	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES PARTIAL SITE PLAN	SHEET OF A2-1
	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF X XX			

25-FEB-2012 09:09



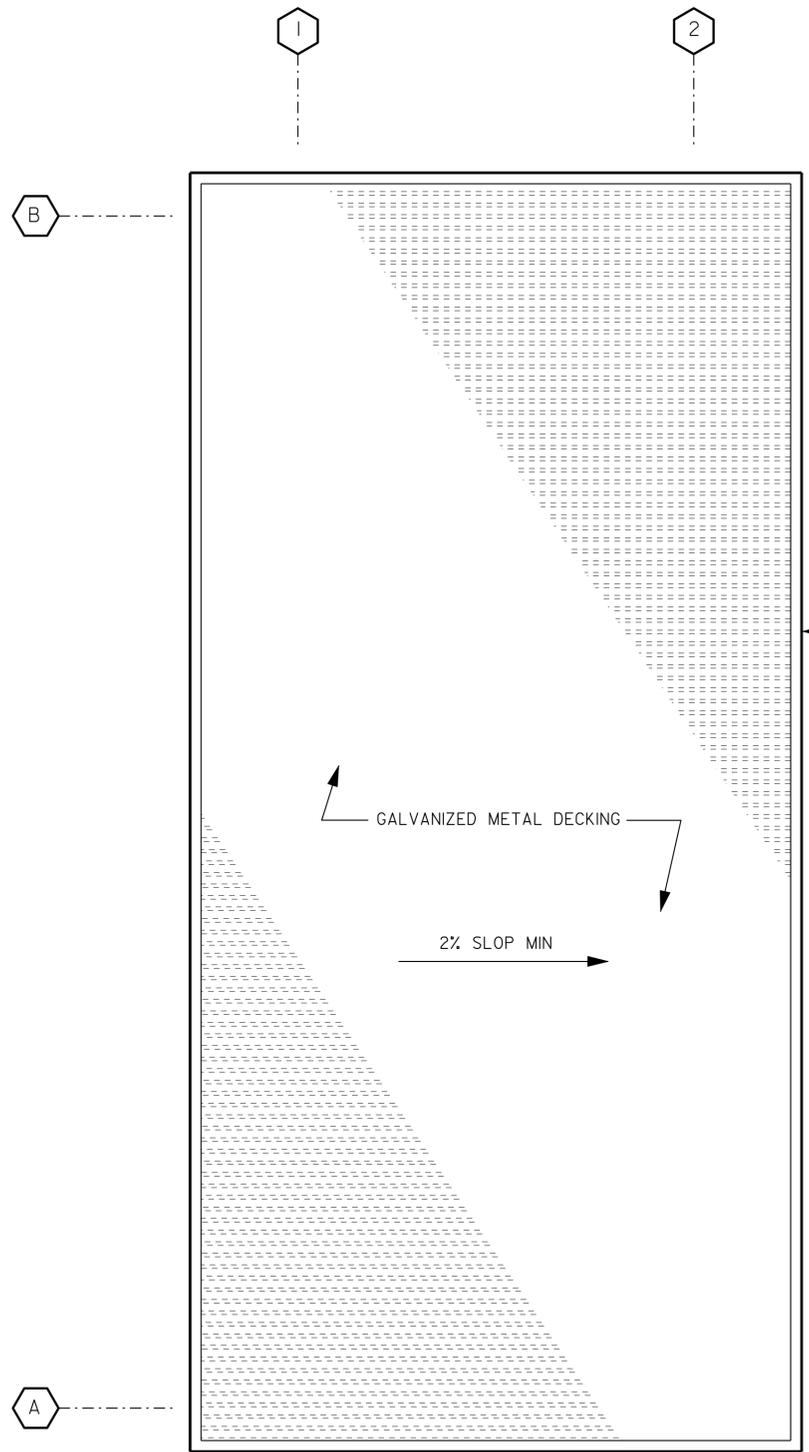
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	741	821


 LICENSED ARCHITECT
 DATE 5-6-11
 2-21-12
 PLANS APPROVAL DATE

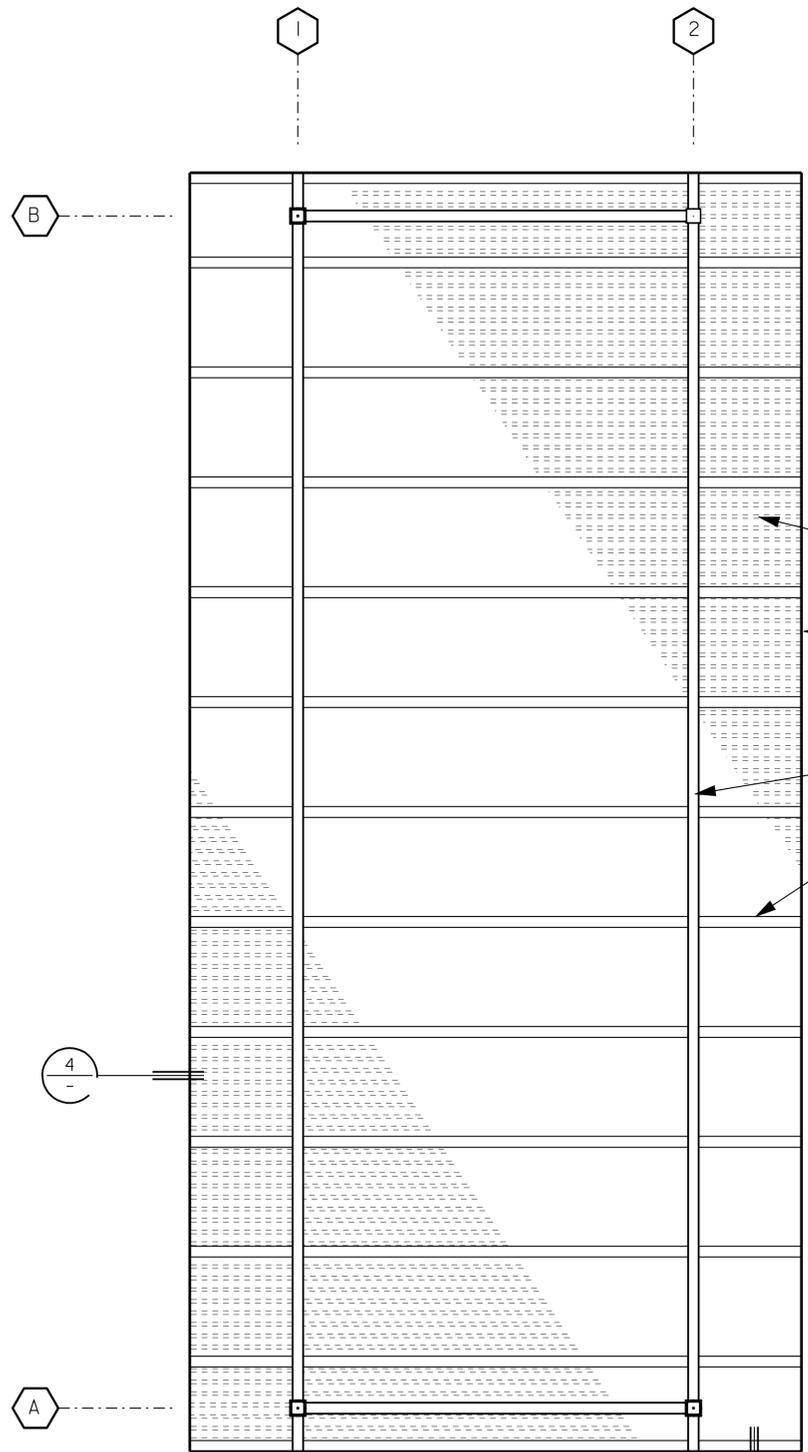


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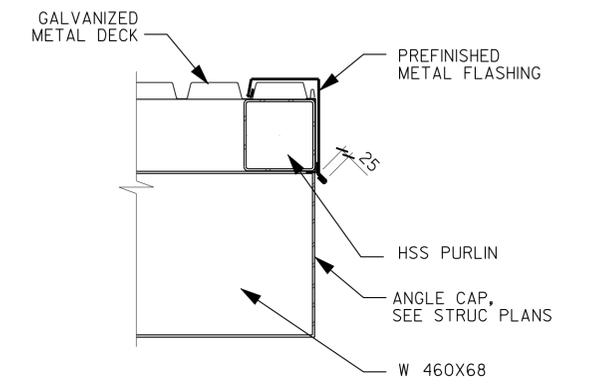


1 ROOF PLAN
SCALE 1:50

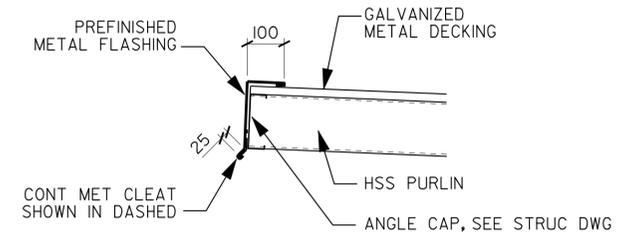


2 REFLECTIVE CEILING PLAN
SCALE 1:50

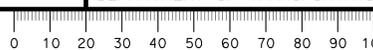
- GALVANIZED METAL DECK
- PREFINISHED METAL FLASHING, TYPICAL ALL SIDES
- W 610X82 SEE STRUC PLANS
- HSS PURLINS, SEE STRUC PLANS



3 FASCIA DETAIL
SCALE 1:10



4 FASCIA DETAIL
SCALE 1:10

a2_3_rfceldt1.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG DETAILS BY S. YEH QUANTITIES BY	CHECKED Q. WONG CHECKED Q. WONG CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES ROOF PLAN, REFLECTIVE CEILING PLAN, AND DETAILS	SHEET OF A2-3
	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-09 02-11-09 03-11-09 04-11-09 05-11-09 06-11-09 07-11-09 08-11-09 09-11-09 10-11-09 11-11-09 12-11-09

25-FEB-2012 09:09

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	743	821

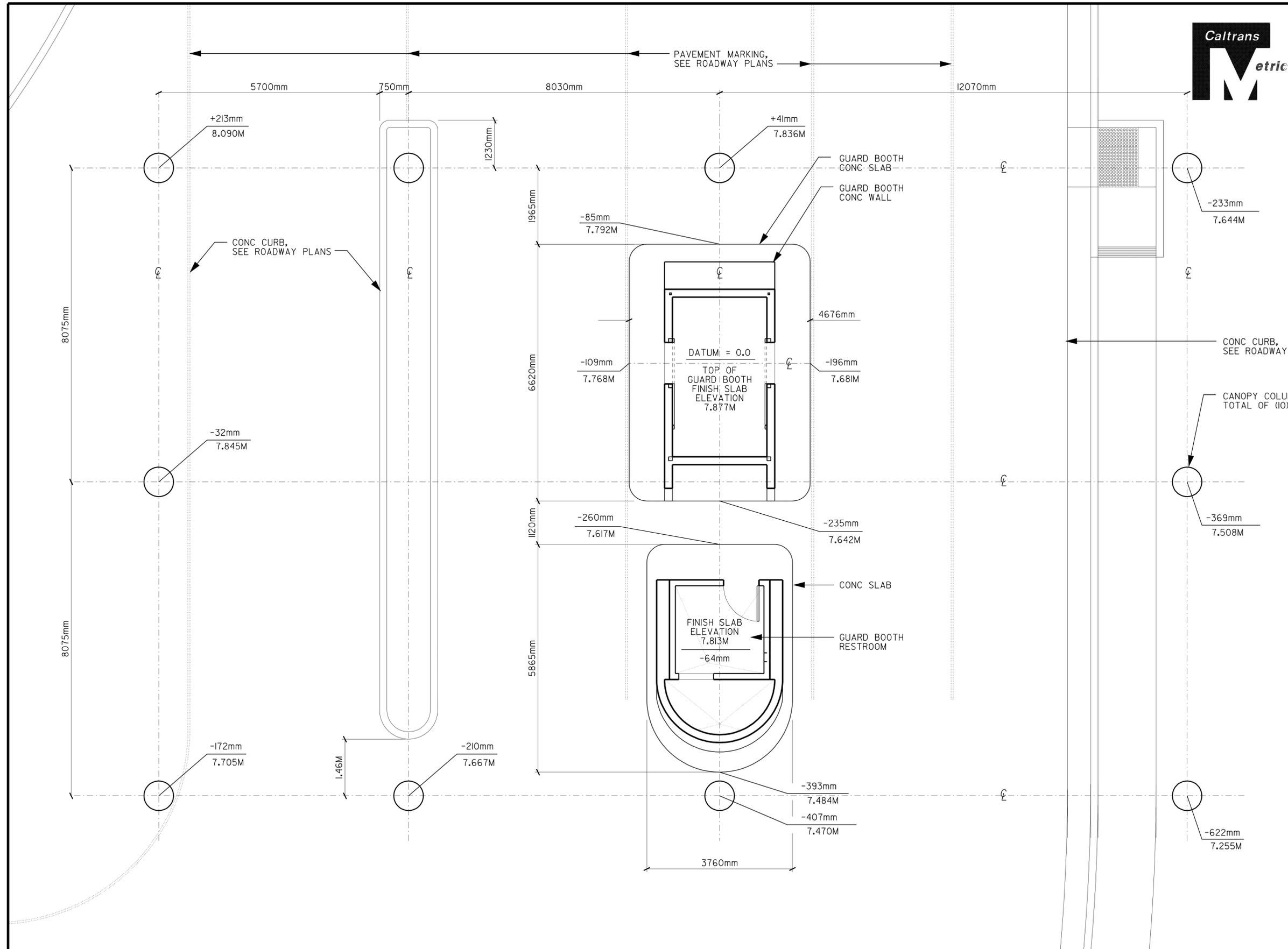
2-21-12
 PLANS APPROVAL DATE
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 Approval date: 11-09-11

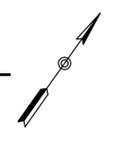
NOTE

DATUM 0.0 = ELEVATION 7.877M, TOP OF GUARD BOOTH FINISH SLAB



GRADING PLAN

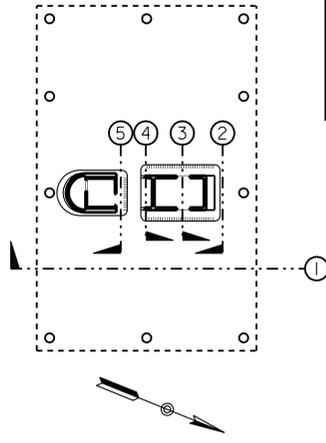
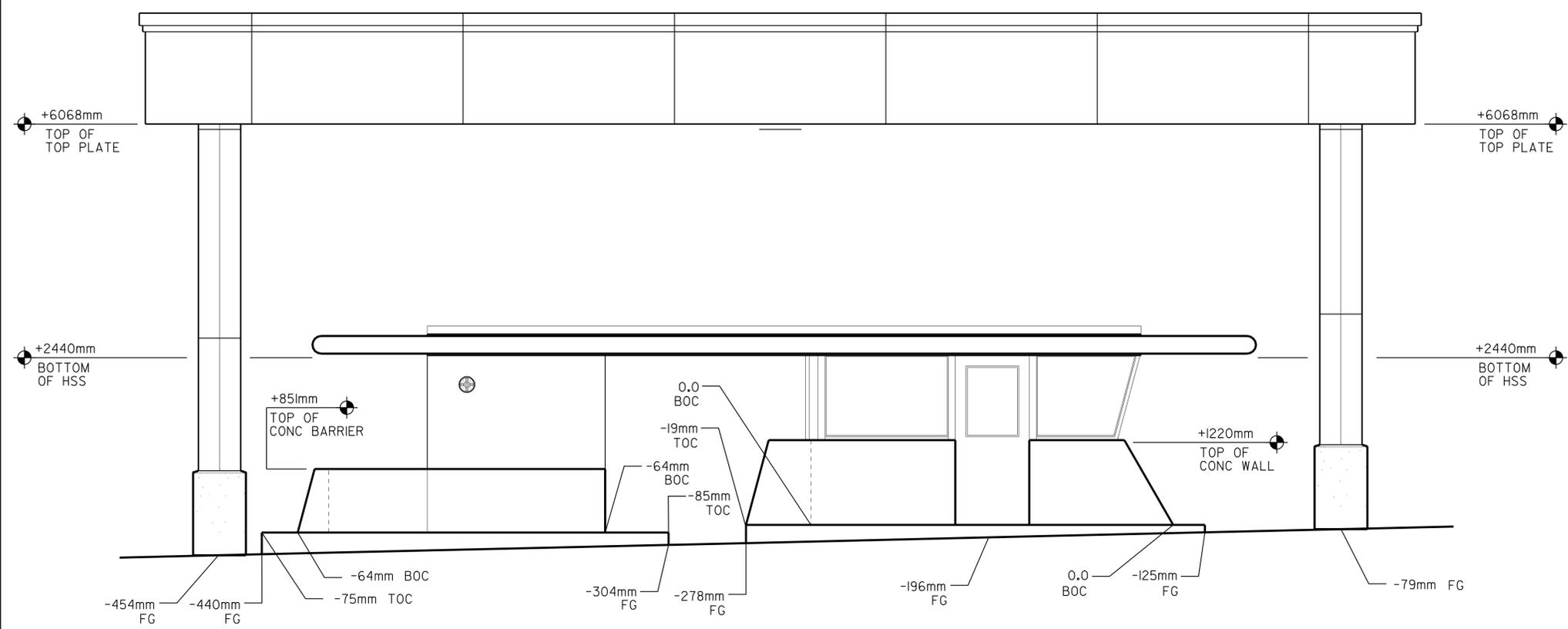
SCALE 1:50



a3_0_4_grade.dgn DS OSD metric Rev. 11/98 27-FEB-2012 10:05	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES GRADING PLAN	SHEET OF X XX
	DETAILS BY S. YEH CHECKED Q. WONG			GUARD BOOTH W/ CANOPY		
	QUANTITIES BY CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-09 01-14-09 01-16-09 01-21-09 01-27-09 01-29-09 01-31-09 02-02-09 02-03-09 02-04-09 02-05-09 02-06-09 02-07-09 02-08-09 02-09-09 02-10-09 02-11-09 02-12-09 02-13-09 02-14-09 02-15-09 02-16-09 02-17-09 02-18-09 02-19-09 02-20-09 02-21-09 02-22-09 02-23-09 02-24-09 02-25-09 02-26-09 02-27-09 02-28-09 02-29-09 02-30-09 03-01-09 03-02-09 03-03-09 03-04-09 03-05-09 03-06-09 03-07-09 03-08-09 03-09-09 03-10-09 03-11-09 03-12-09 03-13-09 03-14-09 03-15-09 03-16-09 03-17-09 03-18-09 03-19-09 03-20-09 03-21-09 03-22-09 03-23-09 03-24-09 03-25-09 03-26-09 03-27-09 03-28-09 03-29-09 03-30-09 03-31-09 04-01-09 04-02-09 04-03-09 04-04-09 04-05-09 04-06-09 04-07-09 04-08-09 04-09-09 04-10-09 04-11-09 04-12-09 04-13-09 04-14-09 04-15-09 04-16-09 04-17-09 04-18-09 04-19-09 04-20-09 04-21-09 04-22-09 04-23-09 04-24-09 04-25-09 04-26-09 04-27-09 04-28-09 04-29-09 04-30-09 05-01-09 05-02-09 05-03-09 05-04-09 05-05-09 05-06-09 05-07-09 05-08-09 05-09-09 05-10-09 05-11-09 05-12-09 05-13-09 05-14-09 05-15-09 05-16-09 05-17-09 05-18-09 05-19-09 05-20-09 05-21-09 05-22-09 05-23-09 05-24-09 05-25-09 05-26-09 05-27-09 05-28-09 05-29-09 05-30-09 05-31-09 06-01-09 06-02-09 06-03-09 06-04-09 06-05-09 06-06-09 06-07-09 06-08-09 06-09-09 06-10-09 06-11-09 06-12-09 06-13-09 06-14-09 06-15-09 06-16-09 06-17-09 06-18-09 06-19-09 06-20-09 06-21-09 06-22-09 06-23-09 06-24-09 06-25-09 06-26-09 06-27-09 06-28-09 06-29-09 06-30-09 07-01-09 07-02-09 07-03-09 07-04-09 07-05-09 07-06-09 07-07-09 07-08-09 07-09-09 07-10-09 07-11-09 07-12-09 07-13-09 07-14-09 07-15-09 07-16-09 07-17-09 07-18-09 07-19-09 07-20-09 07-21-09 07-22-09 07-23-09 07-24-09 07-25-09 07-26-09 07-27-09 07-28-09 07-29-09 07-30-09 07-31-09 08-01-09 08-02-09 08-03-09 08-04-09 08-05-09 08-06-09 08-07-09 08-08-09 08-09-09 08-10-09 08-11-09 08-12-09 08-13-09 08-14-09 08-15-09 08-16-09 08-17-09 08-18-09 08-19-09 08-20-09 08-21-09 08-22-09 08-23-09 08-24-09 08-25-09 08-26-09 08-27-09 08-28-09 08-29-09 08-30-09 08-31-09 09-01-09 09-02-09 09-03-09 09-04-09 09-05-09 09-06-09 09-07-09 09-08-09 09-09-09 09-10-09 09-11-09 09-12-09 09-13-09 09-14-09 09-15-09 09-16-09 09-17-09 09-18-09 09-19-09 09-20-09 09-21-09 09-22-09 09-23-09 09-24-09 09-25-09 09-26-09 09-27-09 09-28-09 09-29-09 09-30-09 10-01-09 10-02-09 10-03-09 10-04-09 10-05-09 10-06-09 10-07-09 10-08-09 10-09-09 10-10-09 10-11-09 10-12-09 10-13-09 10-14-09 10-15-09 10-16-09 10-17-09 10-18-09 10-19-09 10-20-09 10-21-09 10-22-09 10-23-09 10-24-09 10-25-09 10-26-09 10-27-09 10-28-09 10-29-09 10-30-09 10-31-09 11-01-09 11-02-09 11-03-09 11-04-09 11-05-09 11-06-09 11-07-09 11-08-09 11-09-09 11-10-09 11-11-09 11-12-09 11-13-09 11-14-09 11-15-09 11-16-09 11-17-09 11-18-09 11-19-09 11-20-09 11-21-09 11-22-09 11-23-09 11-24-09 11-25-09 11-26-09 11-27-09 11-28-09 11-29-09 11-30-09 12-01-09 12-02-09 12-03-09 12-04-09 12-05-09 12-06-09 12-07-09 12-08-09 12-09-09 12-10-09 12-11-09 12-12-09 12-13-09 12-14-09 12-15-09 12-16-09 12-17-09 12-18-09 12-19-09 12-20-09 12-21-09 12-22-09 12-23-09 12-24-09 12-25-09 12-26-09 12-27-09 12-28-09 12-29-09 12-30-09 12-31-09		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES			

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	744	821

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-09-11

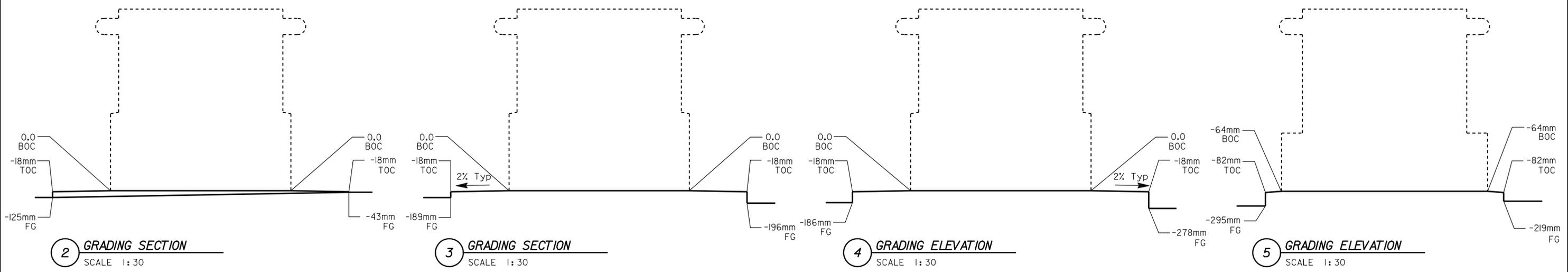
LEGEND

- BOC BOTTOM OF CONCRETE WALL
- FG FINISH GRADE
- TOC TOP OF CURB

GENERAL NOTE

DATUM 0.0 = ELEVATION 7.877M, TOP OF GUARD BOOTH FINISH SLAB SEE A3-0.4.

1 GRADING ELEVATION
SCALE 1:40



a3_0_5_grade.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:09	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES BUILDING GRADING	SHEET OF X XX
	DETAILS BY S. YEH CHECKED Q. WONG			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X XX	25-FEB-2012 09:09



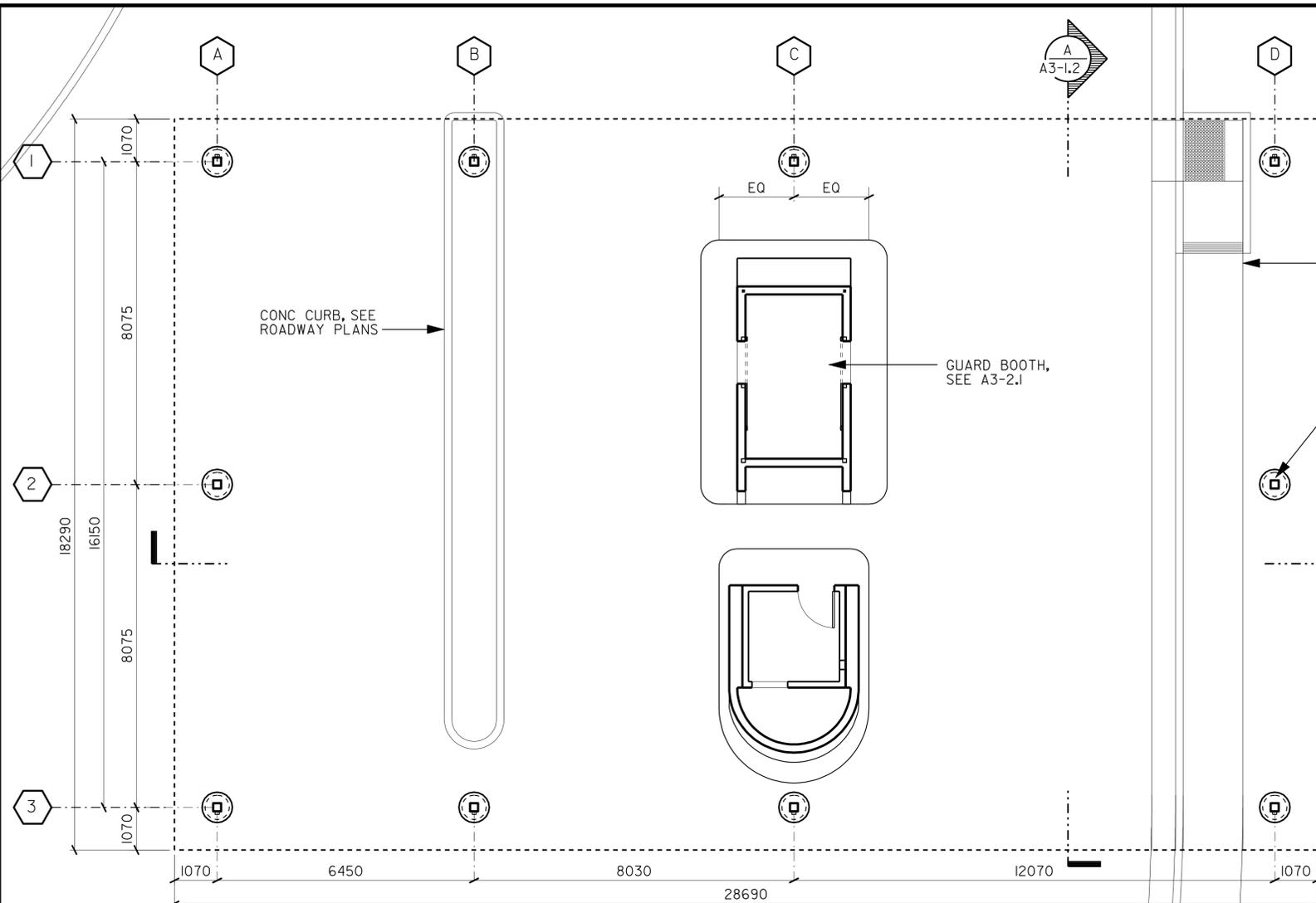
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	745	821

 LICENSED ARCHITECT		5-6-11 DATE
2-21-12 PLANS APPROVAL DATE		

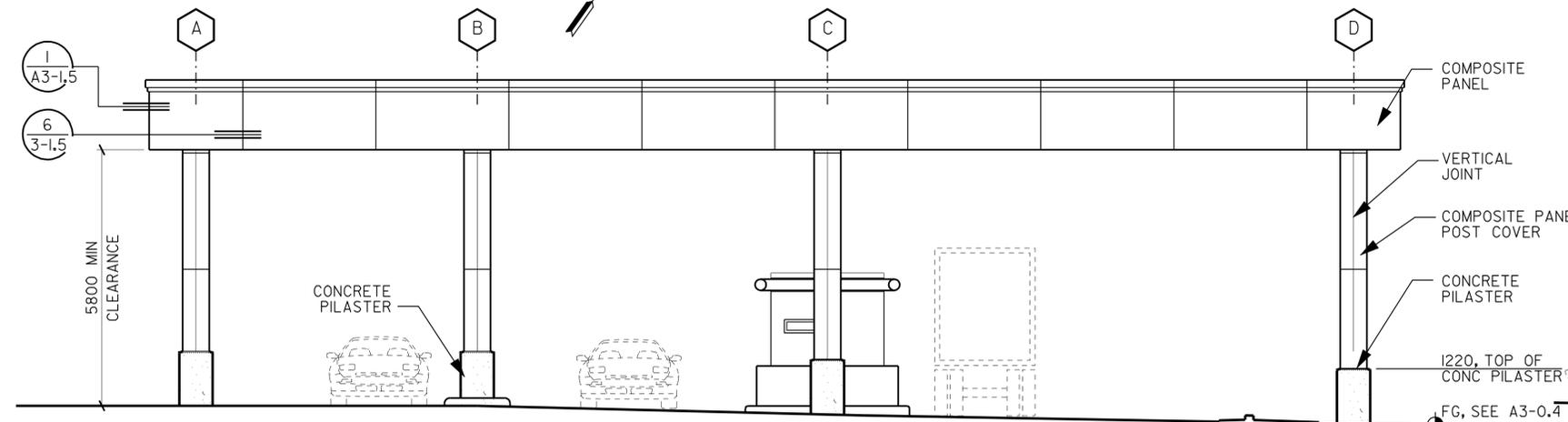
LICENSED ARCHITECT QUINCY J. WONG No. C-18849 Exp. 5-31-13 STATE OF CALIFORNIA	
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FRANCIS SOLICH
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A CANOPY PLAN
 SCALE 1:75



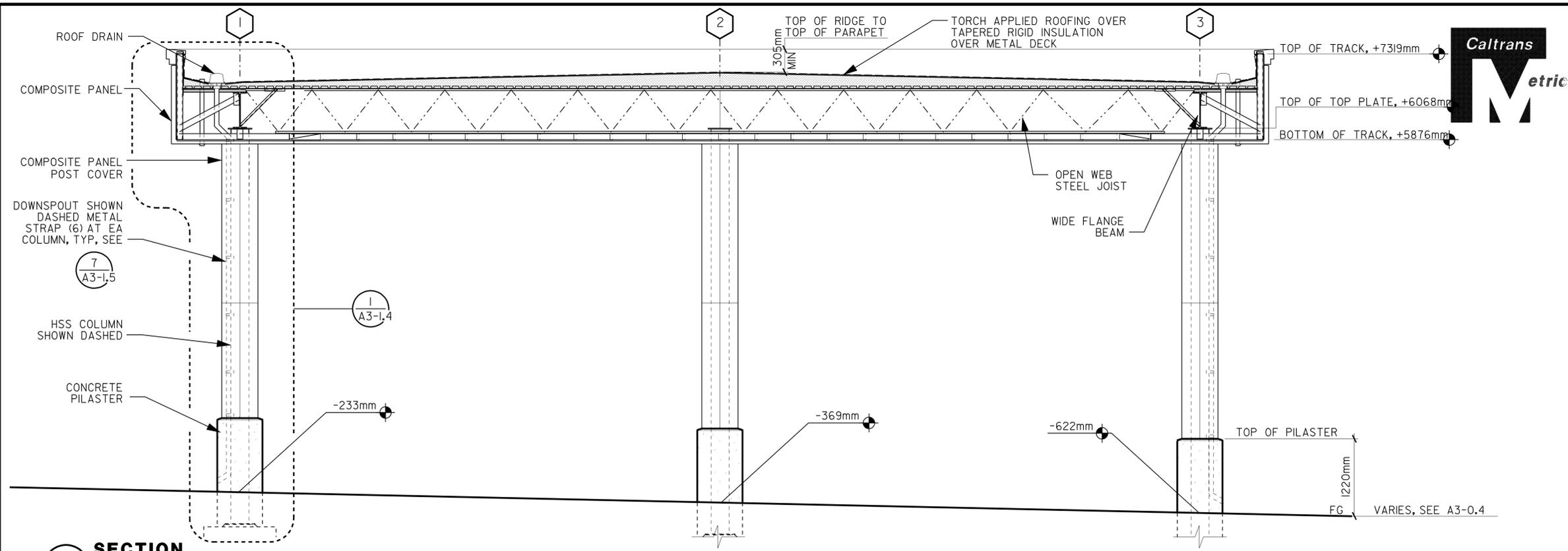
B CANOPY SOUTH ELEVATION
 SCALE 1:75



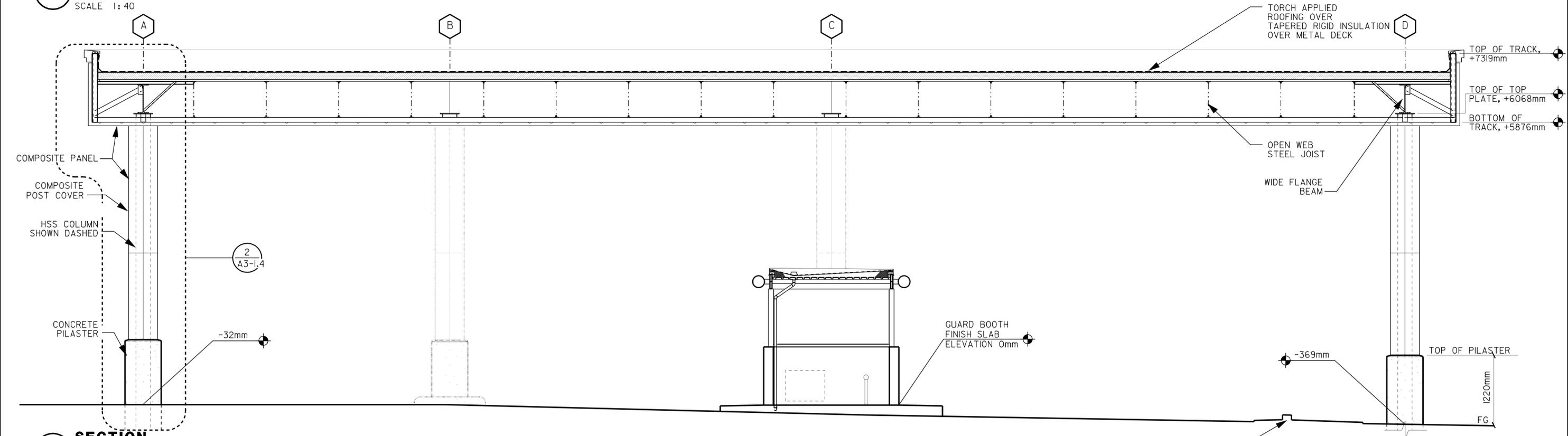
C CANOPY WEST ELEVATION
 SCALE 1:75

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	DETAILS BY S. YEH CHECKED Q. WONG		PROJECT NUMBER & PHASE 3598 0400000271	KM POST 12.8	GUARD BOOTH CANOPY	PLAN AND ELEVATIONS	
	QUANTITIES BY CHECKED		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 11-14-05 03-01-06 09-27-07 12-14-07 9-21-08 7-5-11 6-1-11	SHEET OF XX	

25-FEB-2012 09:10



A SECTION
SCALE 1:40



B SECTION
SCALE 1:40

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	746	821

Caltrans
Metric

QUINCY J. WONG
 LICENSED ARCHITECT
 No. C-18849
 Exp. 5-31-13
 STATE OF CALIFORNIA

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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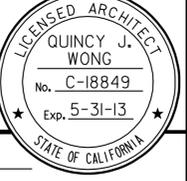
GENERAL NOTE

DATUM ELEVATION 7.877M = TOP OF GUARD BOOTH FINISH SLAB 0 mm, SEE A3-0.4.

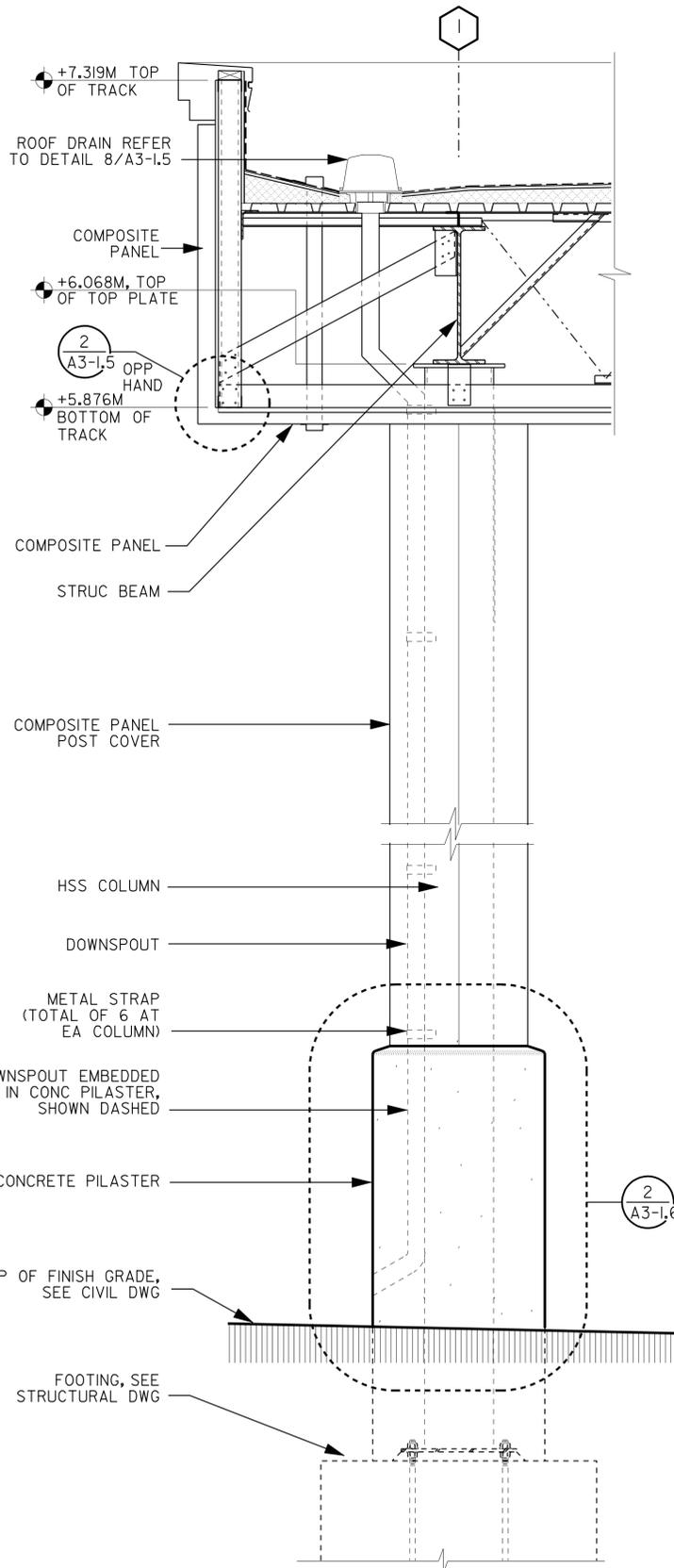
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	DETAILS BY S. YEH	CHECKED Q. WONG			KM POST 12.8			GUARD BOOTH CANOPY
QUANTITIES BY	CHECKED		UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF X XX

09-MAR-2012 13:39

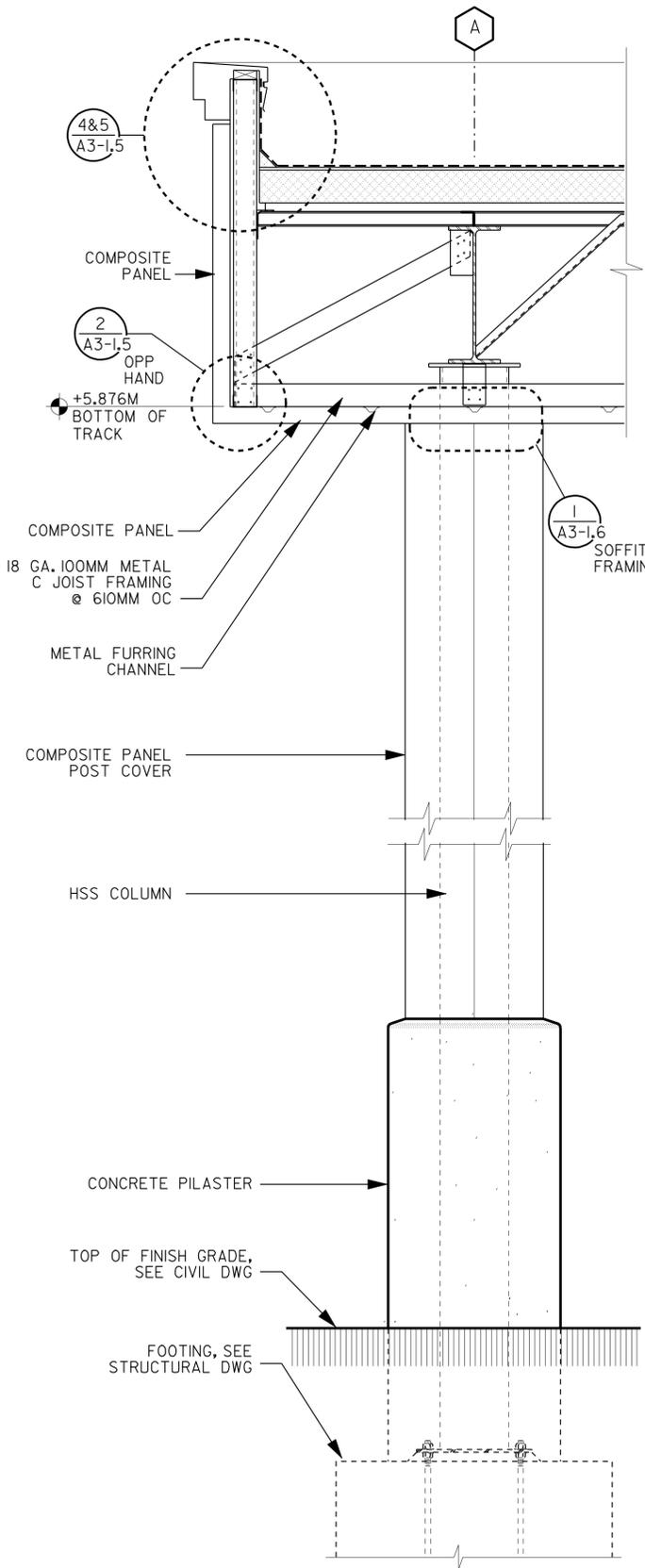
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	748	821

 LICENSED ARCHITECT		5-6-11 DATE
		
2-21-12 PLANS APPROVAL DATE		
<i>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.</i>		

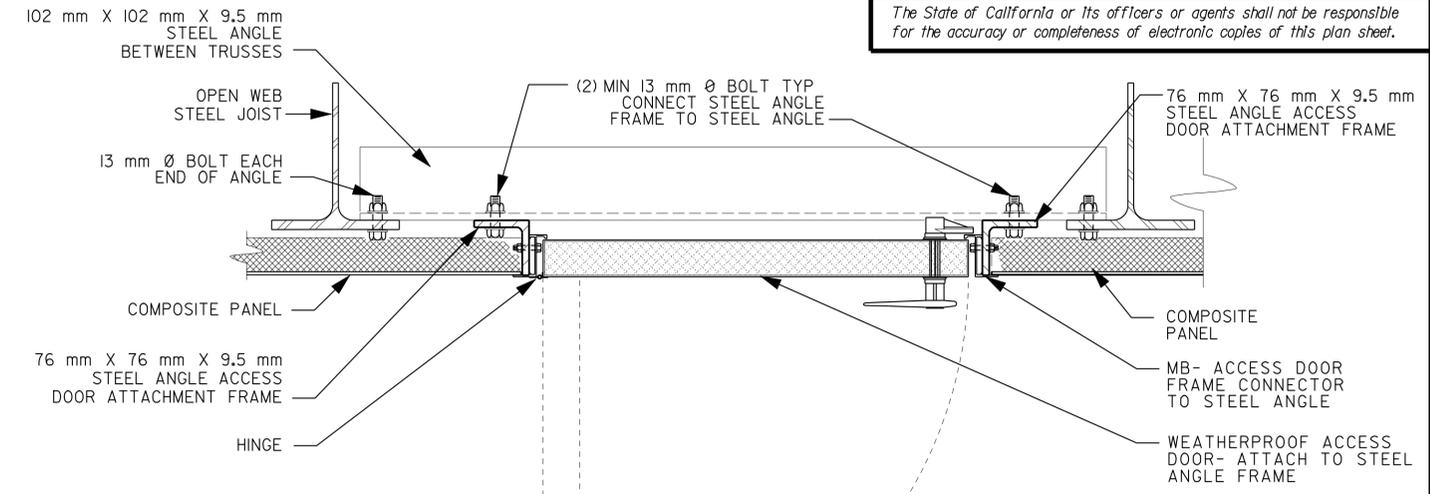
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
FRANCIS SOLICH
 Approval date: 11-09-11



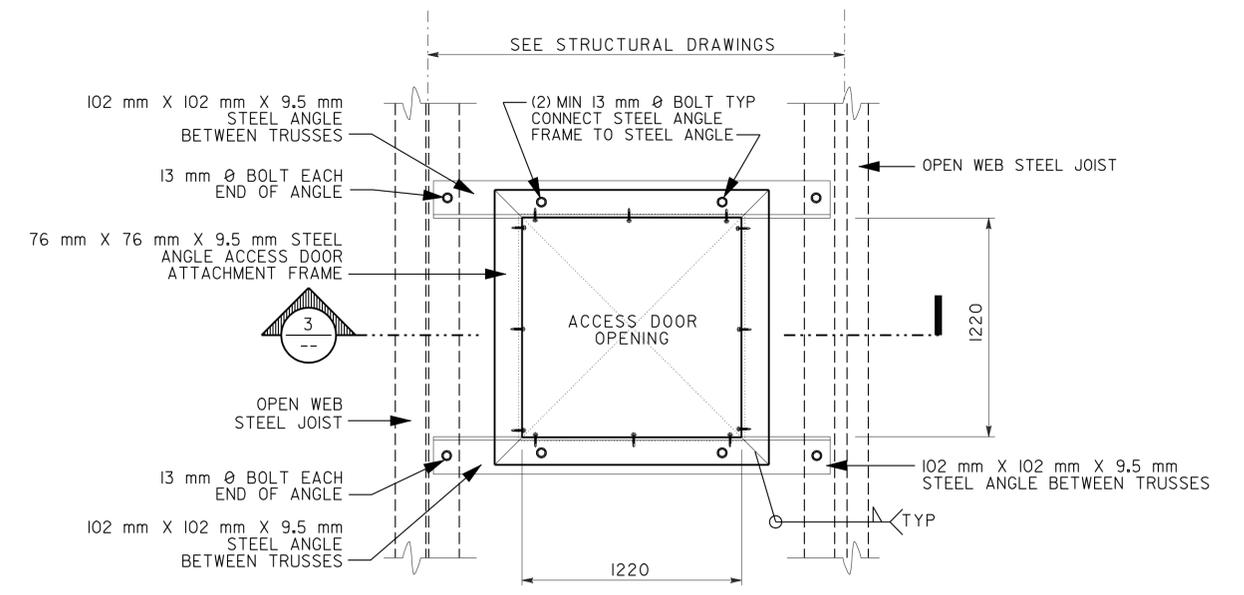
1 SECTION
 SCALE 1:15



2 SECTION
 SCALE 1:15



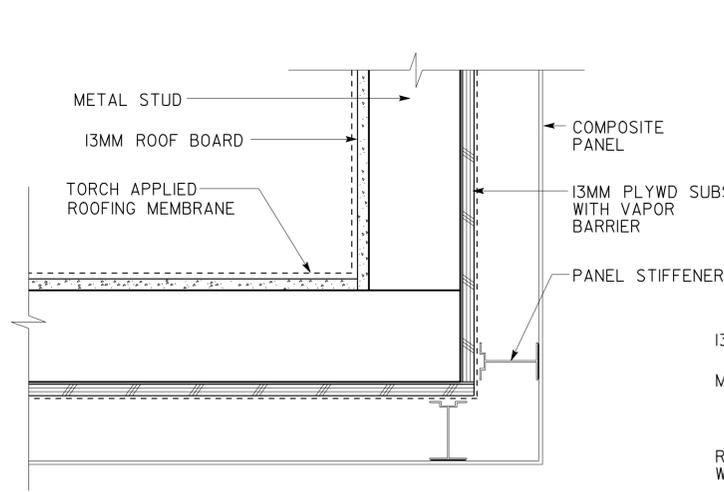
3
 PROTECTED SEPARATOR REQUIRED BETWEEN DISSIMILAR METALS
 SCALE 1:5



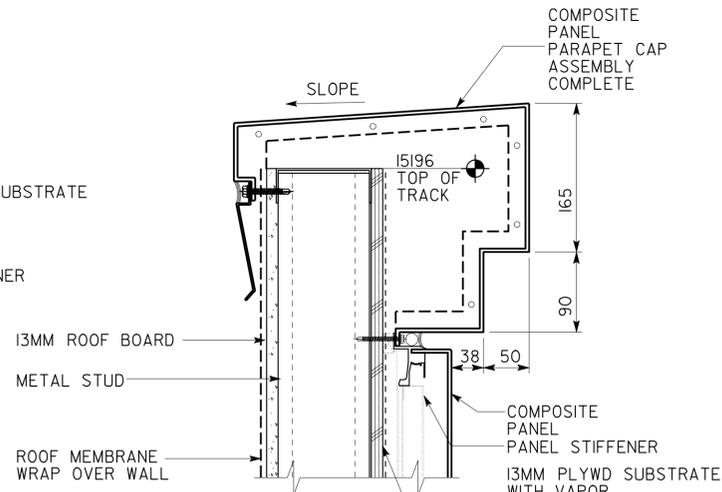
4
 PROTECTED SEPARATOR REQUIRED BETWEEN DISSIMILAR METALS
PLAN VIEW
 SCALE 1:10

a3_1_04_sections.dgn DS OSD metric Rev. 11/98 25-FEB-2012 09:10	DESIGN BY Q. WONG CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTIONS	SHEET OF A3-1.4
	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 11-14-05 03-01-06 09-27-07 12-14-07 9-21-09 7-5-11 6-1-11

