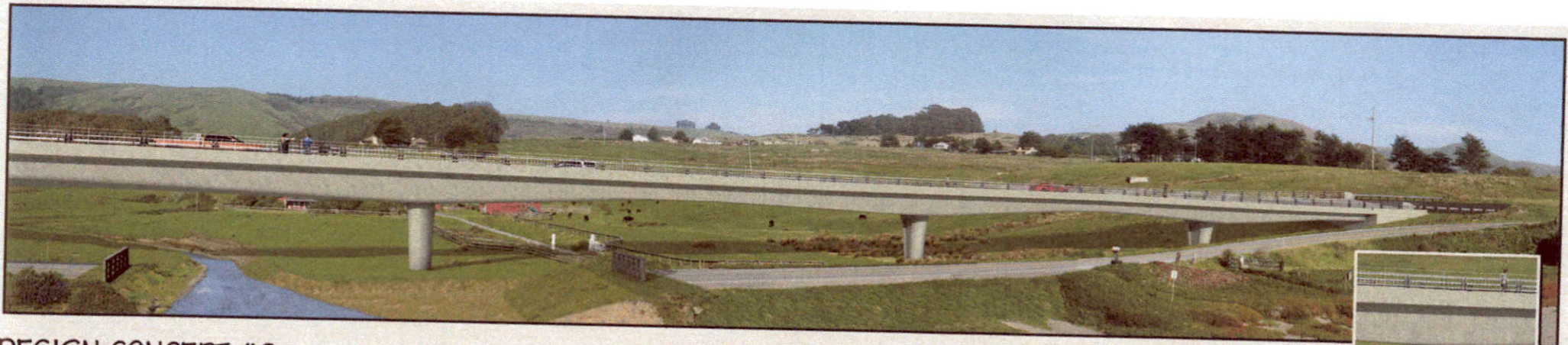




DESIGN CONCEPT #6

INDEX OF PLANS

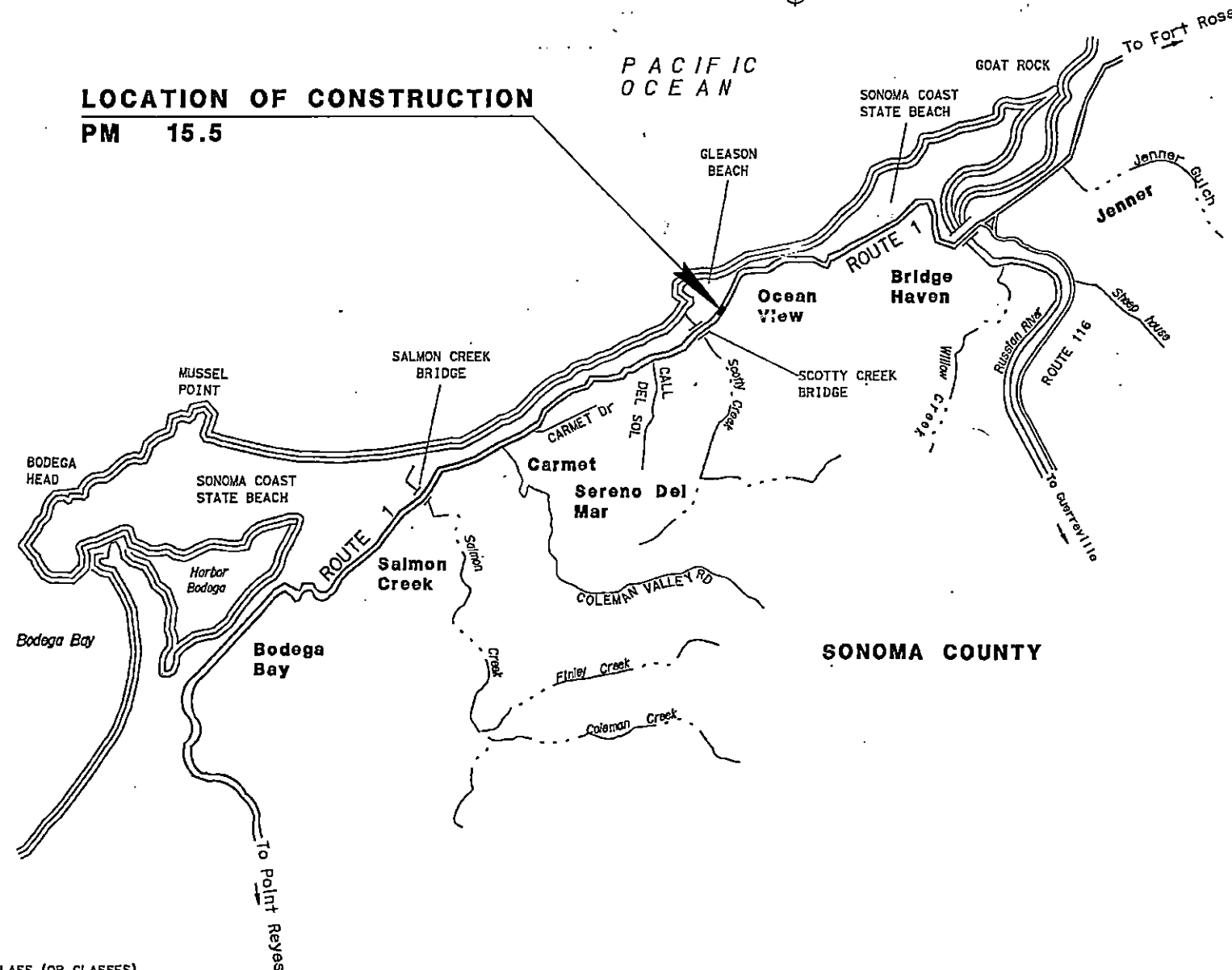
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY IN SONOMA COUNTY IN GLEASON BEACH NORTH OF BODEGA BAY

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	1	15.5		



LOCATION OF CONSTRUCTION
PM 15.5



NO SCALE

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS
OFFICERS OR AGENTS SHALL NOT BE
RESPONSIBLE FOR THE ACCURACY OR
COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.