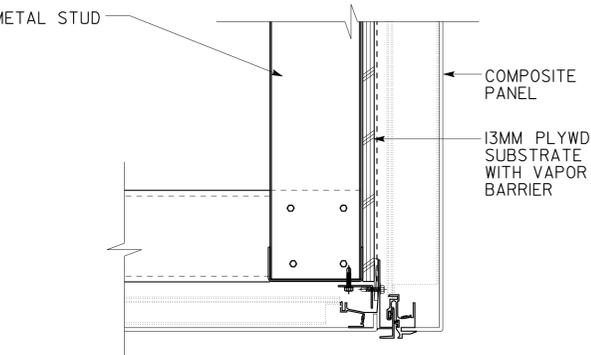
25-FEB-2012 09:10



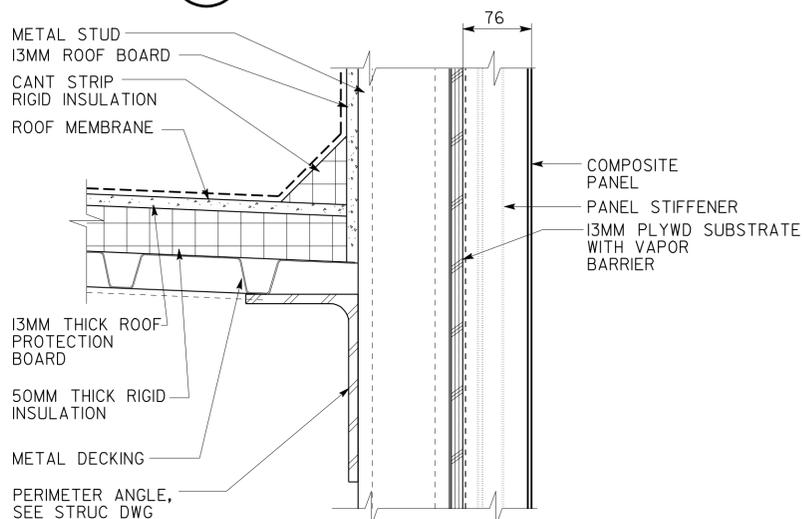
1 CORNER FOLD
SCALE 1=5



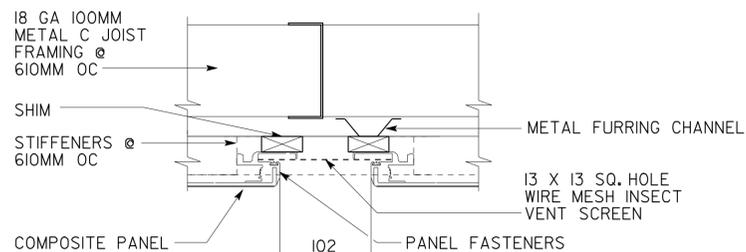
4 PARAPET MOLDING PROFILE
SCALE 1=5



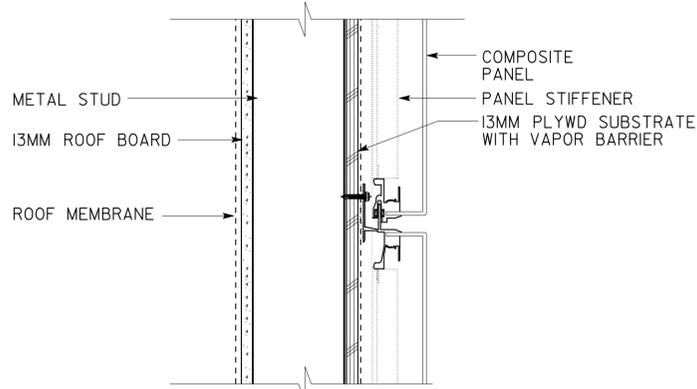
2 SOFFIT FACE
SCALE 1=5



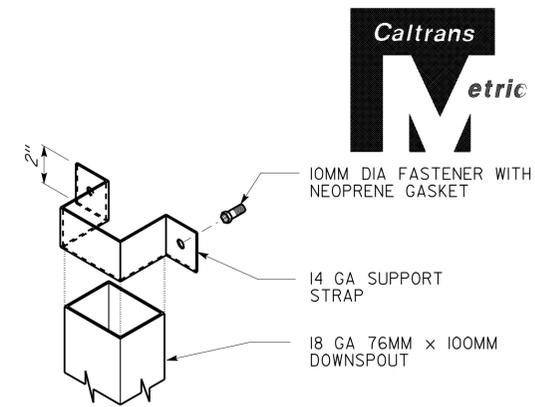
5 CANT STRIP AT STUD WALL
SCALE 1=5



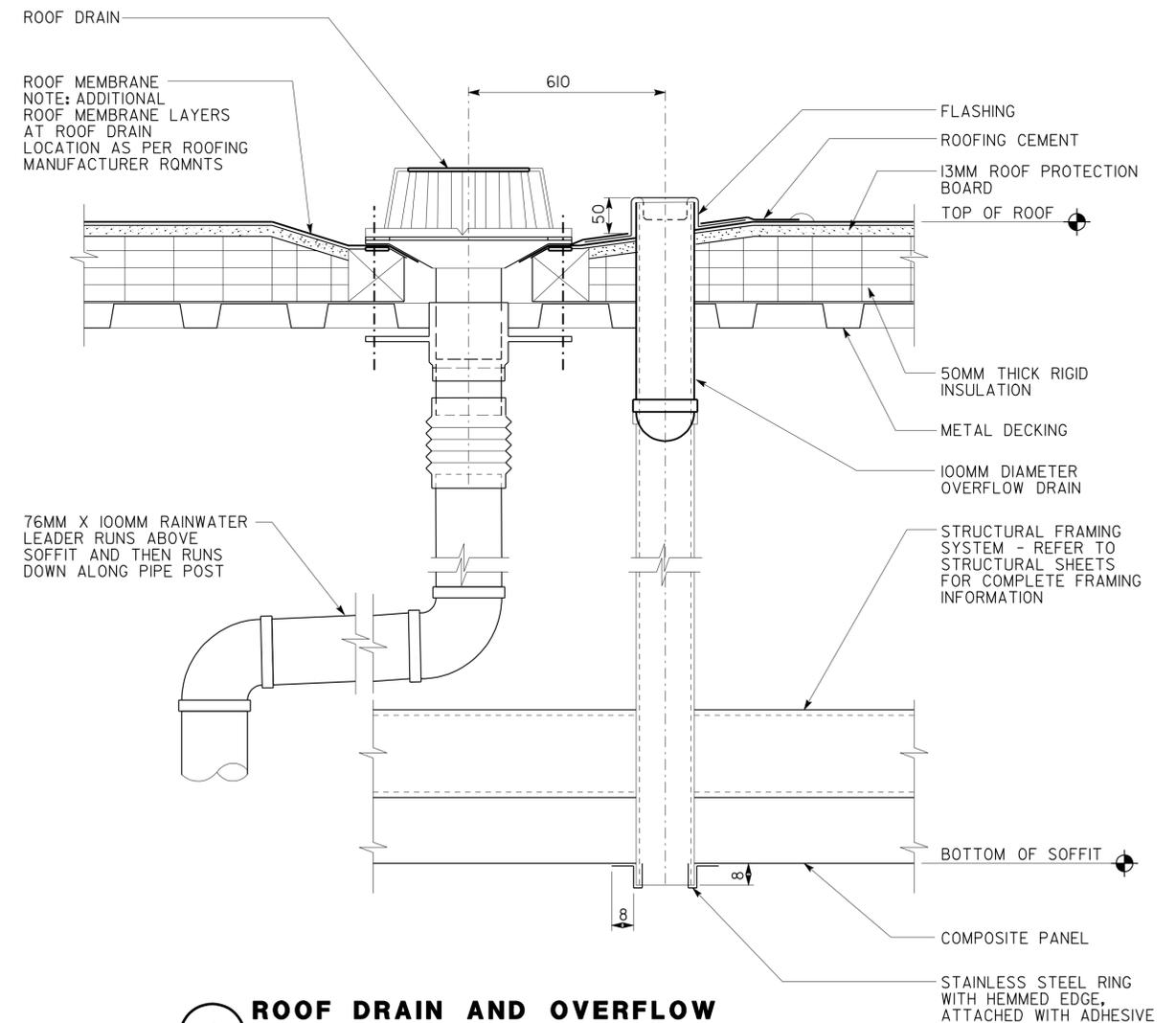
3 SOFFIT VENT
SCALE 1=5



6 HORIZONTAL PANEL JOINT
SCALE 1=5



7 DOWNSPOUT SUPPORT
NO SCALE



8 ROOF DRAIN AND OVERFLOW
SCALE 1=5



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	749	821

LICENSED ARCHITECT
 QUINCY J. WONG
 No. C-18849
 Exp. 5-31-13
 STATE OF CALIFORNIA

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-09-11

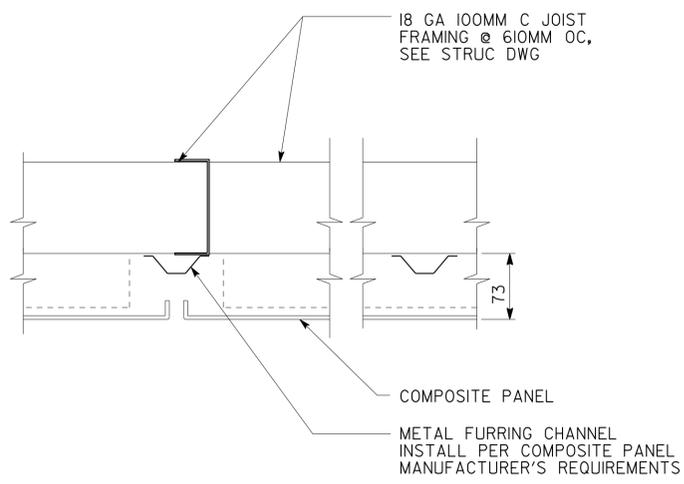


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	750	821

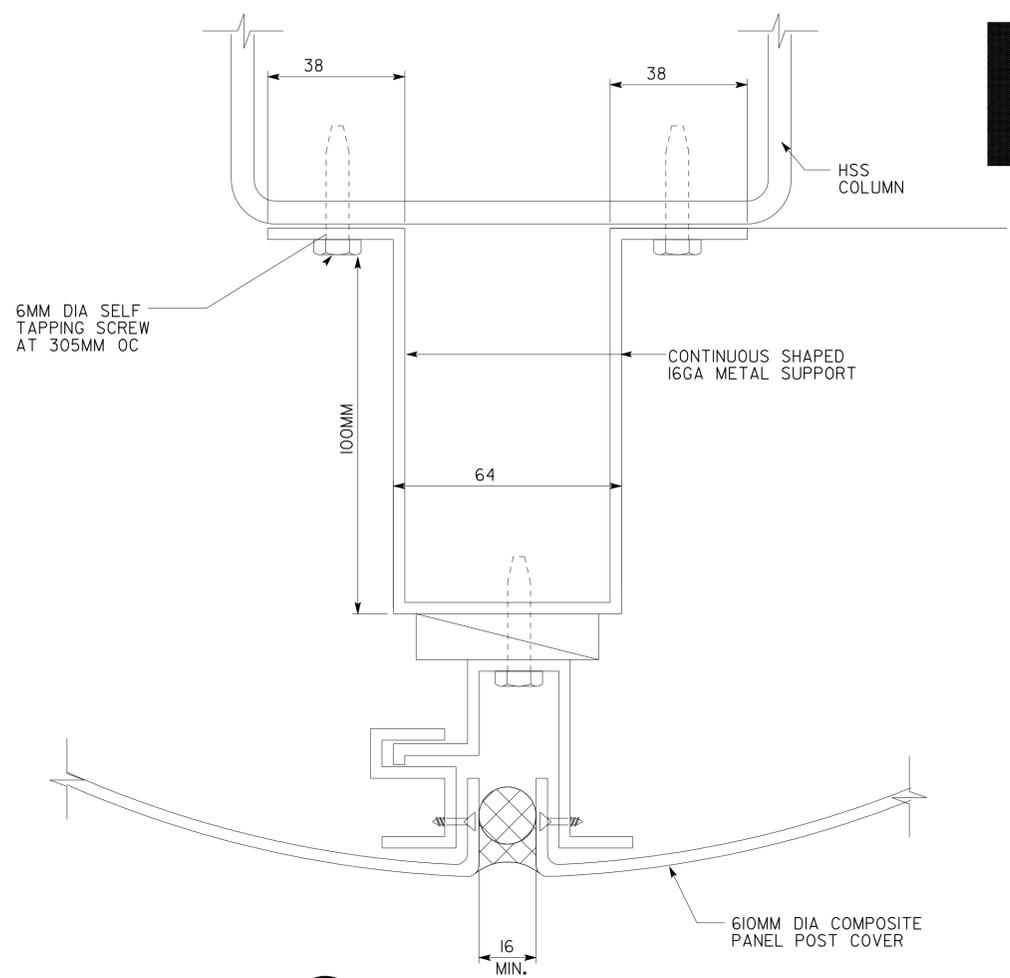
5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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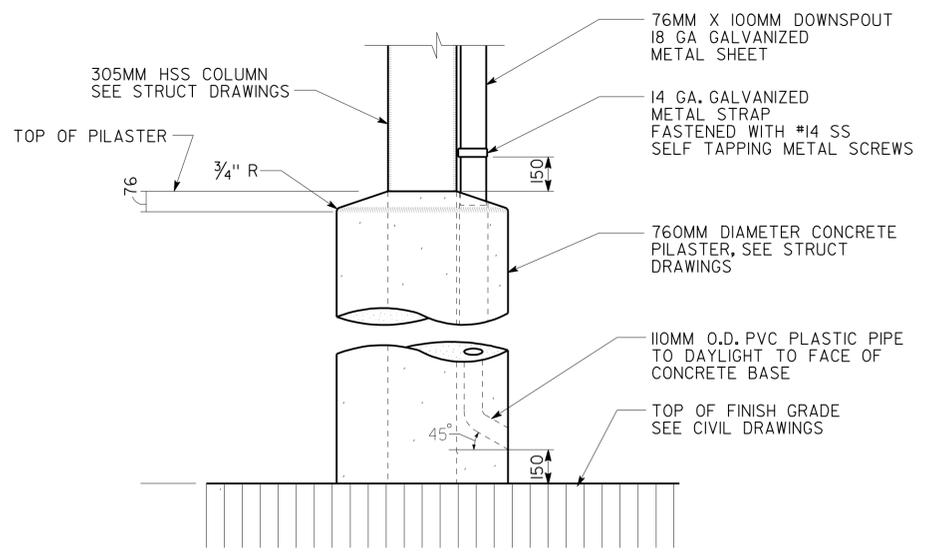
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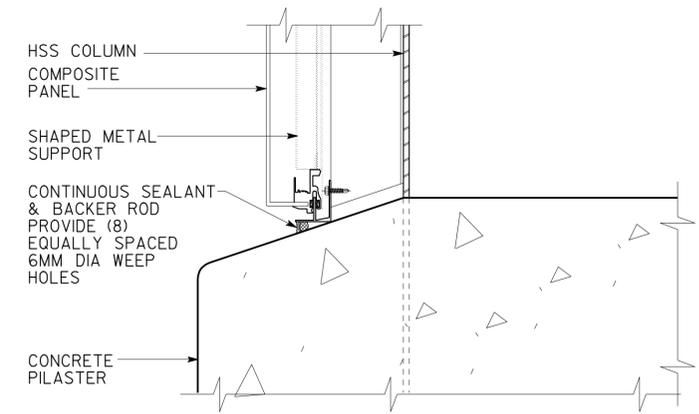
1 SOFFIT FRAMING
SCALE 1=5



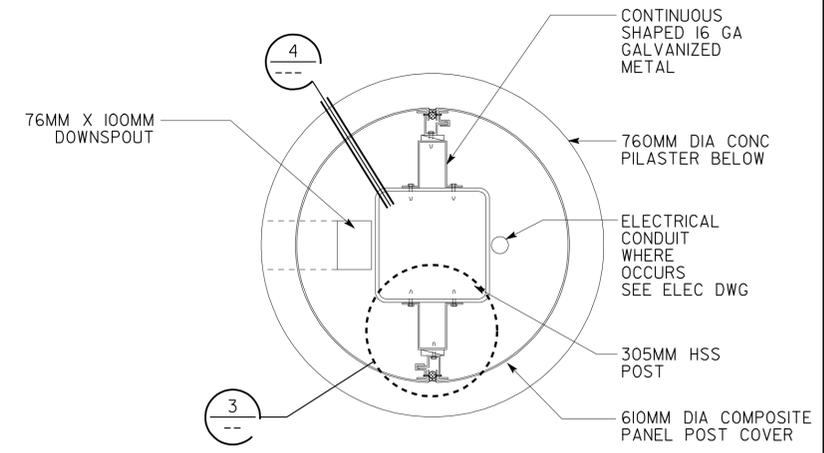
3 COLUMN COVER
SCALE 1=1



2 HSS COLUMN T AT CONCRETE PILASTER
SCALE 1=15



4 COMPOSITE PANEL AT CONCRETE PILASTER
SCALE 1=5



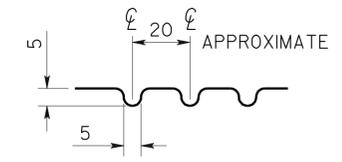
5 COLUMN COVER
SCALE 1=10

NOTE: POST COVER NOT SHOWN FOR CLARITY

a3_1_06_details.dgn DS OSD metric Rev. 11/98 27-FEB-2012 06:04	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES DETAILS	SHEET OF X XX
	DETAILS BY S. YEH CHECKED Q. WONG			PROJECT NUMBER & PHASE 3598 0400000271		
QUANTITIES BY _____ CHECKED _____		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF X XX

27-FEB-2012 06:04

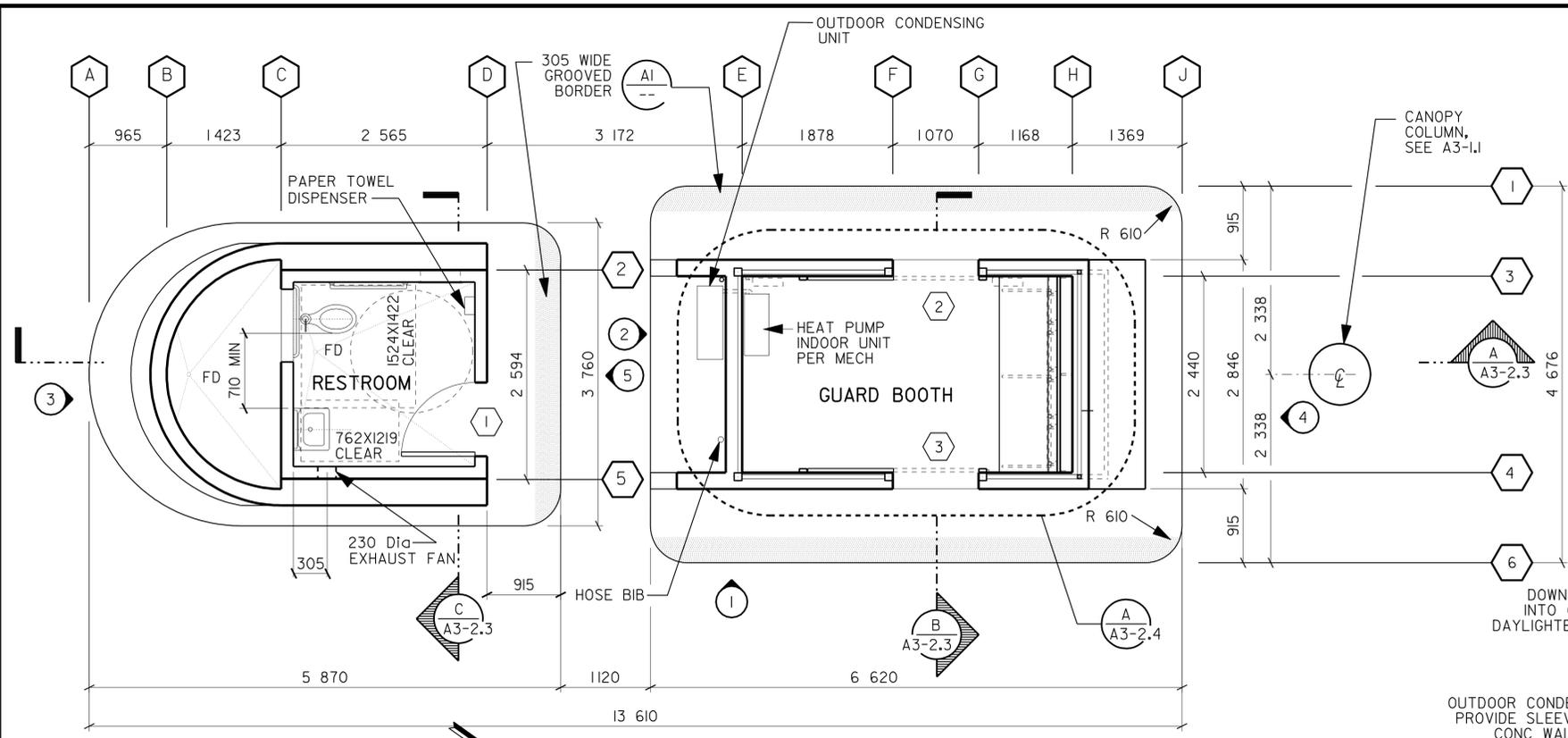
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	751	821
 LICENSED ARCHITECT No. C-18849 Exp. 5-31-13 STATE OF CALIFORNIA			5-6-11 DATE 2-21-12 PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



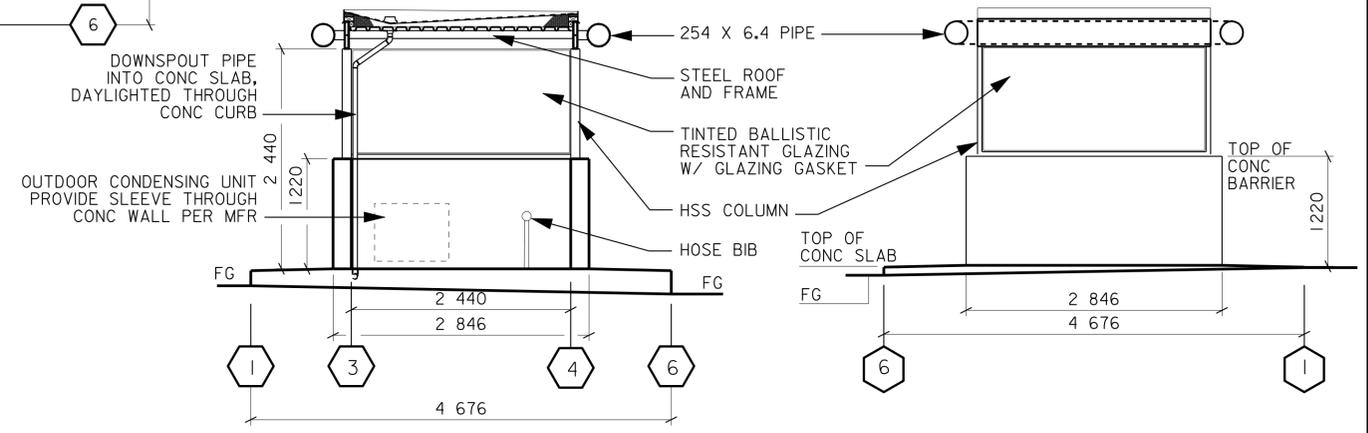
GENERAL NOTES

- FOR EXACT LOCATION AND ORIENTATION OF PERMANENT GUARD BOOTH, SEE ROADWAY PLANS.
- SEE A3-0.5 FOR BUILDING ELEVATION HEIGHTS

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID Reviewed by:  Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  FRANCIS SOLICH Approve date: 11-09-11
---	---

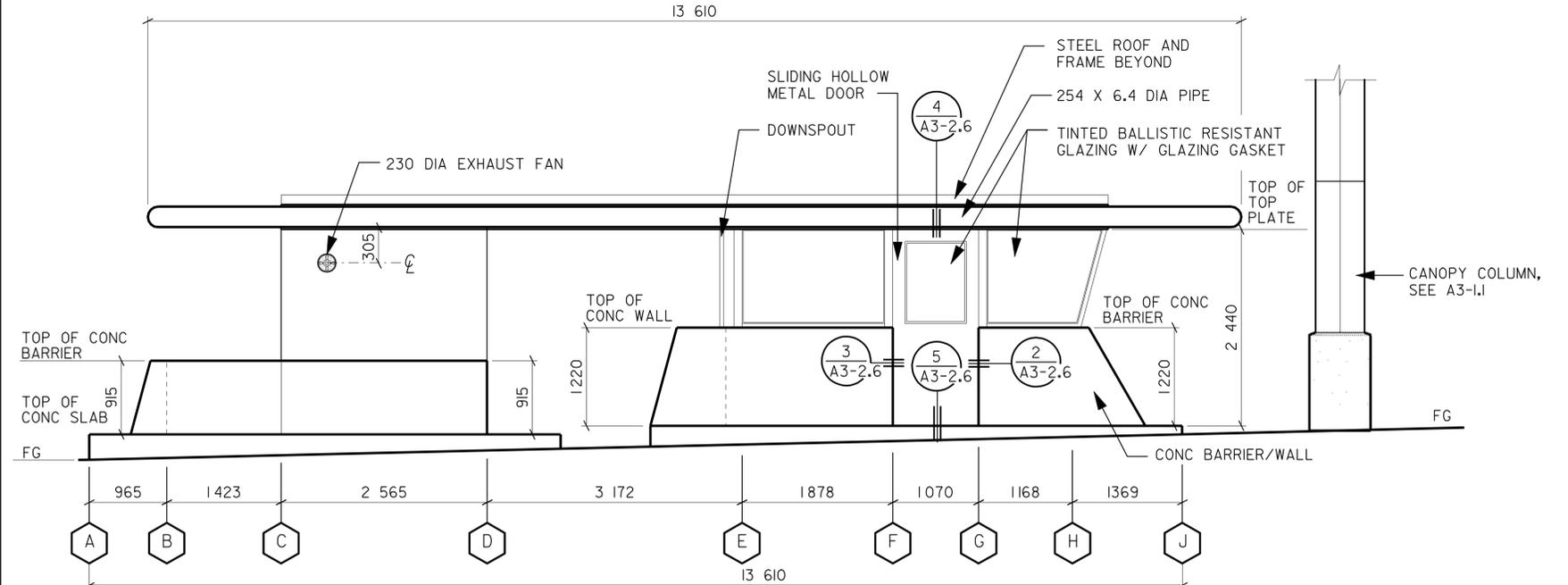


A FLOOR PLAN
SCALE 1:40

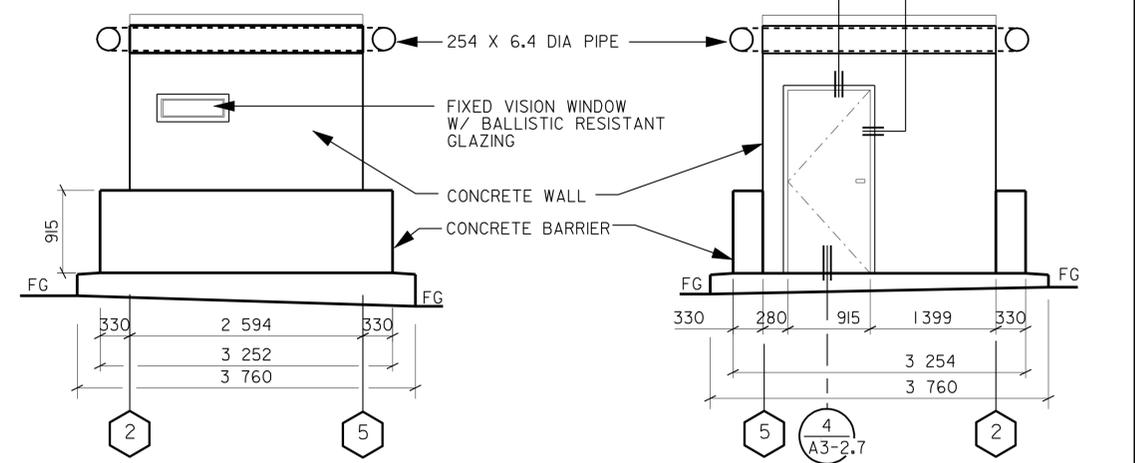


2 ELEVATION
SCALE 1:40

4 ELEVATION
SCALE 1:40



1 ELEVATION
SCALE 1:40
WEST ELEVATION SIMILAR



3 ELEVATION
SCALE 1:50

5 ELEVATION
SCALE 1:50

a3_2_01_p1n.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:37	DESIGN BY Q. WONG	CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES GUARD BOOTH	SHEET OF A3-2.1
	DETAILS BY S. YEH	CHECKED Q. WONG		PROJECT NUMBER & PHASE 3598 0400000271	KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	XX

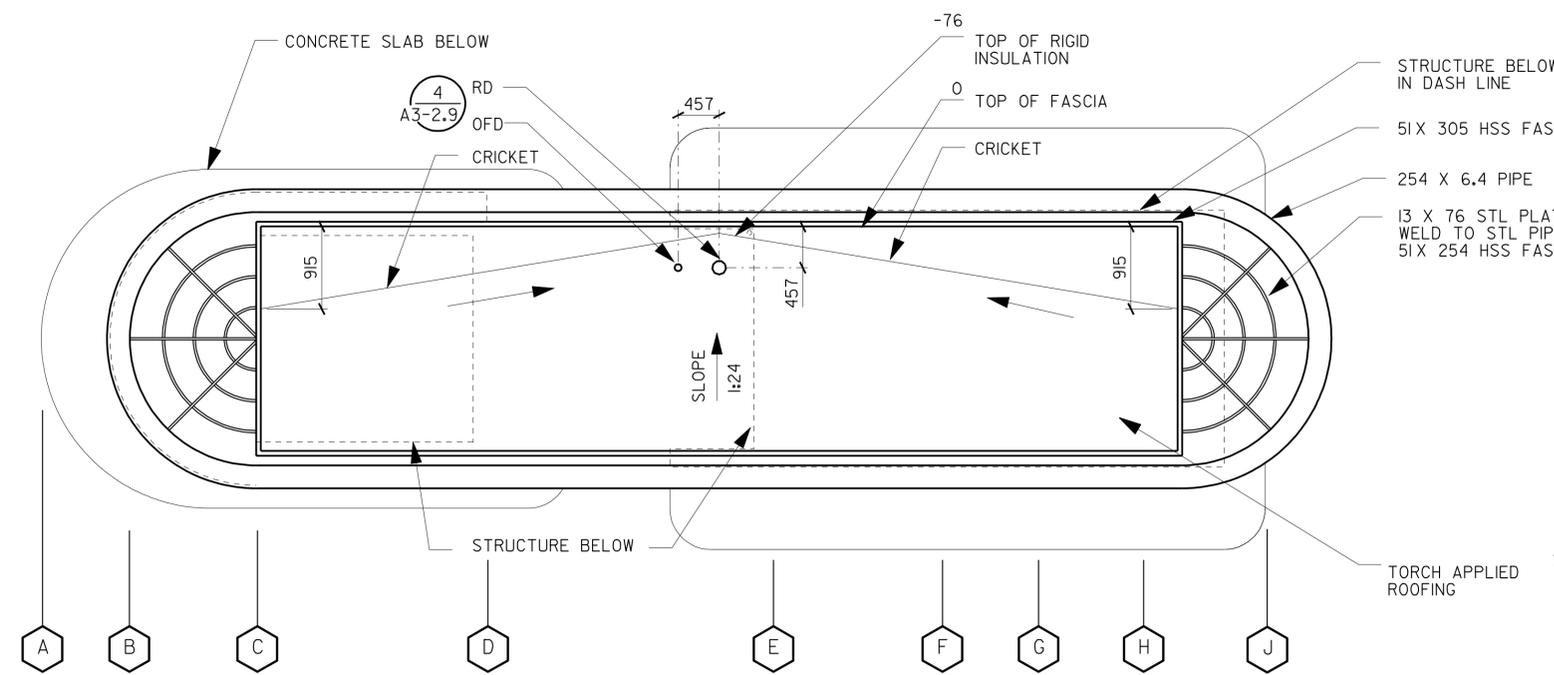
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	752	821

 LICENSED ARCHITECT No. C-18849 Exp. 5-31-13 STATE OF CALIFORNIA		5-6-11 DATE
2-21-12 PLANS APPROVAL DATE		
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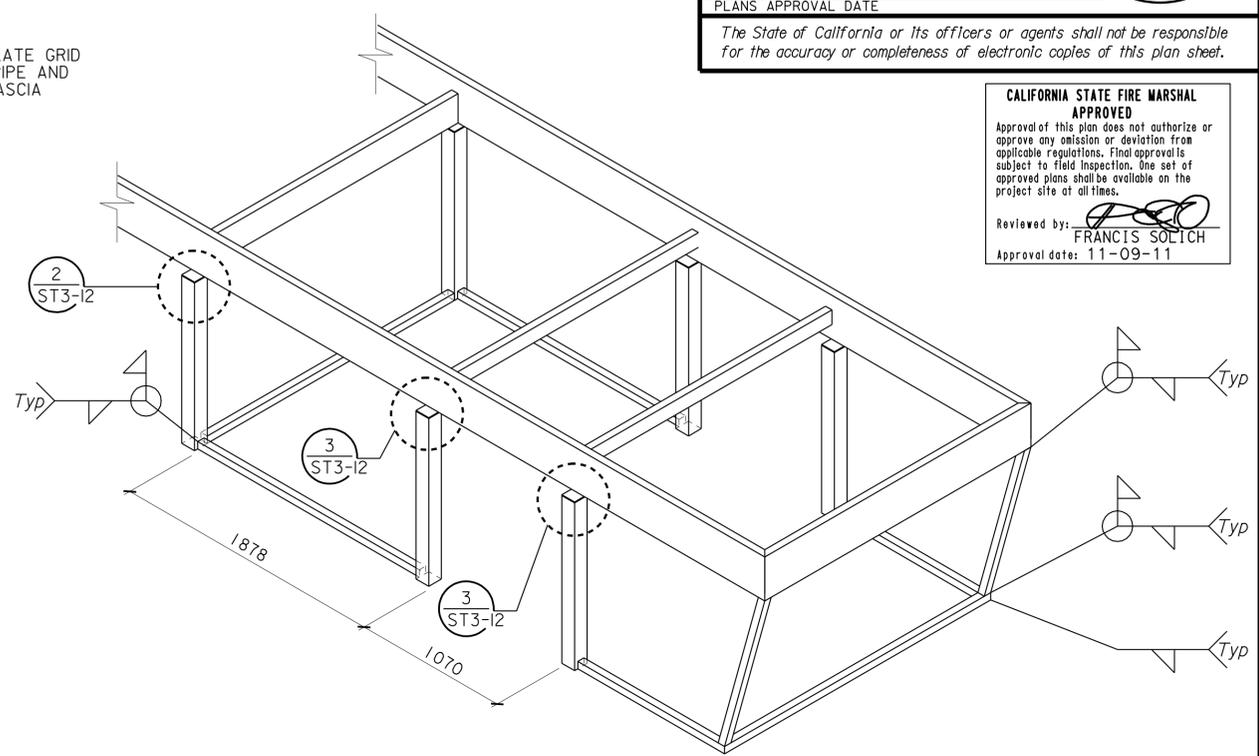


NOTES

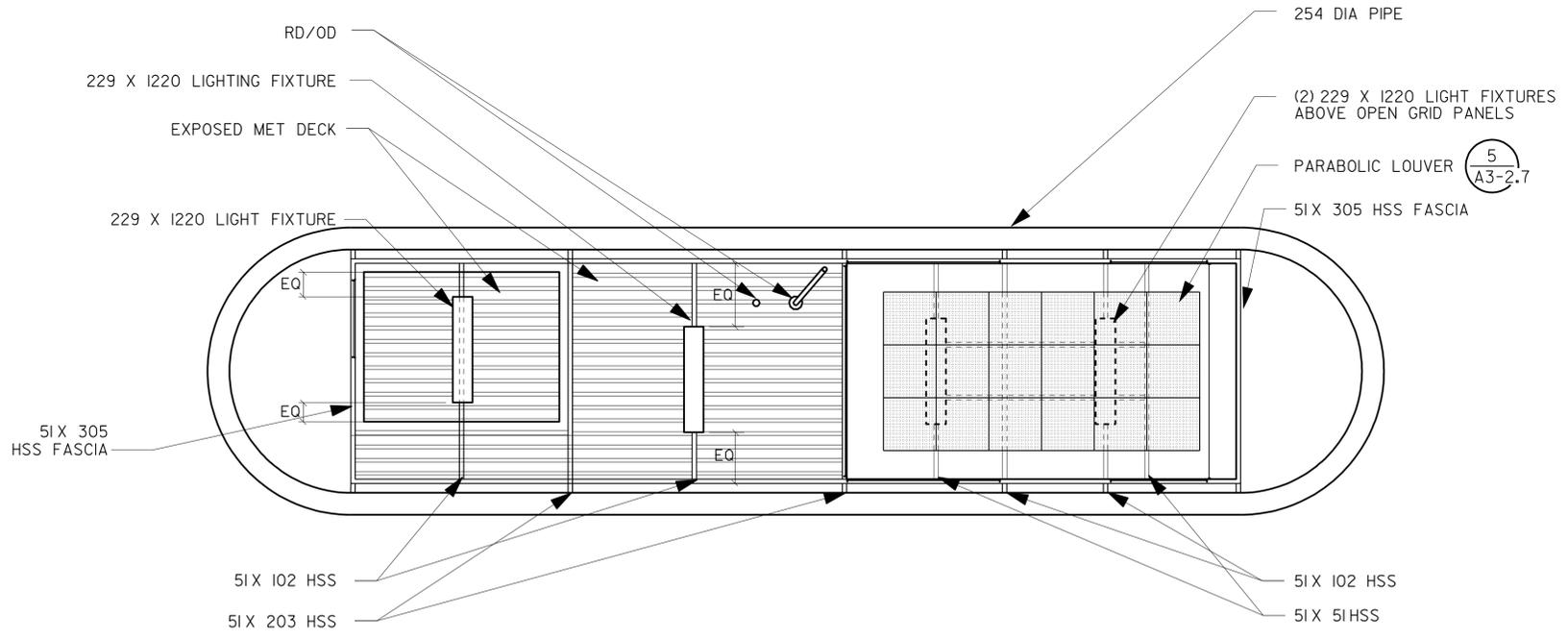
1. SEE STRUCTURE SHEETS FOR ALL HSS SIZE, CONNECTION, AND LAYOUT



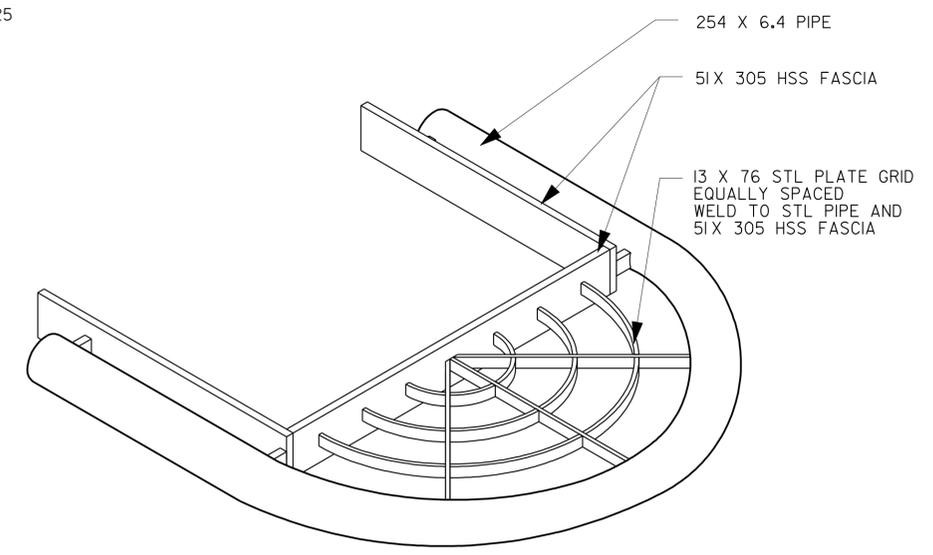
A ROOF PLAN
SCALE 1:40



C ISOMETRIC HSS AT WINDOWS
SCALE 1:25



B CEILING PLAN
SCALE 1:40



D ISOMETRIC STL GRIDS ON BOTH ENDS OF ROOF
SCALE 1:20

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Reviewed by: 
FRANCIS SOLICH
Approval date: 11-09-11

a3_2_02_roof.dgn DS OSD metric Rev. 11/98 09-MAR-2012 13:39	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES ROOF & CEILING PLANS	SHEET OF X XX
	DETAILS BY S. YEH CHECKED Q. WONG			GUARD BOOTH		
QUANTITIES BY CHECKED	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100	PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF X XX	a3_2_02_roof.dgn	

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	753	821

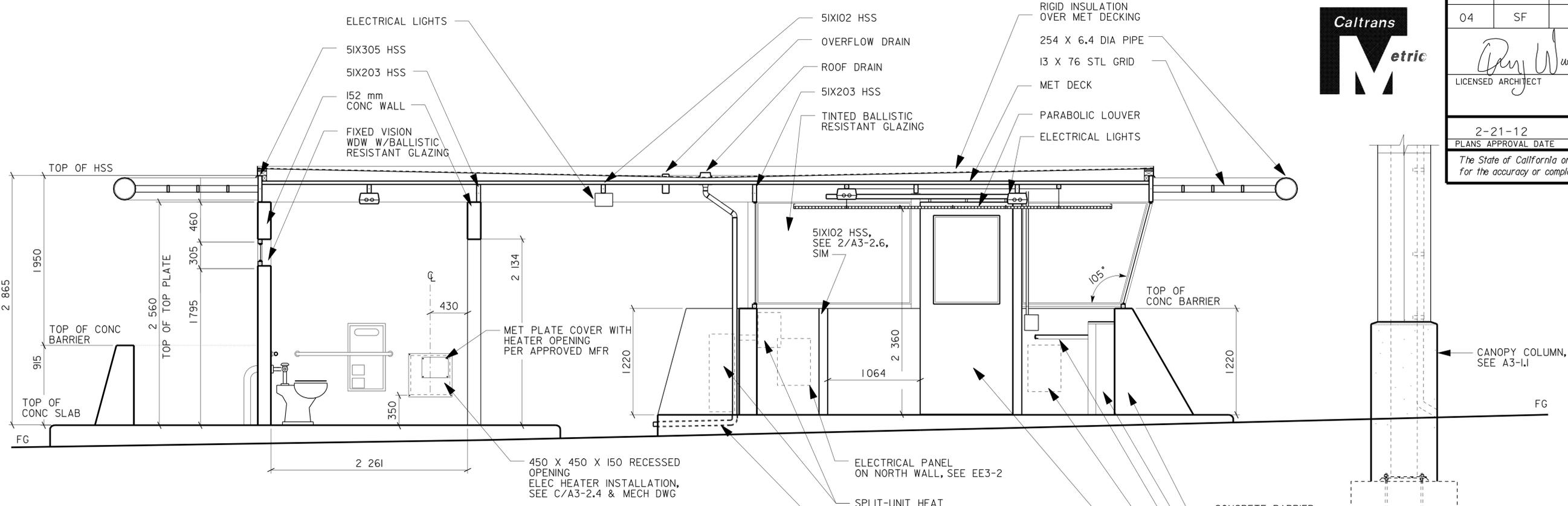
	
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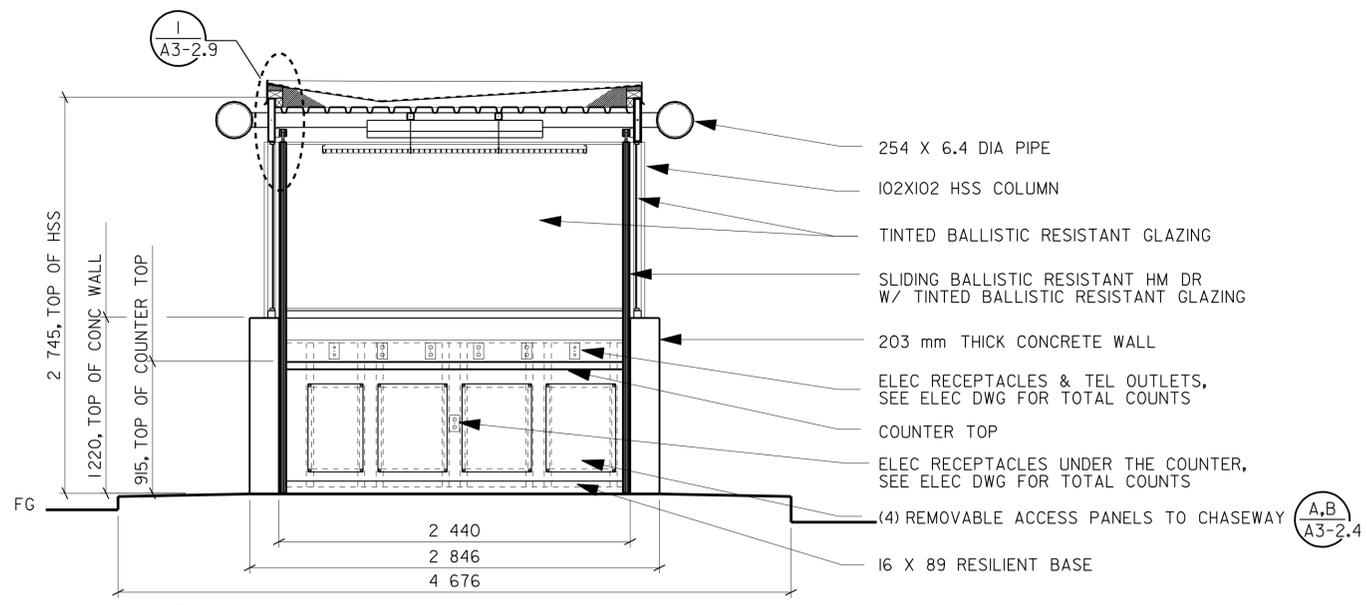
CALIFORNIA STATE FIRE MARSHAL APPROVED

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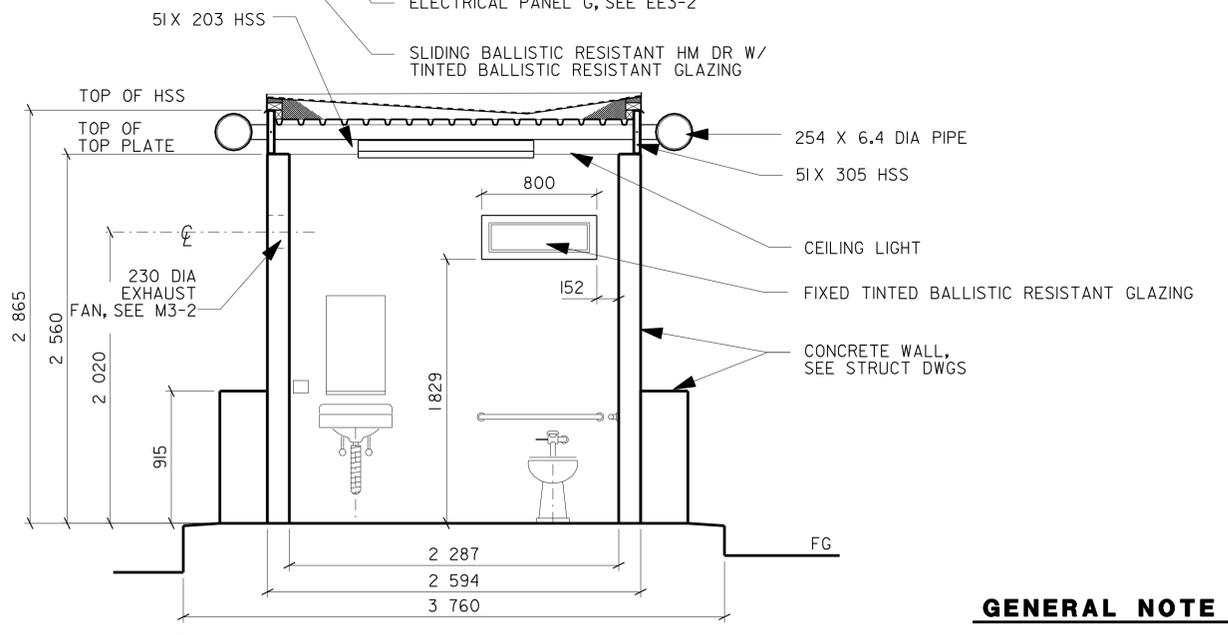
Reviewed by: 
 FRANCIS SOLICH
 Approval date: 11-09-11



A SECTION
SCALE 1:25



B SECTION
SCALE 1:25



C SECTION
SCALE 1:25

GENERAL NOTE

BALLISTIC PROTECTION EQUIVALENT TO UL 752 LEVEL III FOR GUARD BOOTH AS A MINIMUM OF EXTERIOR ENVELOPE INCLUDING WINDOWS, DOORS, WALLS, AND OTHER EQUIPMENT.