CU 00000

EA 000000

DATE PLOTTED => 09-AUG-2010
TIME PLOTTED => 16:09
LAST REVISION 00-00-00

BORDER LAST REVISED 8/1/2008

CALTRANS WEB SITE IS: [HTTP://WWW.DOT.CA.GOV/](http://www.dot.ca.gov/)

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

USERNAME => s136535
DGN FILE => Title_sheet.dgn

REGISTERED CIVIL ENGINEER	DATE _____
PLANS APPROVAL DATE _____	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	

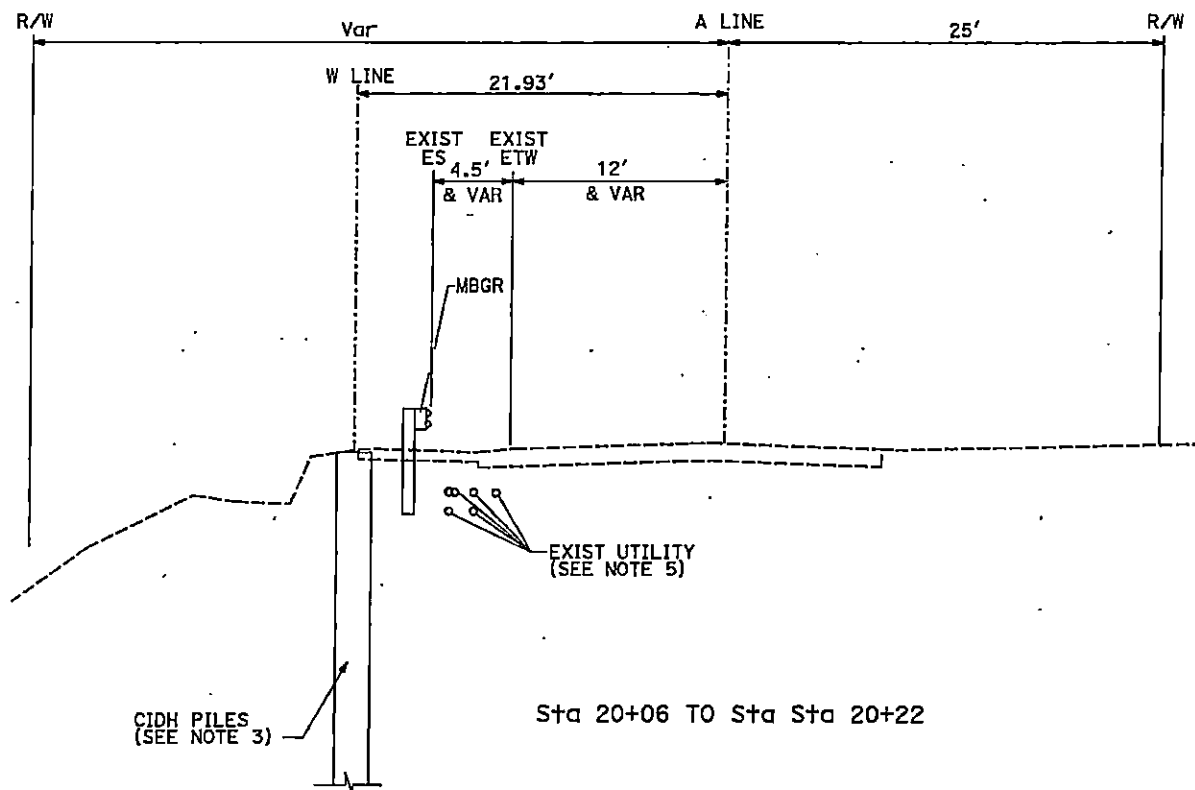
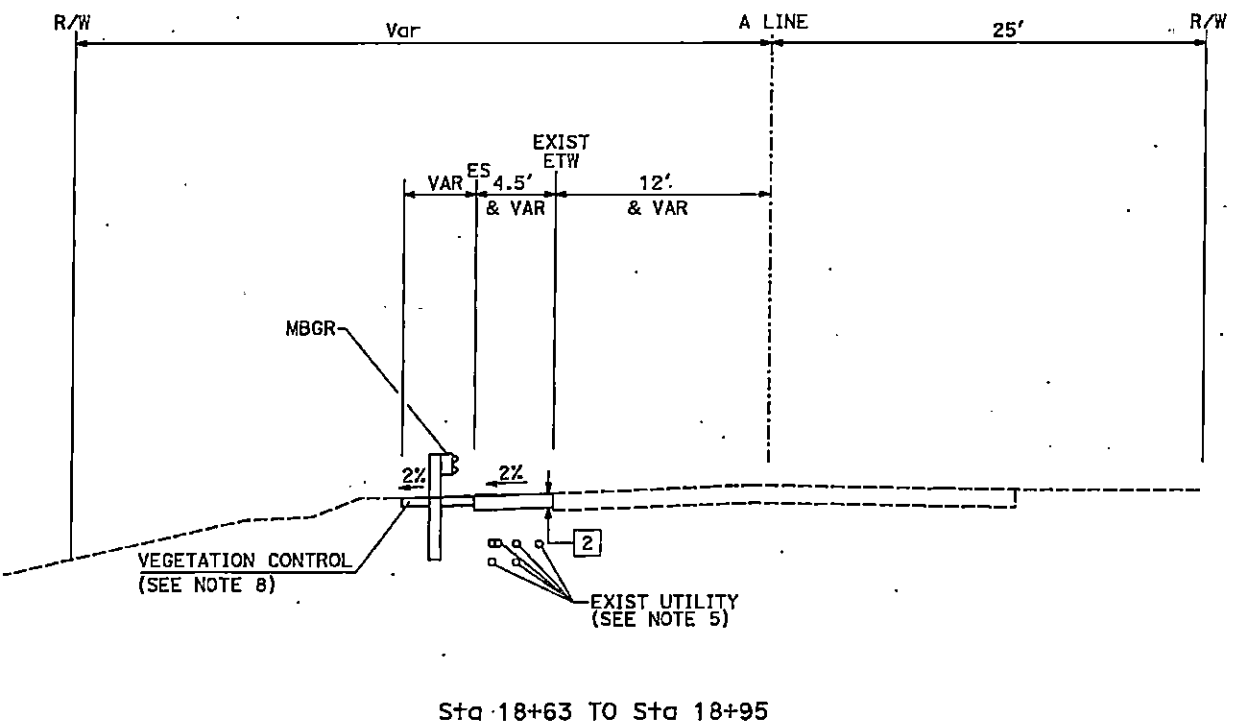