DESIGN	BY Q. WONG	CHECKED Q. WONG
DETAILS	BY S. YEH	CHECKED Q. WONG
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET
KM POST	12.8		
GUARD BOOTH		SECTIONS	A3-2.3

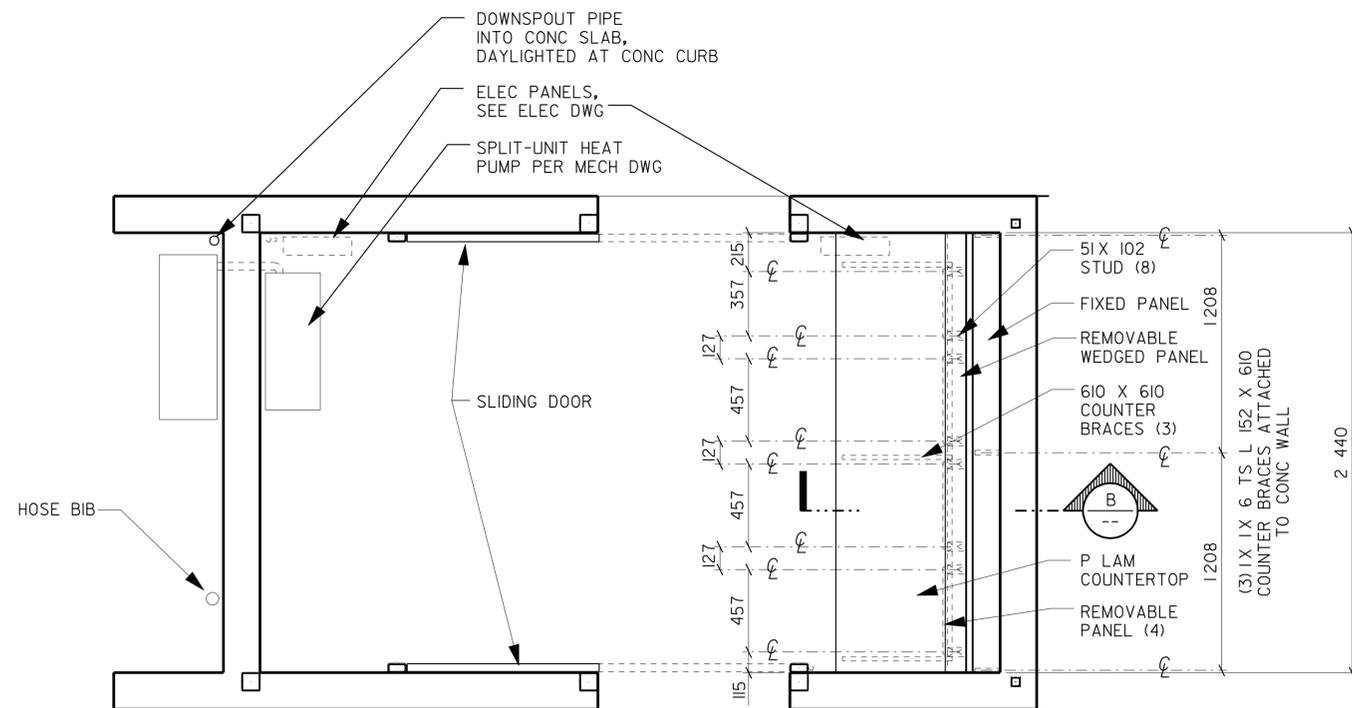


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	754	821

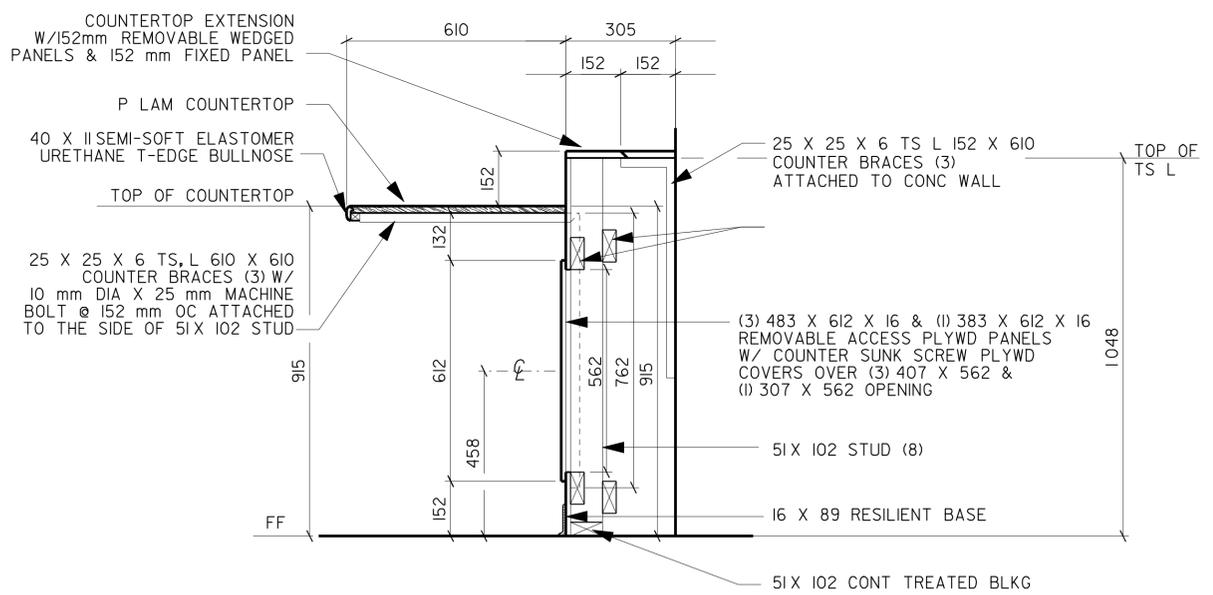
LICENSED ARCHITECT: *Quincy Wong*
 DATE: 5-6-11
 PLANS APPROVAL DATE: 2-21-12
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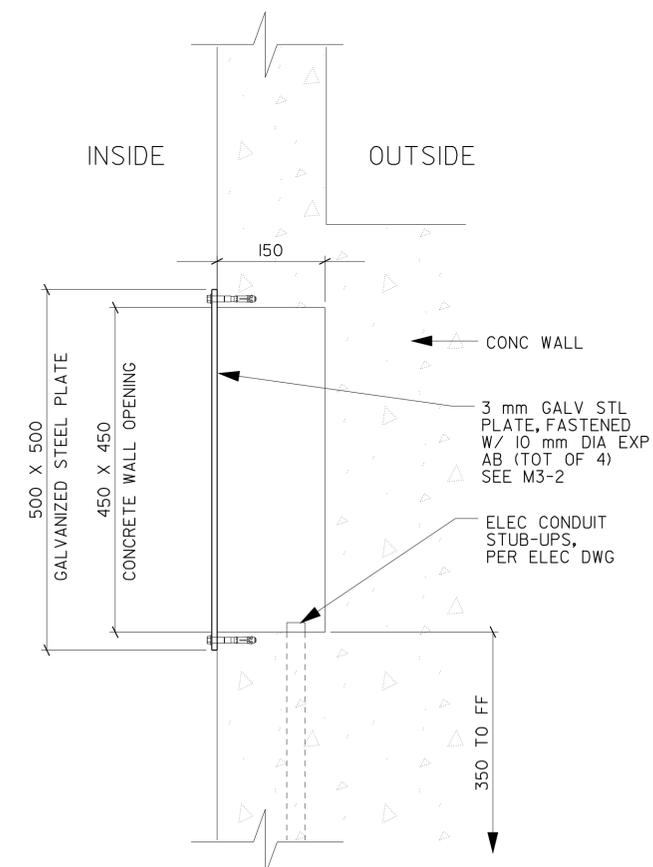
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 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-09-11



A ENLARGED FLOOR PLAN
SCALE 1:20



B SECTION
SCALE 1:10



C SECTION
SCALE 1:5
NOTE: GALV STL PLATE CUT-OUT FOR HEATER INSTALLATION PER APPROVED MFR

a3_2_04_e1f1r.dgn DS OSD metric Rev. 11/98 27-FEB-2012 10:14	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES ENLARGED FLOOR PLAN, AND SECTIONS	SHEET OF A3-2.4
	DETAILS BY S. YEH CHECKED Q. WONG		PROJECT NUMBER & PHASE 3598 0400000271	GUARD BOOTH	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 11-18-05 03-01-06 09-27-07 12-14-07 9-21-08 7-5-11 6-1-11	SHEET OF XX

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

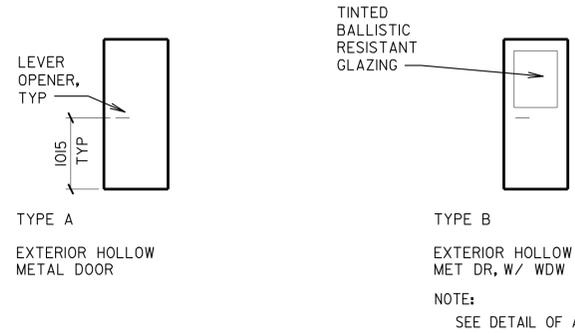


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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5-6-11 DATE
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COLOR SCHEDULE					COLOR SCHEDULE NOTES
ITEM	FINISH	MANUFACTURER	COLOR	NOTES	
EXTERIOR (GUARD BOOTH)					1. MANUFACTURER'S PRODUCTS LISTED BELOW HAVE BEEN INCLUDED AS EXAMPLES OF COLOR AND FINISH ONLY. MATCHING PRODUCTS BY OTHER MFR MAY BE SUBMITTED FOR APPROVAL. 2. SEE THE SPECIAL PROVISIONS FOR THE APPROPRIATE COATING SYSTEM FOR EACH MATERIAL TO BE COATED. 3. THE COLOR AND FINISH OF ANY MATERIAL NOT LISTED WILL BE SELECTED BY THE ENGINEER.
METAL DECKING	TORCH-APPLIED MODIFIED BITUMEN ROOFING	---	---	---	
HSS & STEEL PLATE GRID	FACTORY FINISH	TNEMEC: ENDURA-SHIELD	BLUE CHANNEL	1, 2, 4	
STEEL PIPE	FACTORY FINISH	TNEMEC: ENDURA-SHIELD	LEMON YELLOW	1, 2, 4	
METAL FLASHING	FACTORY FINISH	ICI	CADET BLUE	1, 2, 4	
GUTTERS AND DOWNSPOUTS	FACTORY FINISH	ICI	CADET BLUE	1, 2, 4	
DOOR FRAME	SEMI-GLOSS	ICI	CADET BLUE	1, 2, 4	
DOOR	SEMI-GLOSS	ICI	CADET BLUE	1, 2, 4	
CONCRETE WALL	WATERPROOFING CEMENT-BASE COATING	THOROSEAL	---	---	
CONCRETE WALL	SEMI-GLOSS	ICI	CADET BLUE	1, 2, 4	
CONCRETE FLOOR	MEDIUM BROOM TEXTURE	---	CONC HARDENER & SEALER	---	
EXTERIOR (CANOPY)					
COMPOSITE PANEL: PARAPET WALL, POST COVER, SOFFIT	FACTORY FINISH - PVDF 3-COAT SYSTEM	ALUCOBOND	STEEL CITY SILVER MICA	1, 2, 4	
METAL DECKING	TORCH-APPLIED MODIFIED BITUMEN ROOFING	---	---	---	
CONCRETE PILASTER	SEMI-GLOSS	ICI	SAFETY YELLOW	1, 2, 4	
DOWNSPOUT AND STRAPS	SEMI-GLOSS	---	PREFINISHED BY MANUFACTURER	2	
ACCESS DOOR	FACTORY FINISH	ICI	SILK STOCKINGS	1, 2, 4	
INTERIOR (GUARD BOOTH)					
HSS	FACTORY FINISH	TNEMEC	BLUE CHANNEL	1, 2, 4	
RESILIENT BASE	RUBBER	BURKE	TAHOE, #506	1, 4	
PLYWOOD ACCESSIBLE CHASEWAY AND REMOVABLE PANELS	---	ICI	BLAZER BLUE	1, 2, 4	
PARABOLIC LOUVER 51mm X 51mm	DURABOLIC, POLYSTYRENE	ALP LIGHTING COMPONENTS	SILVER (DSPS)	1, 4	
15 mm SUPRAFINE XL EXPOSED TEE SYSTEM	BAKED POLYESTER PAINT	ARMSTRONG	SILVER SATIN	1, 4	
COUNTER TOP & BACKSPLASH	P LAM: MATTE FINISH	FORMICA	MARINE BLUE, #914	1, 4	
CONCRETE FLOOR	AGGREGATE-FILLED POLYAMINE EPOXY FLOOR TOPPING	TNEMEC STRATASHIELD	GRAY	1, 2, 4	
CONCRETE WALL	WATERPROOFING CEMENT-BASE COATING	THOROSEAL	---	1, 2	
CONCRETE WALL	SEMI-GLOSS	ICI	CADET BLUE	1, 2, 4	
TOILET ROOM ACCESSORIES	FACTORY FINISH	---	STAINLESS STEEL	1, 4	

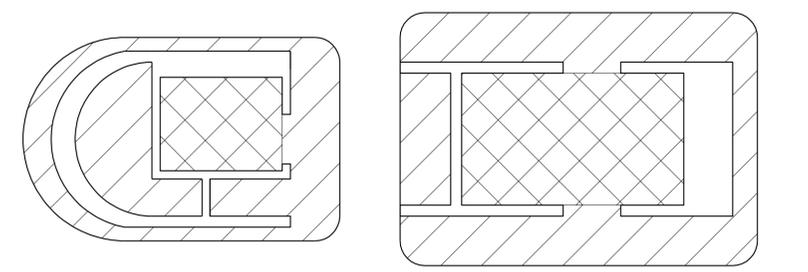


- DOOR NOTES**
- CONTRACTOR TO VERIFY DIMENSION FOR SIZING DOOR FRAMES PRIOR TO ORDERING
 - LOCATE SIGNS AS SHOWN ON A0-3.3
 - WEATHERSTRIPPING TO BE INSTALLED PER ENERGY CODES

DOOR TYPES AND NOTES

NOT TO SCALE

DOOR SCHEDULE																
OPNG NO	DOOR TYPE	NOMINAL OPENING SIZE		DOOR		HDWR GROUP	LABEL ASSY	LOUVER	GLAZING	FRAME		DETAILS			SIGN TITLE	REMARKS (SEE NOTE #)
		WIDTH	HEIGHT	MAT	FIN					MAT	FIN	HEAD	JAMB	THLD/SILL		
1	A	915	2135	METAL	PAINT	I	---	---	---	PMF	PAINT	2/A3-2.7	3/A3-2.7	4/A3-2.7	4A, 5/A0-3.3	1, 2, 3, 4
2	B	1090	2440	METAL	PAINT	--	---	---	BALLISTIC RESISTANT	PMF	PAINT	4/A3-2.6	2,3/A3-2.6	5,6/A3-2.6	---	1, 3, 4
3	B	1090	2440	METAL	PAINT	--	---	---	BALLISTIC RESISTANT	PMF	PAINT	4/A3-2.6	2,3/A3-2.6	5,6/A3-2.6	---	1, 3, 4



FLOOR FINISH DIAGRAM
NOT IN SCALE

- EPOXY FLOOR TOPPING
- MEDIUM BROOM TEXTURE WITH CONC HARDENER AND SEALER

a3_2_05_sch.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:37	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES SCHEDULES	SHEET OF A3-2.5
	DESIGN BY Q. WONG CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED	UNIT PROJECT NUMBER & PHASE 3598 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 11-14-05 03-01-06 09-27-07 12-14-07 9-21-08 7-5-11 6-1-11	SHEET OF XX			

25-FEB-2012 10:37

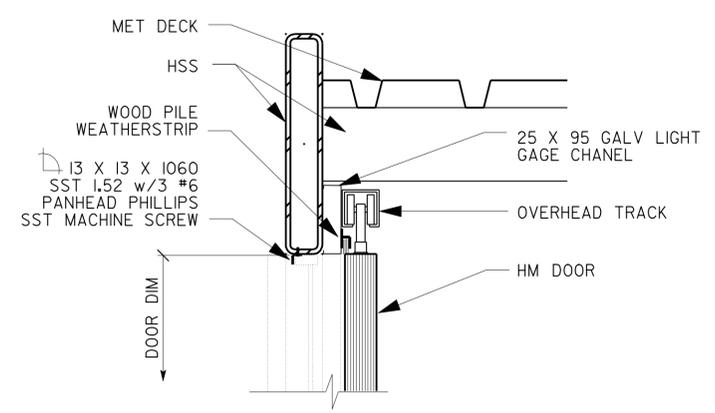
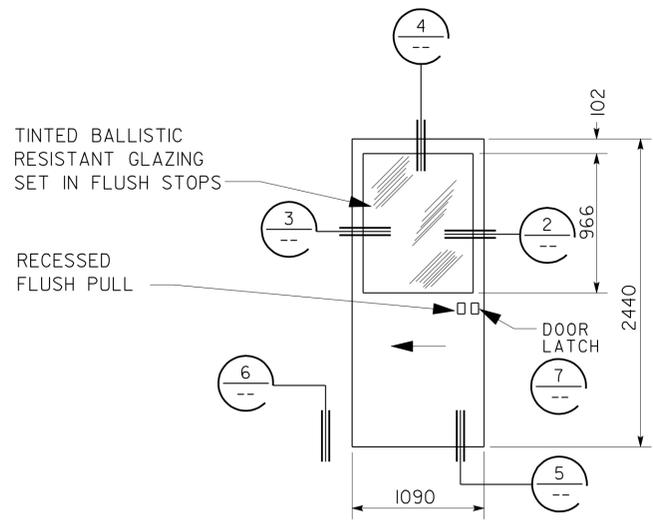


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	756	821

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-09-11

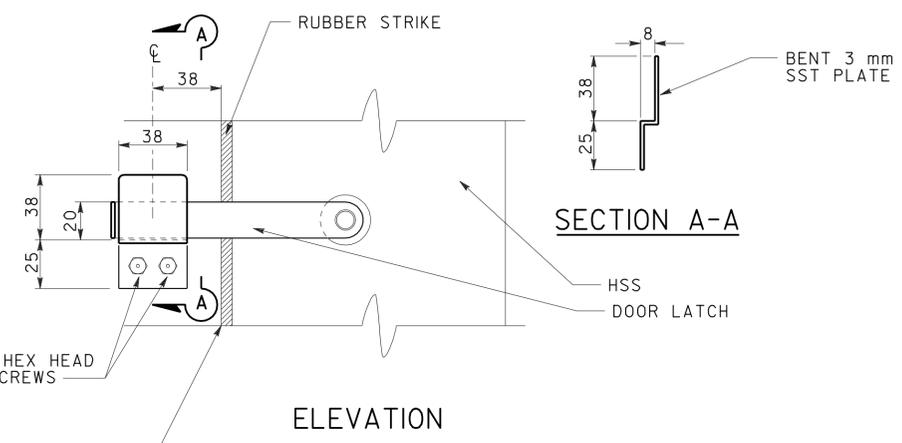
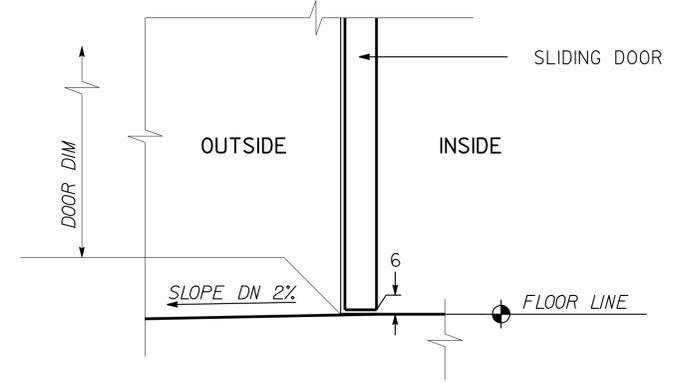


1 HOLLOW METAL SLIDING DOOR

NOT TO SCALE
 NOTE:
 FOR DOOR TYPE B, SEE DOOR SCHEDULE

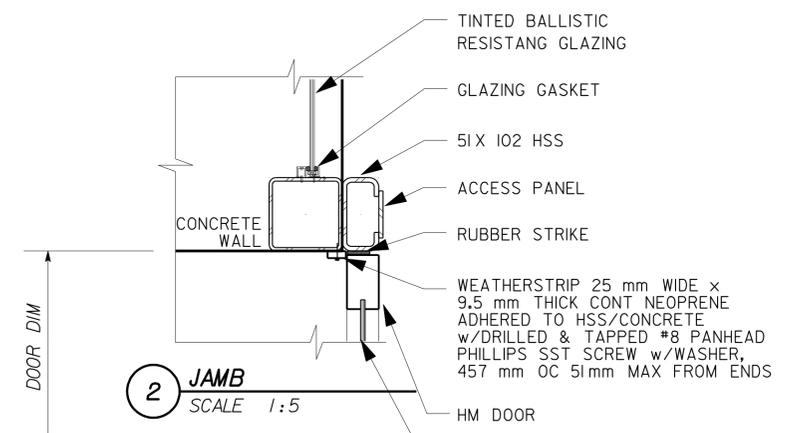
4 HEAD

SCALE 1:5



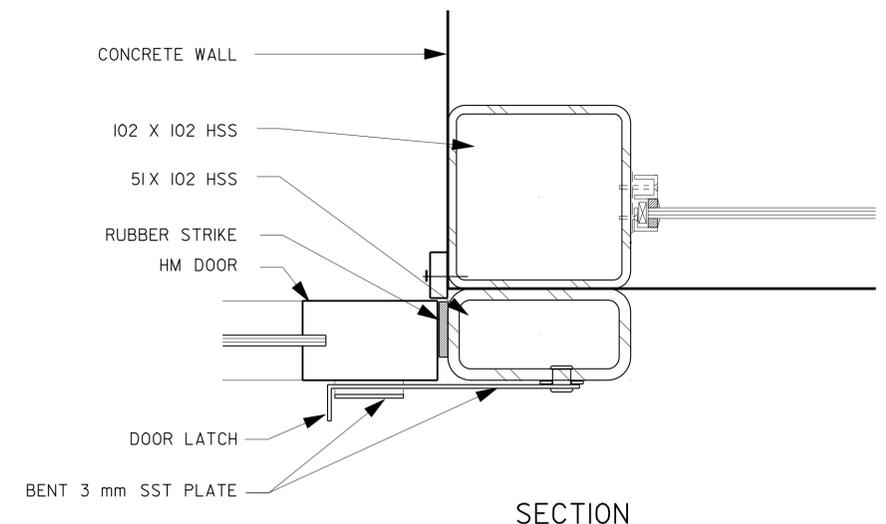
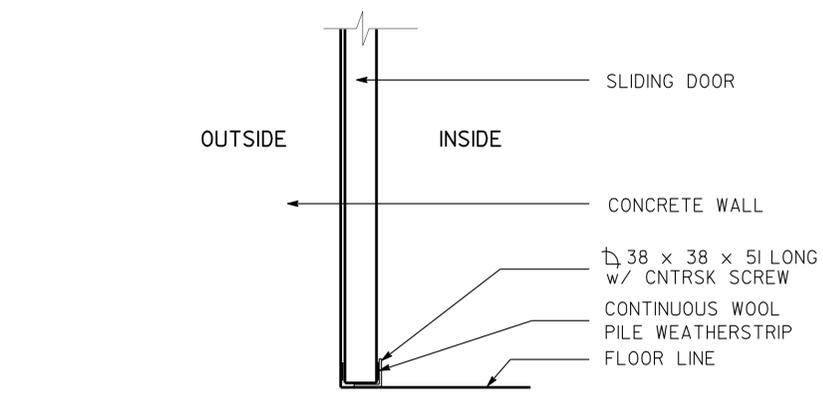
2 JAMB

SCALE 1:5



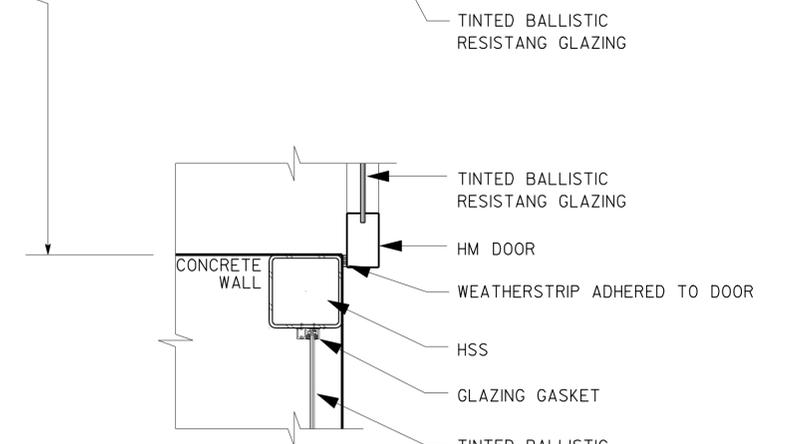
5 SILL

SCALE 1:5



3 JAMB

SCALE 1:5



6 SILL

SCALE 1:5

7 DOOR LATCH AT SLIDING DOOR

SCALE 1:2

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	DETAILS BY S. YEH CHECKED Q. WONG			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF XX	25-FEB-2012 10:37

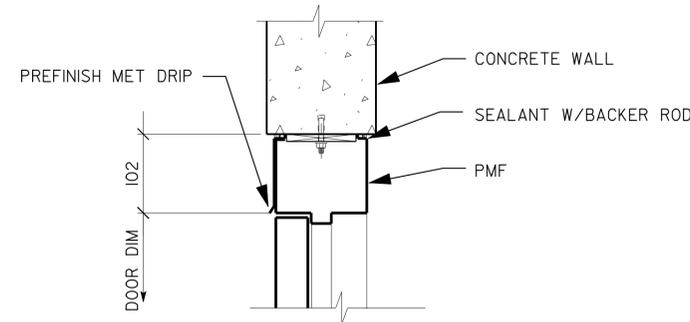


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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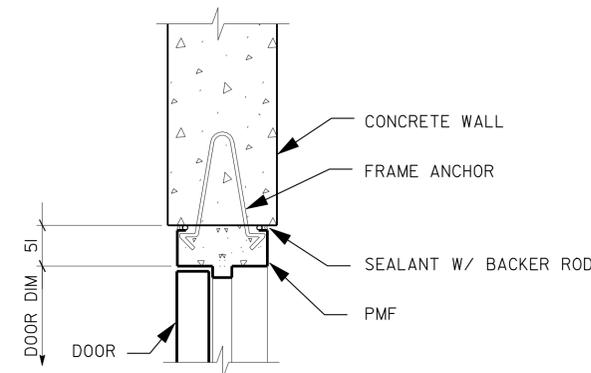
Licensed Architect: *Quincy Wong*
 DATE: 5-6-11
 PLANS APPROVAL DATE: 2-21-12
 LICENSED ARCHITECT: QUINCY J. WONG
 No. C-18849
 Exp. 5-31-13
 STATE OF CALIFORNIA

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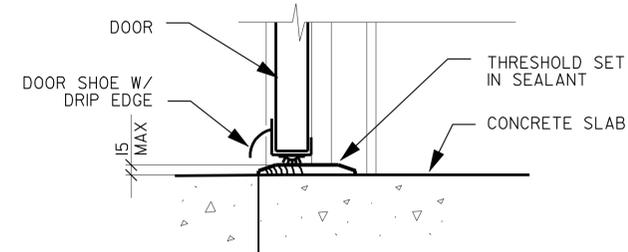
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *Francis Solich*
 FRANCIS SOLICH
 Approval date: 11-09-11



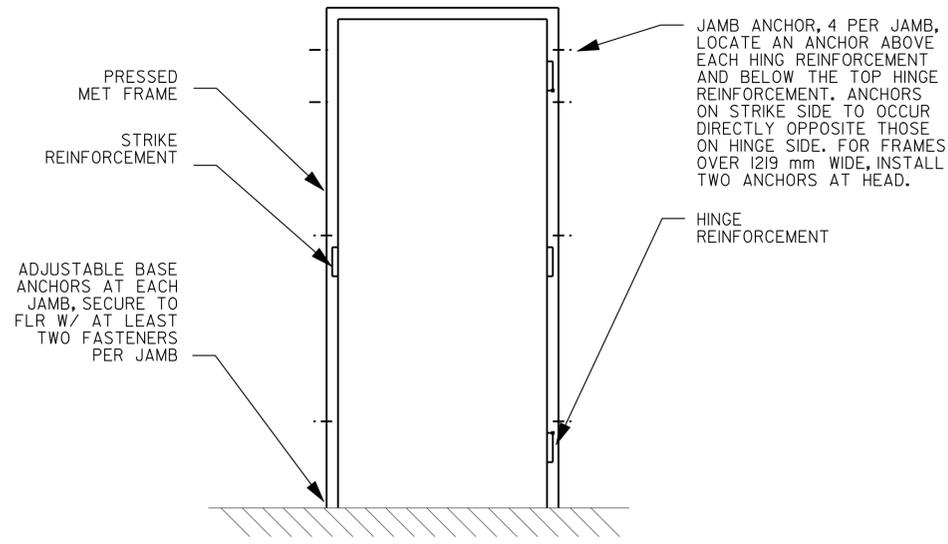
2 EXT DOOR HEAD
 SCALE 1:5



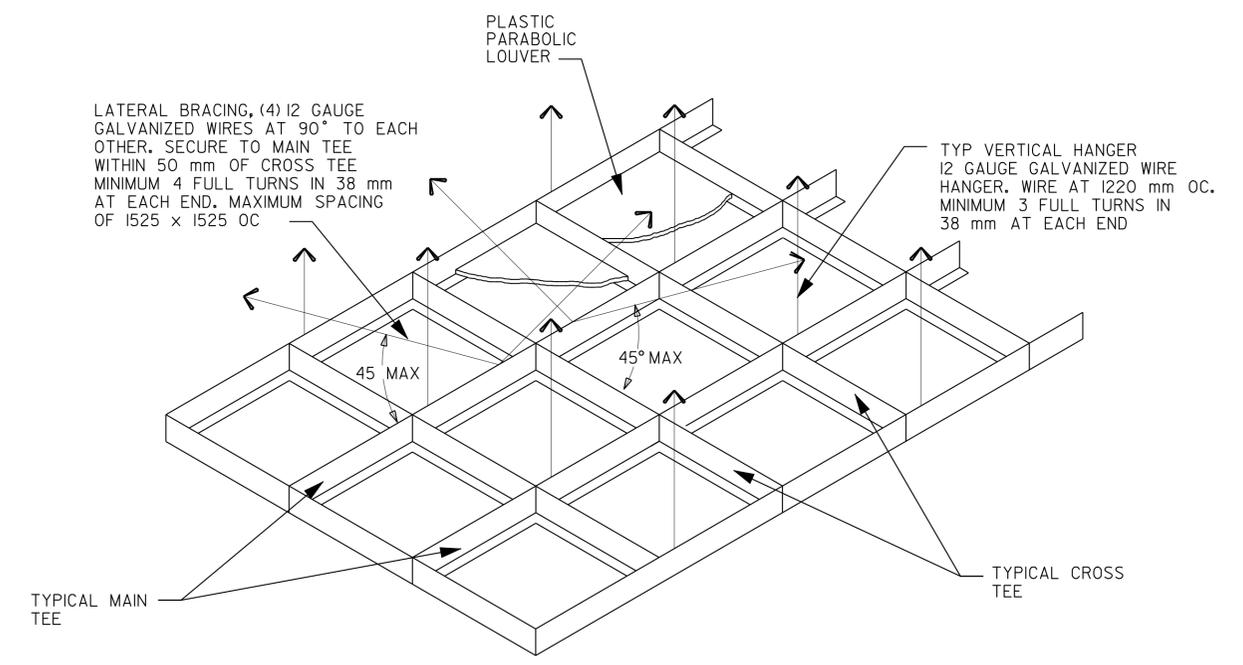
3 EXT DOOR JAMB
 SCALE 1:5



4 EXT DOOR THRESHOLD
 SCALE 1:5



1 FRAME ANCHORS
 SCALE 1:5



5 SUSPENDED CEILING BRACING ISOMETRIC
 NO SCALE

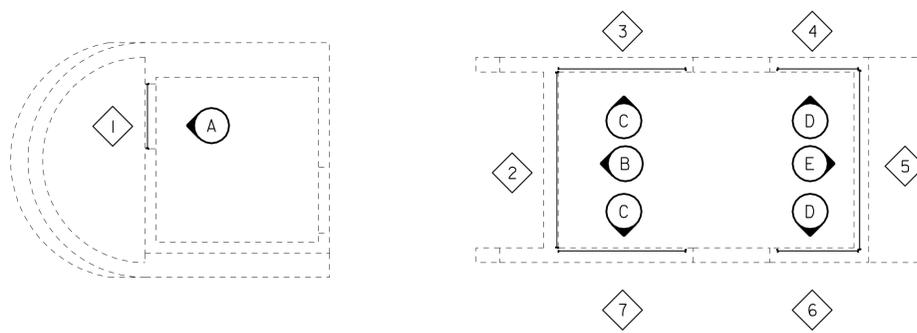
DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET					
			KM POST 12.8	GUARD BOOTH	DOOR AND CEILING DETAILS	A3-2.7					
DETAILS BY S. YEH CHECKED Q. WONG	UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF					
QUANTITIES BY CHECKED			07-11-05	08-15-05	11-14-05	03-01-06	09-27-07	12-14-07	9-21-08	7-5-11	6-1-11

25-FEB-2012 10:37



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	758	821

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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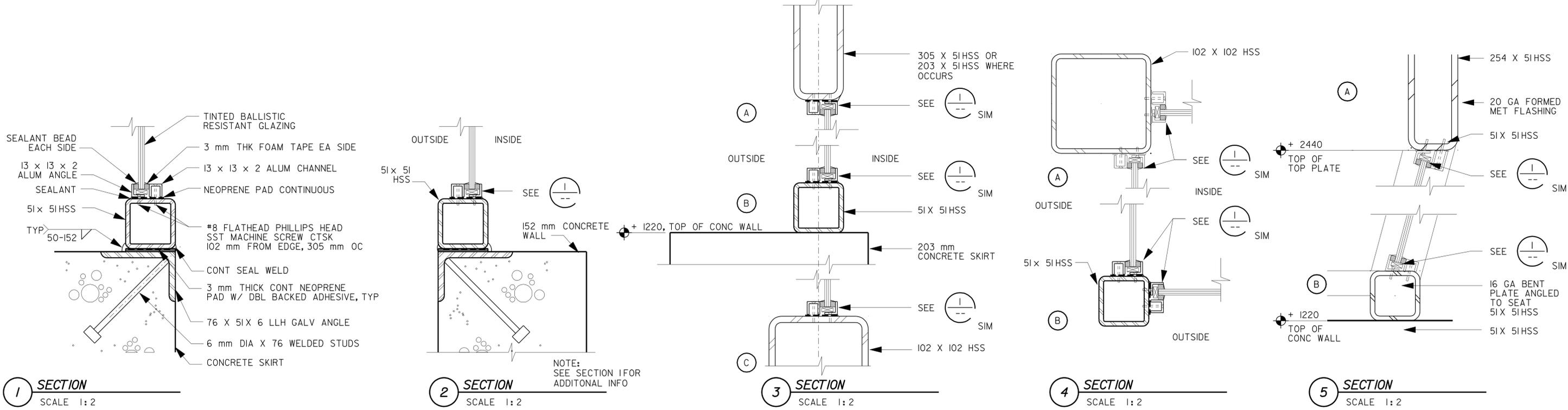
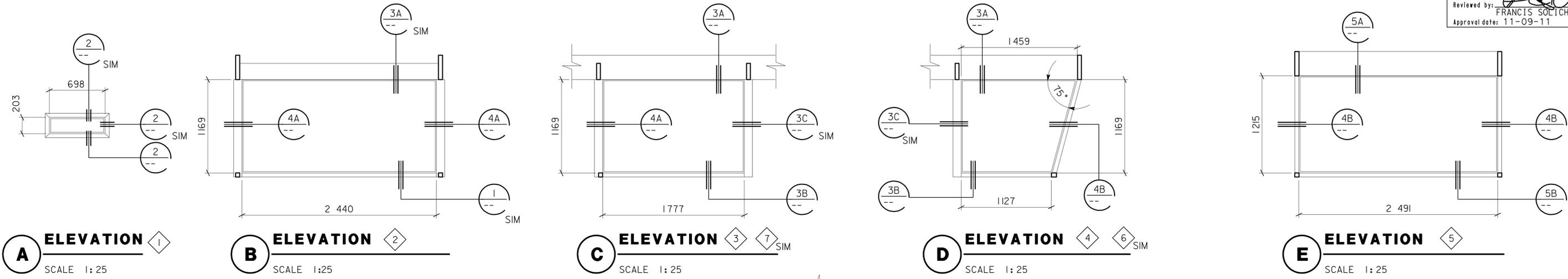


WINDOWS PLAN ALL GLAZING SHALL BE TINTED BALLISTIC RESISTANT

SCALE 1:50

GENERAL NOTE
 I. CONTRACTOR TO VERIFY DIMENSION FOR SIZING WINDOW FRAME AND GLAZING PRIOR TO ORDERING.

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 Reviewed by: FRANCIS SOLICH
 Approval date: 11-09-11

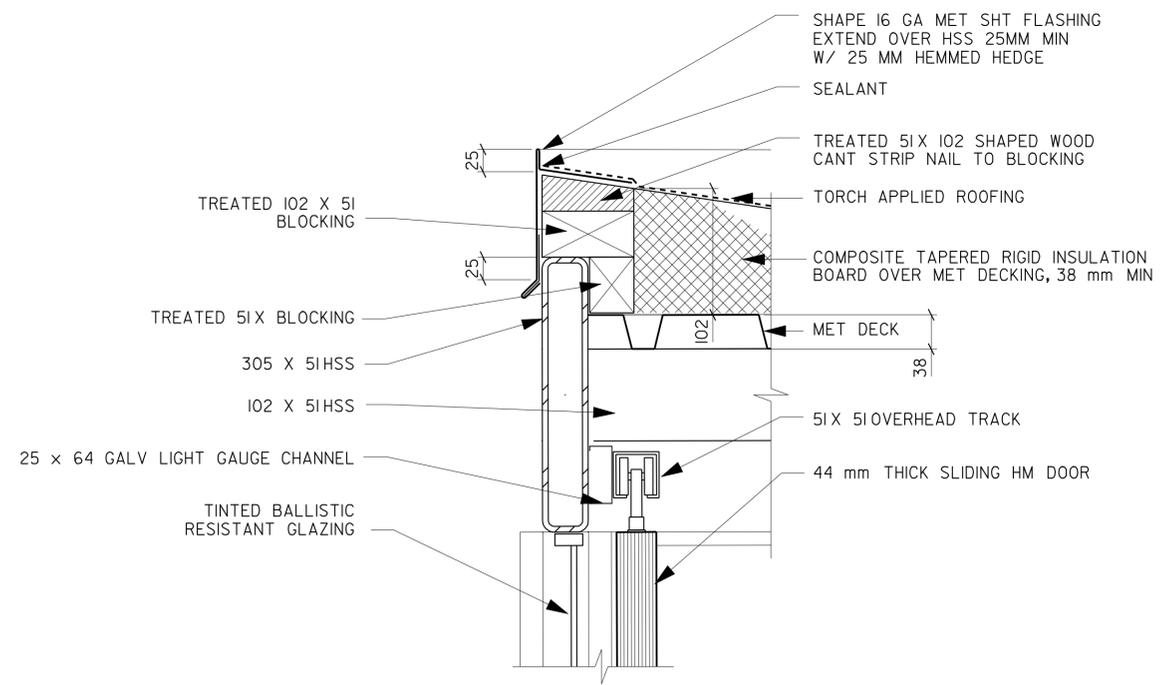


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	DETAILS BY S. YEH	CHECKED Q. WONG		PROJECT NUMBER & PHASE 3598 0400000271	KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF XX

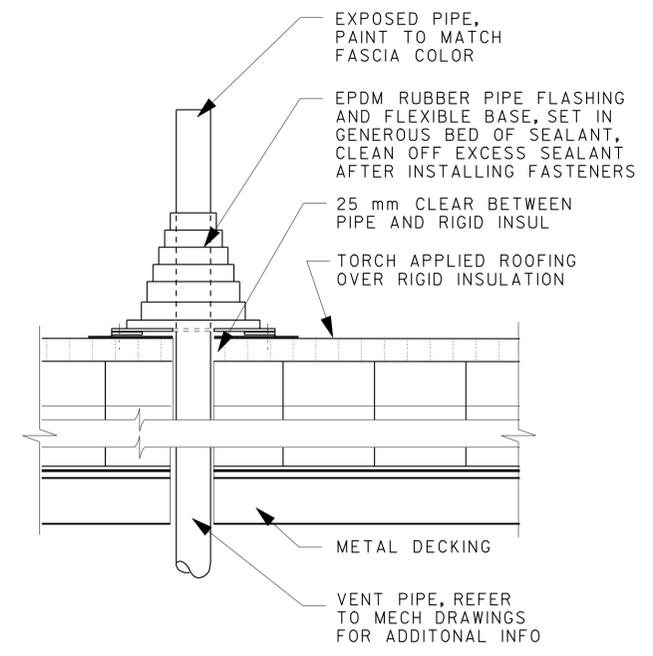
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	759	821

 5-6-11 DATE		
2-21-12 PLANS APPROVAL DATE		

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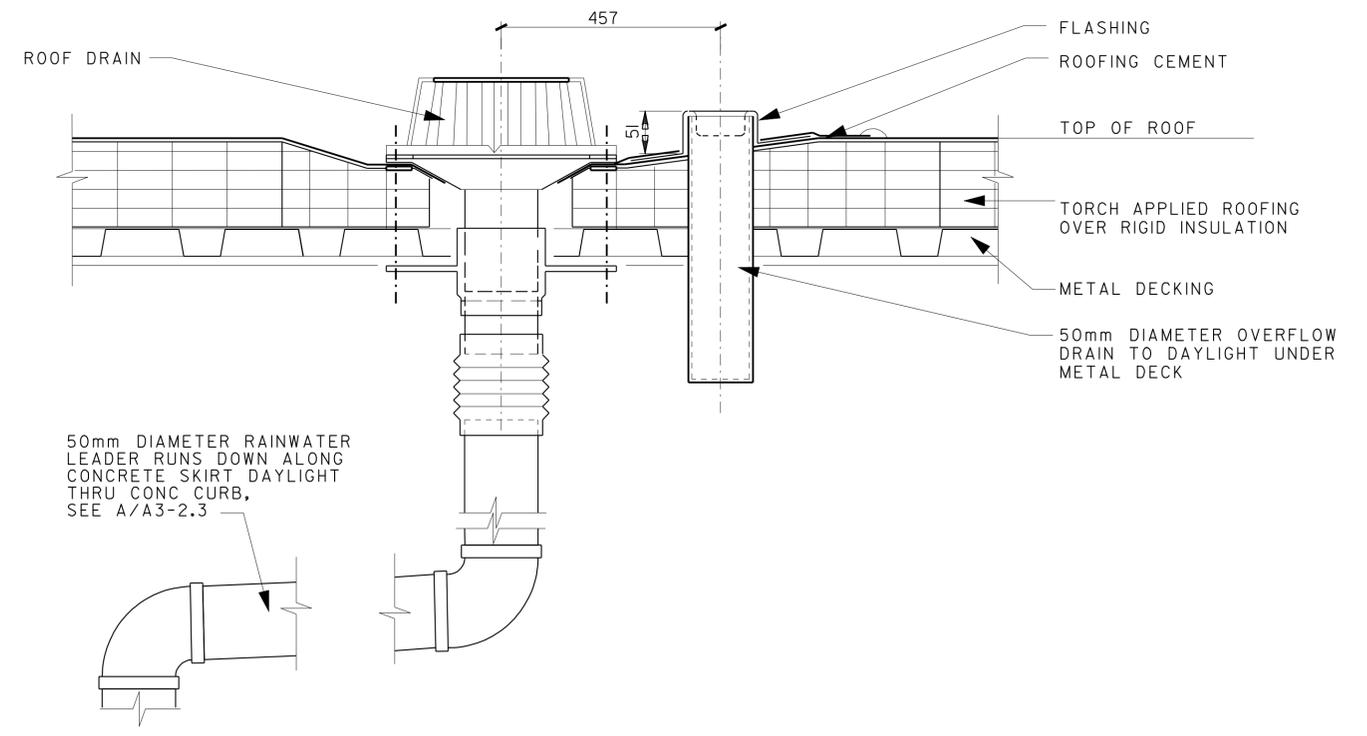


1 **DETAIL**
SCALE 1:4



3 **PIPE PENETRATION**
NOT TO SCALE

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 FRANCIS SOLICH
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4 **ROOF DRAIN AND OVERFLOW DETAIL**
NOT IN SCALE

a3_2_09_dfls1.dgn DS OSD metric Rev. 11/98 09-MAR-2012 13:39	DESIGN BY Q. WONG CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES GUARD BOOTH	SHEET OF A3-2.9
	DETAILS BY S. YEH CHECKED Q. WONG		QUANTITIES BY CHECKED	PROJECT NUMBER & PHASE 3598 0400000271	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 11-14-05 03-01-06 09-27-07 12-14-07 9-21-08 7-5-11 6-1-11	DISREGARD PRINTS BEARING EARLIER REVISION DATES

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

09-MAR-2012 13:39



FINISH NOTES

1. MANUFACTURERS DESIGNATIONS ARE USED TO INDICATE PATTERN AND COLOR AND ARE NOT INTENDED TO SHOW A PREFERENCE FOR A PARTICULAR BRAND. ALL PRODUCTS MAY BE SUBMITTED FOR APPROVAL IF EQUAL IN COLOR AND TEXTURE.
2. ALL STRUCTURAL STEEL, STEEL COMPONENTS, STEEL SUPPORT TO BE APPLIED WITH TNEPEC COATING SYSTEM FOR EXTERIOR STEEL UNDER SEVER EXPOSURE (AGGRESIVE CORROSION, COASTAL OR UV EXPOSURE, PHYSICAL ABUSE) INCLUDING PRIMER AND FINISH COATING.
3. PREFINISHED BY MANUFACTURER
4. CONCRETE TO BE COATED WITH CONCRETE HARDENER WITH OIL AND GREASE SEALER
5. COLOR NO. ——— WHITE

MATERIAL	COLOR NUMBER	FINISH NOTES
CONCRETE CURB, LANDINGS, AND STEPS	-	4
HANDRAILING		3
PIPE POST		3

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	760	821

LICENSED ARCHITECT

5-6-11
 DATE

2-21-12
PLANS APPROVAL DATE

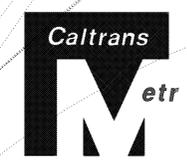
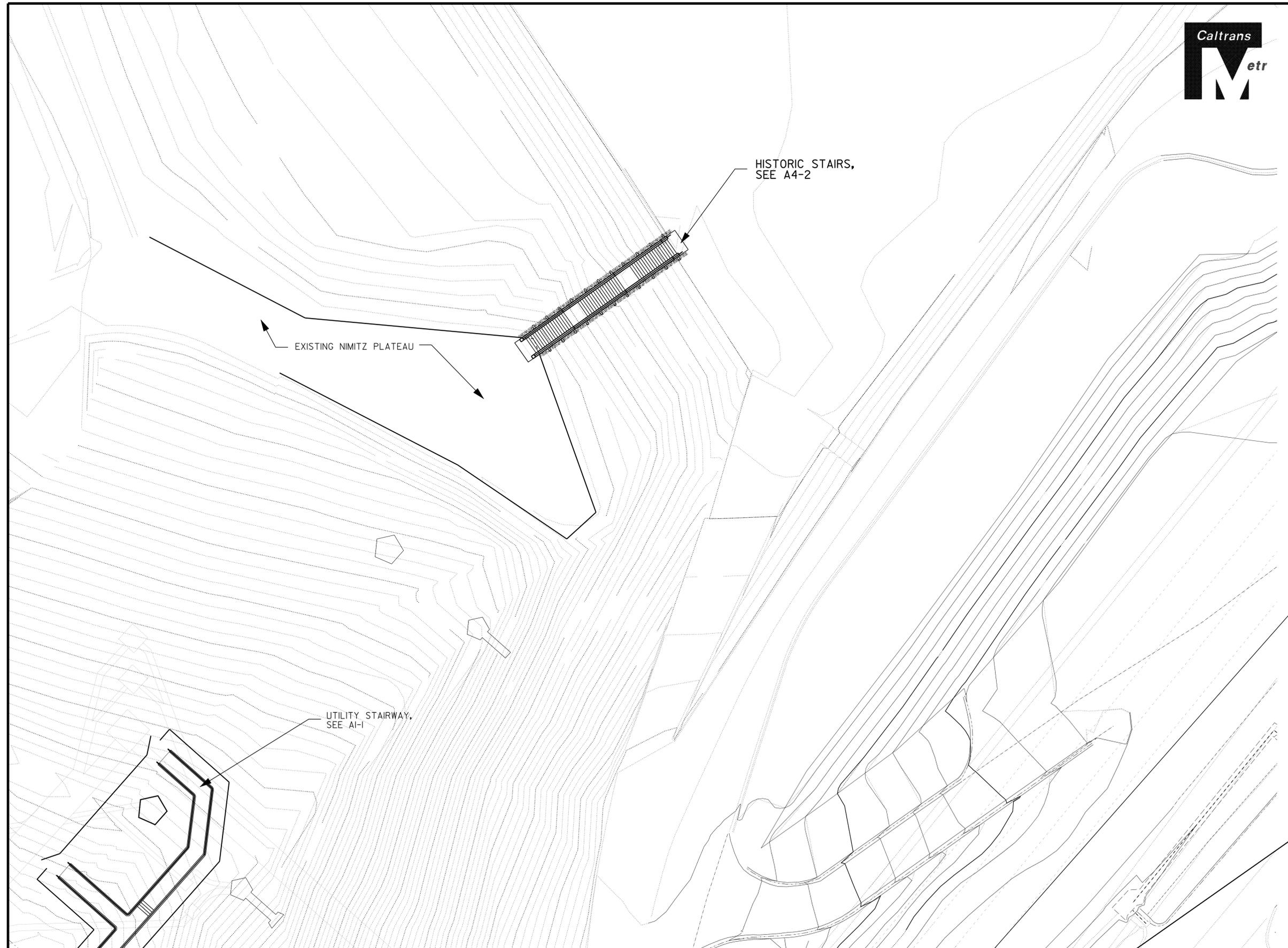
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <div style="border: 1px solid black; padding: 2px; text-align: center; font-weight: bold;">040000027</div> PROJECT ID * EXEMPT Reviewed by: Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 11-09-11
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* EXEMPTION DOCUMENT ON FILE

DESIGN BY D. IGNACIO CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES FINISH SCHEDULES	SHEET A4-0.1	
a4_0_1_index.dgn DS OSD metric Rev. 11/98 27-FEB-2012 10:18	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-05 07-06-05 07-06-05 07-21-07 12-14-07 09-17-08 1-5-11	SHEET OF XX

27-FEB-2012 10:18



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	761	821

5-6-11 DATE
 2-21-12 PLANS APPROVAL DATE
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 Approval date: 11-09-11

GENERAL NOTE
 SEE ROADWAY PLANS FOR LOCATION OF HISTORIC STAIRS PLACEMENT.

PARTIAL SITE PLAN
 SCALE 1:200



DESIGN BY D. IGNACIO CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 34-004 KM POST 12.8		YERBA BUENA ISLAND TRANSITION STRUCTURES PARTIAL SITE PLAN		SHEET OF A4-1	
a4_1_site.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:37		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	

25-FEB-2012 10:37

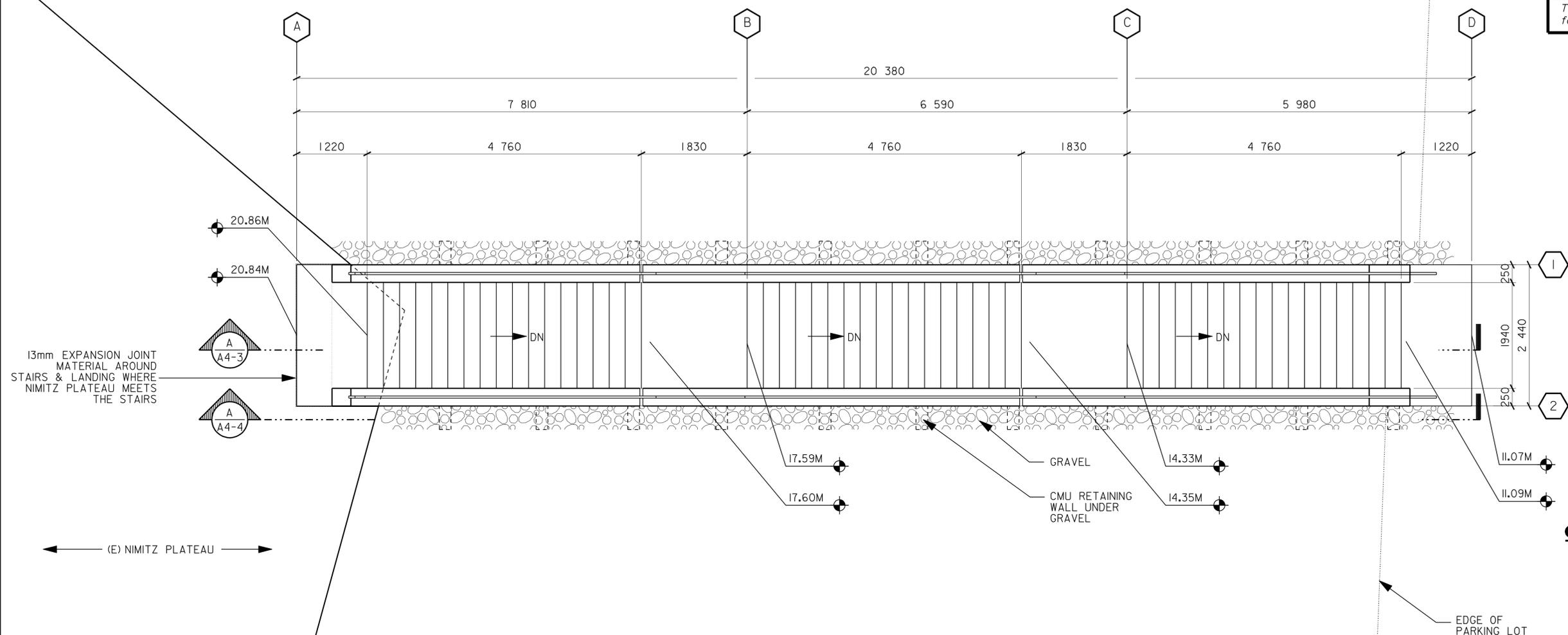


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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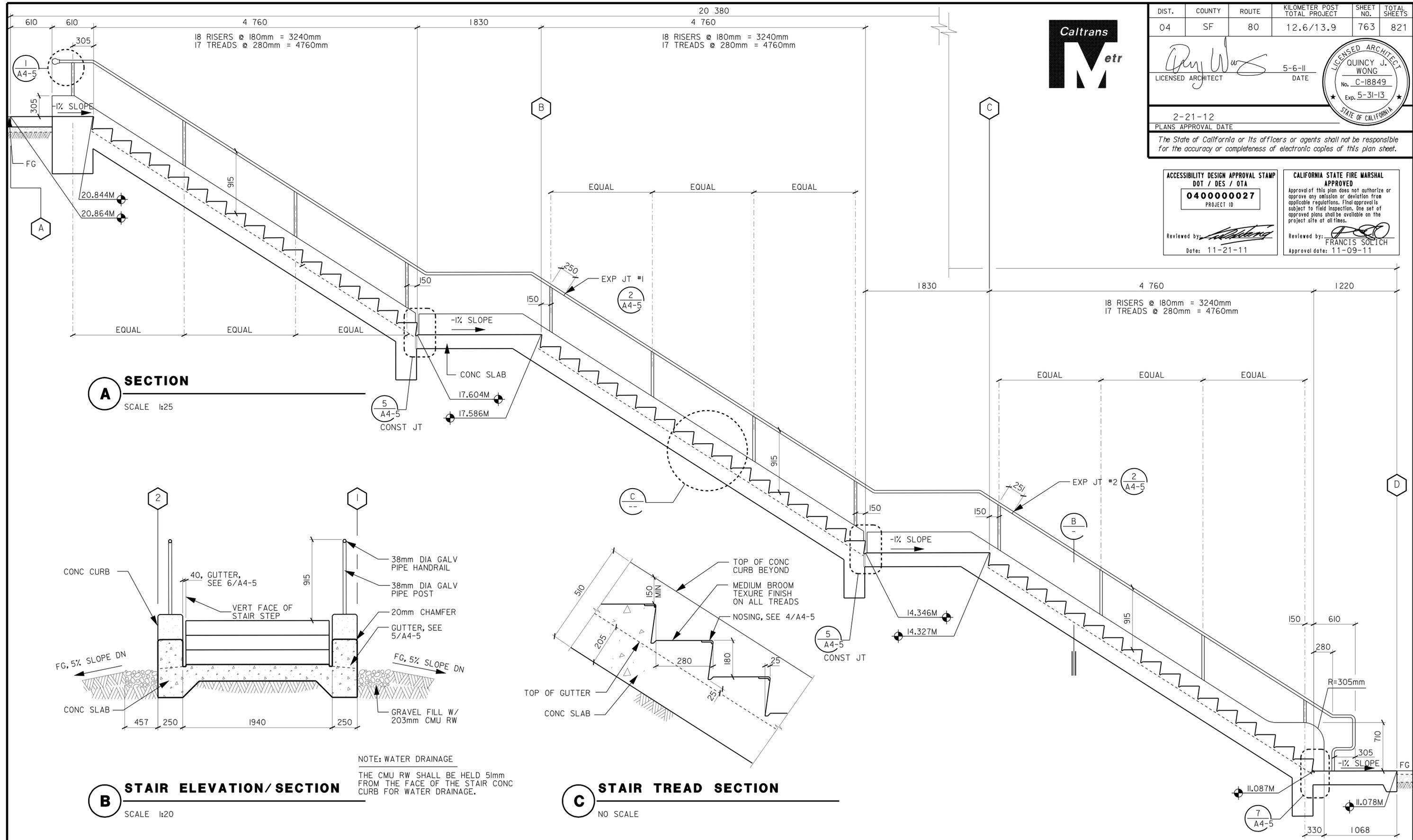
GENERAL NOTE

LEVEL CHANGE FROM TOP LANDING TO EXISTING NIMITZ PLATEAU SHALL NOT EXCEED 15mm

FLOOR PLAN
SCALE 1:40



a4_2_plan.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:37	DESIGN BY D. IGNACIO CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES FLOOR PLAN	SHEET OF A4-2 XX
	DETAILS BY S. YEH CHECKED Q. WONG			HISTORIC STAIRS		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3598 0400000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X XX	25-FEB-2012 10:37



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LICENSED ARCHITECT
 QUINCY J. WONG
 No. C-18849
 Exp. 5-31-13
 STATE OF CALIFORNIA

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A SECTION
SCALE 1:25

B STAIR ELEVATION/SECTION
SCALE 1:20

C STAIR TREAD SECTION
NO SCALE

NOTE: WATER DRAINAGE
 THE CMU RW SHALL BE HELD 5mm FROM THE FACE OF THE STAIR CONC CURB FOR WATER DRAINAGE.

a4_3_elev.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:38	DESIGN BY D. IGNACIO CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTIONS	SHEET A4-3
	DETAILS BY S. YEH CHECKED Q. WONG		QUANTITIES BY CHECKED	PROJECT NUMBER & PHASE 3598 0400000271	HISTORIC STAIRS	REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 08-15-05 07-06-06 09-21-07 12-14-07 1-5-11

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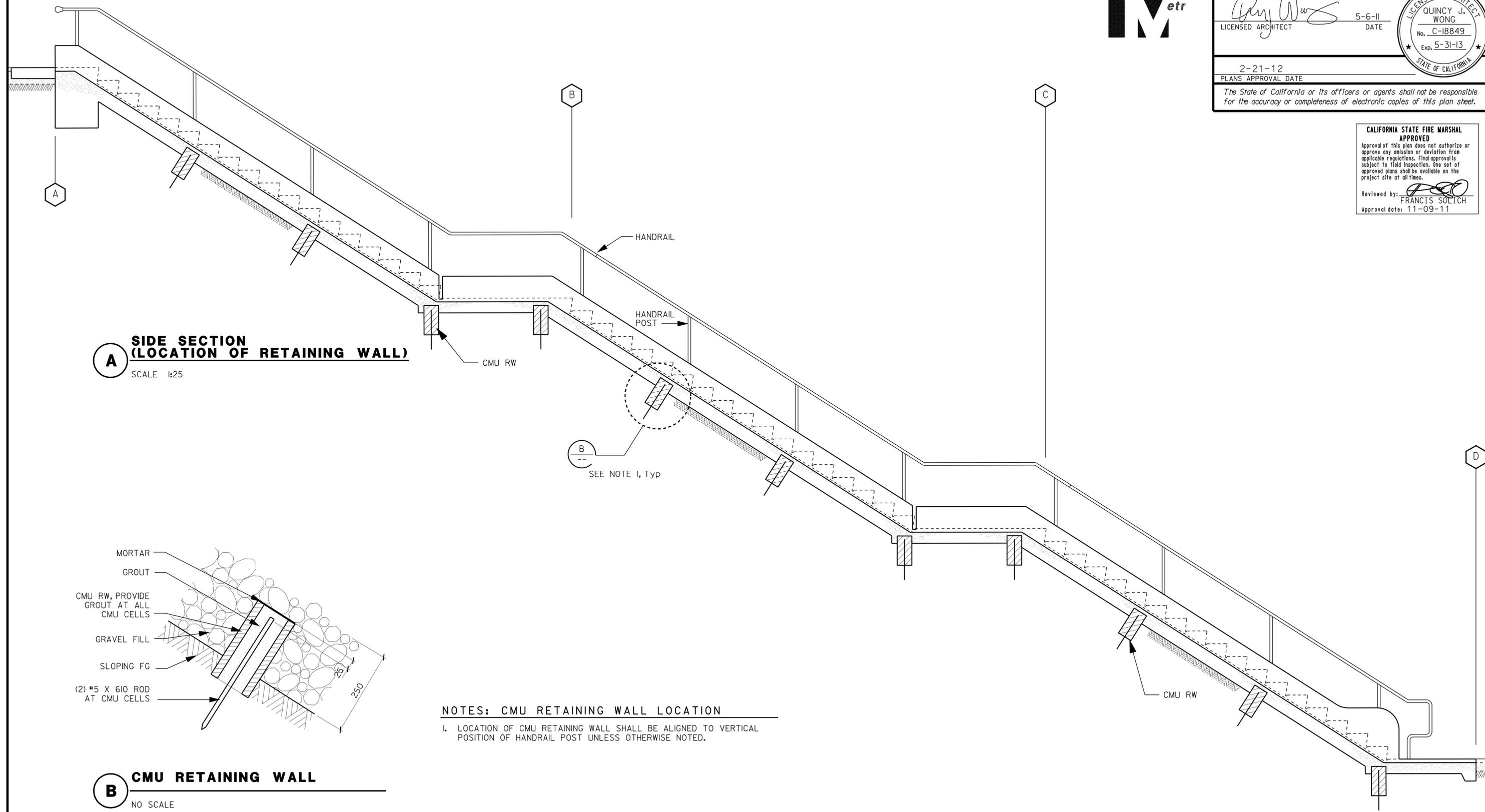
DISREGARD PRINTS BEARING EARLIER REVISION DATES



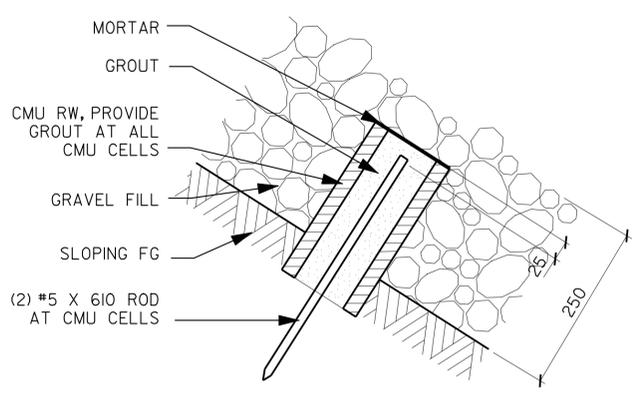
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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LICENSED ARCHITECT *Quincy Wong* DATE 5-6-11
 LICENSED ARCHITECT QUINCY J. WONG No. C-18849 Exp. 5-31-13
 STATE OF CALIFORNIA
 2-21-12
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 Reviewed by: *[Signature]*
 FRANCIS SOLICH
 Approval date: 11-09-11



A SIDE SECTION (LOCATION OF RETAINING WALL)
SCALE 1:25



B CMU RETAINING WALL
NO SCALE

NOTES: CMU RETAINING WALL LOCATION
 I. LOCATION OF CMU RETAINING WALL SHALL BE ALIGNED TO VERTICAL POSITION OF HANDRAIL POST UNLESS OTHERWISE NOTED.

a4_4_sect.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:38	DESIGN BY D. IGNACIO CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTION & DETAIL	SHEET OF A4-4 XX
	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3598 0400000271		

25-FEB-2012 10:38

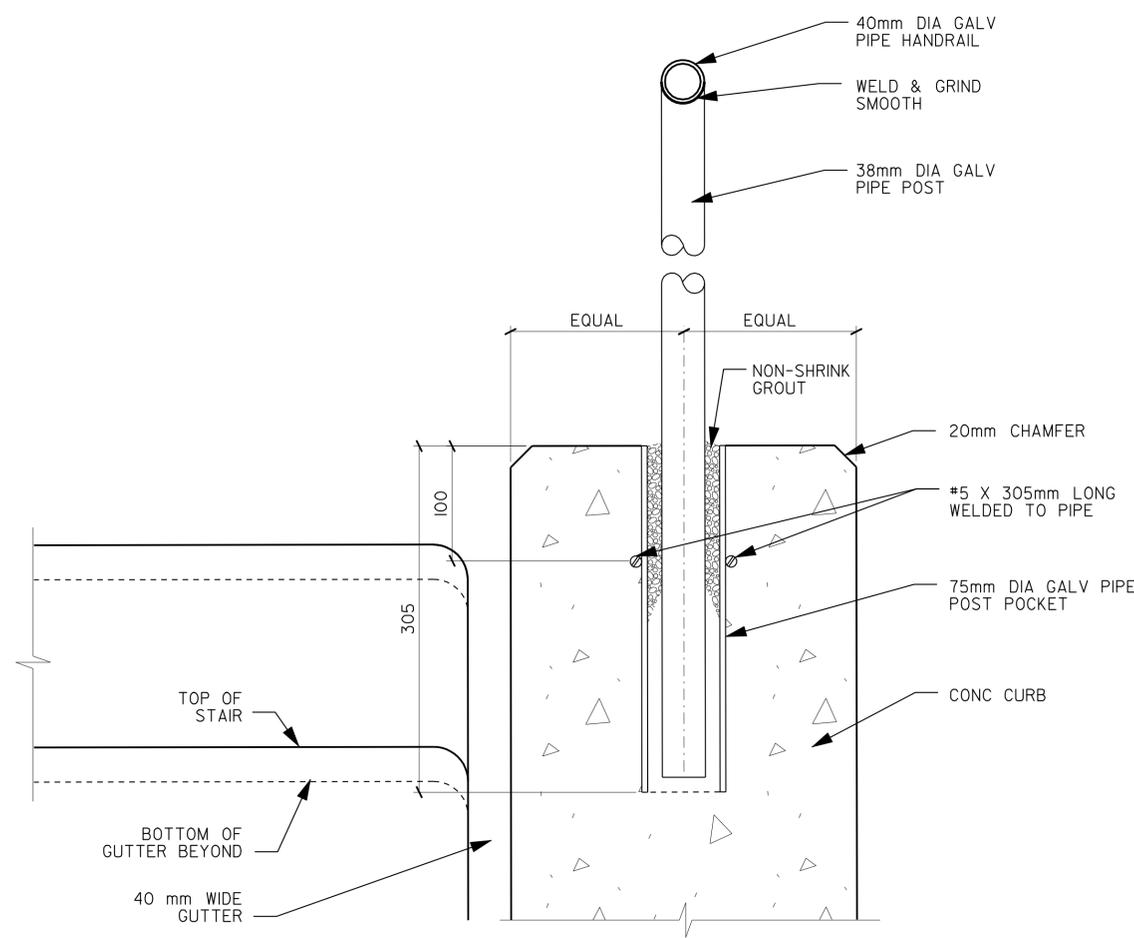


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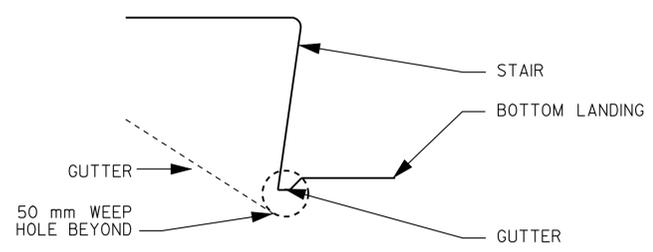
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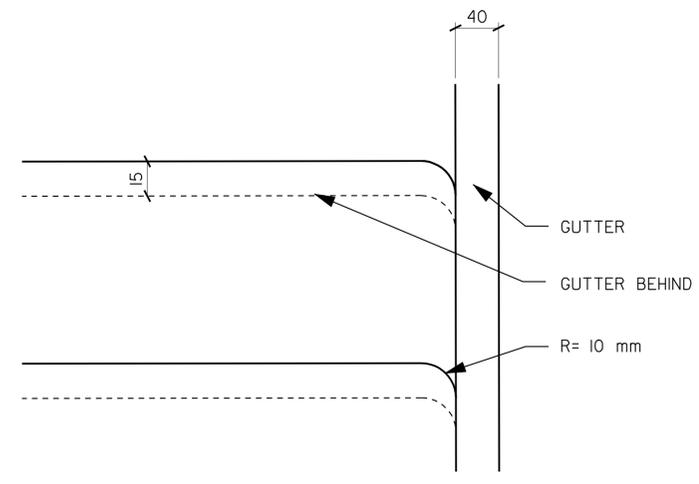
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID Reviewed by: Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 11-09-11
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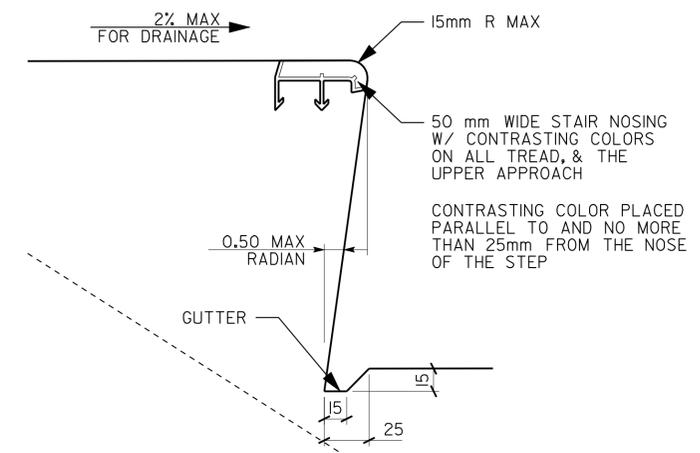
6 HANDRAIL
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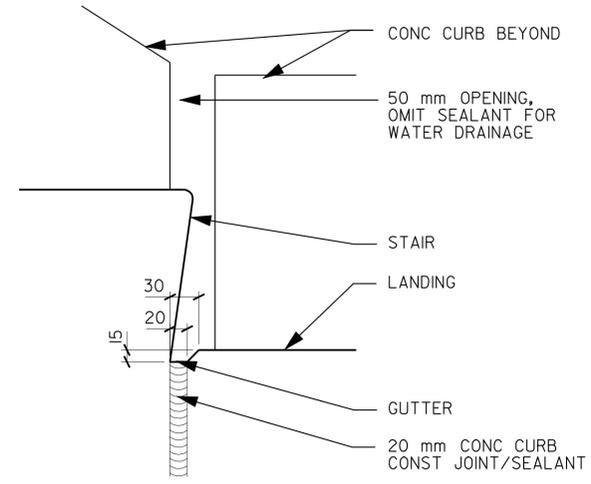
7 GUTTER @ BOTTOM LANDING
SCALE 1:4



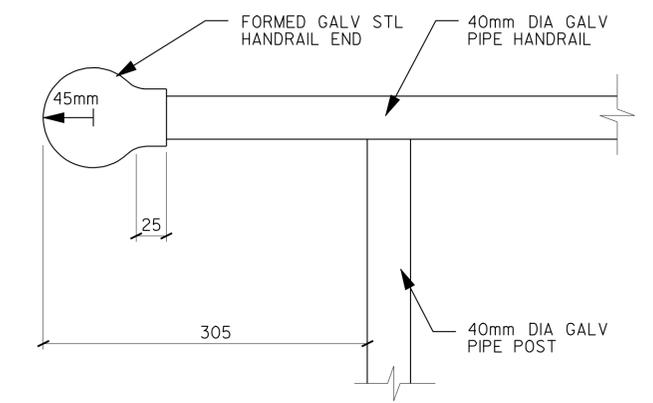
3 STAIR GUTTER
NO SCALE



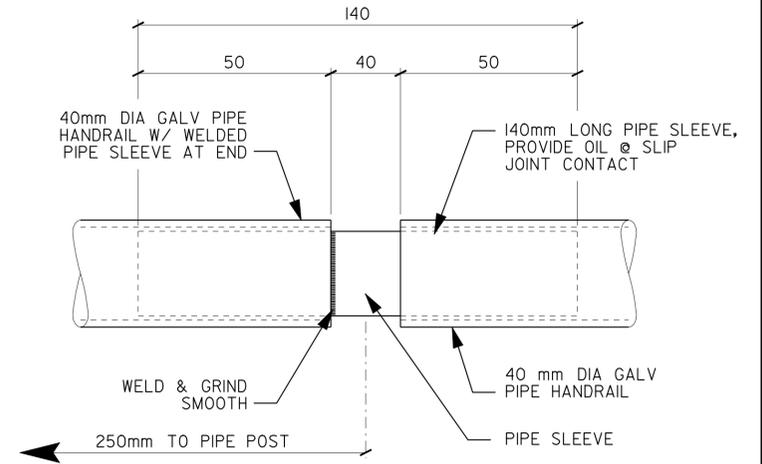
4 NOSING & GUTTER @ STAIR TREAD
NO SCALE



5 GUTTER @ STAIR TREAD & LANDING
SCALE 1:4



1 HANDRAIL EXTENSION END AT TOP RISER
NO SCALE



2 HANDRAIL EXPANSION JOINT
NO SCALE

a4_5_details.dgn DS OSD metric Rev. 11/98 25-FEB-2012 10:38	DESIGN BY D. IGNACIO CHECKED Q. WONG	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	YERBA BUENA ISLAND TRANSITION STRUCTURES DETAILS	SHEET OF A4-5
	DETAILS BY S. YEH CHECKED Q. WONG		QUANTITIES BY CHECKED	PROJECT NUMBER & PHASE 3598 0400000271	HISTORIC STAIRS	REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-09 01-15-09 07-06-09 07-27-07 12-14-07 1-5-11

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

0 10 20 30 40 50 60 70 80 90 100

25-FEB-2012 10:38



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	766	821

LICENSED ARCHITECT: *Quincy Wong* DATE: 5-6-11
 LICENSED ARCHITECT: _____ DATE: _____
 PLANS APPROVAL DATE: 2-21-12
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FINISH NOTES

1. MANUFACTURERS DESIGNATIONS ARE USED TO INDICATE PATTERN AND COLOR AND ARE NOT INTENDED TO SHOW A PREFERENCE FOR A PARTICULAR BRAND. ALL PRODUCTS MAY BE SUBMITTED FOR APPROVAL IF EQUAL IN COLOR AND TEXTURE.
2. ALL STRUCTURAL STEEL, STEEL COMPONENTS, STEEL SUPPORT TO BE APPLIED WITH TNEMEC COATING SYSTEM FOR EXTERIOR STEEL UNDER SEVER EXPOSURE (AGGRESIVE CORROSION, COASTAL OR UV EXPOSURE, PHYSICAL ABUSE) INCLUDING PRIMER AND FINISH COATING.
3. PREFINISHED BY MANUFACTURER
4. CONCRETE TO BE COATED WITH CONCRETE HARDENER WITH OIL AND GREASE SEALER
5. COLOR NO. \triangle ——— WHITE

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID * EXEMPT Reviewed by: <i>[Signature]</i> Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> FRANCIS SOLICH Approval date: 11-09-11
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* EXEMPTION DOCUMENT ON FILE

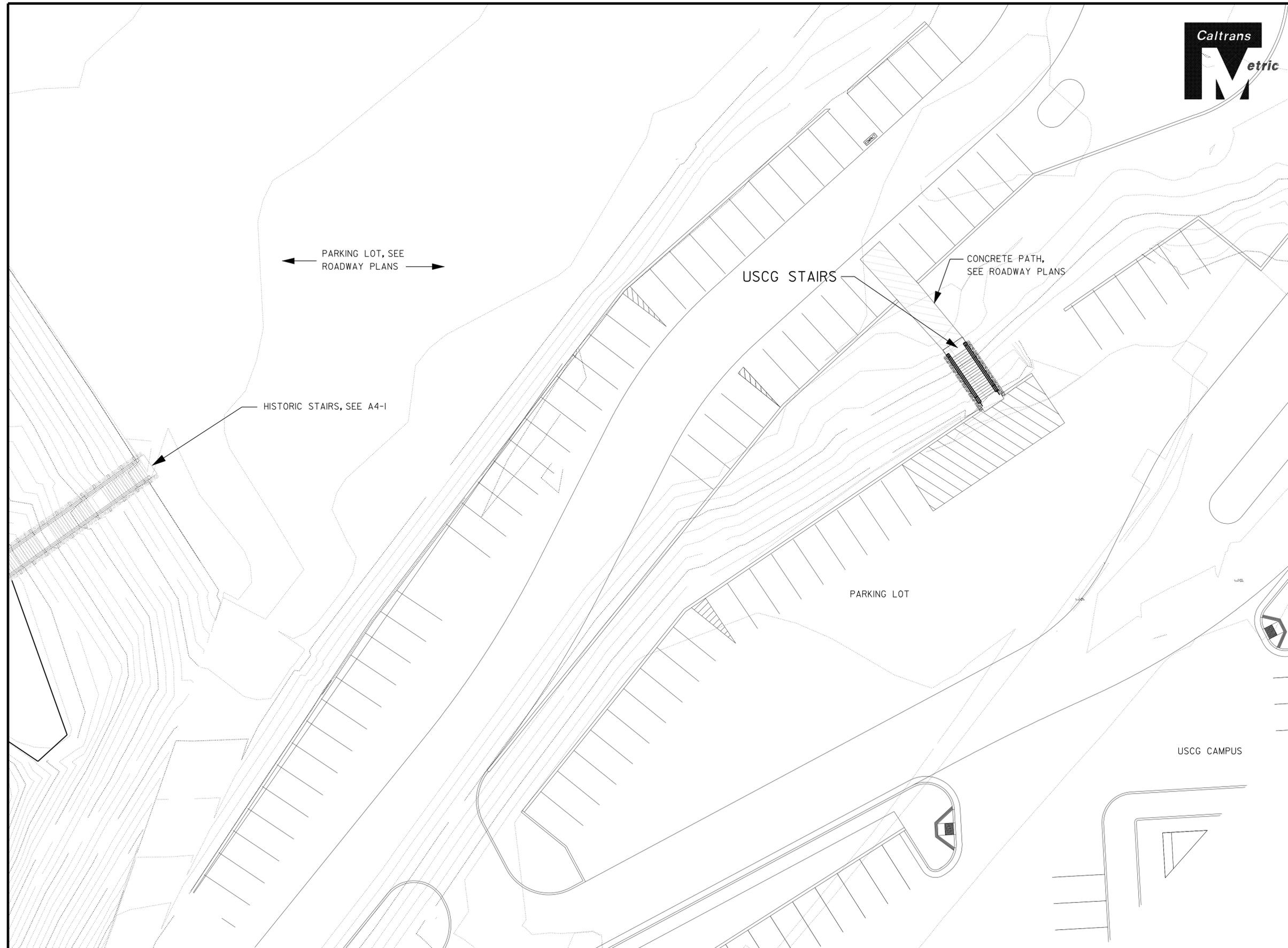
MATERIAL	COLOR NUMBER	FINISH NOTES
CONCRETE CURB, LANDINGS, AND STEPS	-	4
HANDRAILING	\triangle	3
PIPE POST	\triangle	3

27-FEB-2012 10:21



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	767	821
 LICENSED ARCHITECT			5-6-11	DATE	
2-21-12 PLANS APPROVAL DATE					
<i>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.</i>					

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: 
FRANCIS SOLICH
 Approval date: 11-09-11



GENERAL NOTE
 SEE ROADWAY PLANS FOR LOCATION OF USCG STAIRS PLACEMENT.

PARTIAL SITE PLAN
 SCALE 1:200



a5_1_site.dgn		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 34-004 KM POST 12.8		YERBA BUENA ISLAND TRANSITION STRUCTURES PARTIAL SITE PLAN		SHEET OF A5-1	
DS OSD metric Rev. 11/98 25-FEB-2012 10:38				0 10 20 30 40 50 60 70 80 90 100		UNIT PROJECT NUMBER & PHASE 3598 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 07-11-05 07-15-05 07-06-06 09-21-07 12-14-07 1-5-11		SHEET OF X XX			

25-FEB-2012 10:38

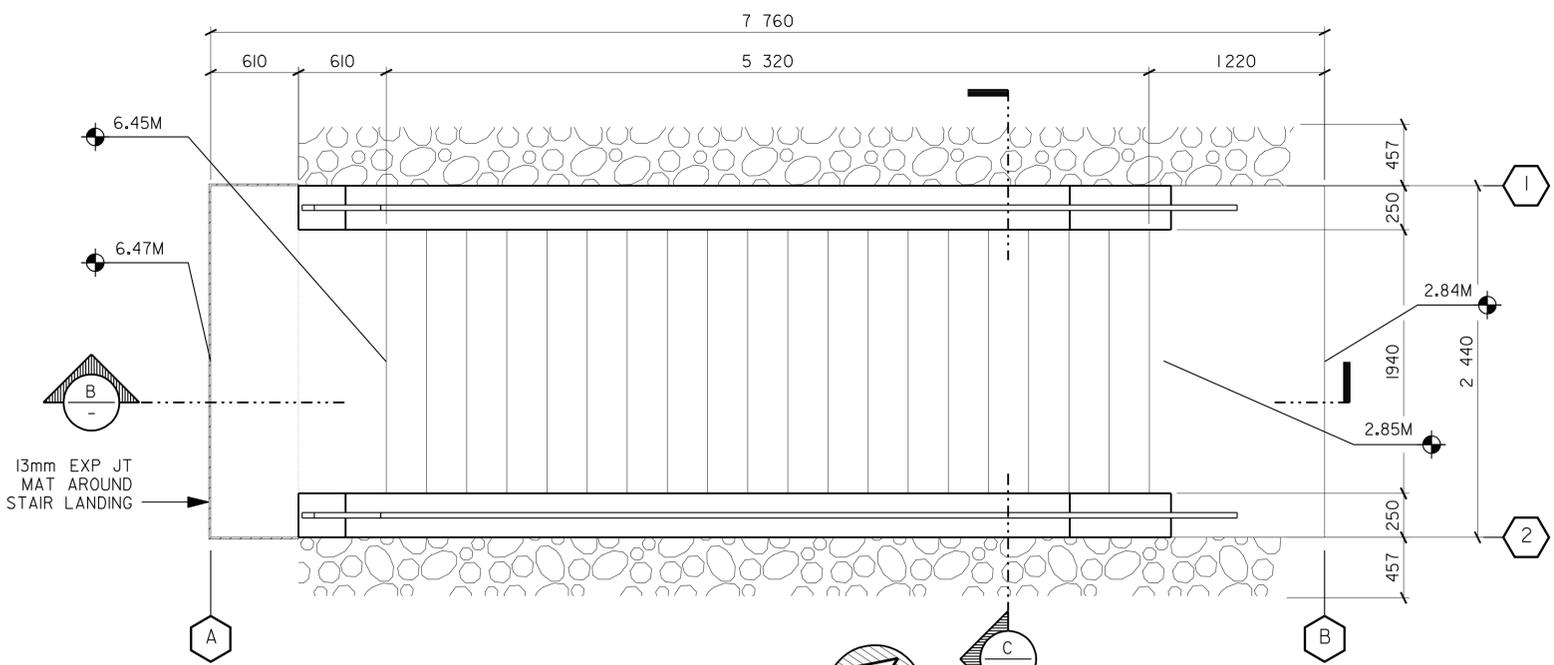
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04	SF	80	12.6/13.9	768	821

 LICENSED ARCHITECT		5-6-11 DATE
2-21-12 PLANS APPROVAL DATE		
<i>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.</i>		

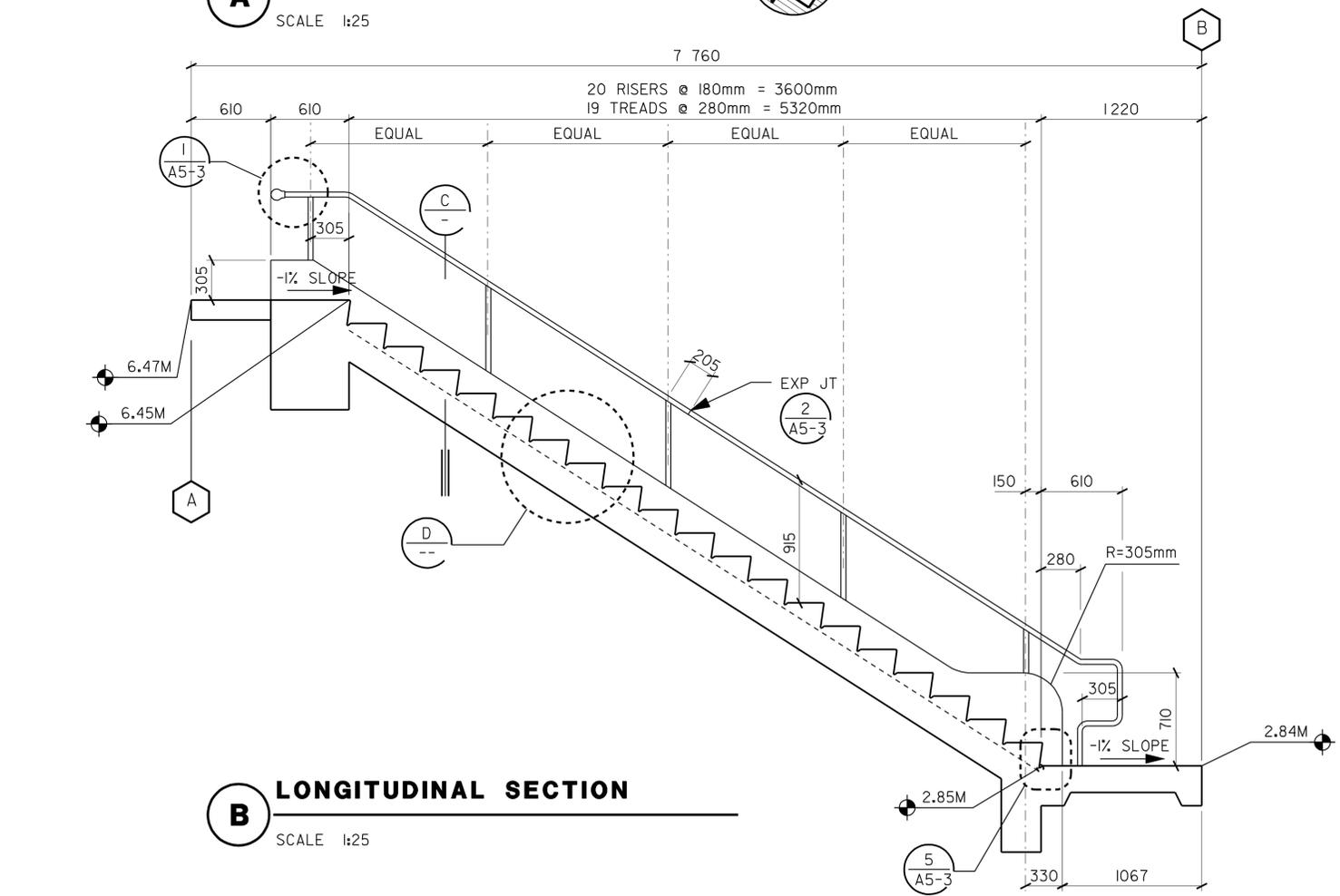


GENERAL NOTES

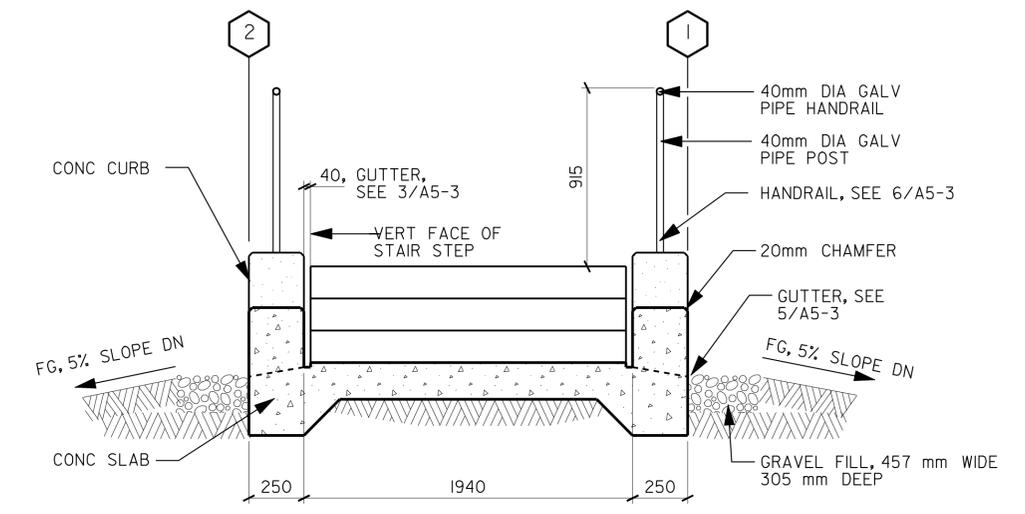
1. LEVEL CHANGE FROM ADJACENT SURFACE TO TOP LANDING SHALL NOT EXCEED 15mm
3. CONTRASTING COLOR ON ALL TREADS, TYP, PLACED PARALLEL TO AND NO MORE THAN 25 mm FROM THE NOSE OF THE STEP.
4. ALL TREADS AND LANDINGS SHALL BE SLIP RESISTANT



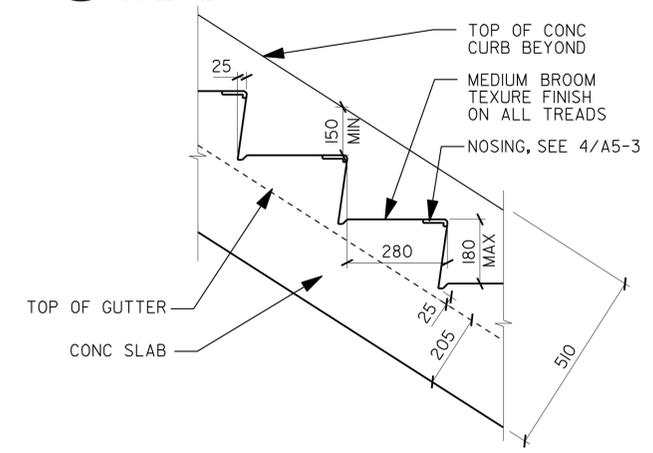
A FLOOR PLAN
SCALE 1:25



B LONGITUDINAL SECTION
SCALE 1:25



C STAIR ELEVATION/CROSS SECTION
SCALE 1:20



D STAIR TREAD SECTION
SCALE 1:10

DESIGN	BY Q. WONG	CHECKED Q. WONG
DETAILS	BY S. YEH	CHECKED Q. WONG
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND
TRANSITION STRUCTURES
FLOOR PLAN & SECTIONS

SHEET OF
A5-2

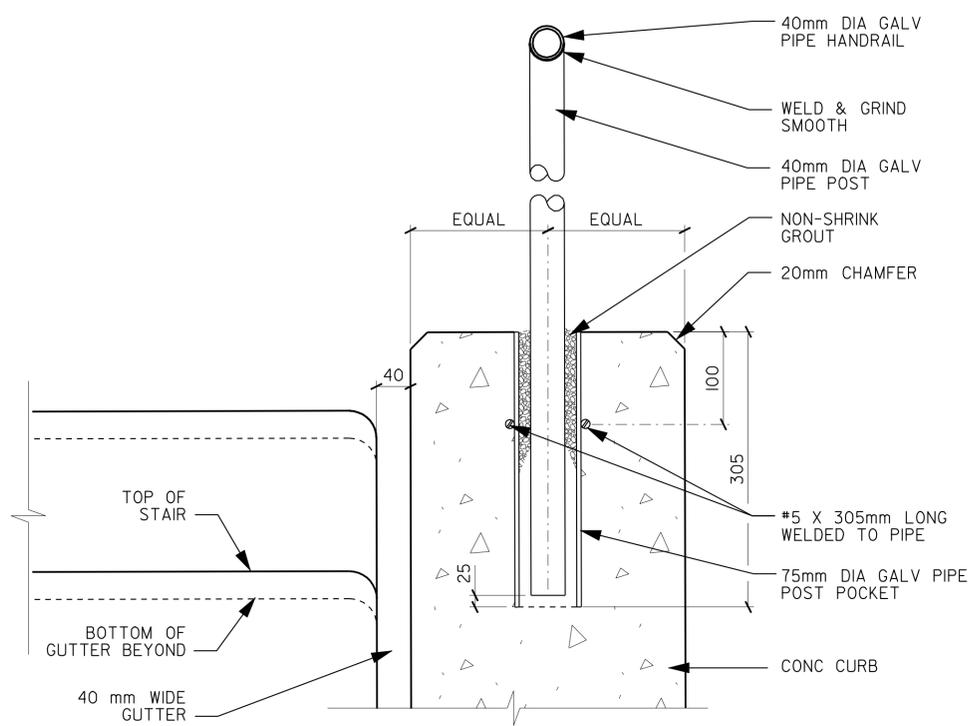


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	769	821

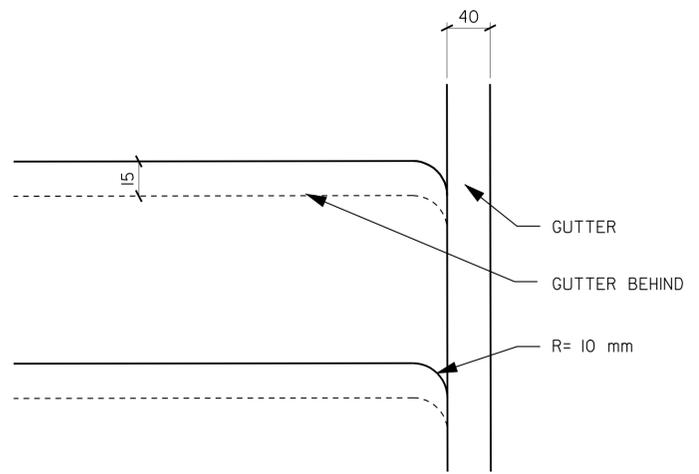
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2-21-12 PLANS APPROVAL DATE		
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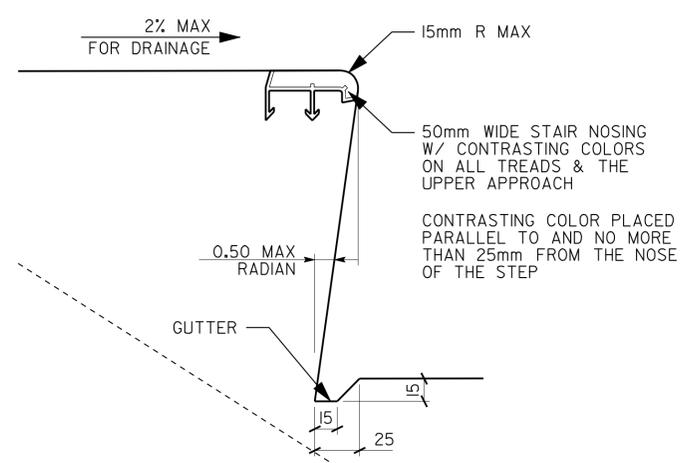
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA 040000027 PROJECT ID Reviewed by: Date: 11-21-11	CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: FRANCIS SOLICH Approval date: 11-09-11
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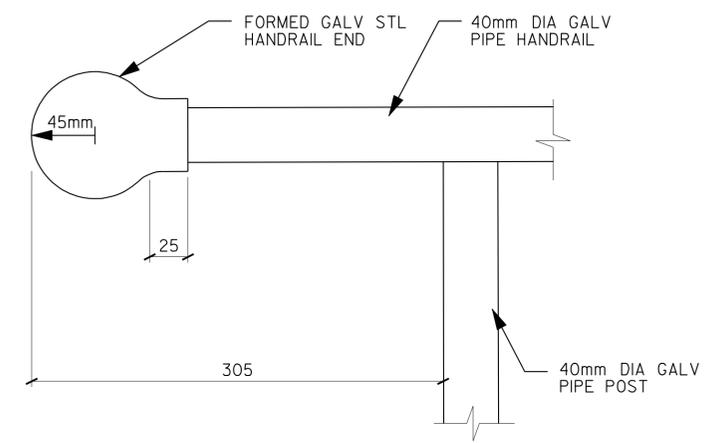
6 HANDRAIL
SCALE 1:4