2009 ADT = 3,600	D = 55%
2031 ADT = 4,100	T = 2.7%
DHV = 660	V
ESAL	TI = 7.5

1	HMA (TYPE A)	0.80'
	AS (4)	0.35'
2	HMA (TYPE A)	0.60'

HMA - HOT MIX ASPHALT
TCE - TEMPORARY CONSTRUCTION EASEMENT

- 1- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDADRD SPECIFICATIONS.
- 2- SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- 3- FOR LIMITS AND LOCATION OF TIEBACK ANCHORS AND CIDH PILES SEE STRUCTURE PLANS.
- 4- FOR LOCATION OF METAL BEAM GUARD RAILING AND CABLE RAILING SEE LAYOUT SHEET.
- 5- FOR LOCATION OF EXISTING UTILITIES SEE UTILITY SHEET.
- 6- FOR TEMPORARY CONSTRUCTION EASEMENT SEE SHEET C-1.
- 7- FOR LIMITS OF SHOULDER PAVING SEE LAYOUT SHEET.
- 8- FOR VEGETATION CONTROL DETAILS SEE NEW STANDARD PLAN NSP-A77C5 AND NSP-A77C6.



ROUTE 1

NOTE:

- 1- COORDINATE & BEARING VALUES SHOWN ARE CCS 83 ZONE 3.
- 2- FOR LOCATION OF TIEBACK ANCHORS, CIDH PILES AND CABLE RAILING SEE STRUCTURE PLANS.
- 3- FOR LOCATION OF EXISTING UTILITIES SEE UTILITY SHEET.
- 4- FOR TEMPORARY CONSTRUCTION EASEMENT SEE SHEET C-1.
- 5- FOR STRUCTURAL SECTION DETAILS SEE SHEET X-1.
- 6- FOR VEGETATION CONTROL SEE STD PLAN NSP-A77C5 AND NSP-A77C6

ABBREVIATION:

AFTS - ALTERNATIVE FLARED TERMINAL SYSTEM

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE

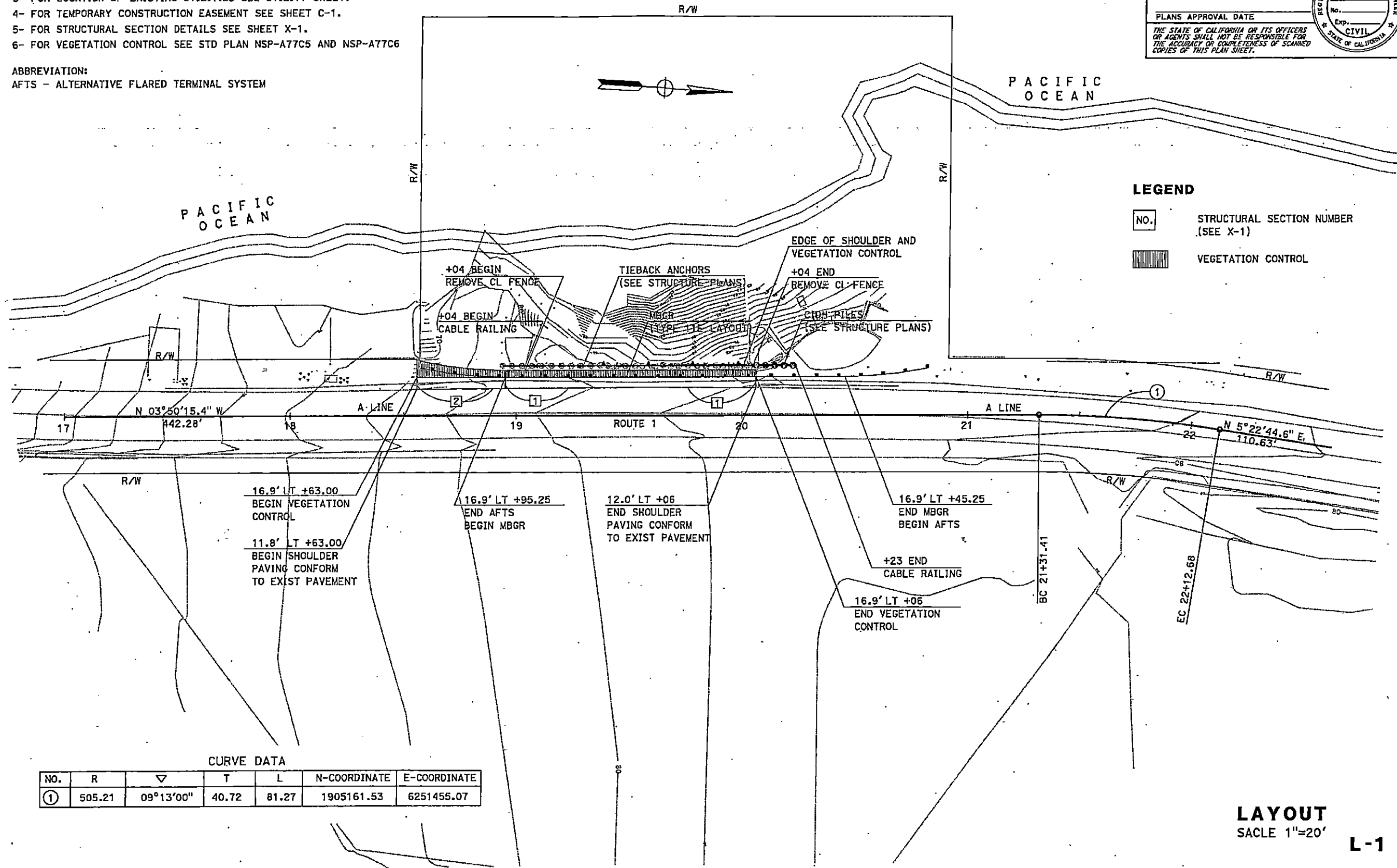
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