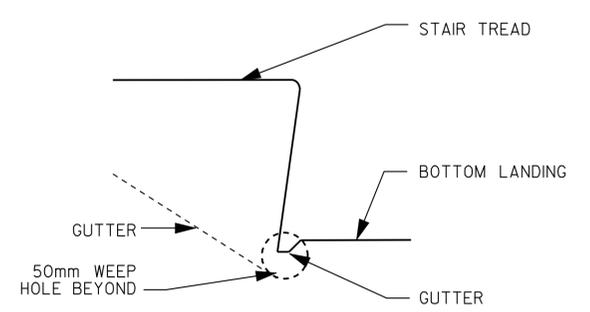
3 STAIR GUTTER
NO SCALE



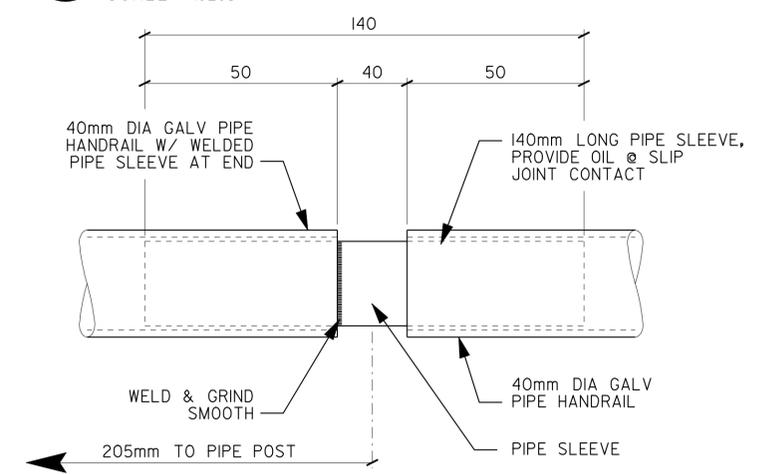
4 NOSING & GUTTER @ STAIR TREAD
NO SCALE



1 HANDRAIL EXTENSION END AT TOP RISER
SCALE 1:2.5



5 GUTTER @ STAIR TREAD & LANDING
SCALE 1:4



2 HANDRAIL EXPANSION JOINT
NO SCALE

DESIGN BY Q. WONG CHECKED Q. WONG DETAILS BY S. YEH CHECKED Q. WONG QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF A5-3
			KM POST 12.8	USCG STAIRS DETAILS		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3598 04000000271		REVISION DATES (PRELIMINARY STAGE ONLY) 01-11-05 01-15-05 07-06-06 09-27-07 12-14-07 1-5-11



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 11-7-11
 REGISTERED CIVIL ENGINEER

2-21-12
 PLANS APPROVAL DATE

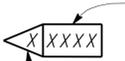
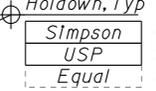
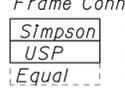
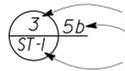
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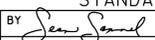
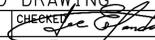
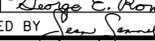
ABBREVIATIONS

AAD	Adhesive Anchorage Device	HD	Holdown
AB	Anchor Bolt	Hex	Hexagon
AC	Asphalt Concrete	Horiz	Horizontal
Alt	Alternate	HSB	High Strength Bolt
APA	American Plywood Association	HSS	Hollow Structural Section
APC	Alternative Pipe Culvert	Jt	Joint
Bldg	Building	LOL	Layout Line
Blkg	Blocking	LVL	Laminated Veneer Lumber
BN	Boundary Nailing	m	Meter
Btm	Bottom	Max	Maximum
CB	Carriage Bolt	MEA	Mechanical Expansion Anchor
CIDH	Cast In Drilled Hole	Mech	Mechanical
CJ	Control Joint	Mfr	Manufacturer
Clr	Clear	mm	Millimeter
CMU	Concrete Masonry Unit	Min	Minimum
Conc	Concrete	MIW	Malleable Iron Washer
Const	Construction	OC	On Center
Cont	Continuous	OG	Original Grade
CP	Complete Penetration Weld	OH	Opposite Hand
Dbl	Double	Opt	Optional
DF	Douglas Fir	P	Pitch
Dia	Diameter	PDF	Powder Driven Fastener
DIP	Ductile Iron Pipe	Plwd	Plywood
DN	Diameter Nominal	PT	Pressure Treated
do	Ditto	PW	Puddle Weld
(E)	Existing	PWB	Prefabricated Wood I Beam
Ea	Each	RCP	Reinforced Concrete Pipe
EL	Elevation	Reinf	Reinforced, Reinforcing
Elec	Electrical	Req'd	Required
Embed	Embedment	SDSTS	Self Drill, Self Tap Screw
EN	Edge Nail	Sim	Similar
Eq	Equal	SPS	Structural Plywood Sheathing
Exp	Expansion	Sq	Square
FDGM	Free Draining Granular Material	Stagg	Staggered
FG	Finish Grade	Std	Standard
FL	Flow Line	SW	Stud Weld
Fir	Floor	Sym	Symmetrical
FN	Face (Field) Nail	T&G	Tongue-and-Groove
FOC	Face of Concrete	TN	Toe Nail
FOM	Face of Masonry	TS	Tube Steel
FOS	Face of Stud	Typ	Typical
Ftg	Footing	UON	Unless Otherwise Noted
Ga	Gage	Vert	Vertical
Galv	Galvanized		
GLM	Glue Laminated Member		
Gyp Bd	Gypsum Board		

SYMBOLS

	Blocking In Section or Elevation		CMU Wall on Plan Views
	Continuous Member in Section		Dropped Slab on Plan Views
	End of Member		Reinforced Concrete
	Bearing Wall		Sand
	Shear Wall		Structural Backfill
	Length Shearwall Schedule Symbol Reference		Structural Excavation
	Glue Laminated Member Section		Original Ground
	North Arrow		Limits of Structural Backfill (shown on plan view)
	Partial Section Cut		Free Draining Granular Material
	Full Section Cut		Bottom of Footing
	Revision Callout		Elevation or Working Point
	Grid Line Indicator		Existing Features
	Center Line		Holdown, Typ (Manufacturers are those noted in the order shown.)
	Station Line		Frame Connector (Manufacturers are those noted in the order shown.)
	Steel Plate		Detail Number or Note Number Additional Reference (if required) Sheet Number
	Diameter		
	Square		

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25M-0 DRAWING DATE 1-04		DESIGN BY  CHECKED  SUBMITTED BY 		APPROVED  DESIGN SUPERVISOR		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		BRIDGE NO. 34-004 KM POST 12.8		YERBA BUENA ISLAND TRANSITION STRUCTURES LEGEND				SHEET ST-1 OF	
DOES SD metric Rev. 9/02		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS				CU 04 251 EA 0120T1		DISREGARD PRINTS BEARING EARLIER REVISION DATES				REVISION DATES (PRELIMINARY STAGE ONLY) 1-16-04		SHEET OF	

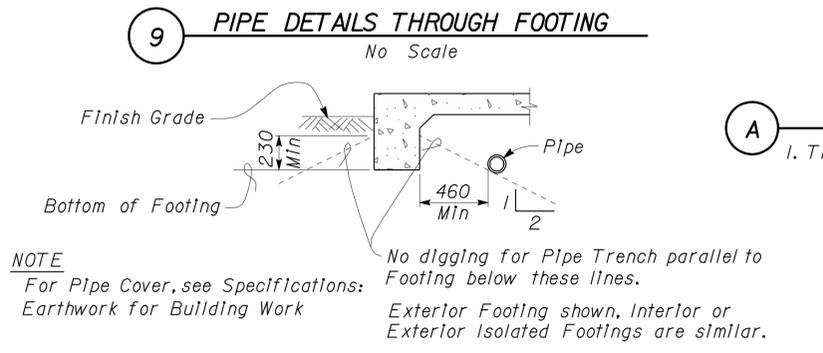
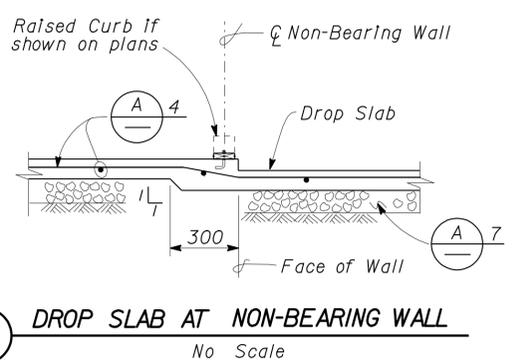
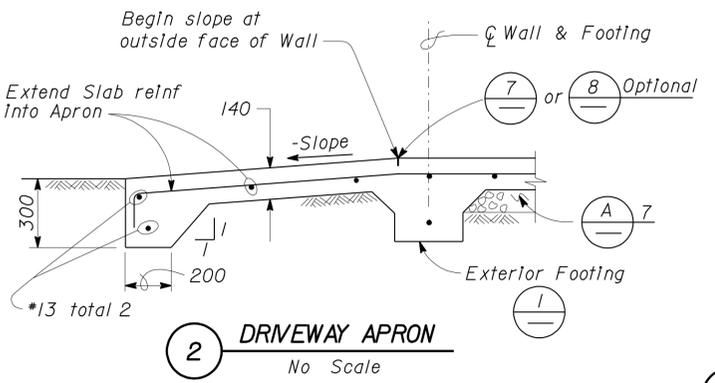
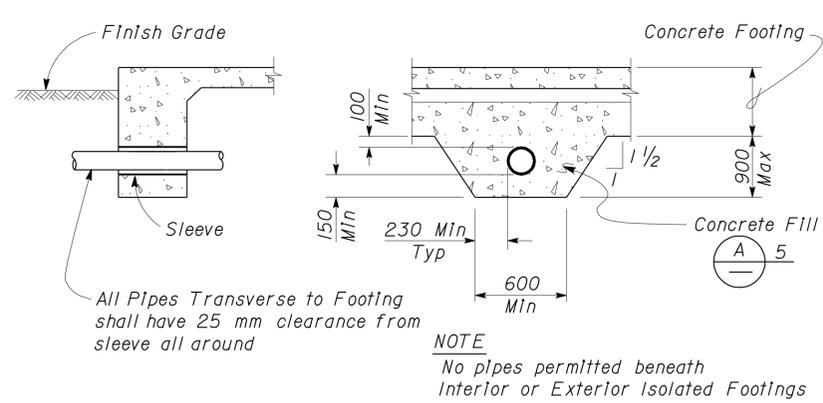
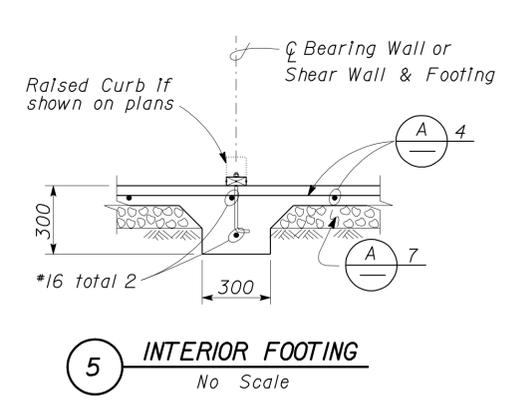
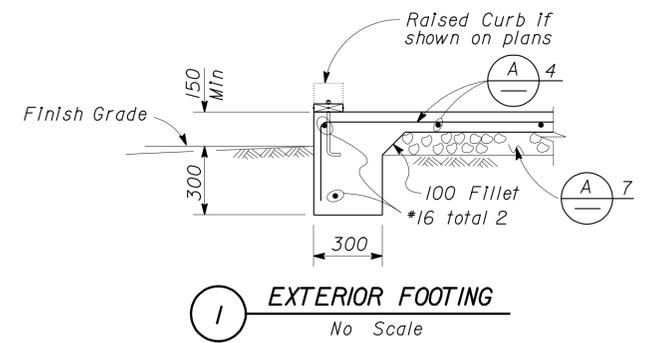
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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	771	821

REGISTERED CIVIL ENGINEER 2-21-12 PLANS APPROVAL DATE	II-7-II

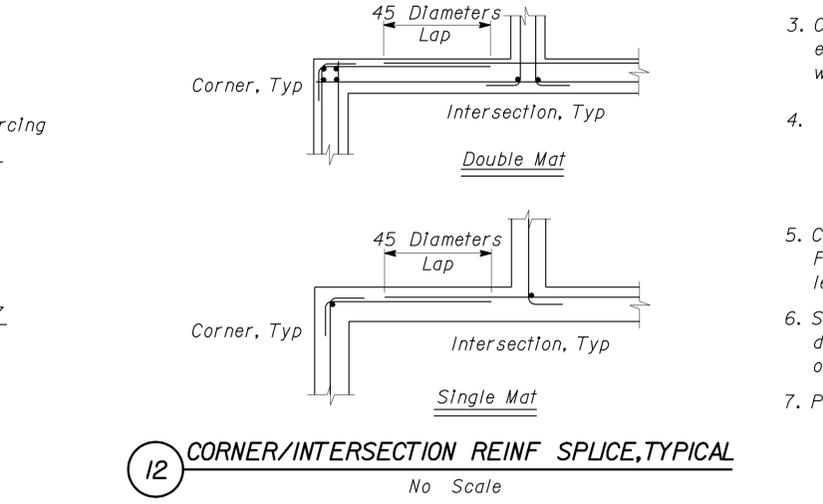
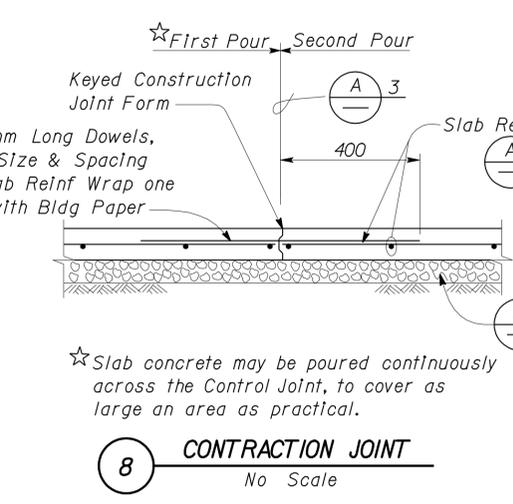
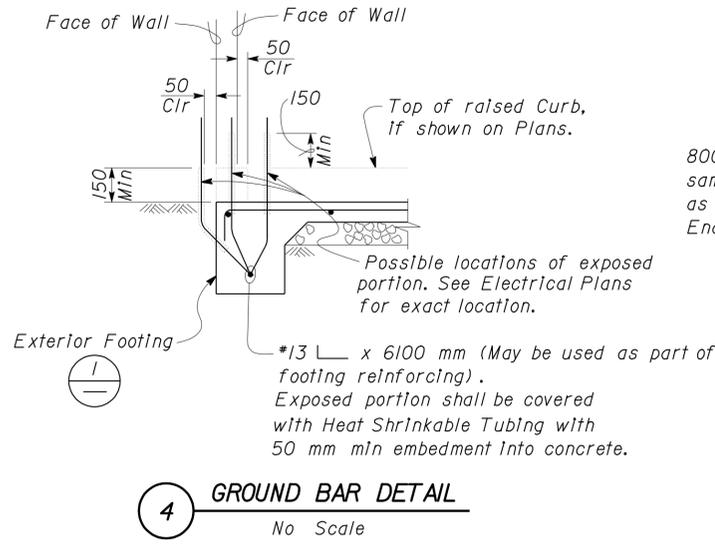
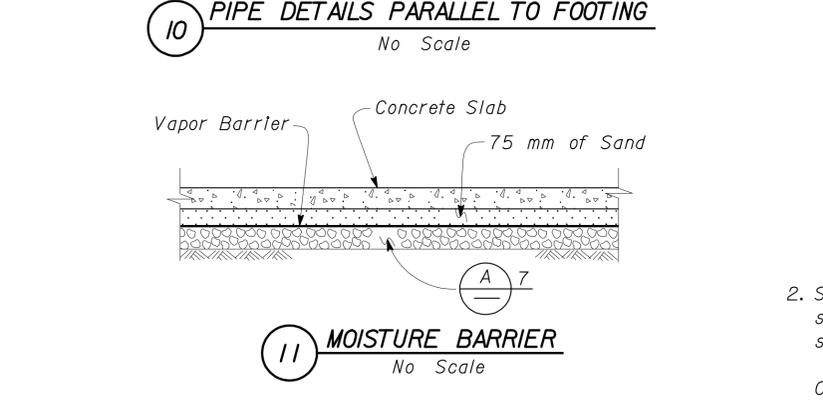
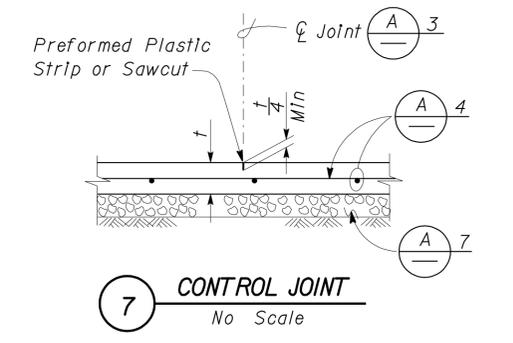
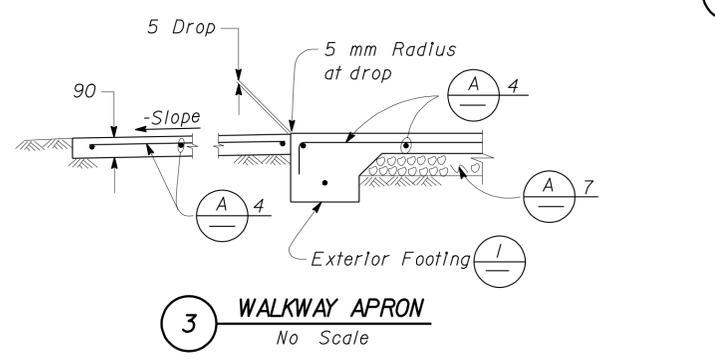
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A CONCRETE NOTES

1. The following minimum concrete cover shall be provided for reinforcement.

	Minimum Cover
a. Concrete cast against and permanently exposed to earth	75 mm
b. Concrete exposed to earth or weather but cast in forms:	
*19 thru *57 bars	50 mm
*16 bar and smaller, MW200 Wire, and smaller	40 mm
c. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and Joists:	
*43 and *57 Bar	40 mm
*36 Bar and smaller	20 mm
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	40 mm



NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25M-1	DESIGN BY <i>Sean Seavel</i>	CHECKED <i>Steve Collins</i>	APPROVED <i>R.E. Travis</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST-2
DRAWING DATE 1-04	DETAILS BY <i>Peter F. von Savoy</i>	CHECKED <i>Steve Collins</i>	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	KM POST 12.8	CONCRETE STANDARD	
DOES SD metric Rev. 9/02	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

25-FEB-2012 11:29 st_02.dgn



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	772	821


 REGISTERED CIVIL ENGINEER DATE 11-7-11
 C. Tong
 No. 64543
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

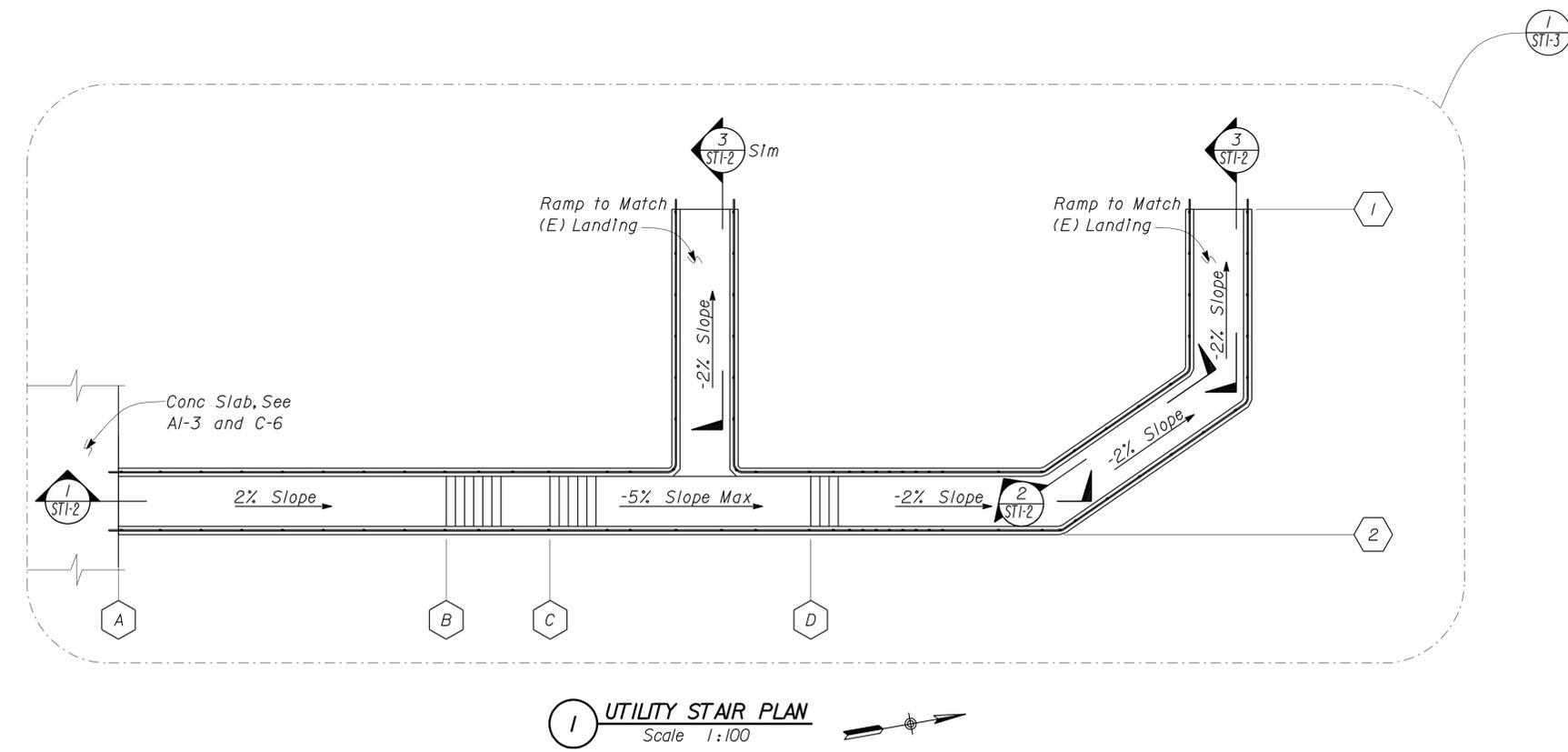
2-21-12
 PLANS APPROVAL DATE
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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
040000027
 PROJECT ID
 Reviewed by: 
 Date: 11-21-11

A DESIGN NOTES

1. Design: The building work on this project has been designed to conform to the 2010 California Building Code. (2009 IBC)
 - a. Loads :
 - Live Loads : 4790 Pa
 - Wind Speed : 136 km/h , Exposure D
 - Seismic: Occupancy Category = I
 Importance Factor Site Soil= D (Assumed)
 Site Soil Class = D (Assumed)
 $S_s = 1.5$ $S_{ds} = 1.0$
 $S_1 = 0.6$ $S_{d1} = 0.6$
 Seismic Design Category = D
 $C_s = 0.25$
 - b. Reinforced Concrete (Ultimate Strength Design) :
 - $f'_c = 21$ MPa
 - $f_y = 420$ MPa (Epoxy Coated Rebar)
 - c. Miscellaneous Metal (Working Design)
 - $f_y = 248$ Pa, UON
 - d. Foundation :
 - Allowable Soil Pressure (DL + LL) : 71,900 Pa (assumed)

2. Stairs:
 - a. For typical stair details, see Sheet STI-4.
 - b. Landings slopes shall be minimum 2% and maximum of 5%, Cross Slope Shall Be Maximum of 2%.
 - c. Landing slabs shall be 150 mm thick reinforced concrete w/ #16 @ 450 OC each way, Typ.
3. Handrail
 - a. Maintain minimum 915 mm and maximum 965 mm clear height from top of landing/stairs to top of handrail pipe, with post @ max 1.2m spacing.
 - b. Provide expansion joints with max 4.5m spacing @ each handrail, See 
 - c. All metal work shall be hot dip galvanized after fabrication.
 - d. Mechanical expansion Anchors shall be 12.7mm ϕ and have 100mm min Embedment UON



Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

 DESIGN ENGINEER	DESIGN BY <i>Thomas Tong</i>	CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES UTILITY STAIRS	SHEET ST1-1
	DETAILS BY <i>Daniel Harakh</i>	CHECKED <i>Thomas Tong</i>			KM POST 12.8		
DOES SD metric Rev. 9/02	QUANTITIES BY	CHECKED	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

25-FEB-2012 11:29 st1_01.dgn

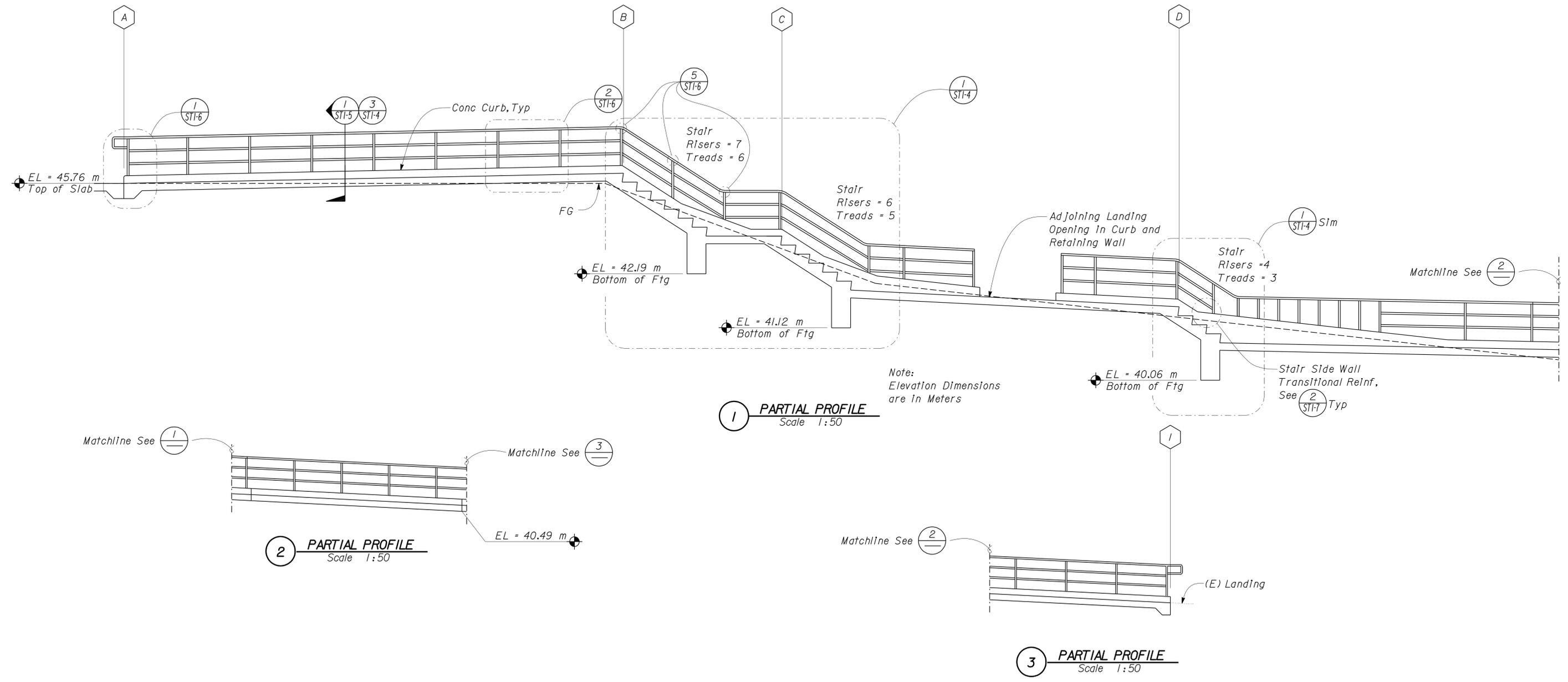


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	773	821


 REGISTERED CIVIL ENGINEER DATE 11-7-11
 2-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 C. Tong
 No. 64543
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

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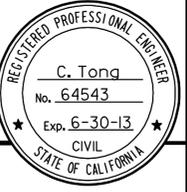


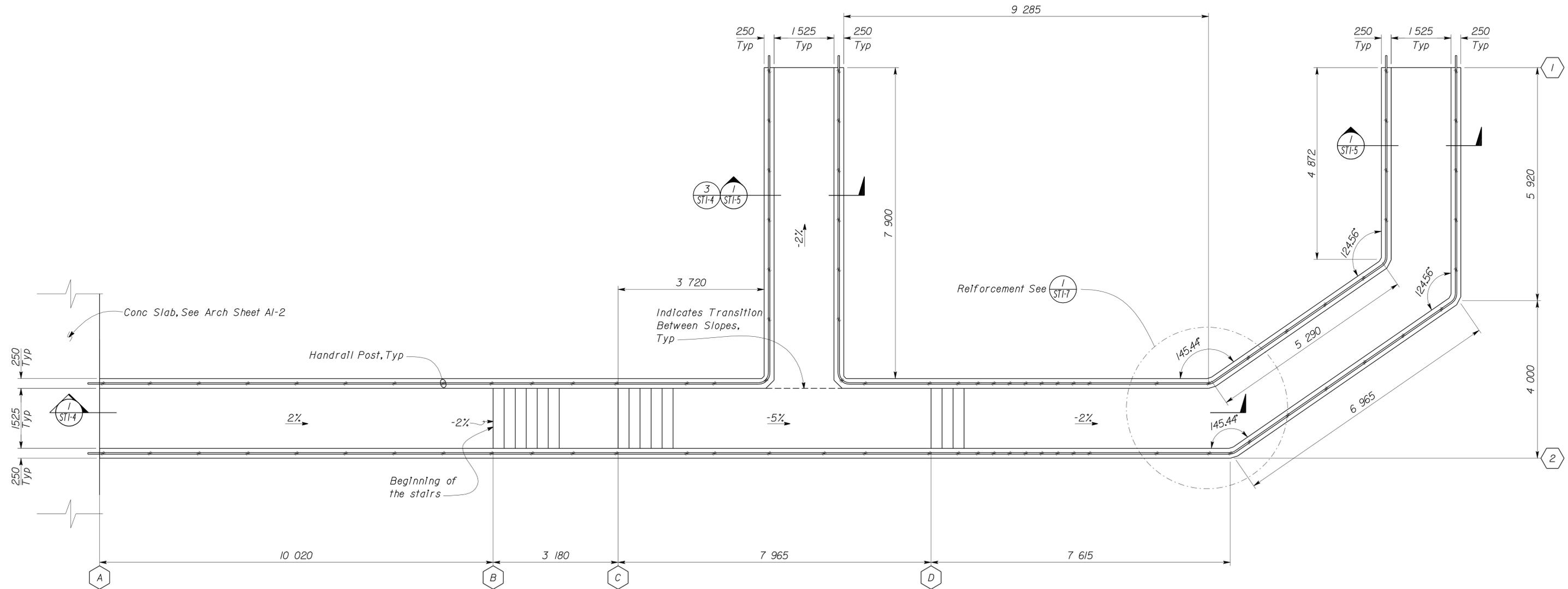
Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN BY <i>Thomas Tong</i>	CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	UTILITY STAIRS	YERBA BUENA ISLAND TRANSITION STRUCTURES PROFILE ELEVATIONS	SHEET OF ST1-2									
				KM POST 12.8				REVISION DATES (PRELIMINARY STAGE ONLY)								
DETAILS BY <i>Daniel Harakh</i>	CHECKED <i>Thomas Tong</i>	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>08-11-10</td> <td>09-03-10</td> <td>10-11-10</td> <td>01-07-11</td> <td>01-12-11</td> <td>01-13-11</td> <td>10-28-11</td> <td>10-31-11</td> <td>11-07-11</td> </tr> </table>				08-11-10	09-03-10	10-11-10	01-07-11	01-12-11	01-13-11	10-28-11	10-31-11	11-07-11
08-11-10	09-03-10	10-11-10	01-07-11	01-12-11	01-13-11	10-28-11	10-31-11	11-07-11								
QUANTITIES BY	CHECKED	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS					DOES SD metric Rev. 9/02								

25-FEB-2012 11:29 st1_02.dgn



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	774	821
 REGISTERED CIVIL ENGINEER			11-7-11 DATE		
2-21-12 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.					



Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

2 UTILITY STAIR PLAN
 Scale 1:50

DESIGN	BY Thomas Tong	CHECKED Edgardo Isidro
DETAILS	BY Daniel Harakh	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

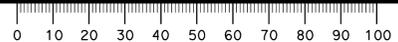
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND TRANSITION STRUCTURES
 UTILITY STAIRS
 UTILITY STAIR PLAN

SHEET **ST1-3**



25-FEB-2012 11:29

Note:
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	775	821

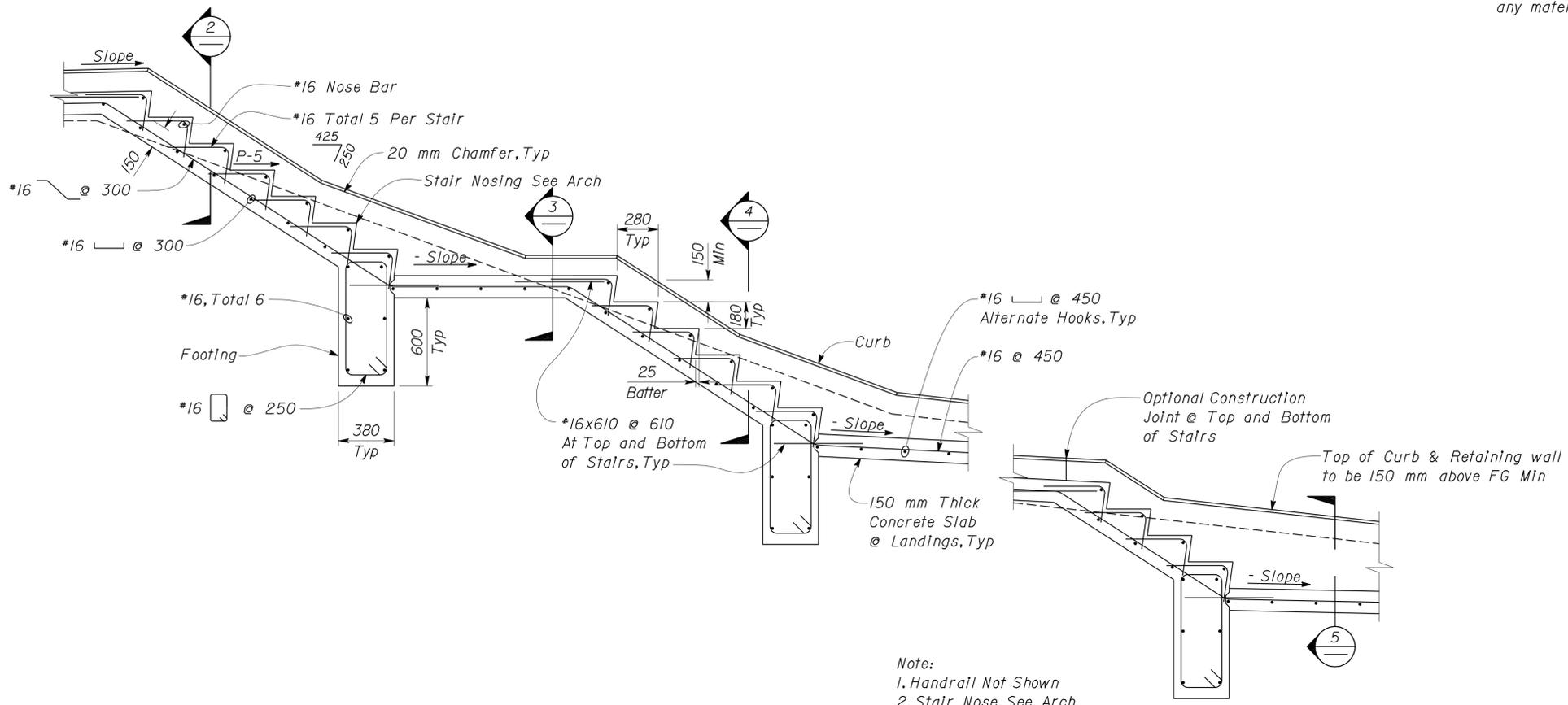
<i>Jonhson</i> REGISTERED CIVIL ENGINEER	11-7-11 DATE
---	-----------------

2-21-12 PLANS APPROVAL DATE

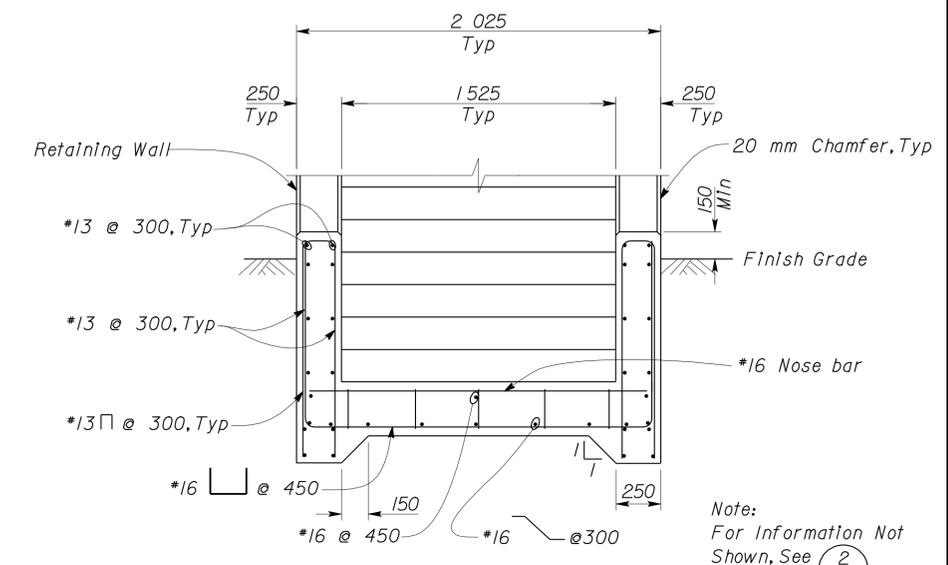
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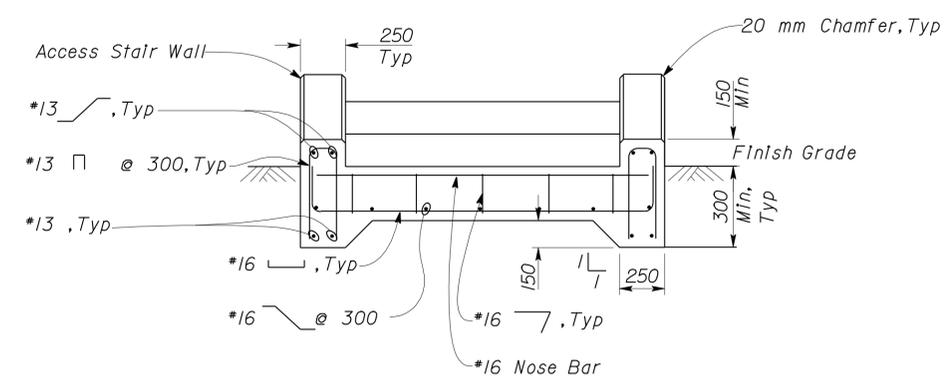
ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA
040000027
PROJECT ID
Reviewed by: *[Signature]*
Date: 11-21-11



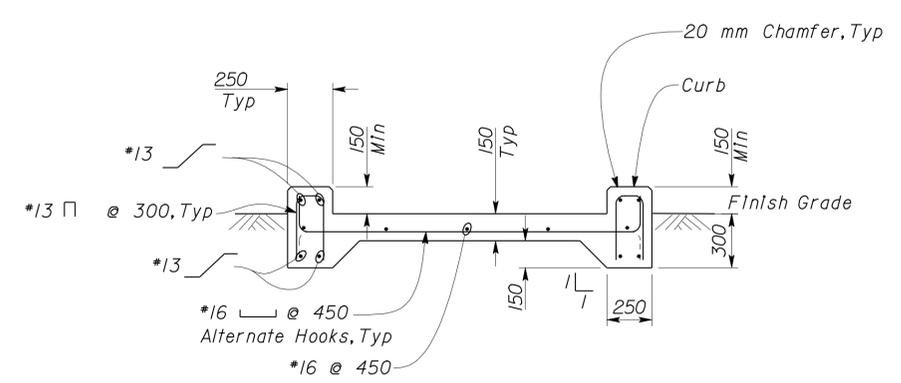
1 TYPICAL STAIR SECTION
Scale 1:20



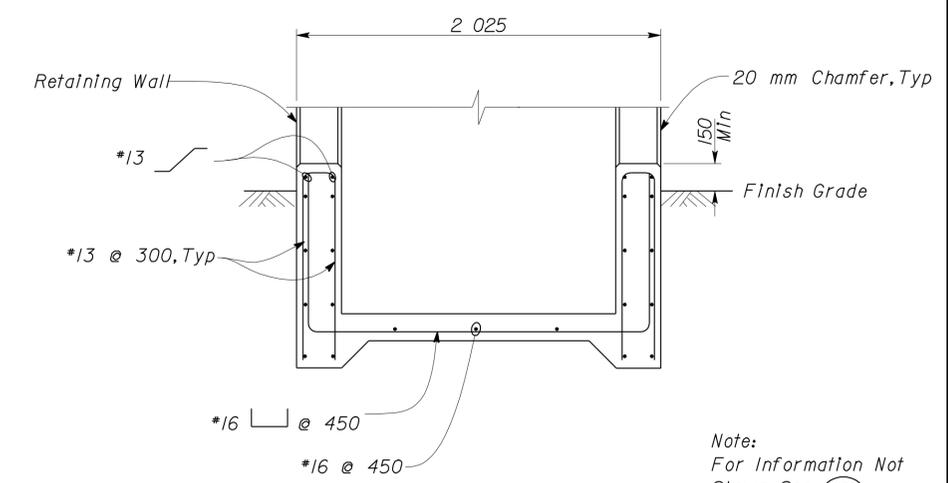
4 STAIR WITH RETAINING WALL SECTION
Scale 1:20



2 STAIR SECTION
Scale 1:20



3 LANDING SECTION
Scale 1:20



5 LANDING WITH RETAINING WALL SECTION
Scale 1:20

Note:
1. Handrail Not Shown
2. Stair Nose, See Arch.