LEGEND

- NO. STRUCTURAL SECTION NUMBER (SEE X-1)
- VEGETATION CONTROL



LAYOUT
SCALE 1"=20'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CALTRANS

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	DESIGNED BY		
2	CHECKED BY		
3	FUNCTIONAL SUPERVISOR		
4	REVISOR		
5	DATE		

LEGEND:

UTILITIES	EXISTING UTILITIES	OWNERSHIP
ELECTRICAL (JOINT TRENCH)	— — — — — J+	— — — — — PACIFIC GAS & ELECTRICAL (PG&E)
CABLE (JOINT TRENCH)	— — — — — J+	— — — — — COMCAST
TELEPHONE (JOINT TRENCH)	— — — — — J+	— — — — — AT&T
WATER	— — — — — W	— — — — — RUSSIAN RIVER UTILITY

- NOTES:**
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. ELEVATIONS SHOWN IN THE TABLE REFER TO THE TOP OF PIPE OR CONDUIT, UNLESS OTHERWISE STATED.

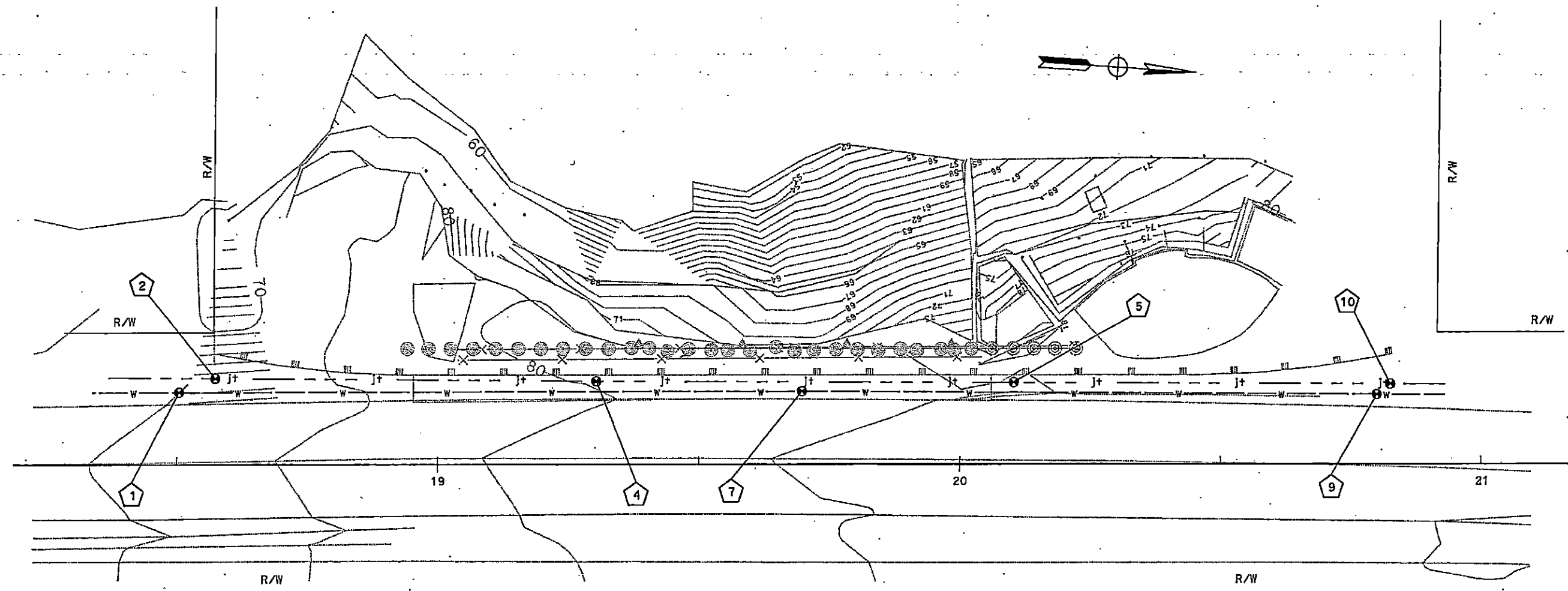
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04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE

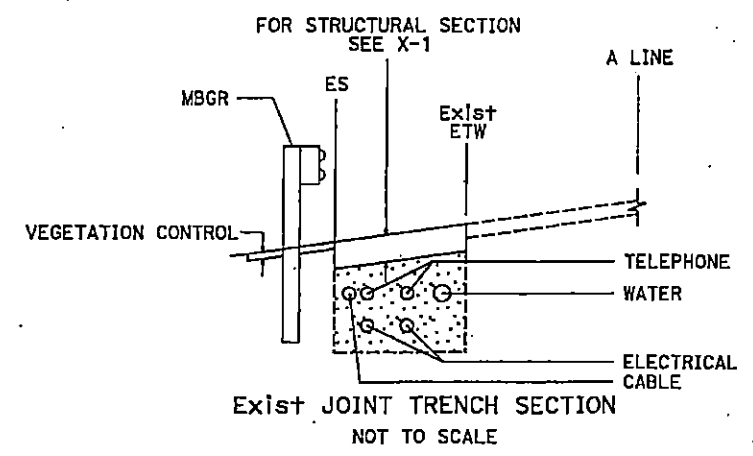
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA



POSITIVE LOCATION INFORMATION						
NO. 5	UTILITY	N-COORDINATE	E-COORDINATE	ELEVATION	DEPTH	METHOD
1	WATER	1904846.404	6250956.162	74.94	2.92	POTHOLING
2	ELEC	1904853.223	6250953.056	76.01	2.08	POTHOLING
	TEL/CABLE	1904846.570	6250953.661	76.08	1.75	
4	ELEC	1904925.997	6250948.742	75.66	4.5	POTHOLING
	TEL/CABLE	1904923.420	6250948.785	77.08	3.0	
5	ELEC	1905005.799	6250943.613	77.54	3.58	POTHOLING
	TEL/CABLE	1905005.799	6250943.613	79.12	2.0	
7	WATER	1904965.457	6250948.047	77.47	3.0	POTHOLING
9	WATER	1905075.478	6250941.246	78.81	2.5	POTHOLING
10	ELEC	1905077.895	6250939.120	77.45	3.58	POTHOLING
	TEL/CABLE	1905083.593	6250938.621	79.42	1.75	



UTILITY PLAN
SCALE 1"=10'

U-1

THIS PLAN FOR UTILITY INFORMATION ONLY

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	QUANTITY
			(INCHES)	(EA-INCHES)	(EA)
1	G20-2	END ROAD WORK	36 x 18	1 - 4 x 4	2
2	W20-1	ROAD WORK AHEAD	48 x 48	1 - 4 x 6	2
3	C40 (CA)	TRAFFIC FINES DOUBLE IN CONSTRUCTION ZONES	72 x 36	2 - 4 x 4	2

LEGEND:

CONSTRUCTION AREA SIGN DESIGNATION

TEMPORARY CONSTRUCTION EASEMENT (TCE)

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

2. CONSTRUCTION AREA SIGN TO BE STATIONARY MOUNTED.

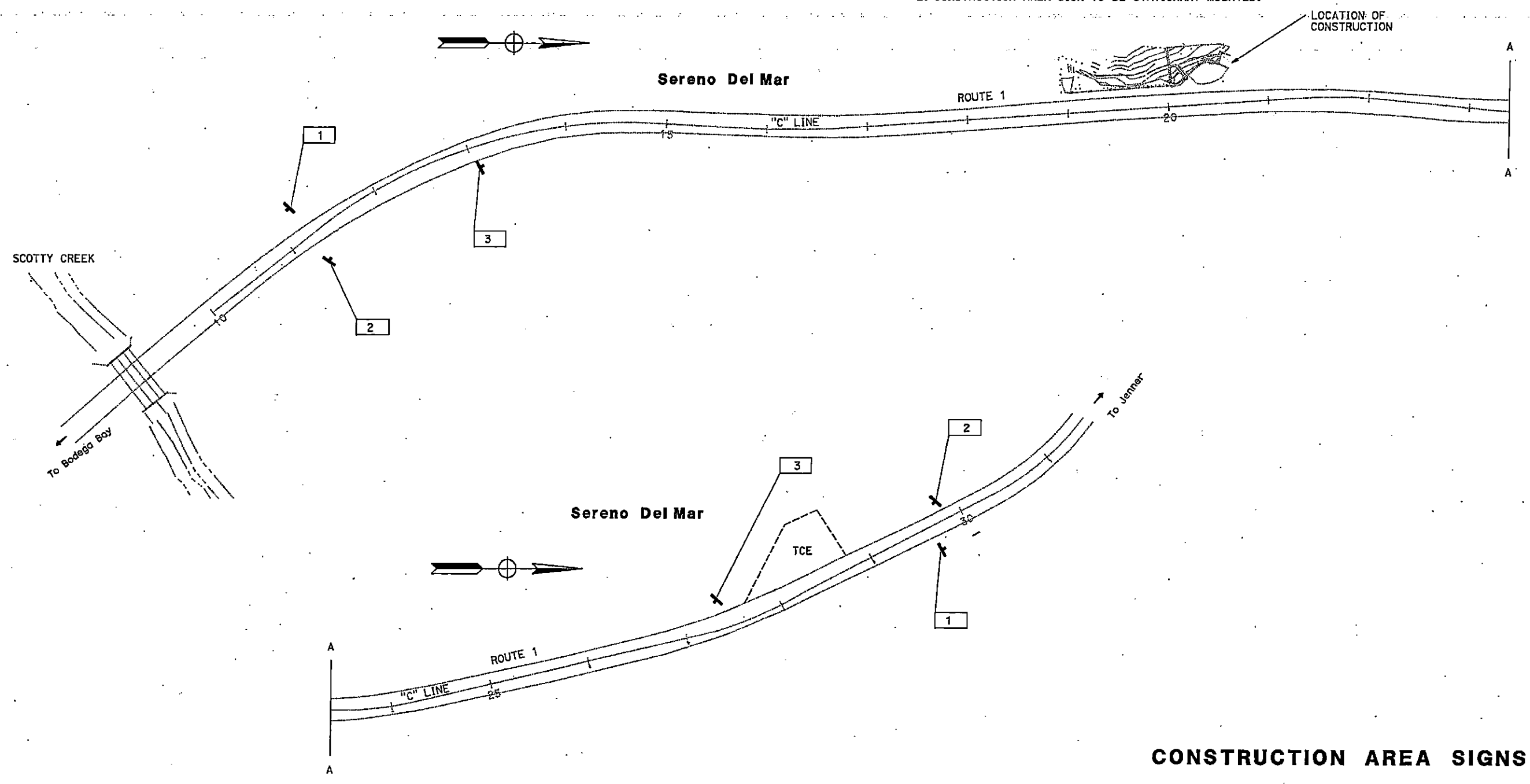
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER No. CIVIL STATE OF CALIFORNIA