Note:
For Information Not Shown, See **2**

Note:
For Information Not Shown, See **3**

DESIGN BY <i>Thomas Tong</i>	CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST1-4
				KM POST 12.8		
DETAILS BY <i>Daniel Harakh</i>	CHECKED <i>Thomas Tong</i>	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	CU 04 251 EA 0120T1	REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY	CHECKED				08-11-10 01-07-11 01-12-11 10-27-11 11-02-11 11-04-11	

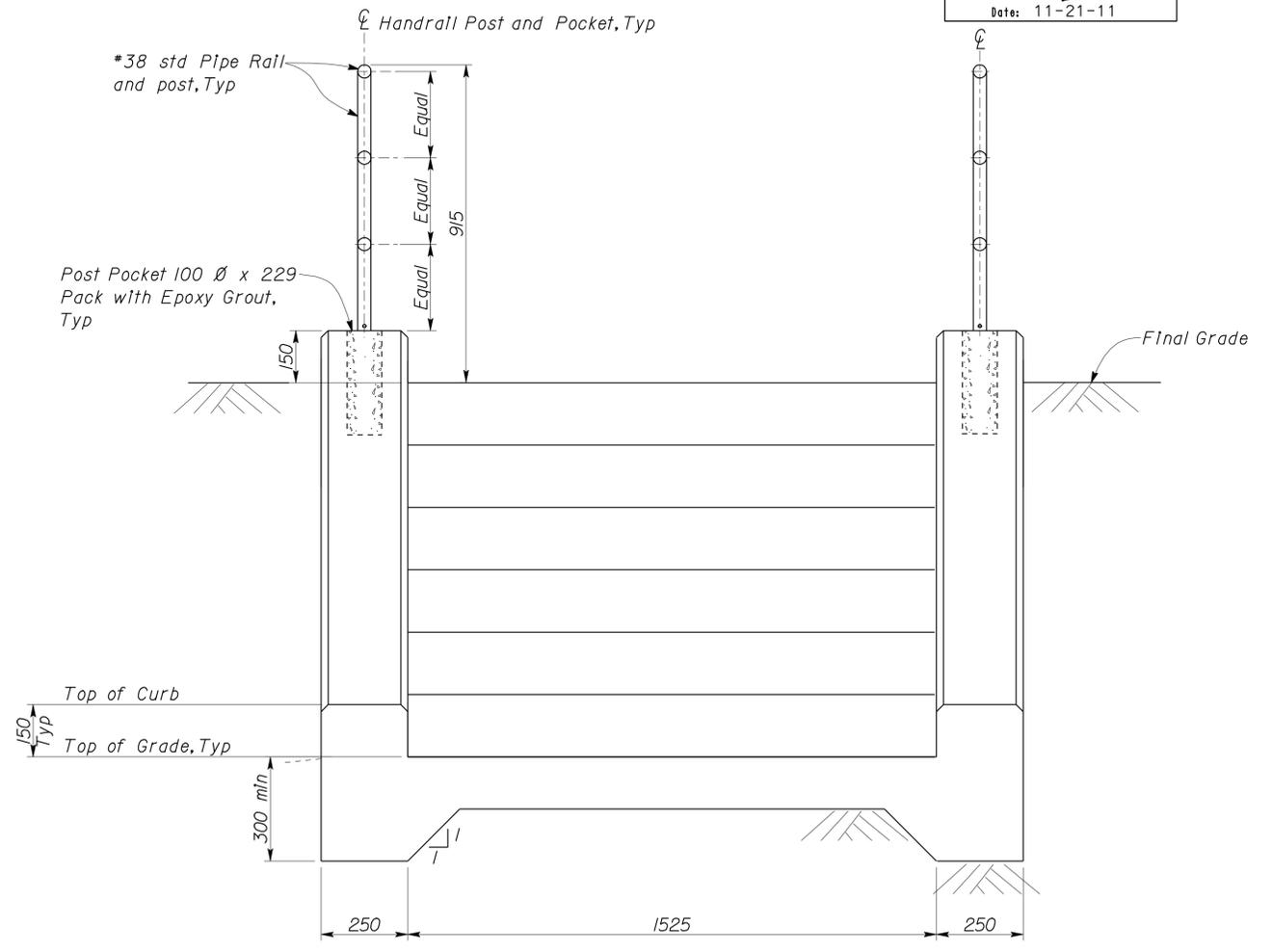
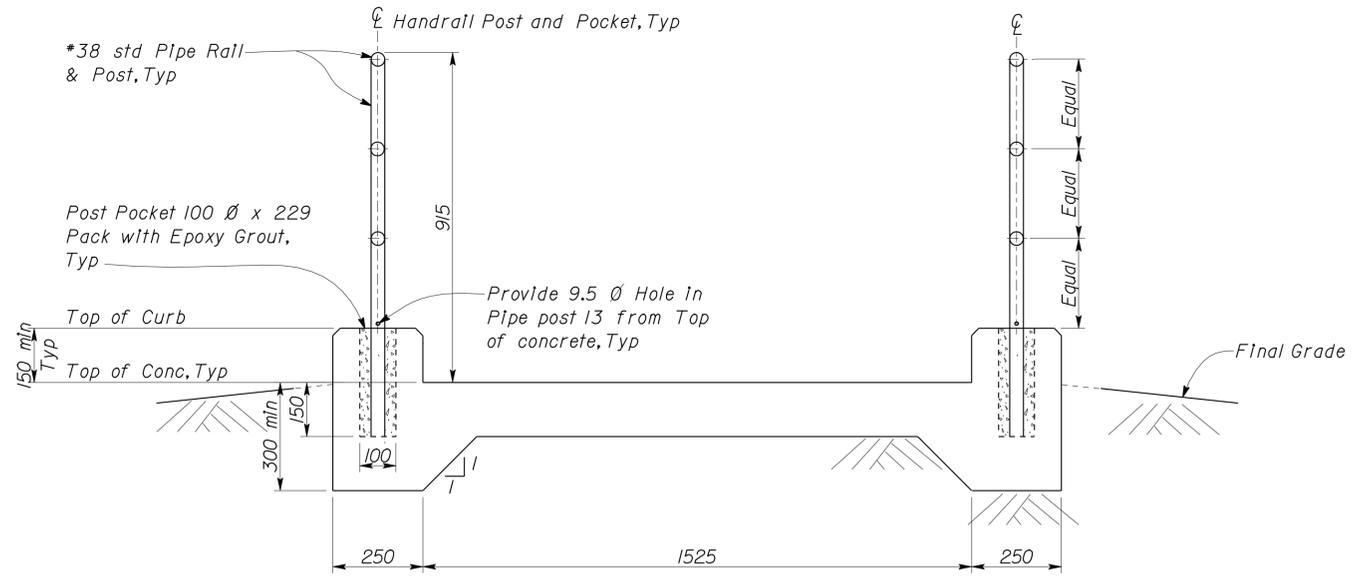


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	776	821

REGISTERED CIVIL ENGINEER	DATE
<i>Tom Tong</i>	11-7-11

PLANS APPROVAL DATE
2-21-12

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Note:
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1 TYPICAL HANDRAIL POST POCKET AT LANDING
Scale 1:10

Note:
For Items Not Shown or Noted See (3) ST1-4

2 TYPICAL HANDRAIL POST POCKET AT RETAINING WALL SECTION
Scale 1:10

Note:
For Items Not Shown or Noted See (1)

DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	UTILITY STAIRS	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTION AND DETAILS	SHEET OF ST1-5
			34-004			
DETAILS BY <i>Daniel Harakh</i> CHECKED <i>Thomas Tong</i>	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	KM POST	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY CHECKED			12.8	08-30-10 09-30-10 10-12-11 11-04-11		
DOES SD metric Rev. 9/02	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100		st1_05.dgn	

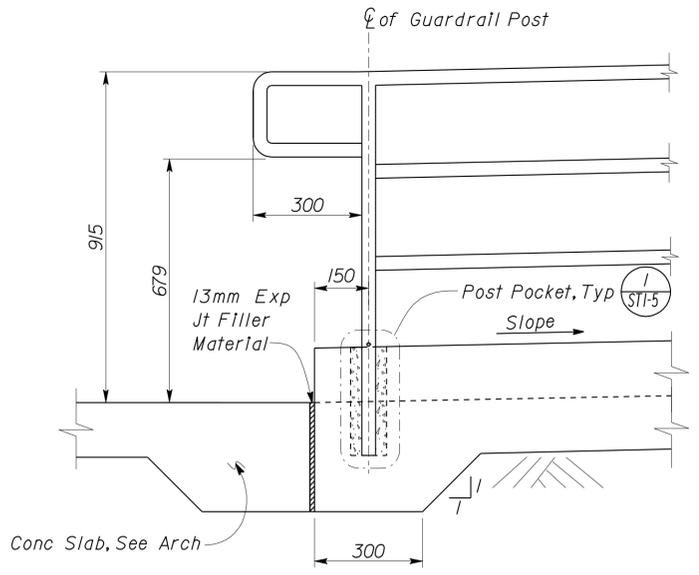


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	777	821

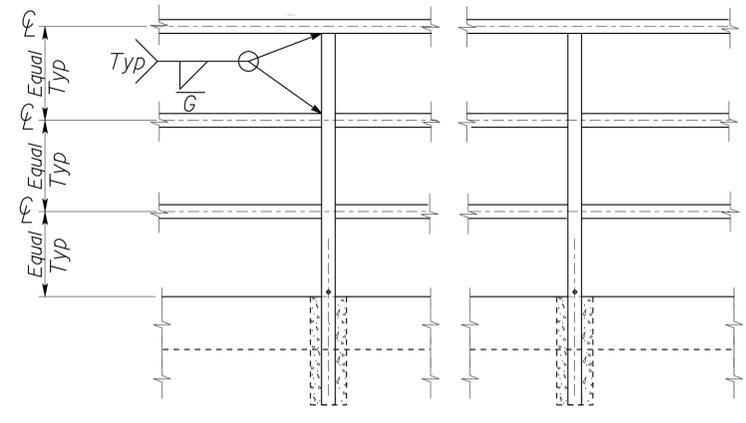
REGISTERED CIVIL ENGINEER	DATE	REGISTERED PROFESSIONAL ENGINEER
<i>Jonhson</i>	11-7-11	C. Tong
		No. 64543
		Exp. 6-30-13
		CIVIL
		STATE OF CALIFORNIA

2-21-12
PLANS APPROVAL DATE

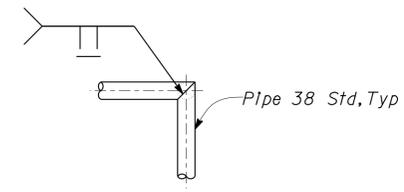
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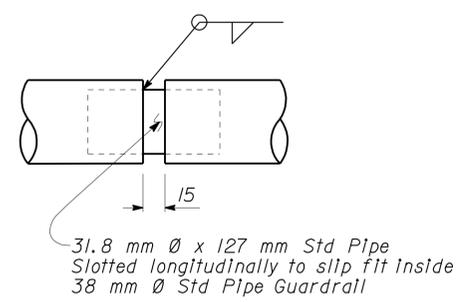
1 TYPICAL GUARDRAIL END SECTION
Scale 1:10



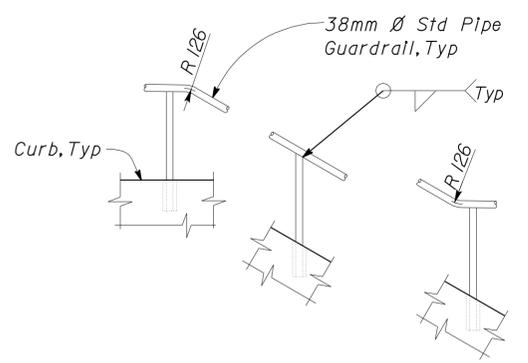
2 TYPICAL GUARDRAIL SECTION
Scale 1:10



3 PIPE RAIL MITER DETAIL
No Scale



4 EXPANSION JOINT DETAIL
No Scale



5 ACCESS STAIRWAY RAILING DETAILS
No Scale

Note
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DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET ST1-6
			KM POST 12.8	UTILITY STAIRS	HAND RAIL DETAILS	
			DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)
DETAILS BY <i>Dante Harakh</i> CHECKED <i>Thomas Tong</i>	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	CU 04 251 EA 0120T1		03-02-10 10-01-10 01-07-11 01-12-11 11-01-11 11-07-11	
QUANTITIES BY	DOES SD metric Rev. 9/02				27-FEB-2012 12:57 st1_06.dgn	

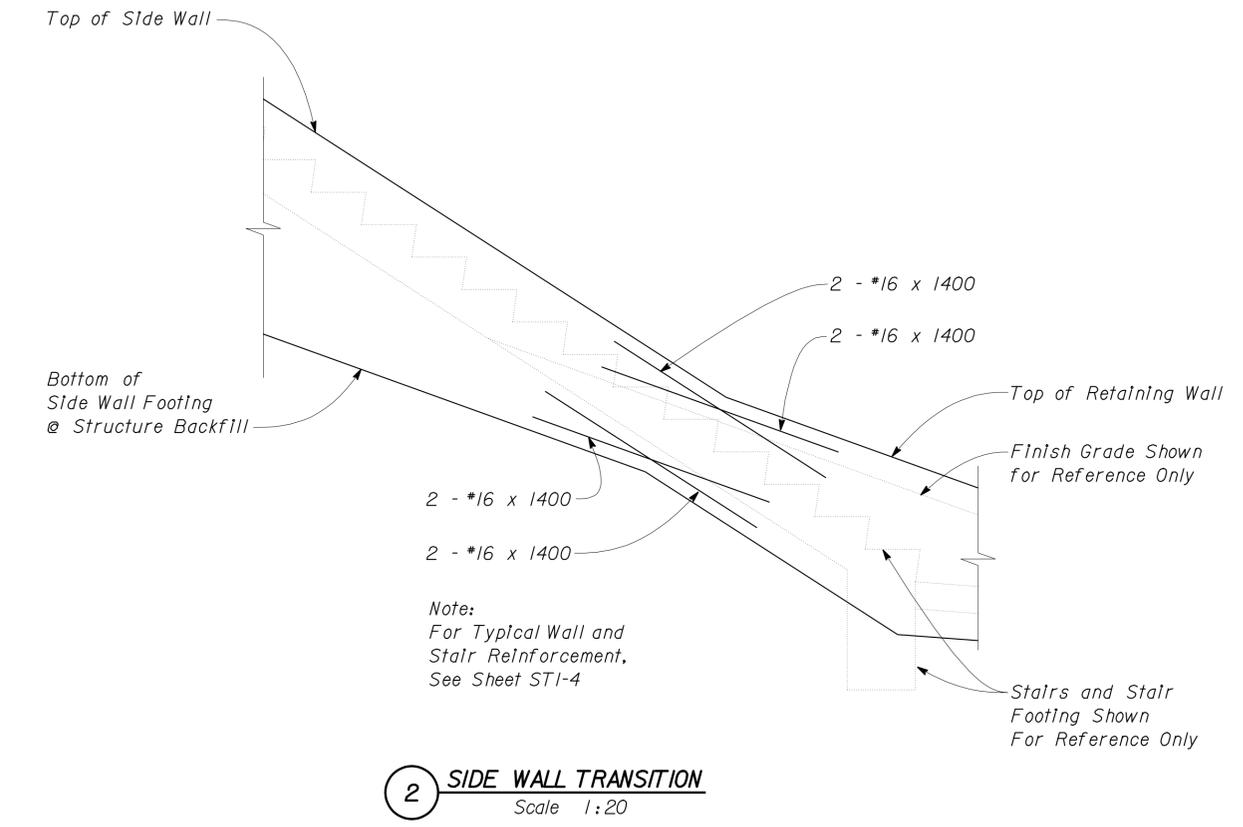
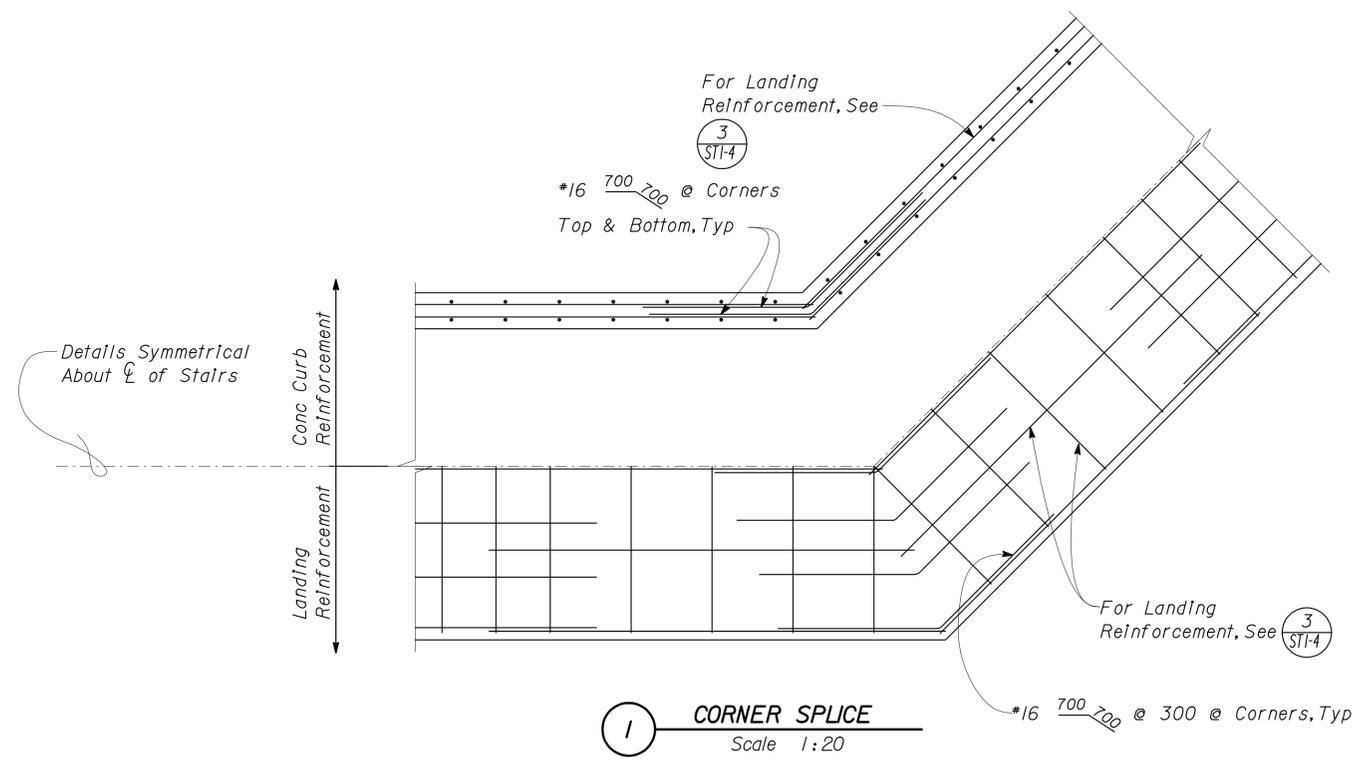
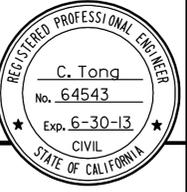


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	778	821

<i>Jonglun</i> REGISTERED CIVIL ENGINEER	11-7-11 DATE
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2-21-12 PLANS APPROVAL DATE

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DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES CONCRETE DETAILS	SHEET ST1-7
			KM POST 12.8		
			UTILITY STAIRS		
DETAILS BY <i>Dante Harakh</i> CHECKED <i>Thomas Tong</i>	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09-06-06 10-01-06 11-01-11	SHEET OF	
QUANTITIES BY CHECKED	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100	st1_07.dgn	



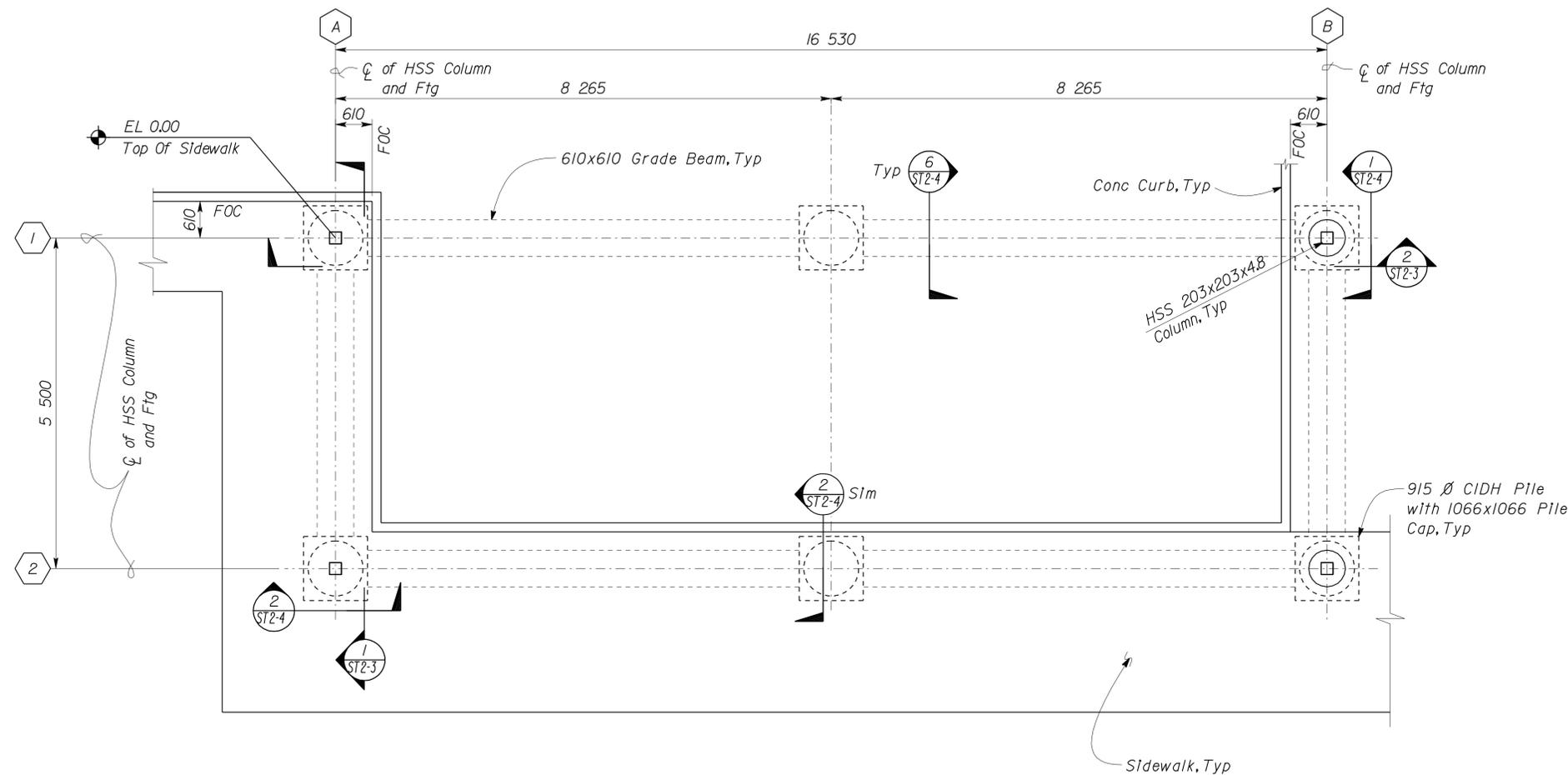
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	779	821

REGISTERED CIVIL ENGINEER	DATE	10-07-11
Edgardo A. Isidro		
No. 058507		
Exp. 12-31-12		
CIVIL		
STATE OF CALIFORNIA		

PLANS APPROVAL DATE	2-21-12
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1 FOUNDATION PLAN
Scale 1:50

Elevation +55.480 meters = Datum +0 mm
See Roadway Plans

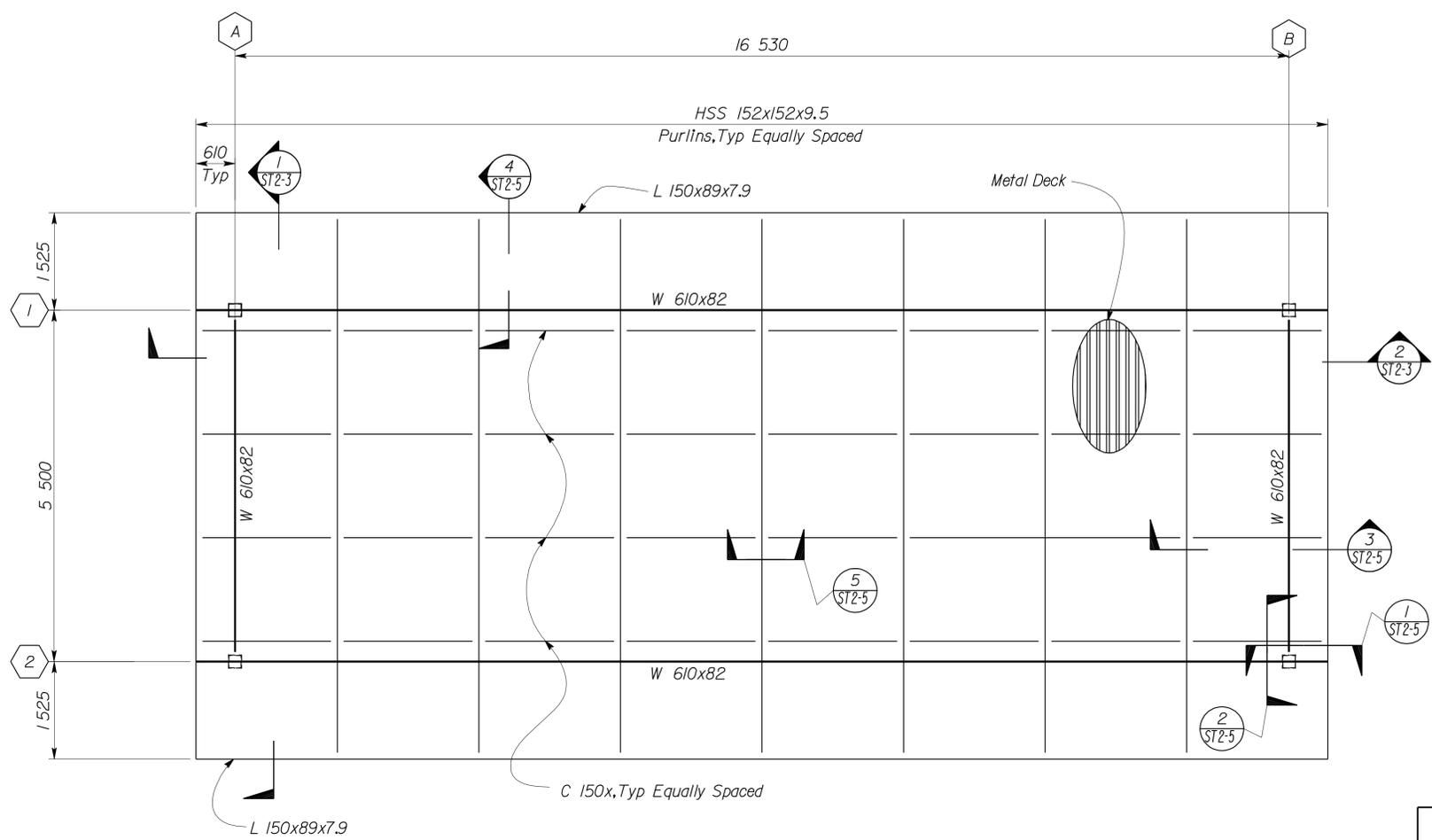
- A DESIGN NOTES**
1. Design: The building work on this project has been designed to conform to the 2010 California Building Code. (2009 IBC)
 - a. Loads :
 - Live Loads Roof = 958 Pa
 - Wind Speed : 136 km/h , Exposure "D"
 - Seismic: Occupancy Category = I
Importance Factor Site Soil = D (Assumed)
Site Soil Class = D (Assumed)
S_s = 1.5 S_{ps} = 1.0
S₁ = 0.6 S_{D1} = 0.6
Seismic Design Category = D
C_s = 0.29
 - b. Reinforced Concrete (Ultimate Strength Design) :
f'c = 21 MPa
f_y = 420 MPa (Epoxy Coated Rebar)
 - c. Structural Steel (Working Stress Design) :
f_y = 347 MPa
f_y = 317 MPa for HSS
 - d. Foundation :
Allowable Soil Pressure (DL + LL) : 71,900 Pa (assumed)

DESIGN BY <i>Edgardo Isidro</i>	CHECKED <i>Thomas Tong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST-2-1
				34-004		
DETAILS BY <i>Andrew A. Lovato</i>	CHECKED <i>Edgardo Isidro</i>	PROJECT NUMBER & PHASE 04000000271	3581	KM POST	PARKING CANOPY	CANOPY FOUNDATION PLAN
QUANTITIES BY	CHECKED			12.8		
TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	780	821
 REGISTERED CIVIL ENGINEER			10-07-11 DATE		
2-21-12 PLANS APPROVAL DATE					
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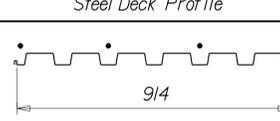
1 ROOF FRAMING PLAN
Scale 1:50

METAL DECK MINIMUM SECTION PROPERTIES

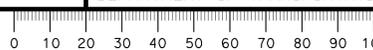
Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Decking	38.1 mm x 20 Ga	300 429 mm ⁴ /m	12 634 mm ³ /m	13 226 mm ³ /m	262 MPa

Note
Minimum 2 Span Condition

WELDING SCHEDULE and METAL DECK PROFILE

Steel Deck Profile	16 mm Diameter Puddle Weld		Stitch Weld	Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	Side Seam Weld	
	4 - Puddle Welds Per Support	305 mm OC	9.5 mm x 38.1 mm @ 305 mm	745 N/m

A METAL DECK NOTES

DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST 2-2
			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-15-11 05-02-11 06-23-11 08-11-11 10-04-11

25-FEB-2012 11:30 s12_02.dgn

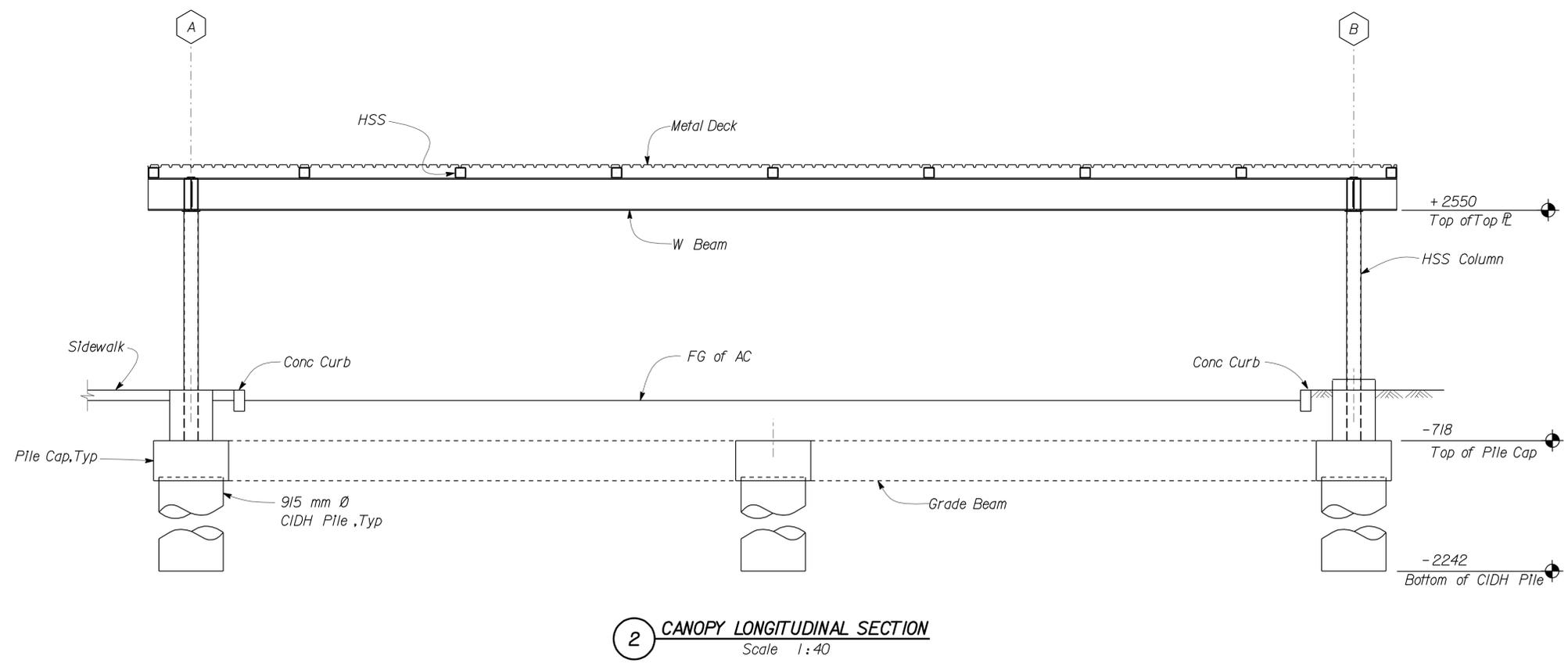
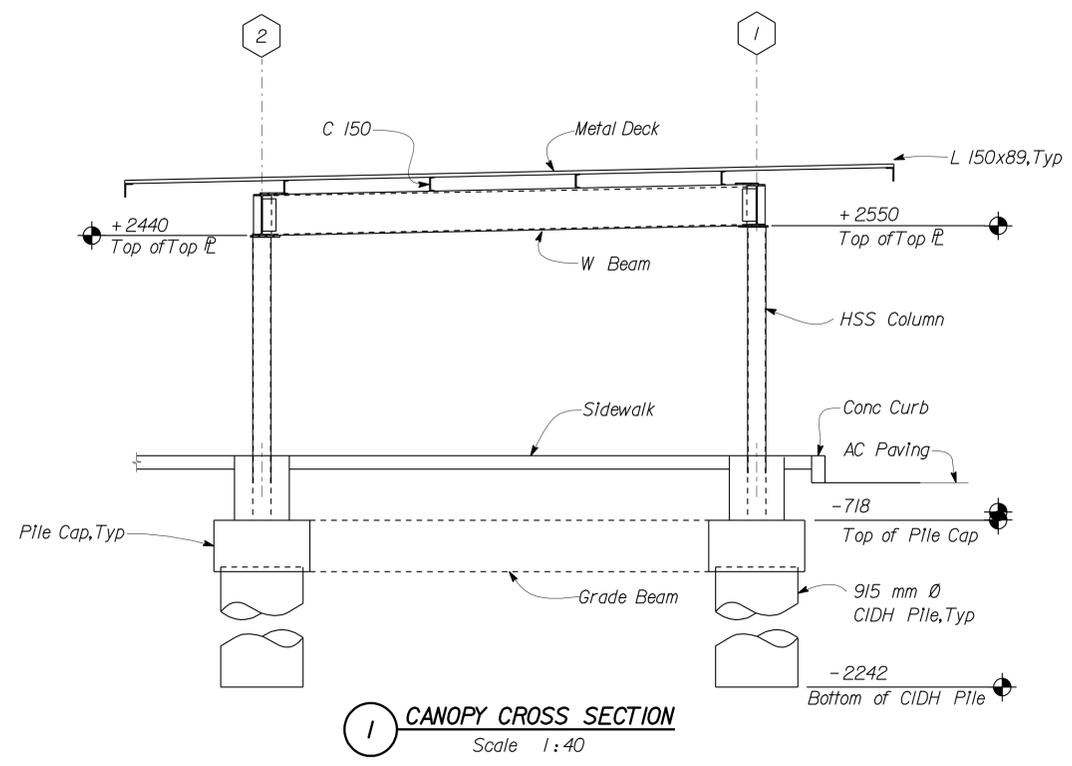


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	781	821

<i>E. Isidro</i>	10-07-11
REGISTERED CIVIL ENGINEER	DATE

2-21-12
PLANS APPROVAL DATE

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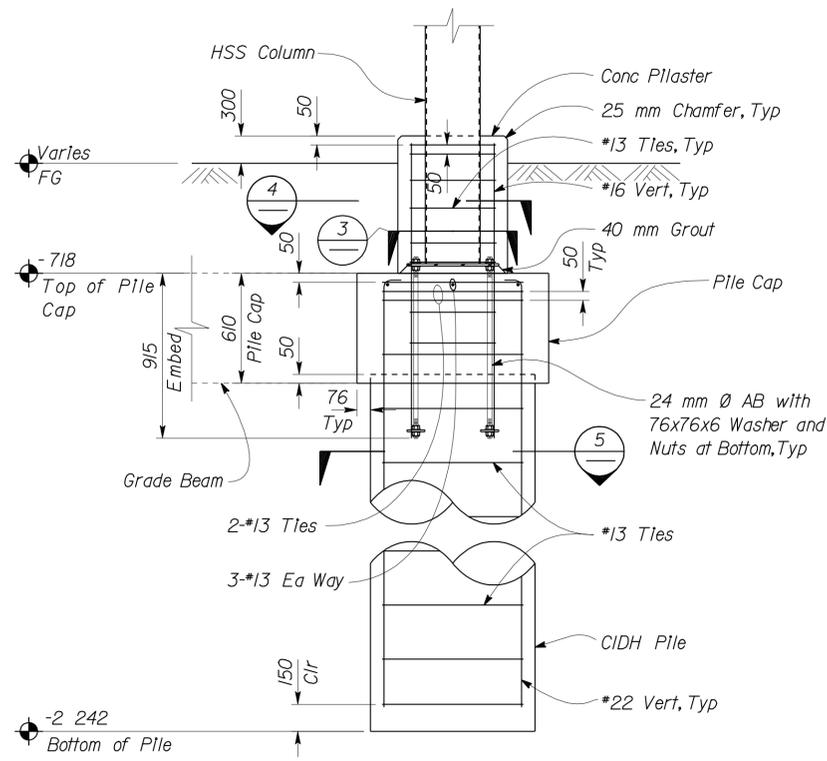


DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST2-3				
			KM POST 12.8			PARKING CANOPY	CANOPY SECTIONS		
DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i>	UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)						
QUANTITIES BY _____ CHECKED _____	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	05-08-11	06-23-11	08-12-11	10-05-11	10-17-11	11-04-11	SHEET OF

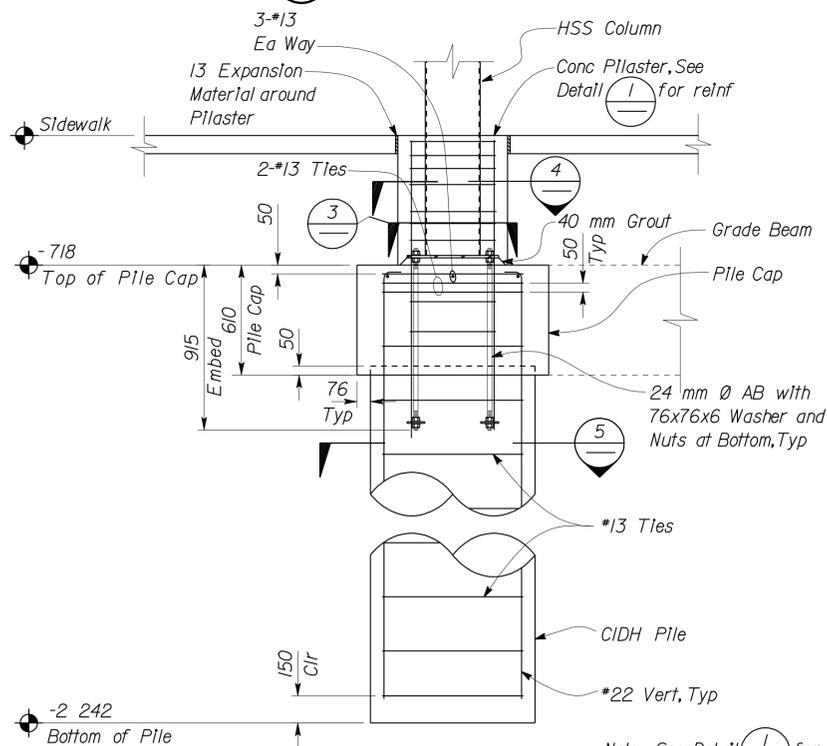


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	782	821

REGISTERED CIVIL ENGINEER	DATE 10-07-11
2-21-12 PLANS APPROVAL DATE	
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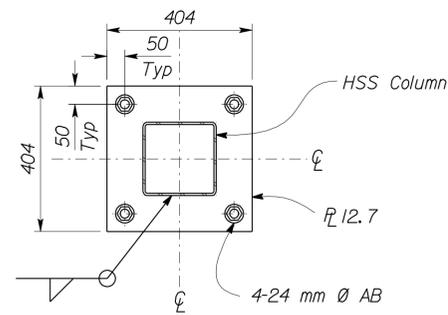


1 COLUMN/CIDH PILE
Scale 1:20

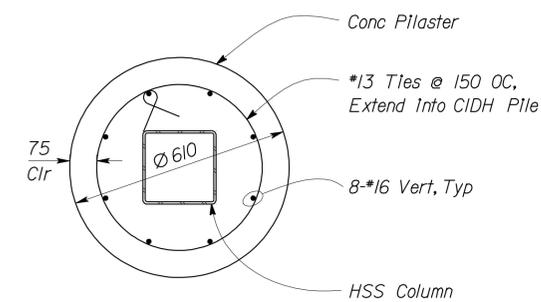


2 COLUMN/CIDH PILE
Scale 1:20

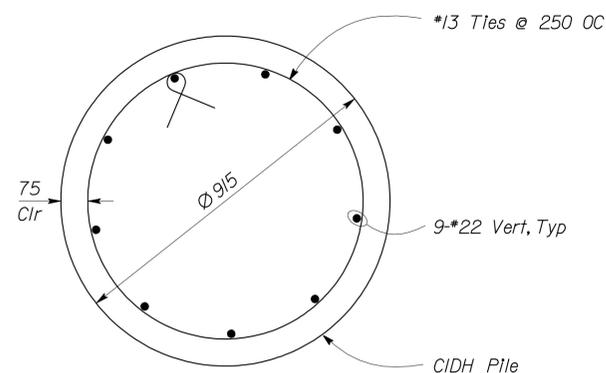
Note See Detail 1 for Info not shown



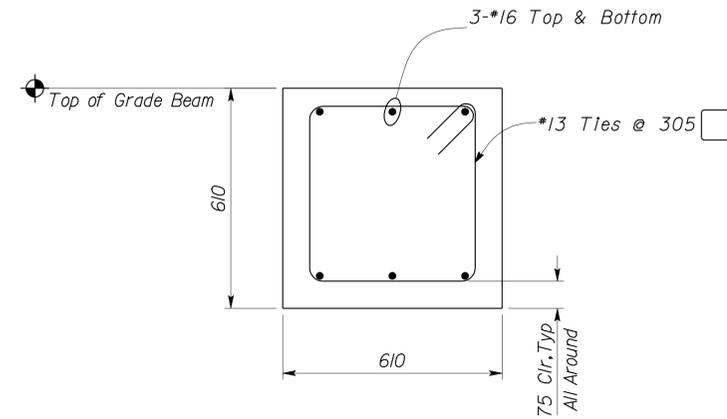
3 BASE PLATE
Scale 1:10



4 PILASTER SECTION
Scale 1:10



5 CIDH PILE SECTION
Scale 1:10



6 GRADE BEAM
Scale 1:10

DESIGN	BY Edgardo Isidro	CHECKED Thomas Tong
DETAILS	BY Andrew A. Lovato	CHECKED Edgardo Isidro
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND
TRANSITION STRUCTURES
PARKING CANOPY
COLUMN FOOTING DETAILS

SHEET OF
ST 2-4

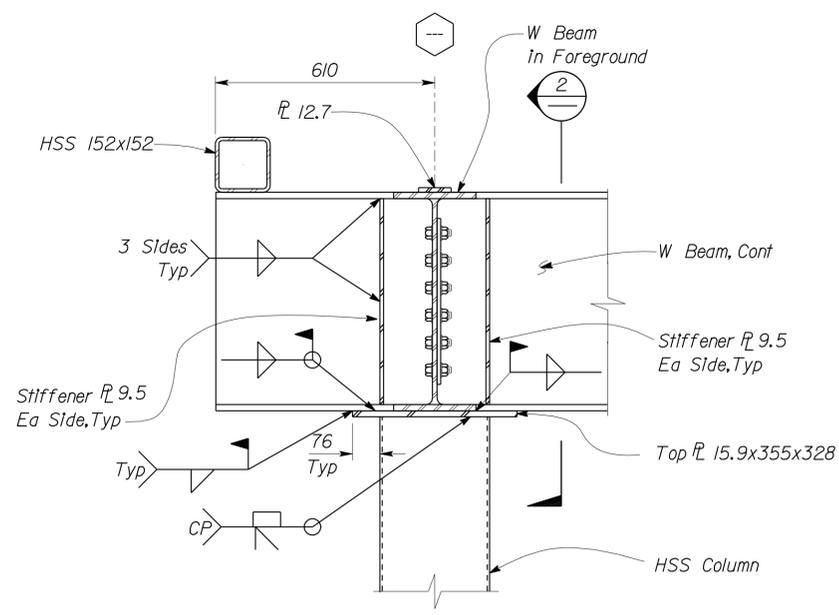




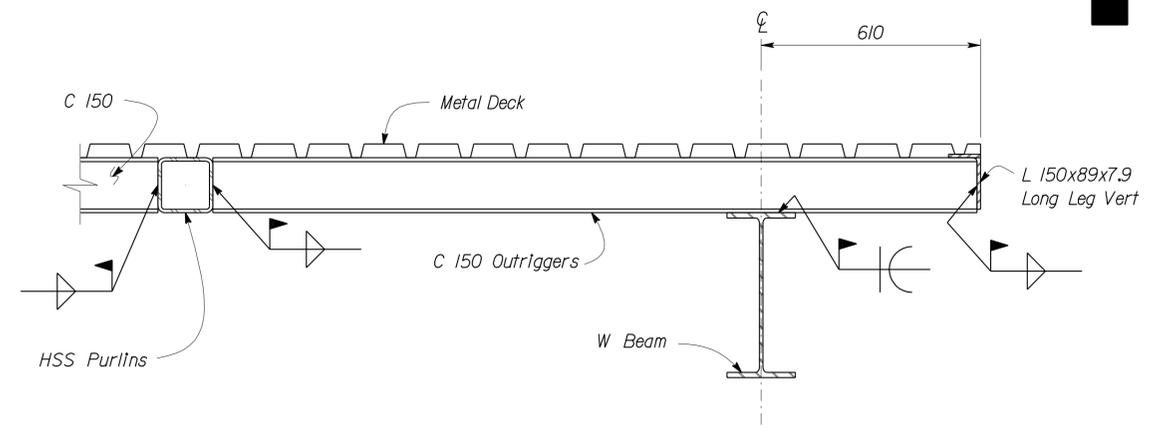
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	783	821

REGISTERED CIVIL ENGINEER	DATE	10-07-11
Edgardo A. Isidro No. 058507 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
2-21-12		
PLANS APPROVAL DATE		

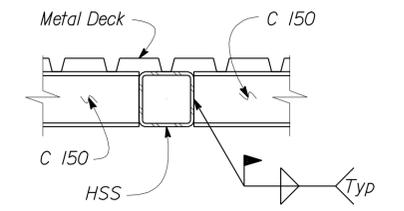
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



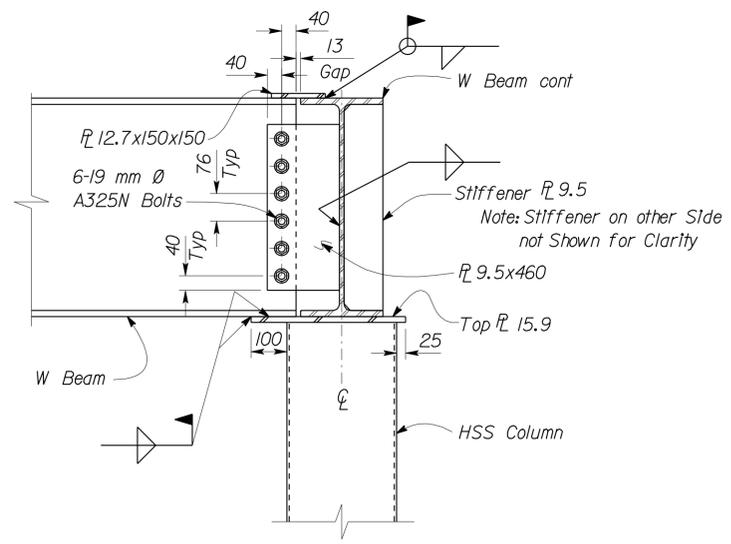
1 CONNECTION DETAIL
Scale 1:10



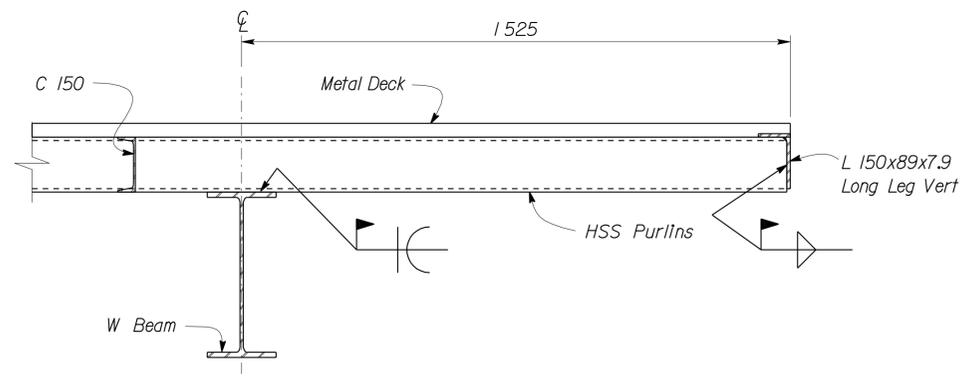
3 ROOF FRAME SECTION
Scale 1:10



5 CONNECTION DETAIL
Scale 1:10



2 CONNECTION DETAIL
Scale 1:10



4 ROOF FRAME SECTION
Scale 1:10

DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST 2-5
			KM POST 12.8		
DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i>	UNIT PROJECT NUMBER & PHASE 3581 04000000271		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY CHECKED	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		DISREGARD PRINTS BEARING EARLIER REVISION DATES		OF

25-FEB-2012 11:30 s12_05.dgn

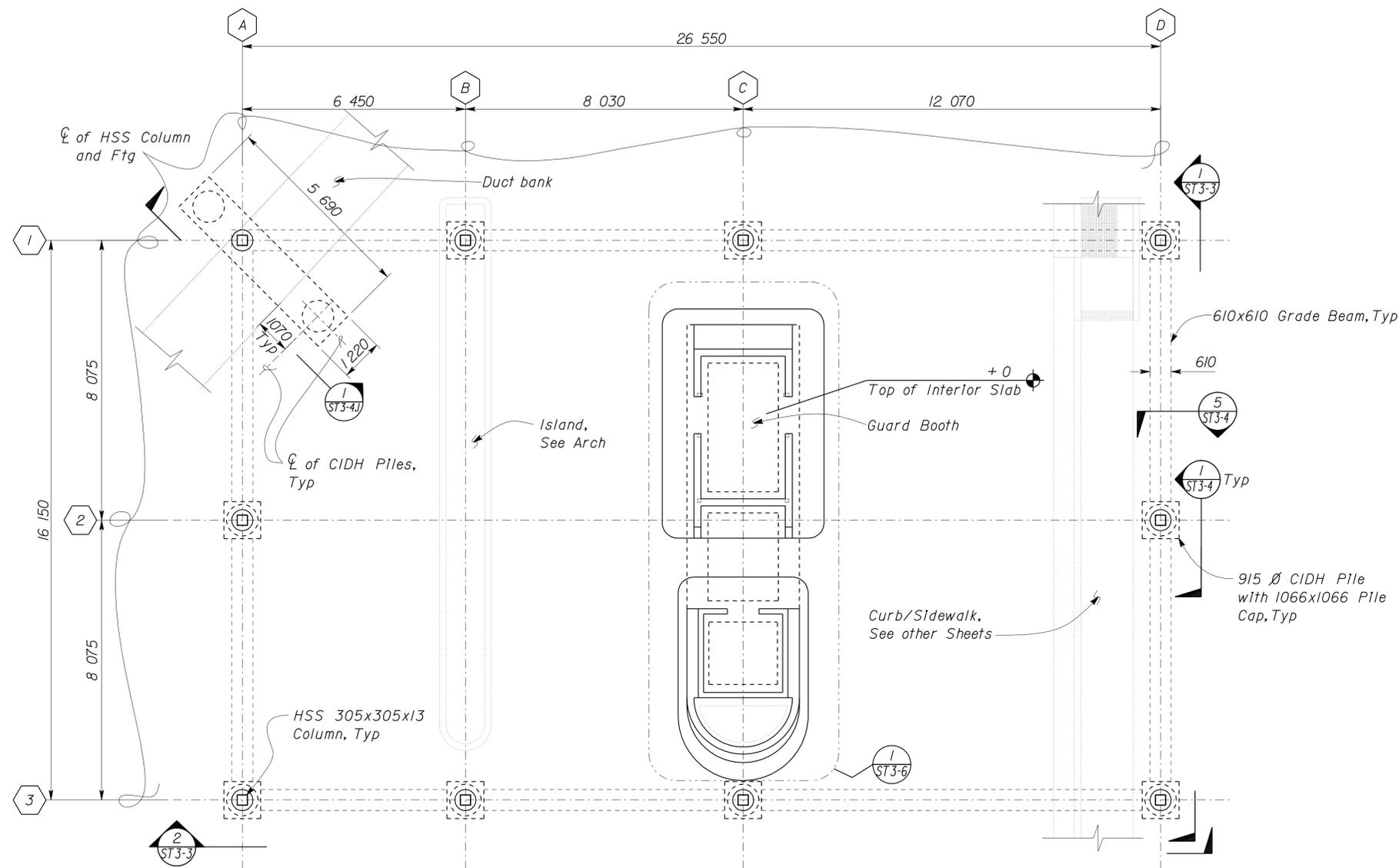


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	784	821

		01-19-12
REGISTERED CIVIL ENGINEER	DATE	

2-21-12
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.