CONSTRUCTION AREA SIGNS

CS-1

THIS PLAN ACCURATE FOR DETOUR PLAN WORK ONLY

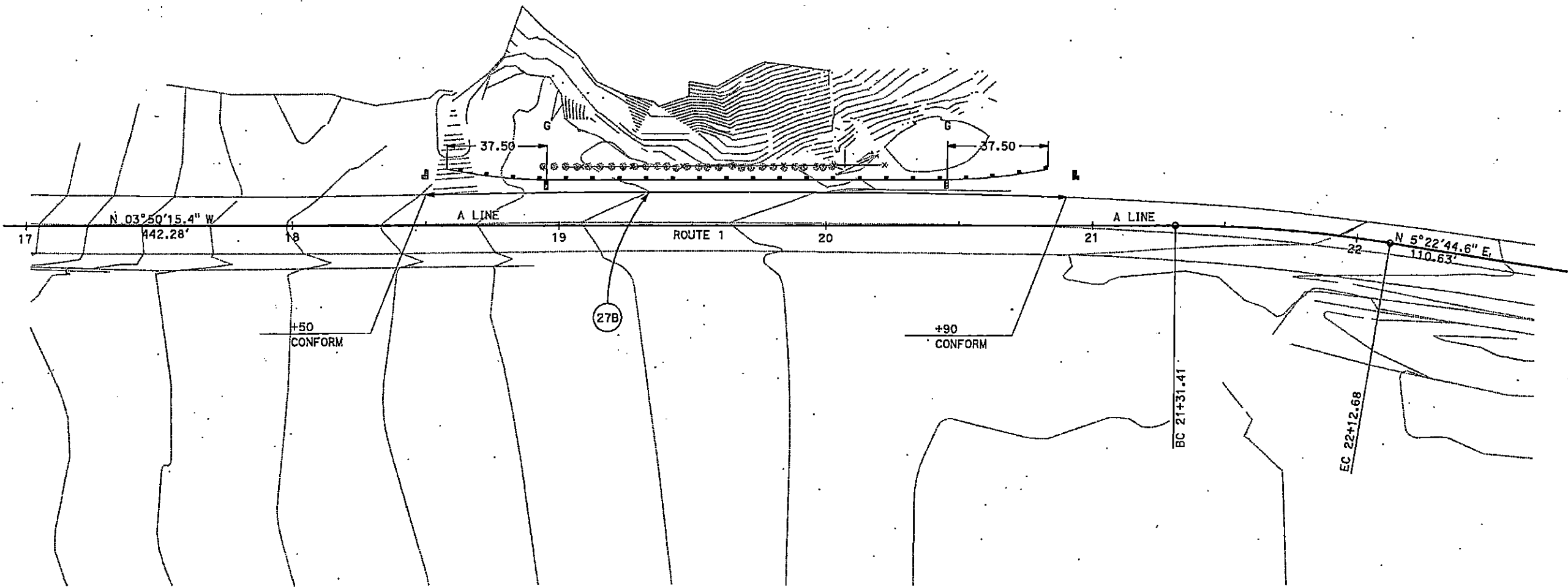
- LEGEND
- No

PAVEMENT DELINEATION DETAIL
- L

OBJECT MARKER (TYPE L-1)
- F

DELINEATOR TYPE F-1
- G

ATTACH DELINEATOR TO MBGR (STND PLAN A77C4F)



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
04	SON	01	15.5	

REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 No.
 Exp.
 CIVIL
 STATE OF CALIFORNIA

PAVEMENT DELINEATION PLAN

SCALE 1"=20'

PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et-Gitans

FUNCTIONAL SUPERVISOR

CALCULATED-
DESIGNED BY

REVISOR BY

CHECKED BY

DATE REVISED

ROADWAY QUANTITY SUMMARY

Station	DIRECTION	HMA (TYPE A)	ASPHALTIC EMULSION (PAINT BINDER)	CLASS 4 AGGREGATE BASE
		TON		CY
A LINE 18+19.25 TO A LINE 20+06	SB	42.7	0.05	7
TOTAL		42.7	0.05	7

TRAFFIC STRIPES SUMMARY

Station	DIRECTION	4" THERMOPLASTIC TRAFFIC STRIPE
		LF
A LINE 18+50 TO A LINE 20+90	SB	240
TOTAL		240

EARTHWORK SUMMARY

Station	DIRECTION	ROADWAY EXCAVATION
		CY
A LINE 18+19.25 TO A LINE 20+06	SB	48.0
A LINE 18+70.00 TO A LINE 20+06	SB SHOULDER	12.2
TOTAL		60.2

TEMPORARY RAILING (TYPE K)

Station	DIRECTION	TEMPORARY RAILING (TYPE K)
		LF
A LINE 18+50 TO A LINE 20+90	SB	120
TOTAL		120

VEGETATION CONTROL (MINOR CONCRETE)

Station	DIRECTION	MINOR CONCRETE
		SQYD
A LINE 18+70.00 TO A LINE 20+06	SB SHOULDER	81.0
TOTAL		81.0

METAL BEAM GUARD RAILING

Station	DIRECTION	MBGR (WOOD POST)	GUARD RAILING DELINEATOR (TYPE F-1)	ALTERNATIVE FLARED END SECTION	OBJ MARKER (L-1)
		LF		EA	
A LINE 18+19.25 TO A LINE 20+45.25	SB	150	2	2	
A LINE 18+50 AND A LINE 20+95					2
TOTAL		150	2	2	2