- A DESIGN NOTES**
1. Design: The building work on this project has been designed to conform to the 2010 California Building Code. (2009 IBC)
 - a. Loads :
 - Live Loads Roof = 958 Pa
 - Wind Speed : 136 km/h , Exposure "D"
 - Seismic: Occupancy Category = I
 - Importance Factor Site Soil= D (Assumed)
 - Site Soil Class = D (Assumed)
 - S_s = 1.5 S_{ds} = 1.0
 - S_i = 0.6 S_{d1} = 0.6
 Seismic Design Category = D
C_s = 0.29
 - b. Reinforced Concrete (Ultimate Strength Design) :
 - f'c = 21 MPa
 - f_y = 420 MPa (Epoxy Coated Rebar)
 - c. Structural Steel (Working Stress Design) :
 - f_y = 347 MPa
 - f_y = 317 MPa for HSS
 - d. Foundation :
 - Allowable Soil Pressure (DL + LL) : 71,900 Pa (assumed)

1 CANOPY FOUNDATION PLAN
Scale 1:80

Elevation +7.877 meters = Datum 0 mm
See Roadway Plans



DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES CANOPY PLAN	SHEET OF ST3-1
			KM POST 12.8		GUARD BOOTH CANOPY
TAEMWW Imperial Rev. 7/10 SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF EA 012011 st3_01.dgn

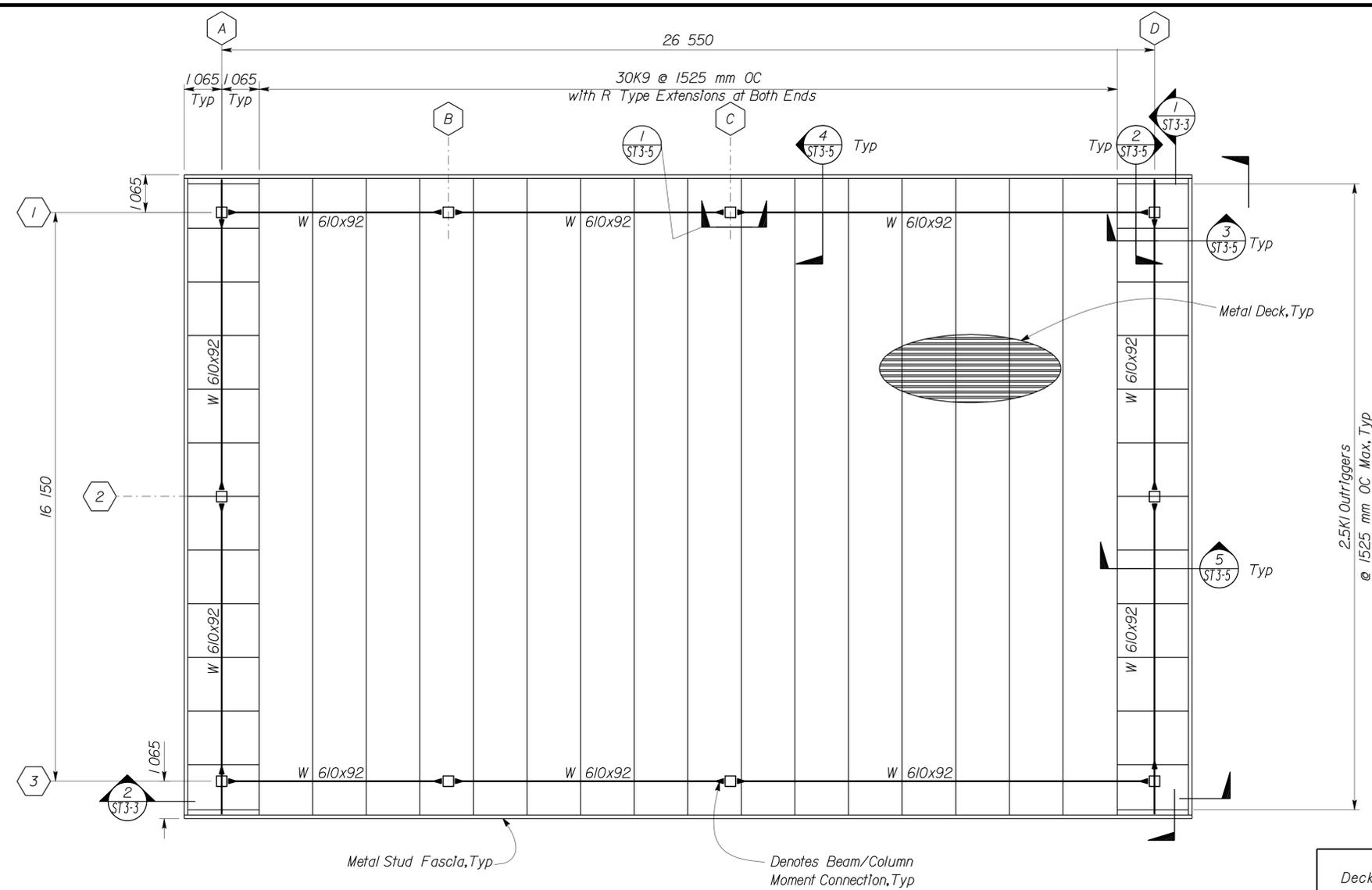


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	785	821

		01-19-12
REGISTERED CIVIL ENGINEER	DATE	

2-21-12
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.



1 CANOPY ROOF FRAMING PLAN
Scale 1:80



METAL DECK MINIMUM SECTION PROPERTIES

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Decking	38.1 mm x 20 Ga	300 429 mm ⁴ /m	12 634 mm ³ /m	13 226 mm ³ /m	262 MPa

Note
Minimum 2 Span Condition

WELDING SCHEDULE and METAL DECK PROFILE

Steel Deck Profile	16 mm Diameter Puddle Weld	Stitch Weld	Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Parallel Supports	745 N/m
	4 - Puddle Welds Per Support	305 mm OC	

A METAL DECK NOTES

TAEMWW Imperial Rev. 7/10 SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	GUARD BOOTH CANOPY YERBA BUENA ISLAND TRANSITION STRUCTURES CANOPY ROOF FRAME	SHEET OF ST3-2
	UNIT PROJECT NUMBER & PHASE 3581 04000000271 EA 012011	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 04-15-11 08-09-11 08-10-11 09-28-11	SHEET OF		

25-FEB-2012 11:30 s13_02.dgn



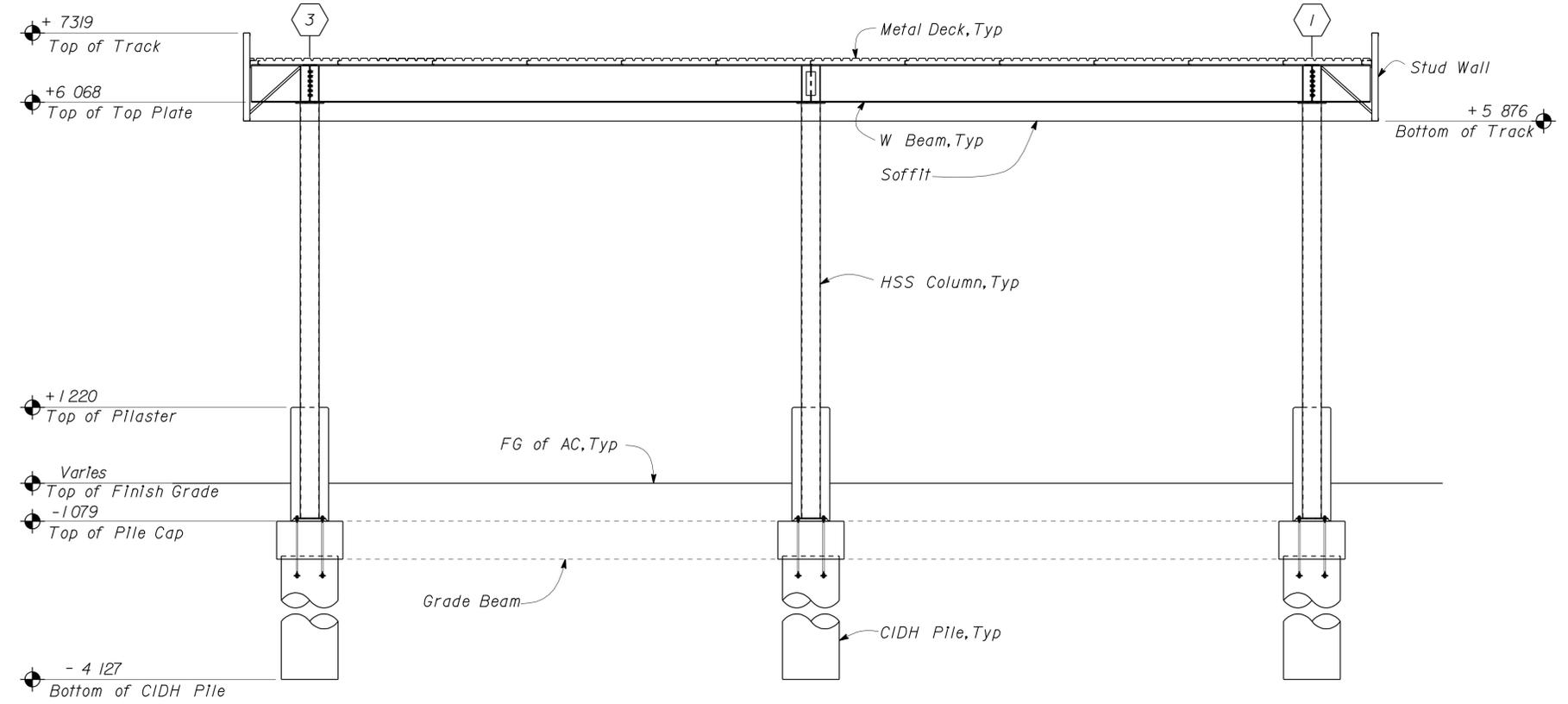
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04	SF	80	12.6/13.9	786	821

Edgardo A. Isidro		01-19-12
REGISTERED CIVIL ENGINEER	DATE	

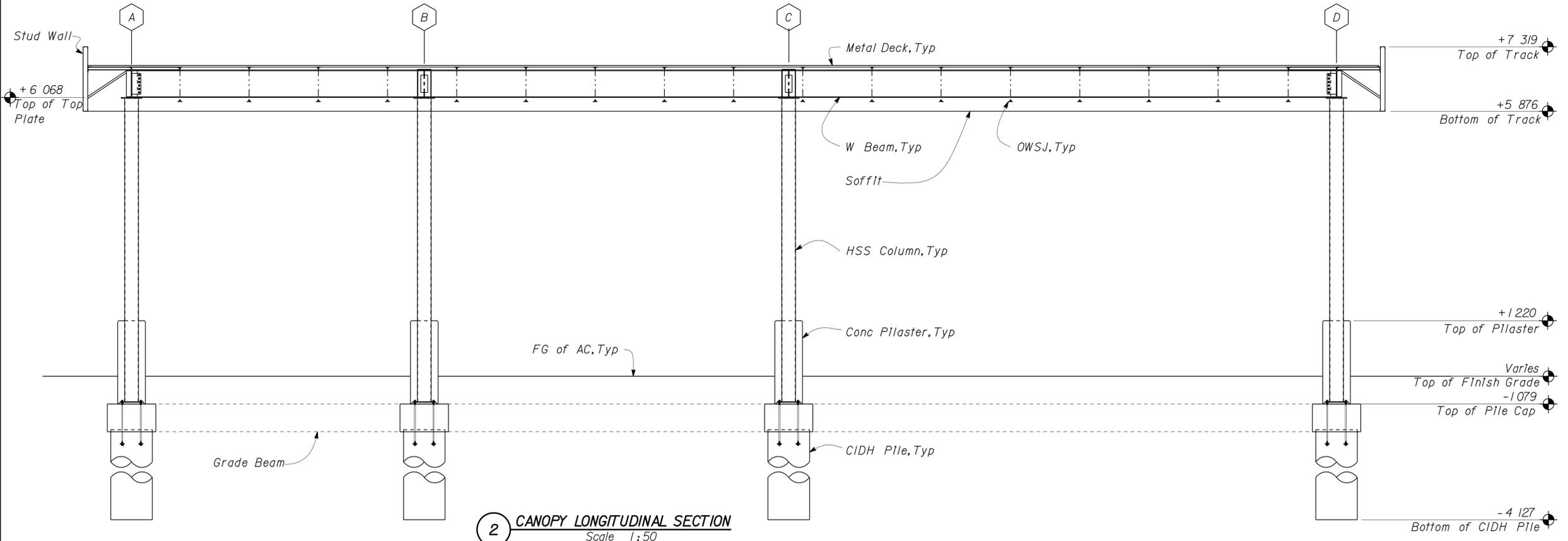
Edgardo A. Isidro	
No. 058507	
Exp. 12-31-12	
CIVIL	
STATE OF CALIFORNIA	

2-21-12
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.



1 CANOPY CROSS SECTION
Scale 1:50



2 CANOPY LONGITUDINAL SECTION
Scale 1:50

DESIGN	BY Edgardo Isidro	CHECKED Thomas Tong
DETAILS	BY Andrew A. Lovato	CHECKED Edgardo Isidro
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

GUARD BOOTH CANOPY
YERBA BUENA ISLAND TRANSITION STRUCTURES
CANOPY SECTIONS

SHEET **ST3-3** OF

TAEMWW Imperial Rev. 7/10

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE
3581 04000000271

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
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SHEET OF

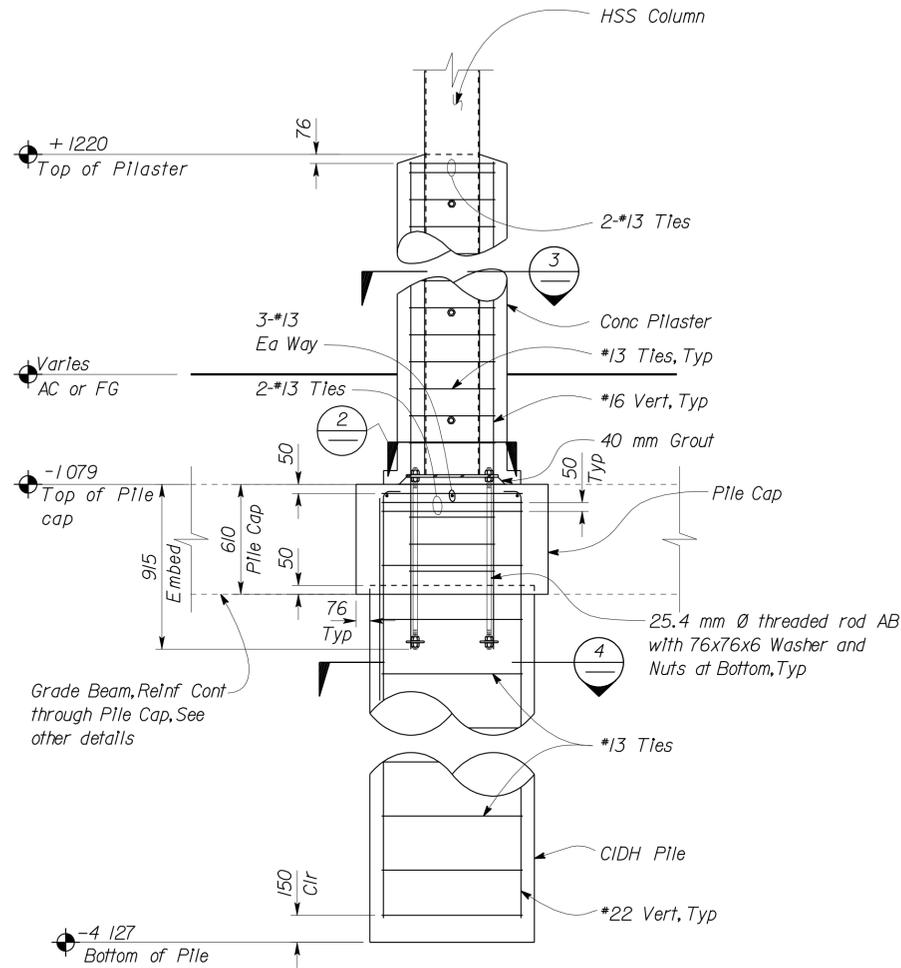


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	787	821

		01-19-12
REGISTERED CIVIL ENGINEER	DATE	

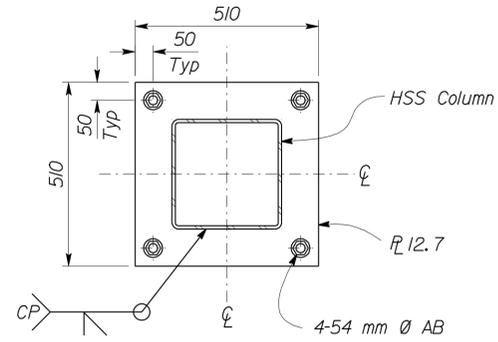
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PLANS APPROVAL DATE	

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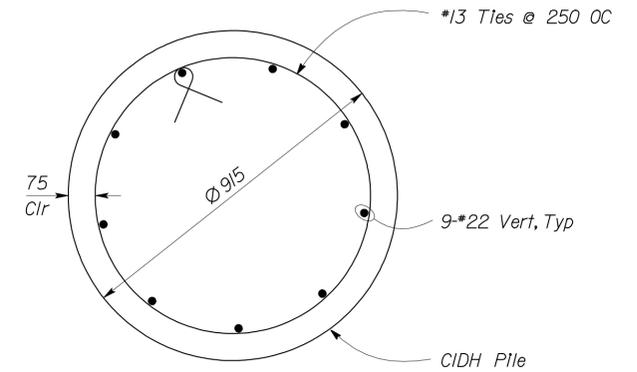


Note: For info not shown, see 1 ST3-4J

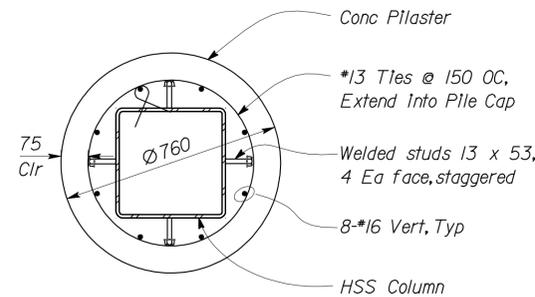
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Scale 1:20



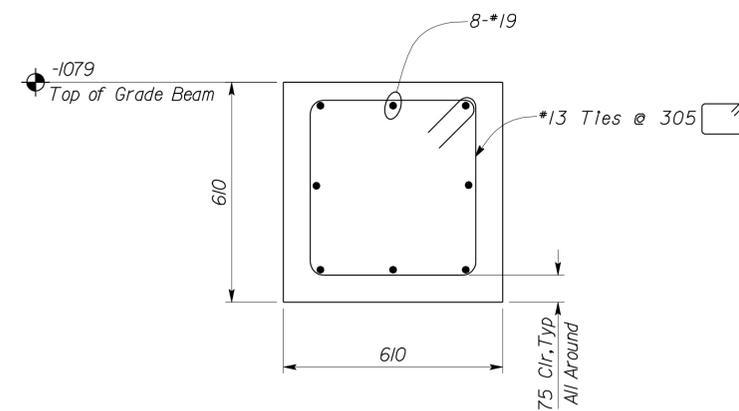
2 BASE PLATE
Scale 1:10



4 CIDH PILE SECTION
Scale 1:10



3 PILASTER SECTION
Scale 1:10



5 GRADE BEAM
Scale 1:10

DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF ST3-4
			KM POST 12.8	GUARD BOOTH CANOPY COLUMN FOOTING DETAILS		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
TAEMWW Imperial Rev. 7/10		UNIT PROJECT NUMBER & PHASE 3581 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		

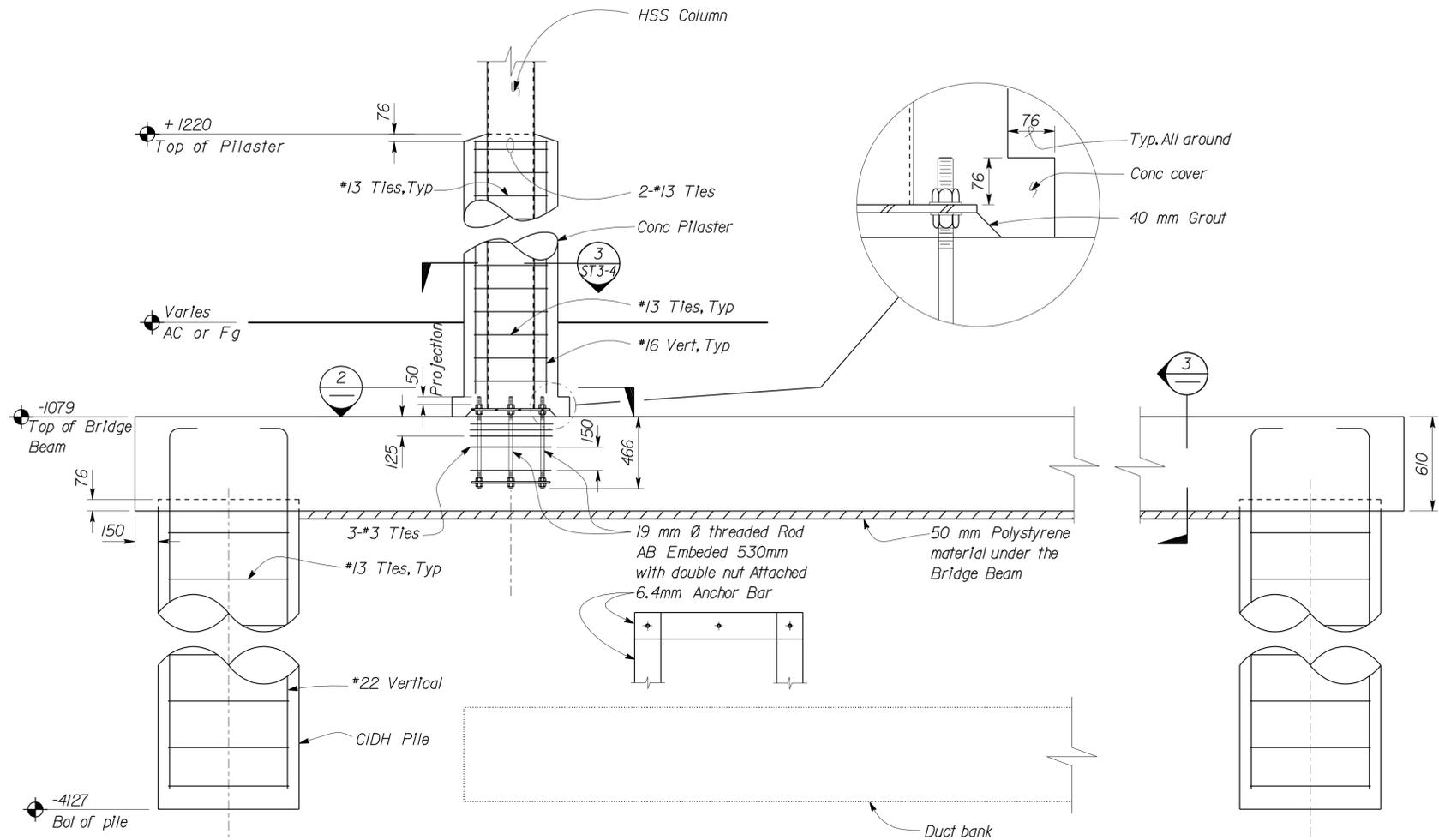
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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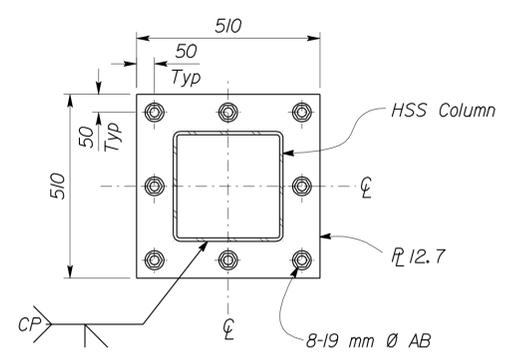
Edgardo A. Isidro
 REGISTERED CIVIL ENGINEER
 DATE 01-19-12
 PLANS APPROVAL DATE 2-21-12

Edgardo A. Isidro
 No. 058507
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

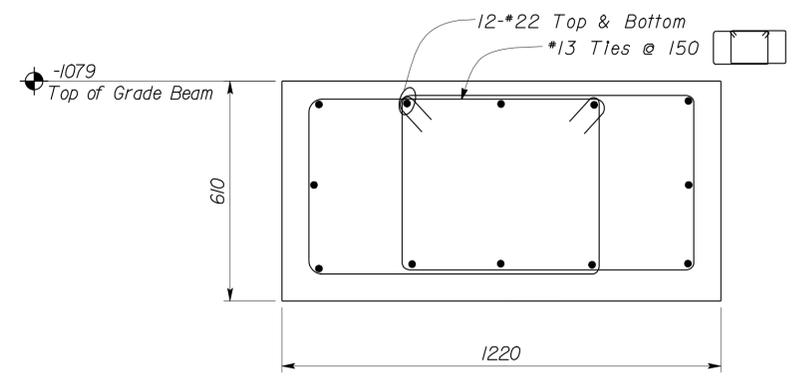


For Info not shown, See 1 ST3-4

1 COLUMN FOOTING DETAIL
Scale 1:20



2 BASE PLATE
Scale 1:10



3 BRIDGE BEAM
Scale 1:10

DESIGN	BY Edgardo Isidro	CHECKED Thomas Tong
DETAILS	BY Andrew A. Lovato	CHECKED Edgardo Isidro
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND
TRANSITION STRUCTURES
GUARD BOOTH CANOPY
COLUMN FOOTING DETAILS

SHEET OF
ST3-4.1

TAEMWW Imperial Rev. 7/10

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS



UNIT PROJECT NUMBER & PHASE 3581 04000000271

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	
01-12-12	

SHEET OF

27-FEB-2012 13:05

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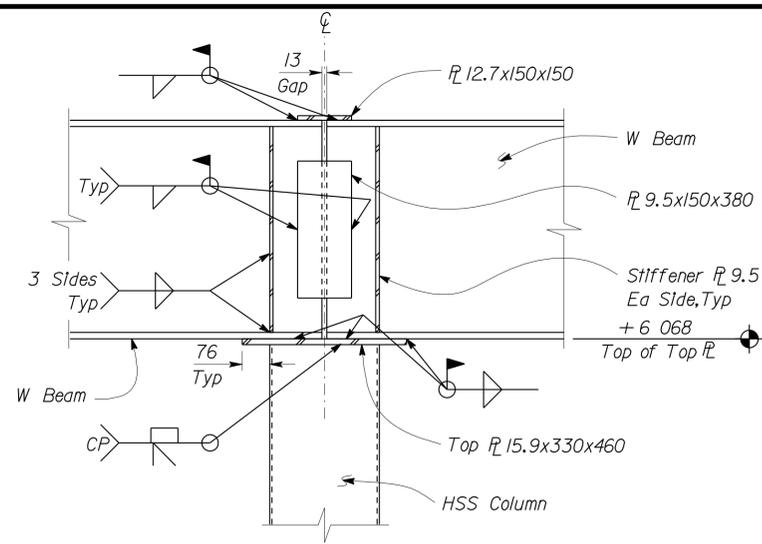


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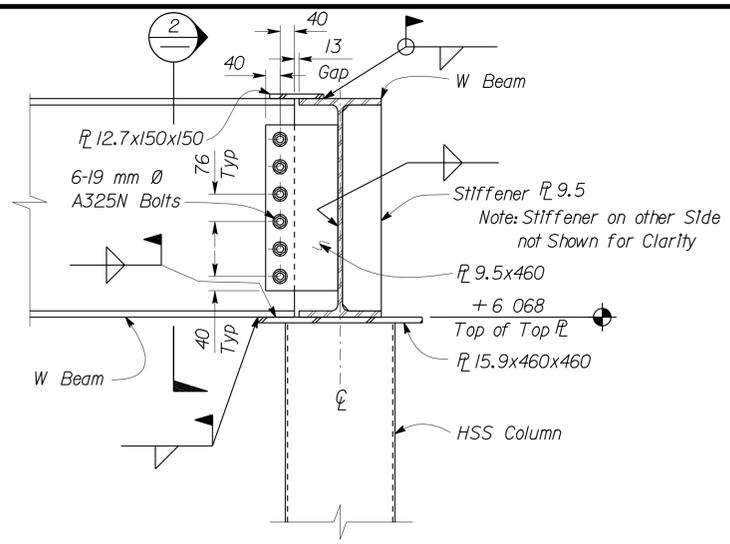
REGISTERED CIVIL ENGINEER		DATE	
Edgardo A. Isidro		11-07-11	
No. 058507		Exp. 12-31-12	
CIVIL		STATE OF CALIFORNIA	

2-21-12
PLANS APPROVAL DATE

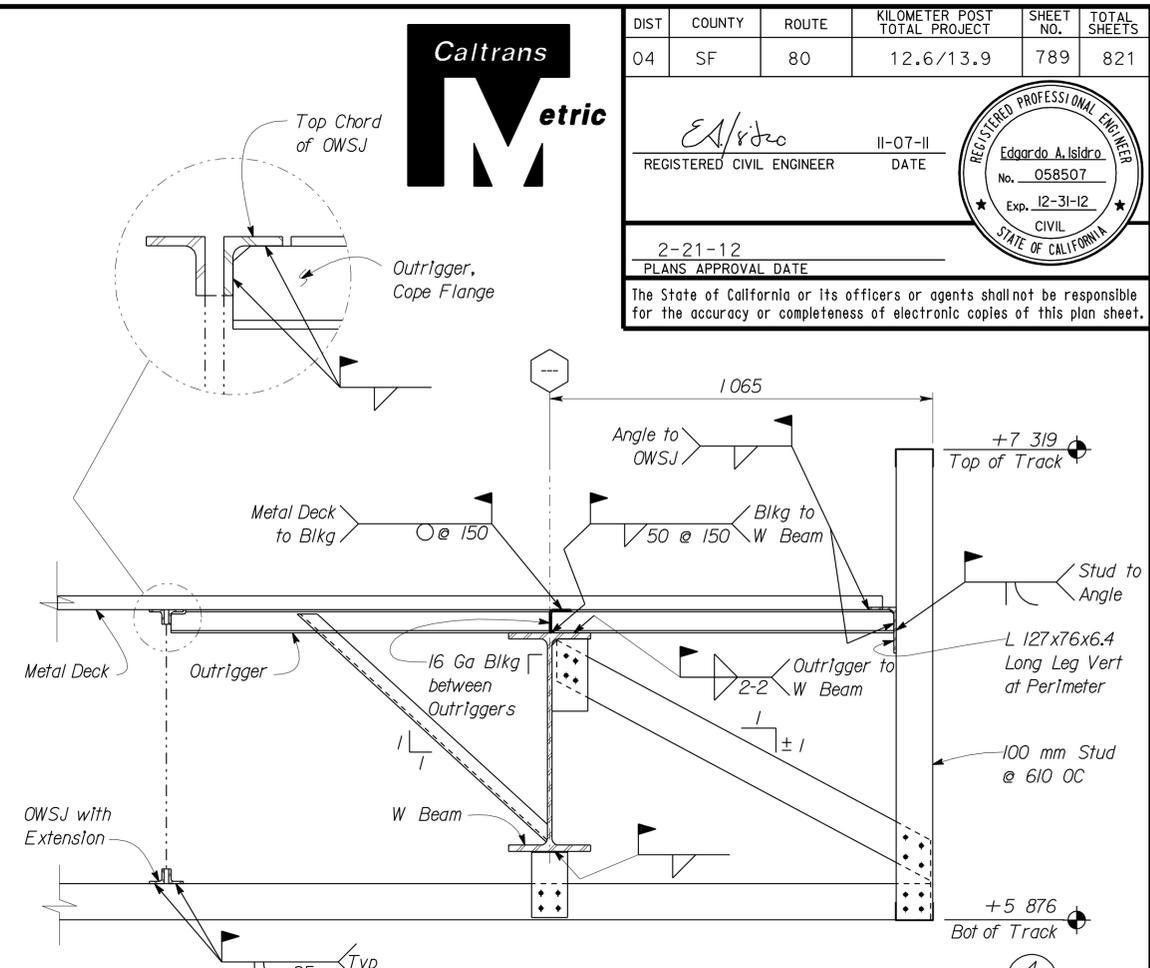
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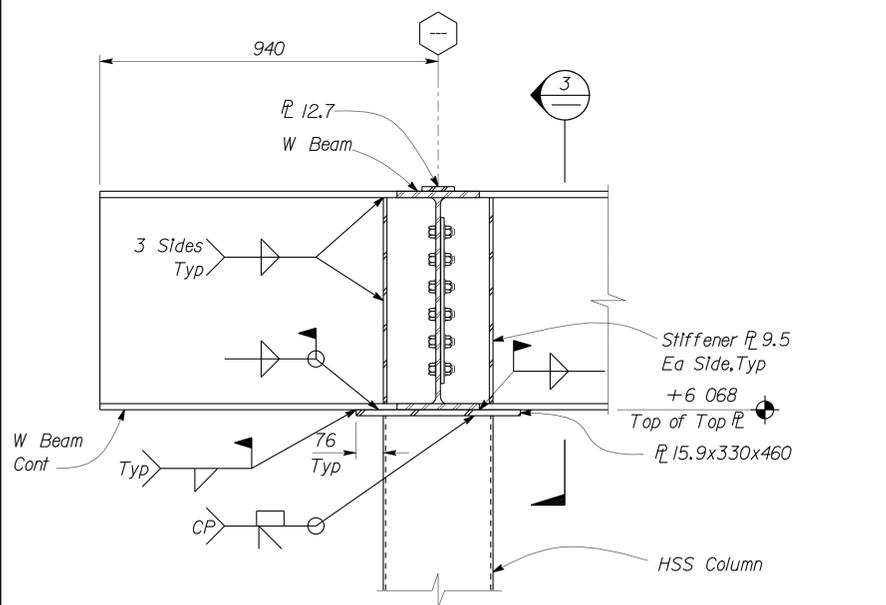
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Scale 1:10



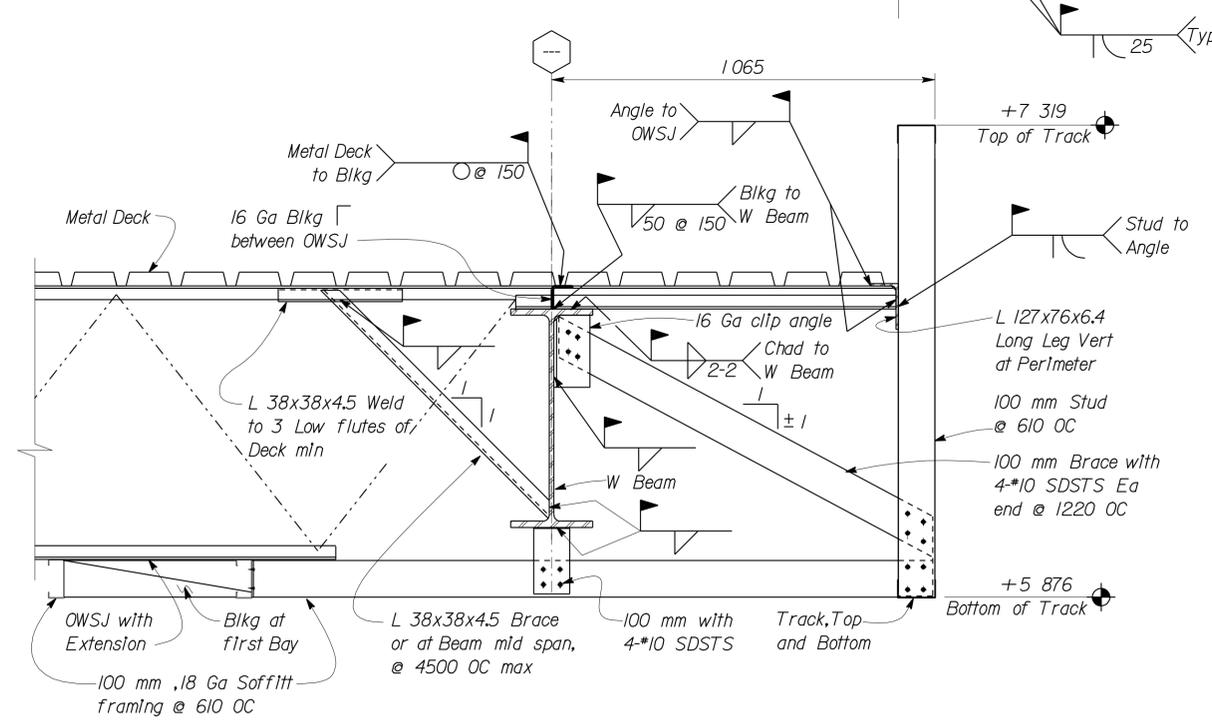
3 CONNECTION DETAIL
Scale 1:10



5 OUTRIGGER DETAIL
Scale 1:10



2 CONNECTION DETAIL
Scale 1:10



4 OWSJ TO W BEAM
Scale 1:10

DESIGN BY <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF
			34-004	ROOF FRAME DETAILS		
DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Edgardo Isidro</i>	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	KM POST	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
QUANTITIES BY CHECKED			12.8	04-28-11 06-24-11 08-12-11 09-27-11		
UNIT PROJECT NUMBER & PHASE 3581 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

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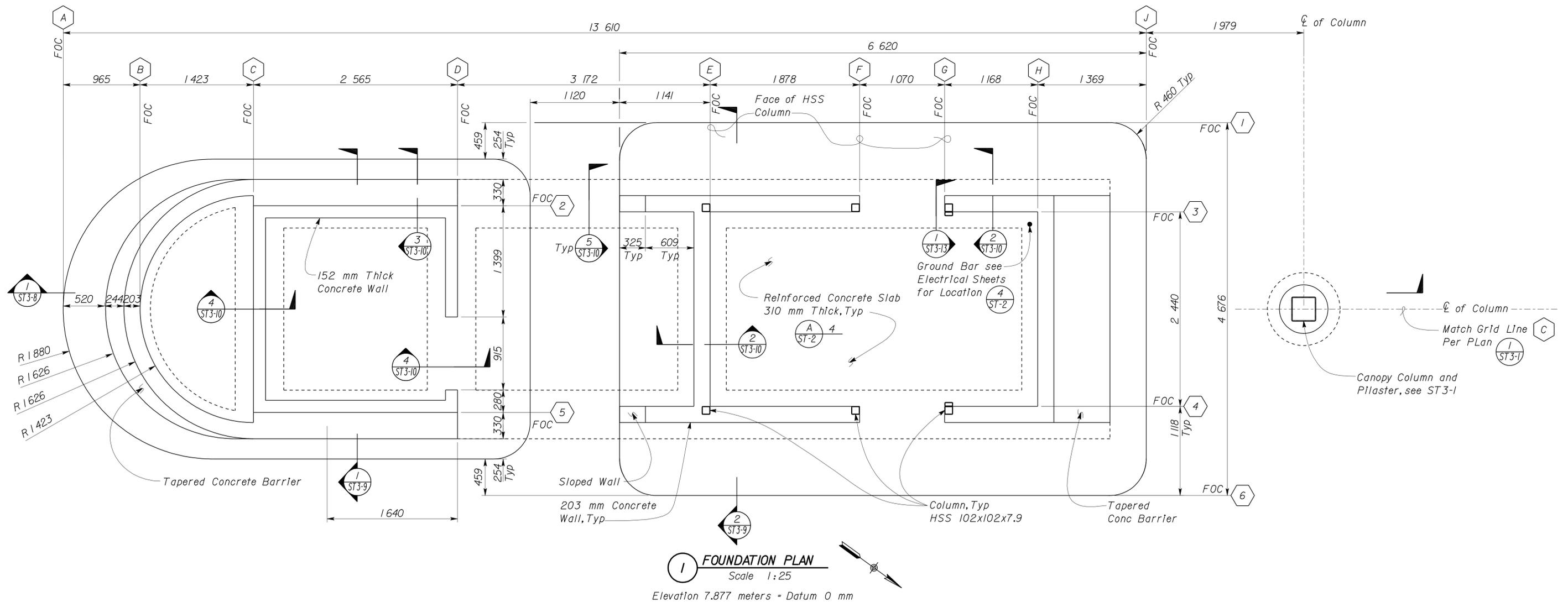
Note
The Contractor shall verify all
controlling field dimensions
before ordering or fabricating
any material.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	790	821

 REGISTERED CIVIL ENGINEER	01-19-12 DATE	
2-21-12 PLANS APPROVAL DATE		

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1 FOUNDATION PLAN
Scale 1:25
Elevation 7.877 meters = Datum 0 mm

TAEMWW Imperial Rev. 7/10 SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	DESIGN BY <i>Thomas Tong</i> DETAILS BY <i>Andrew A. Lovato</i> QUANTITIES BY	CHECKED <i>Edgardo Isidro</i> CHECKED <i>Thomas Tong</i> CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004 KM POST 12.8	PERMANENT GUARD BOOTH	YERBA BUENA ISLAND TRANSITION STRUCTURES FOUNDATION PLAN	SHEET OF ST3-6
	UNIT PROJECT NUMBER & PHASE 3581 04000000271 EA 012011			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 01-30-12 04-19-12 06-21-12 07-06-12 08-09-12 09-04-12 10-12-12 10-26-12 11-09-12 11-04-11		

27-FEB-2012 13:06 st3_06.dgn

METAL DECK MINIMUM SECTION PROPERTIES

Deck Type	Depth & Gage	Moment of Inertia	Positive Section Modulus	Negative Section Modulus	Minimum Yield Strength
Steel Decking	38.1 mm x 20 Ga	300 429 mm ⁴ /m	12 634 mm ³ /m	13 226 mm ³ /m	262 MPa

Note
Minimum 2 Span Condition



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	791	821

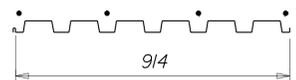
REGISTERED CIVIL ENGINEER: *Jonh...* DATE: 11-07-11

REGISTERED PROFESSIONAL ENGINEER: C. Tong No. 64543 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

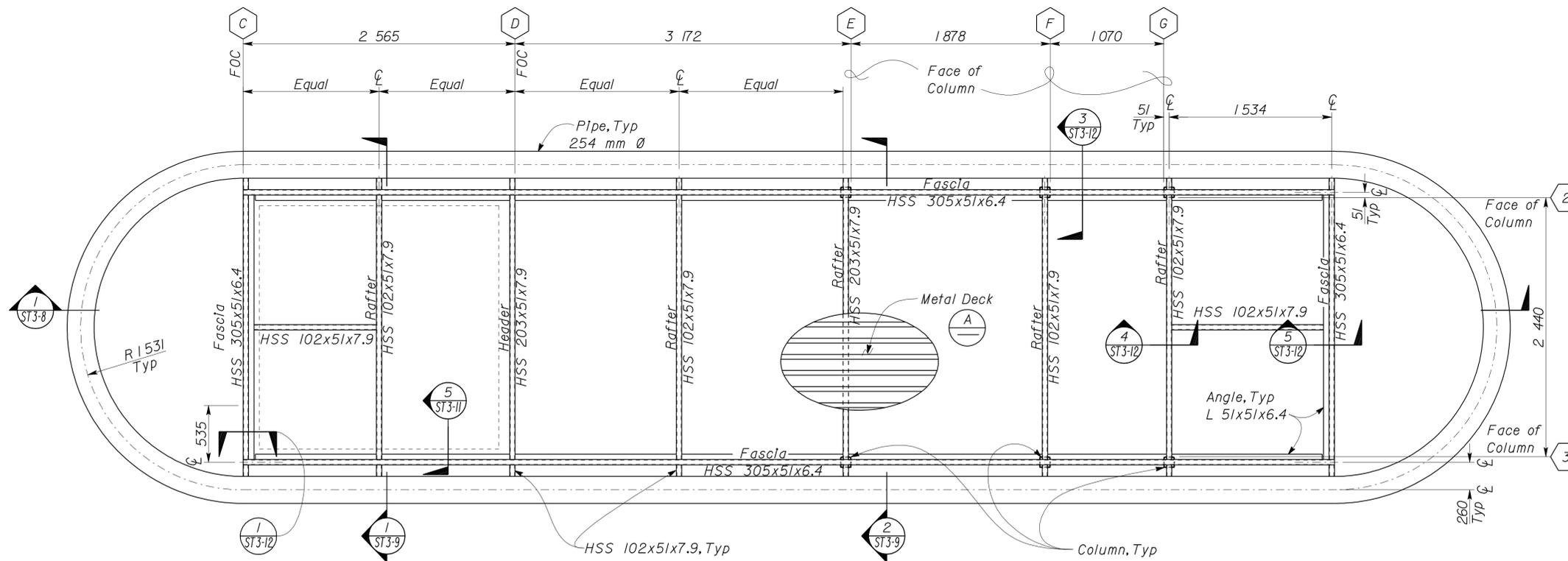
2-21-12
PLANS APPROVAL DATE

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WELDING SCHEDULE and METAL DECK PROFILE

Steel Deck Profile	16 mm Diameter Puddle Weld	Stitch Weld	Diaphragm Shear Capacity
	Perpendicular Supports and Panel Ends	Side Seam Weld	
	4 - Puddle Welds Per Support	9.5 mm x 38.1 mm @ 305 mm	

A METAL DECK NOTES



1 ROOF FRAMING PLAN
Scale 1:25

DESIGN BY: Thomas Tong	CHECKED: Edgardo Isldro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	PERMANENT GUARD BOOTH	YERBA BUENA ISLAND TRANSITION STRUCTURES ROOF FRAMING PLAN	SHEET OF ST3-7
				34-004			
DETAILS BY: Andrew A. Lovato	CHECKED: Thomas Tong	UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)			
QUANTITIES BY:	CHECKED:			02-27-06	03-28-06	06-21-06	08-24-11

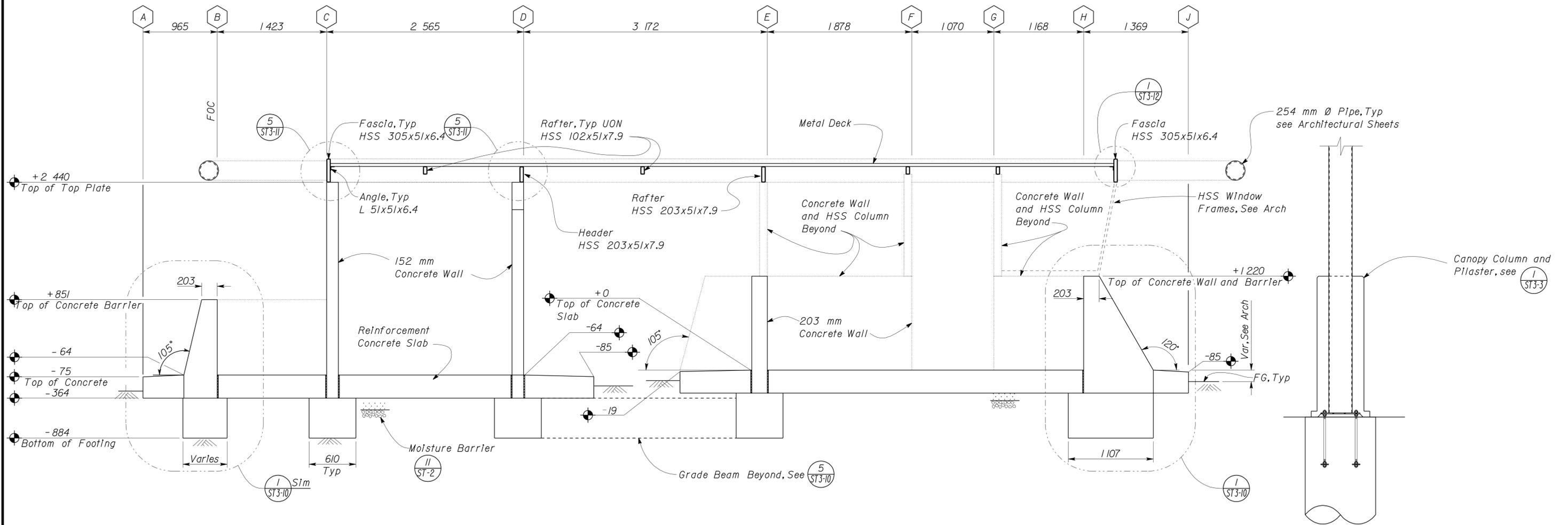
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	792	821

 REGISTERED CIVIL ENGINEER	01-19-12 DATE	
2-21-12 PLANS APPROVAL DATE		

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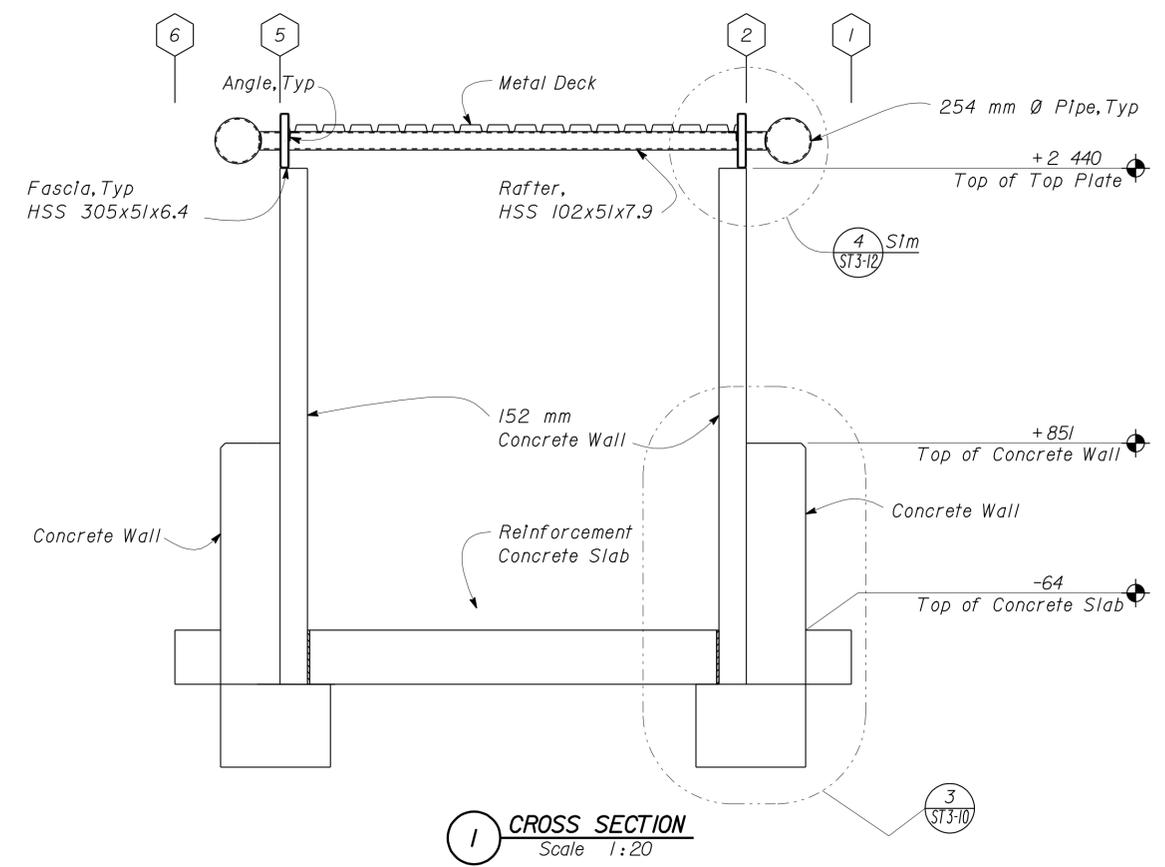
1 LONGITUDINAL SECTION
Scale 1:25

DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST3-8
			KM POST 12.8		
TAEMWW Imperial Rev. 7/10 SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 04000000271		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 02-22-06 03-28-06 06-21-06 06-28-11 08-04-11 08-12-11 10-19-11 11-07-11 01-31-12	SHEET OF

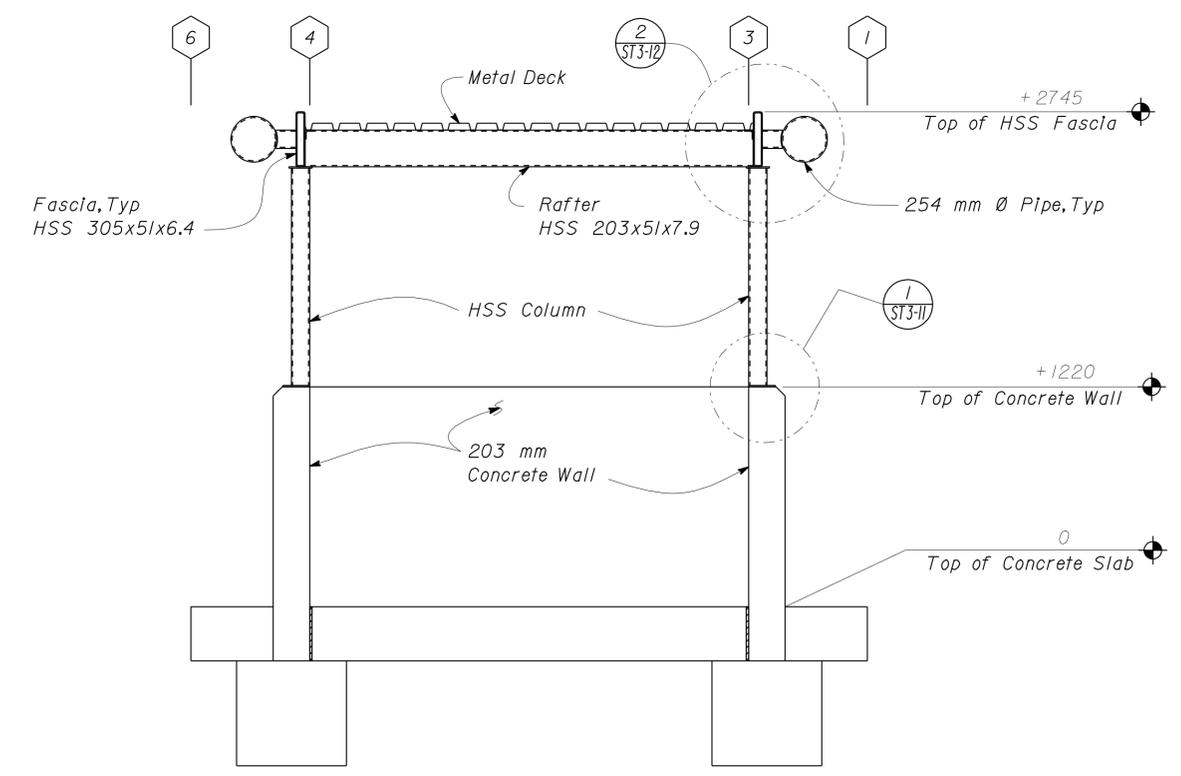
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	793	821
 REGISTERED CIVIL ENGINEER				01-19-12 DATE	
2-21-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



1 CROSS SECTION
Scale 1:20



2 CROSS SECTION
Scale 1:20

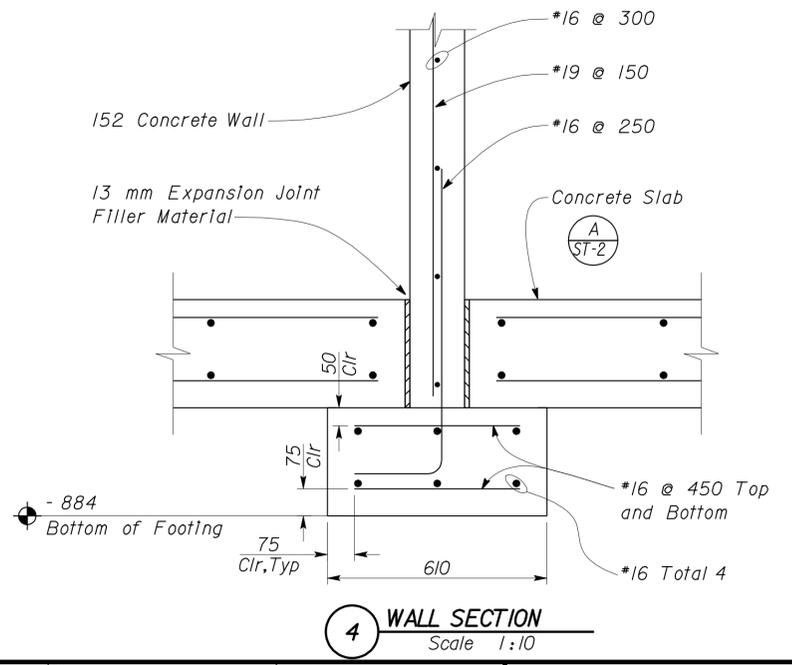
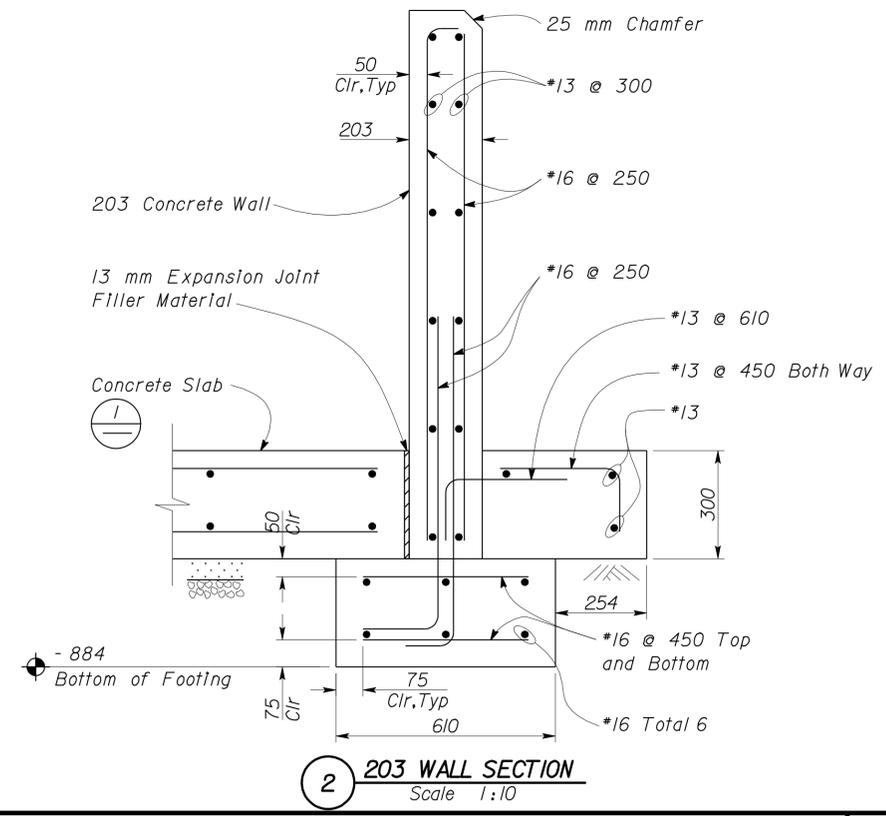
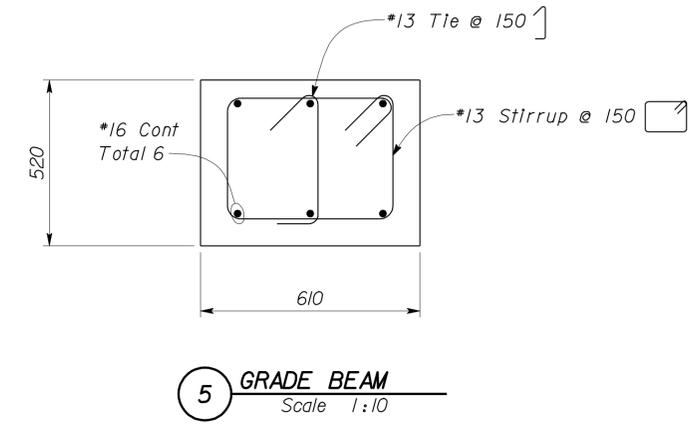
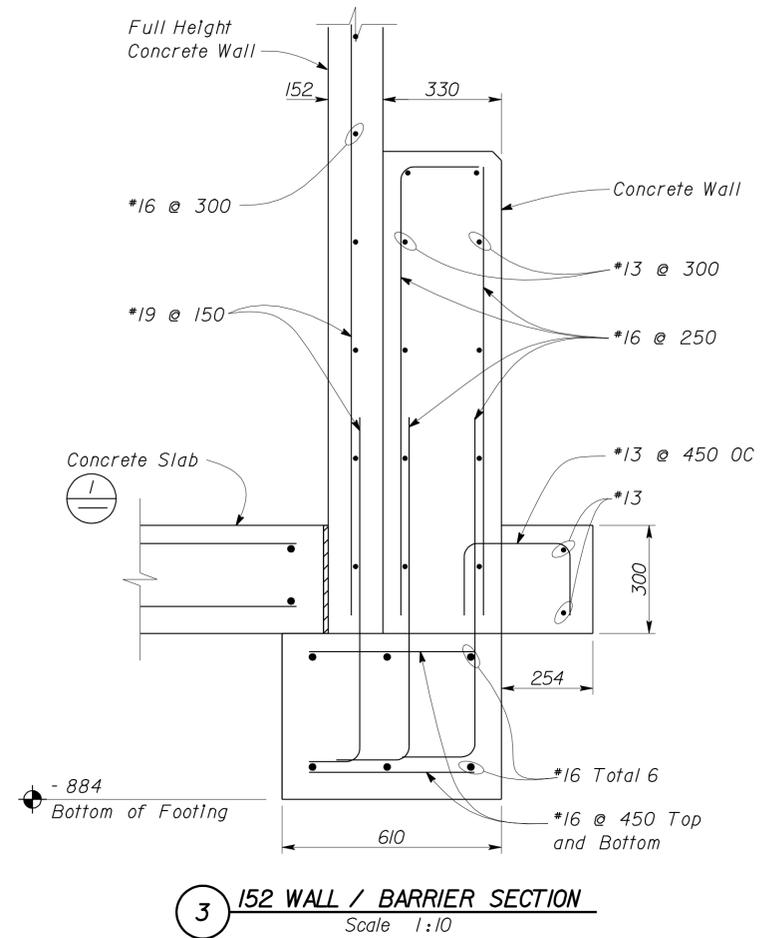
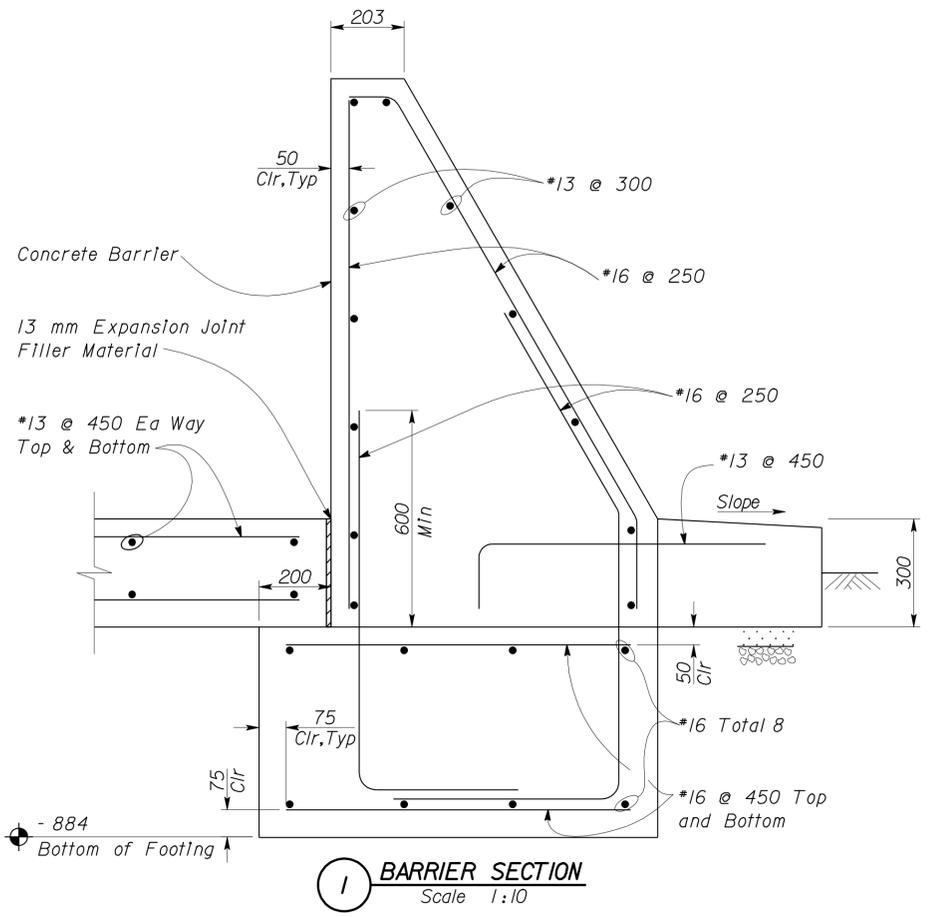
DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF ST3-9
			KM POST 12.8	PERMANENT GUARD BOOTH CROSS SECTIONS		
TAEMWW Imperial Rev. 7/10 SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 02-22-06 03-28-06 04-19-06 08-05-11 10-19-11 01-31-12		SHEET OF

27-FEB-2012 13:06 st3_09.dgn



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	794	821

 REGISTERED CIVIL ENGINEER	01-19-12 DATE	
2-21-12 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.		



DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES FOUNDATION DETAILS	SHEET OF ST3-10
			KM POST 12.8		
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 02-27-06 03-01-06 03-03-06 06-27-06 08-08-11 11-07-11 01-31-12

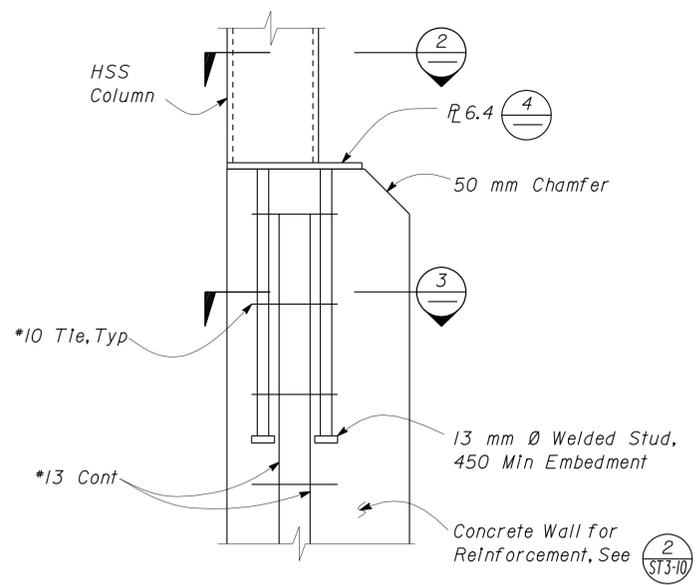
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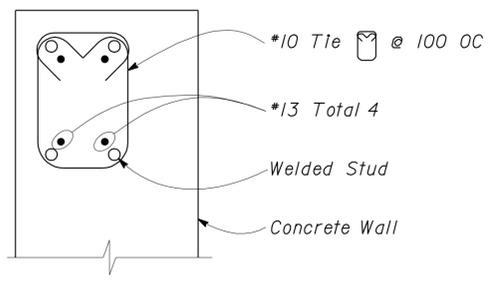
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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 REGISTERED CIVIL ENGINEER	11-07-11 DATE	
2-21-12 PLANS APPROVAL DATE		

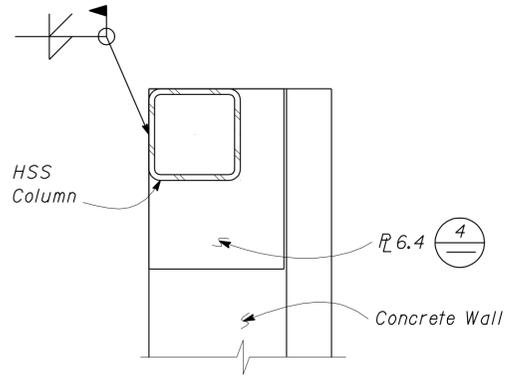
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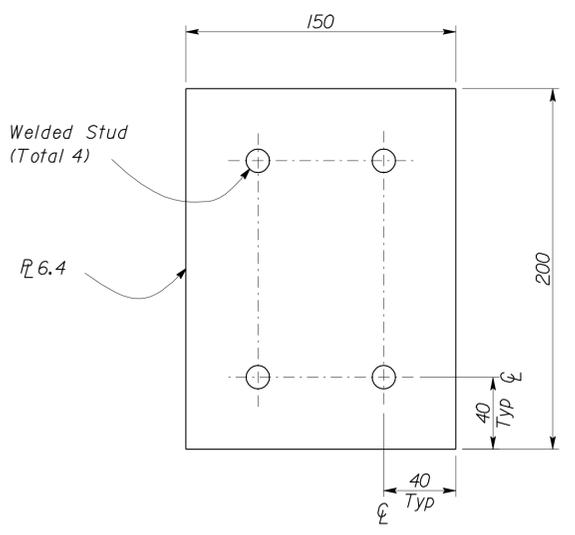
1 HSS COLUMN TO CONCRETE WALL
Scale 1:4



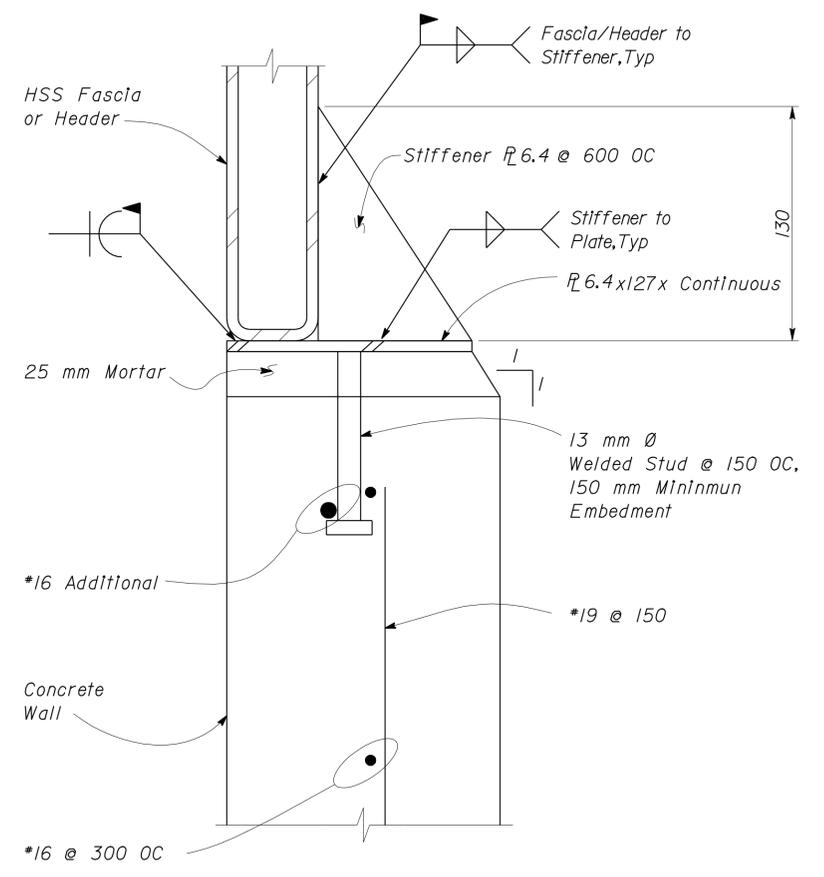
3 SECTION
Scale 1:4



2 SECTION
Scale 1:4



4 METAL PLATE
Scale 1:2



5 HSS FASCIA/HEADER TO WALL
Scale 1:2

DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES	SHEET ST3-11	
			KM POST 12.8			PERMANENT GUARD BOOTH
TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 02-21-06 03-28-06 08-05-11	SHEET OF

27-FEB-2012 13:06 st3_11.dgn

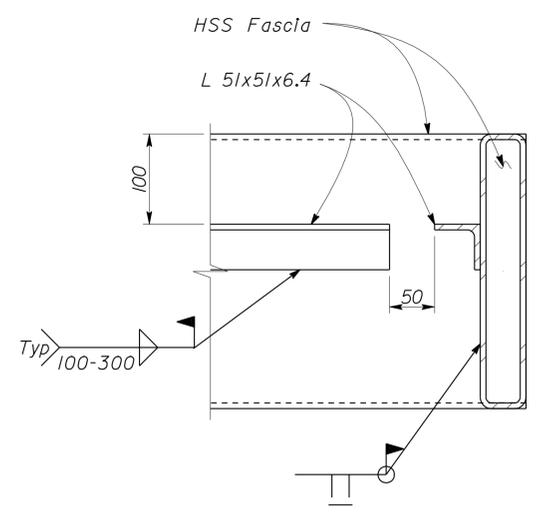


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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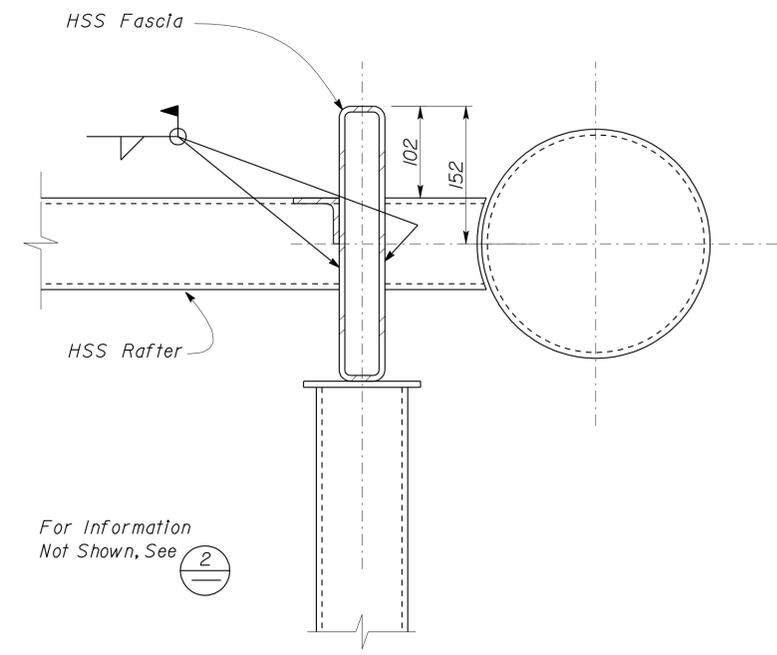
 REGISTERED CIVIL ENGINEER	11-07-11 DATE
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2-21-12 PLANS APPROVAL DATE	
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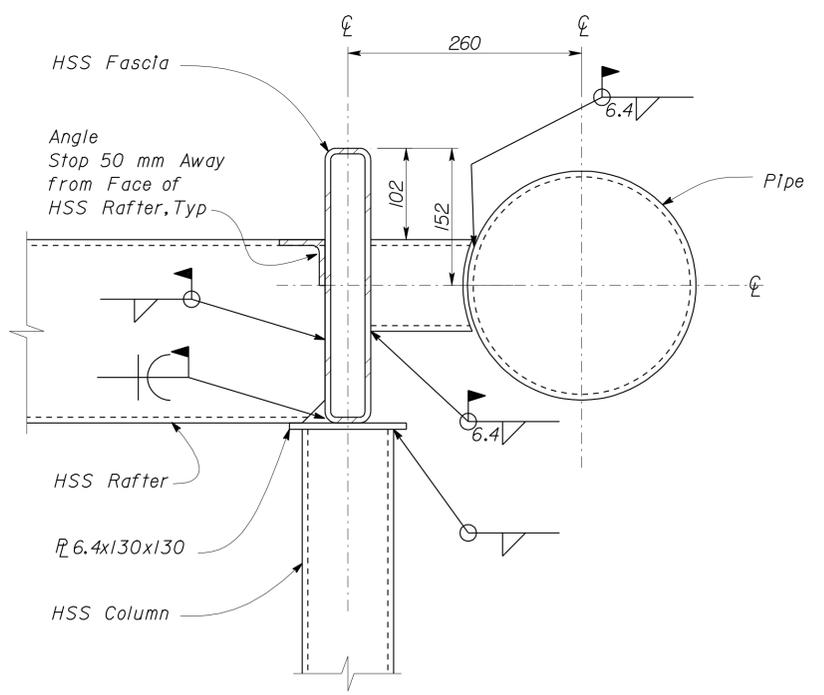


1 FASCIA TO FASCIA
Scale 1:4

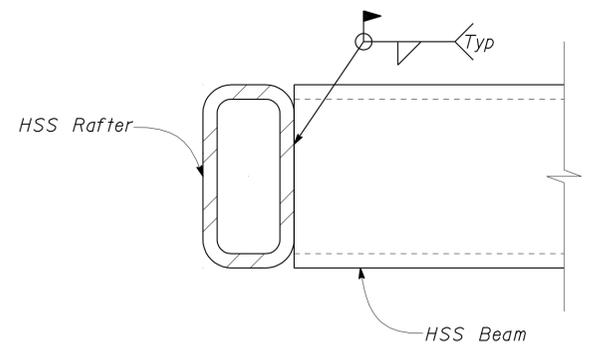


For Information Not Shown, See **2**

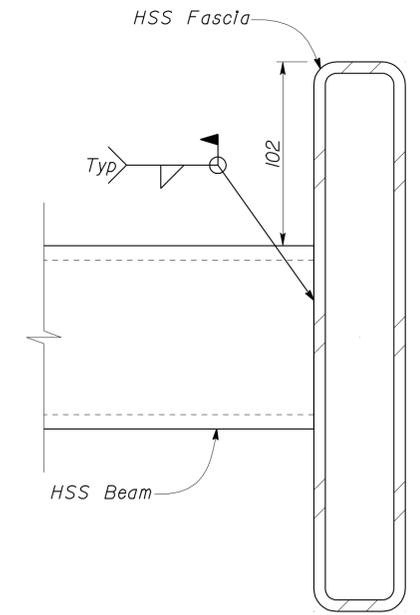
3 FASCIA TO COLUMN
Scale 1:4



2 FASCIA TO COLUMN
Scale 1:4



4 BEAM TO RAFTER
Scale 1:2



5 BEAM TO FASCIA
Scale 1:2

DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF ST3-12		
			KM POST 12.8	PERMANENT GUARD BOOTH ROOF FRAME DETAILS 2 of 2				
TAEMWW Imperial Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 03-28-08 11-07-11	SHEET OF

27-FEB-2012 13:07

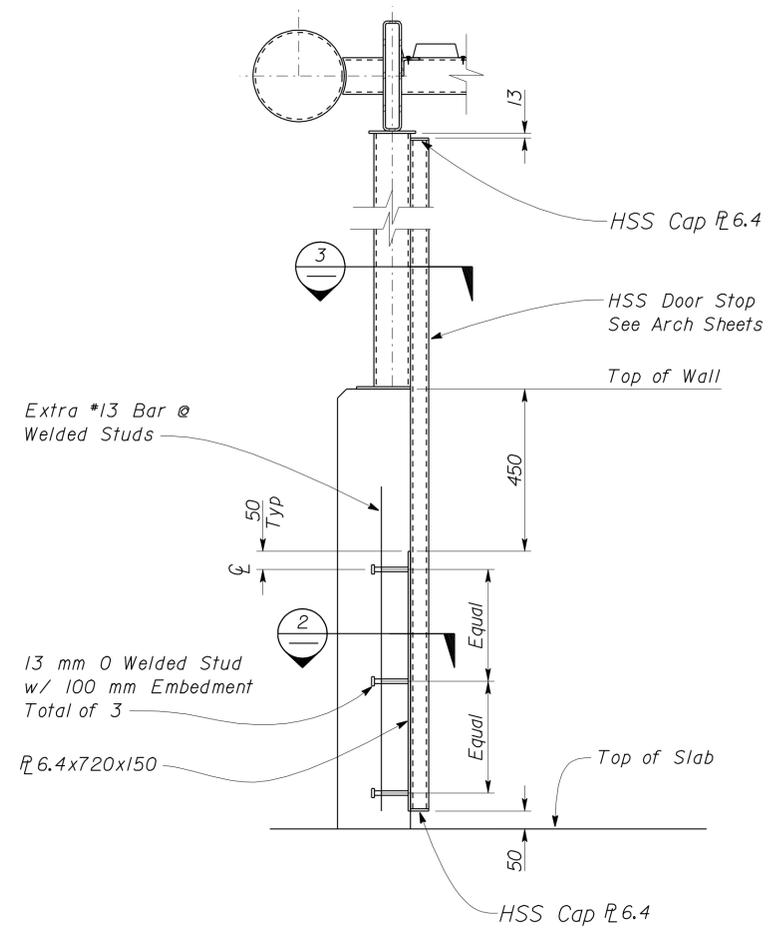
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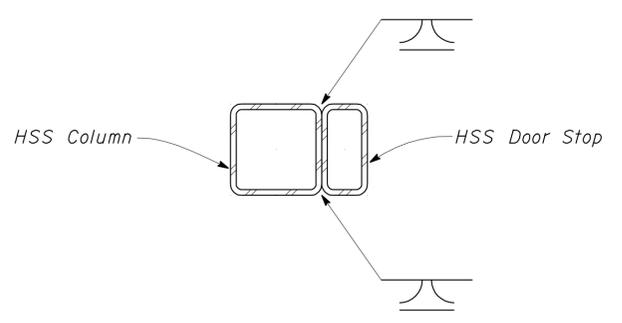
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	797	821

 REGISTERED CIVIL ENGINEER	11-07-11 DATE
2-21-12 PLANS APPROVAL DATE	
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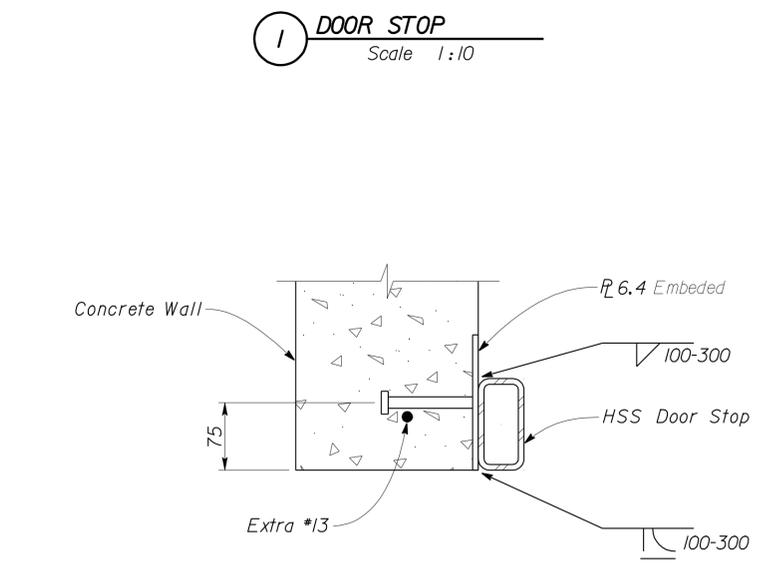
REGISTERED PROFESSIONAL ENGINEER C. Tong No. 64543 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA	
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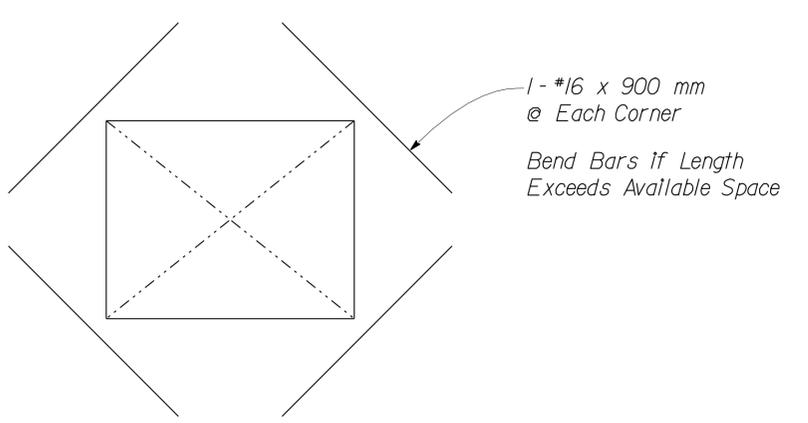
1 DOOR STOP
Scale 1:10



3 HSS CONNECTION
Scale 1:4

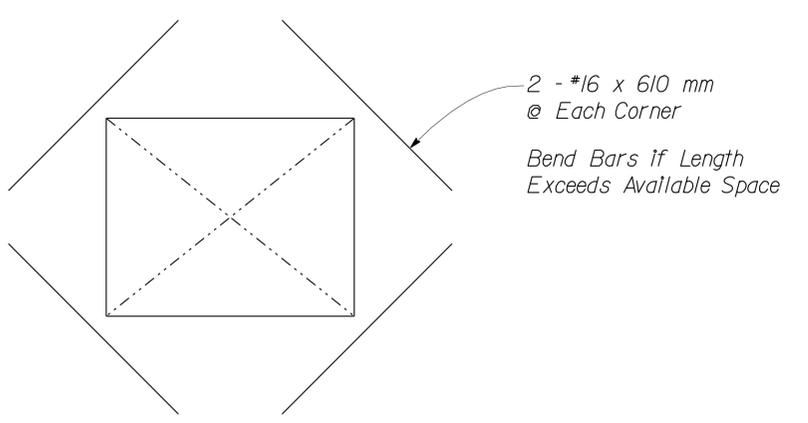


2 PLATE CONNECTION
Scale 1:4



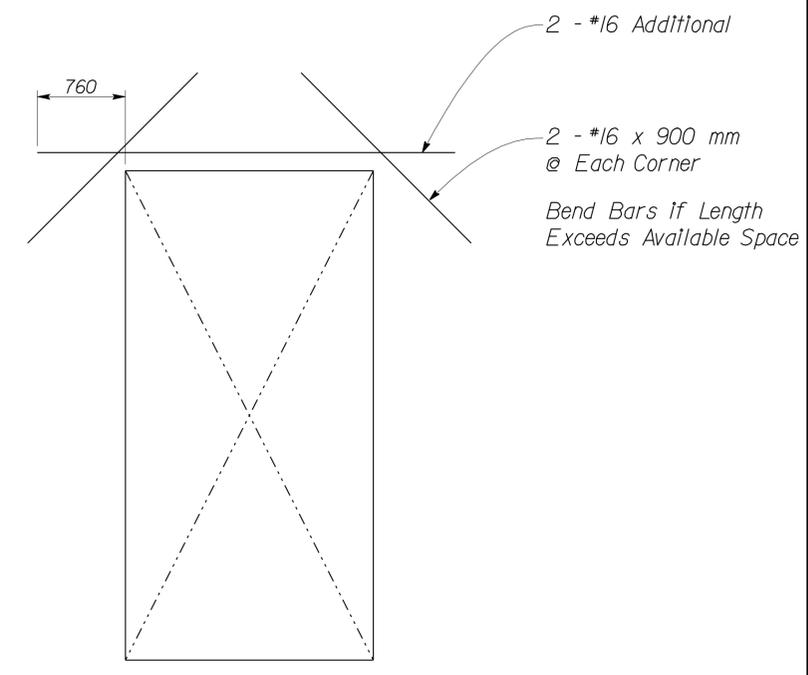
4 OPENING In 152 mm WALL
No Scale

NOTE:
For Opening Locations, see A3-2.3, A3-2.4



5 OPENING In 203 mm WALL
No Scale

NOTE:
For Opening Locations, see A3-2.3, A3-2.4



6 DOOR OPENING
No Scale

NOTE:
For Opening Locations, see A3-2.3, A3-2.4

DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i> DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i> QUANTITIES BY _____ CHECKED _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET OF ST3-13
			KM POST 12.8	PERMANENT GUARD BOOTH	MISCELLANEOUS DETAILS	
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE 3581 04000000271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

09-MAR-2012 13:39 st13_13.dgn

A

DESIGN NOTES

1. Design: The building work on this project has been designed to conform to the 2010 California Building Code.(2009 IBC2)

a. Loads :
Live Loads : 4790 Pa
Wind Speed : 136 km/h , Exposure D

Seismic: Occupancy Category = I
Importance Factor Site Soil= D (Assumed)
Site Soil Class = D (Assumed)
S_s = 1.5 S_{ds} = 1.0
S_i = 0.6 S_{di} = 0.6

Seismic Design Category = D
C_s = 0.25

b. Reinforced Concrete (Ultimate Strength Design) :
f'_c = 21 MPa
f_y = 420 MPa (Epoxy Coated Rebar)

c. Miscellaneous metal (Working stress Design)
f_y = 352 MPa, U0N

d. Foundation :
Allowable Soil Pressure (DL + LL) : 71,900 Pa (assumed)

2. Stairs:

- a. For typical stair details, see Sheet ST4-4.
- b. Landings slopes shall be minimum 1% and maximum of 8%.
- c. Landing slabs shall be 150 mm thick reinforced concrete w/ #16 @ 450 OC each way, Typ.
- d. Handrail and Gutter Locations and Detail, See Arch.



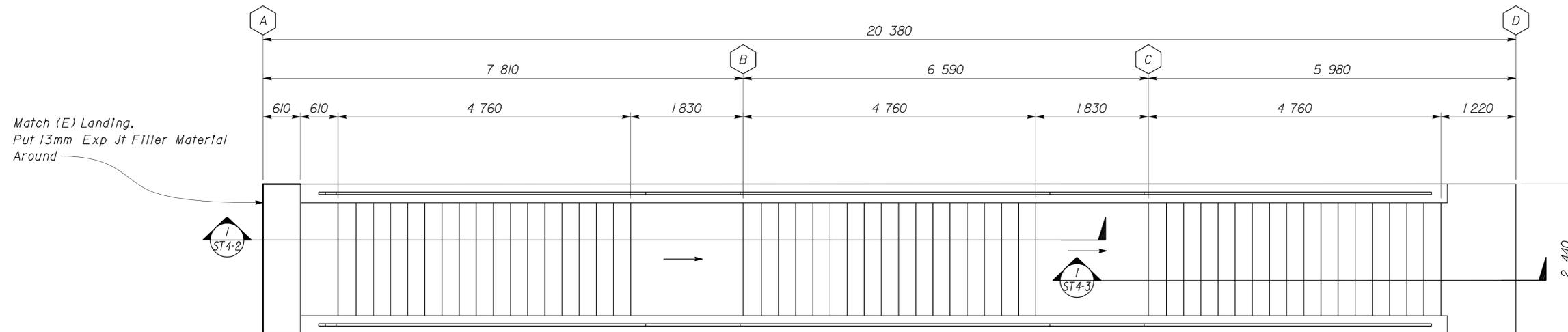
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	798	821

Jonglun
REGISTERED CIVIL ENGINEER DATE 11-7-11

2-21-12
PLANS APPROVAL DATE

C. Tong
No. 64543
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

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1 STAIR FLOOR PLAN
Scale 1:40

Note
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Thomas Tong	CHECKED Edgardo Isidro
DETAILS	BY Andrew A. Lovato	CHECKED Thomas Tong
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	34-004
KM POST	12.8

YERBA BUENA ISLAND
TRANSITION STRUCTURES
HISTORIC STAIRS
FLOOR PLAN

SHEET
ST4-1

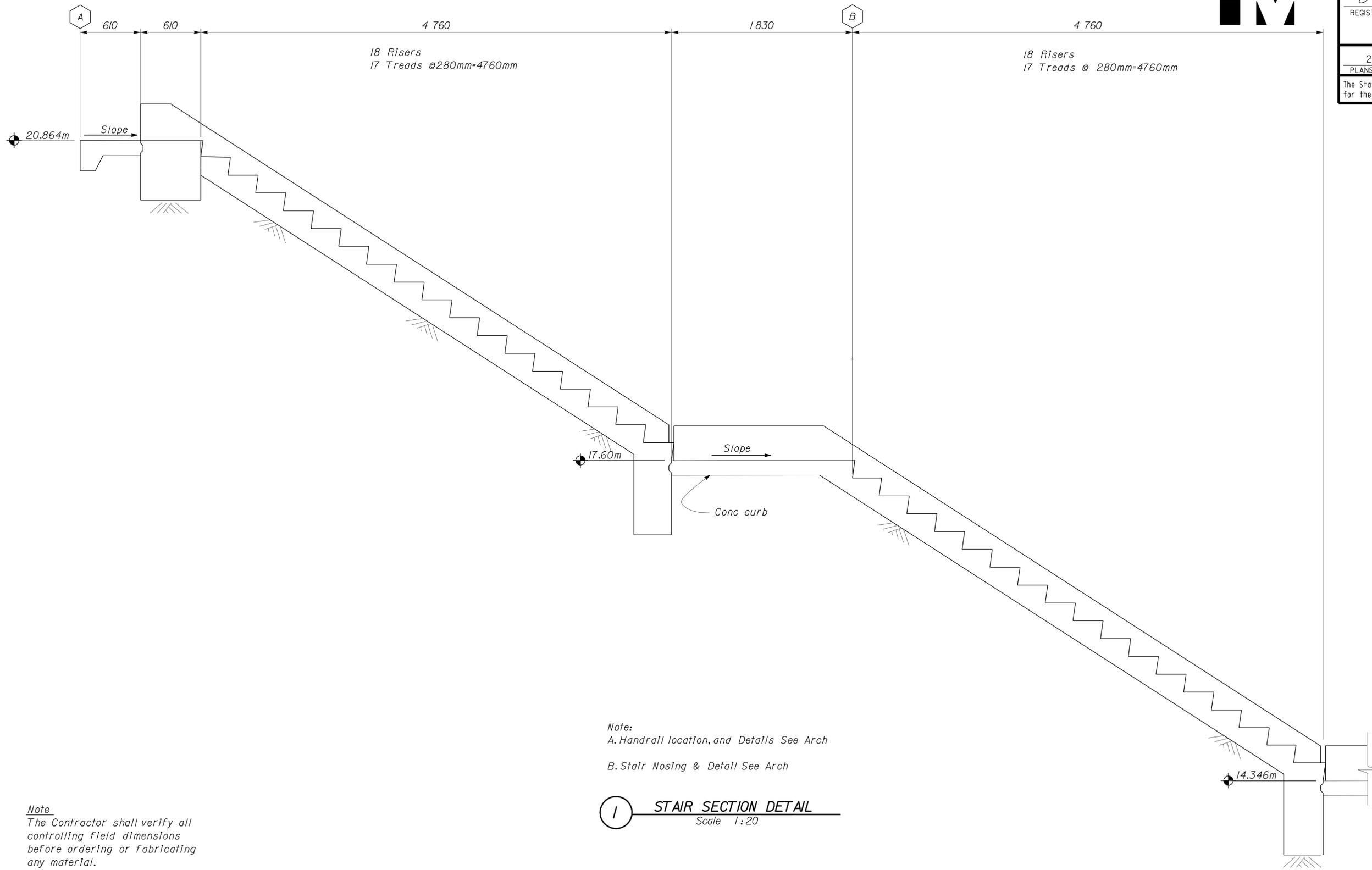


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	799	821


 REGISTERED CIVIL ENGINEER DATE 11-7-11
 2-21-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 C. Tong
 No. 64543
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

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Note:
 A. Handrail location, and Details See Arch
 B. Stair Nosing & Detail See Arch

1 STAIR SECTION DETAIL
 Scale 1:20

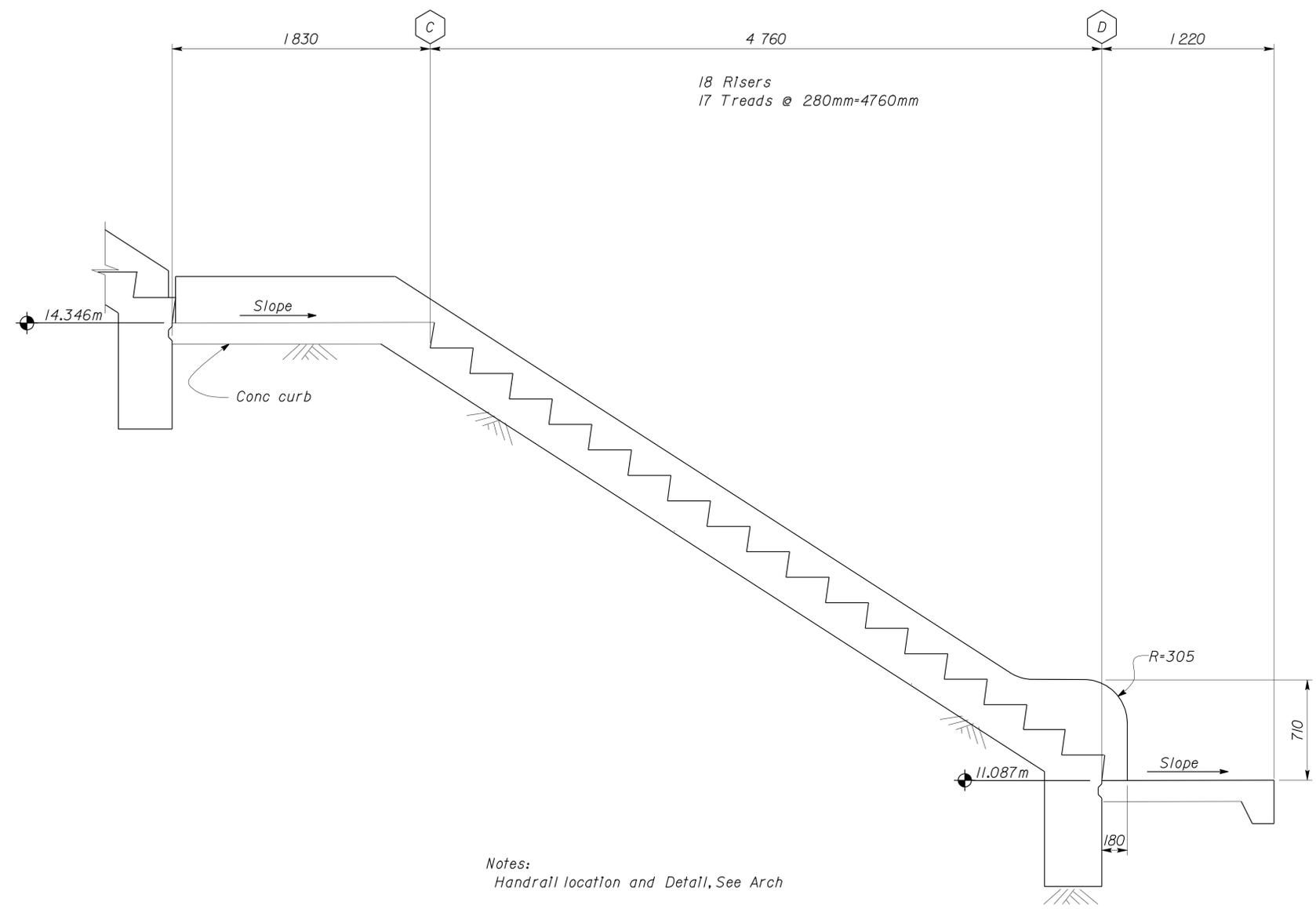
Note
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DOES SD metric Rev. 9/02	DESIGN BY <i>Thomas Tong</i> CHECKED <i>Edgardo Isidro</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 34-004	YERBA BUENA ISLAND TRANSITION STRUCTURES SECTIONS	SHEET OF ST4-2	
	DETAILS BY <i>Andrew A. Lovato</i> CHECKED <i>Thomas Tong</i>			KM POST 12.8			HISTORIC STAIRS
	QUANTITIES BY CHECKED			REVISION DATES (PRELIMINARY STAGE ONLY)			
SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100	CU 04 251 EA 0120T1	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-27-09 11-02-09 12-07-09 10-12-10 01-07-11 01-12-11 10-06-11 11-02-11 11-07-11	SHEET OF	

27-FEB-2012 13:07



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	12.6/13.9	800	821
 REGISTERED CIVIL ENGINEER			11-7-11 DATE		
2-21-12 PLANS APPROVAL DATE					
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Notes:
Handrail location and Detail, See Arch

1 STAIR SECTION DETAIL
Scale 1:20

Note
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DESIGN	BY	Thomas Tong	CHECKED	Edgardo Isidro	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	YERBA BUENA ISLAND TRANSITION STRUCTURES		SHEET ST4-3
	DETAILS	BY	Andrew A. Lovato	CHECKED			Thomas Tong	34-004	SECTION	
QUANTITIES	BY		CHECKED				KM POST	HISTORIC STAIRS		
							12.8			
DOES SD metric Rev. 9/02		SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS		CU 04 251 EA 0120T1		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
				0 10 20 30 40 50 60 70 80 90 100				10-27-09 11-02-09 12-08-09 01-11-11 10-06-11		SHEET OF

27-FEB-2012 13:07