WATER POLLUTION CONTROL

Station	DIRECTION	TEMPORARY REINFORCED SILT FENCE	TEMPORARY CONCRETE WASHOUT (PORTABLE)
		LF	EA
A LINE 18+19.25 TO A LINE 20+45.25	SB	440	1
TOTAL		440	1

FENCE

Station	DIRECTION	REMOVE CHAIN LINK FENCE	CABLE RAILING
		LF	
A LINE 19+04 TO A LINE 20+04	SB	100	119
TOTAL		100	119

CRASH CUSHION MODULE (SAND FILLED)

Station	DIRECTION	CRASH CUSHION MODULE (SAND FILLED)
		EA
A LINE 20+42	SB	11
TOTAL		11

TRAFFIC CONTROL

Station	DIRECTION	PORTABLE CHANGEABLE MESSAGE SIGN
		EA
*	SB	1
*	NB	1
TOTAL		2

* EXACT LOCATION AND MESSAGE TO BE DETERMINED BY ENGINEER

SUMMARY OF QUANTITIES

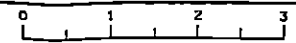
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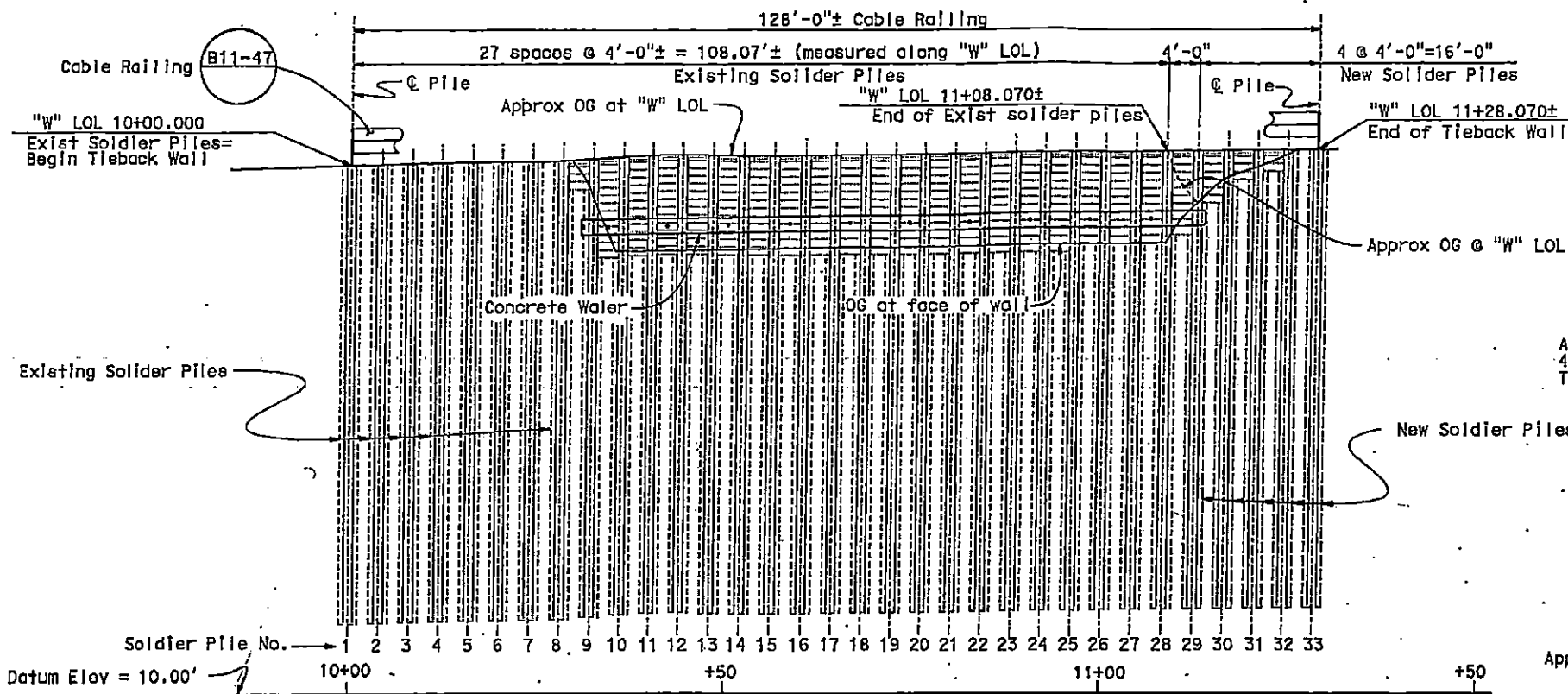
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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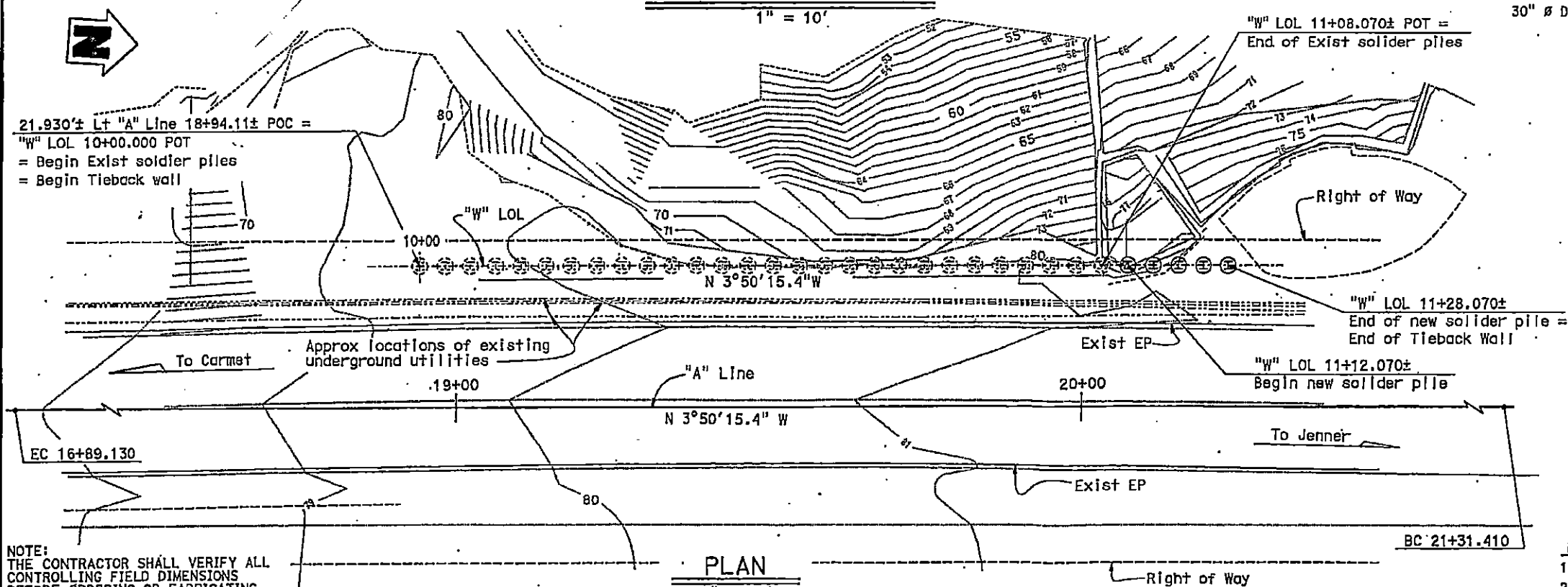
REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA





MIRROR ELEVATION

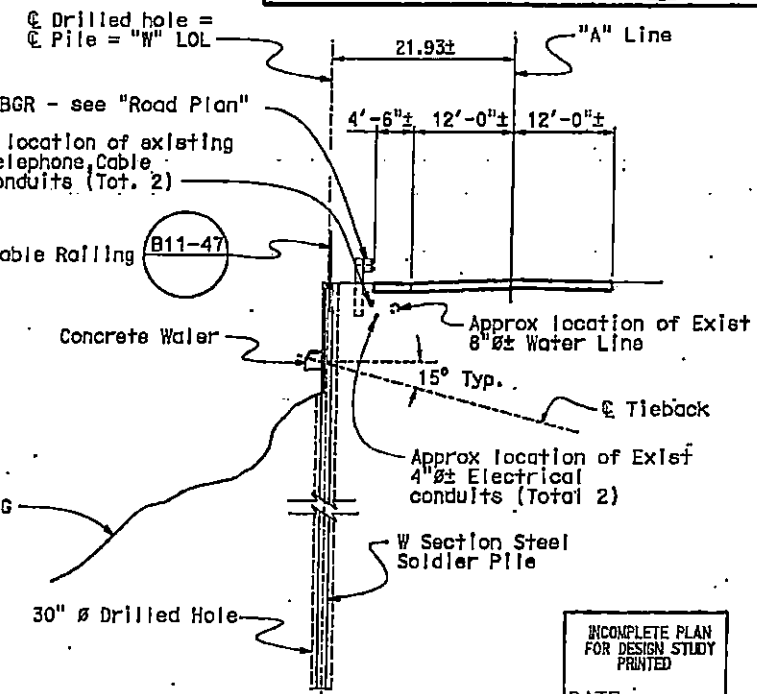
1" = 10'



NOTE:
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CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

PLAN

1" = 10'



TYPICAL SECTION

1" = 10'

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	STRUCTURE PLAN
3	WALL SECTION
4	WALL DETAILS NO. 1
5	WALL DETAILS NO. 2
6	WALL DETAILS NO. 3
7	LOG OF TEST BORINGS

STANDARD PLANS DATED MAY 2006

DETAIL	DESCRIPTION
A10A	ACRONYMS AND ABBREVIATIONS A-L
A10B	ACRONYMS AND ABBREVIATIONS M-Z
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
B11-47	CABLE RAILING

STANDARD PLAN SHEET NO.

DETAIL NO.

Notes

- For "General Notes" see "STRUCTURE PLAN" sheet
- For details of "A" Line, see "LAYOUT SHEETS"

X DESIGN ENGINEER	DESIGN	BY Linan Wang	CHECKED Tuong Ha	LOAD & RESISTANCE FACTOR DESIGN	BY Linan Wang	CHECKED Tuong Ha	STATE OF CALIFORNIA DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 20E0056	GLEASON BEACH TIEBACK WALL GENERAL PLAN
	DETAILS	BY Wei Zhang / Jeff Thorne	CHECKED Linan Wang	LAYOUT	BY Linan Wang	CHECKED Tuong Ha	DESIGN BRANCH 4	POST MILE 15.5	
	QUANTITIES	BY X	CHECKED X	SPECIFICATIONS	BY Denise Blakeley	CHECKED X	CU 04 EA 422101	15.5	

ORIGINAL SCALE 3/8 INCHES
FOR REDUCED PLANS

FILE => 04-422101-a-rp.dgn

GENERAL NOTES

DESIGN:

AASHTO Standard Specifications for Highway Bridges dated 1995 with Interim Bridge Design Specifications (Caltrans) 2000.

SOIL PARAMETERS:

(For determination of design lateral earth pressures)

Active: $\phi = 30^\circ$ $\gamma_m = 120$ pcf $C = 0$

Passive: $\phi = 25^\circ$ $\gamma_m = 120$ pcf $C = 1500$ psf

REINFORCED CONCRETE:

$f'_c = 4.0$ ksi (Concrete compressive strength at 28 days)

$f_y = 60$ ksi (Yield strength of reinforcement)

STRUCTURAL STEEL:

$f_s = 28$ ksi

$f_y = 50$ ksi

GENERAL NOTES (Cont)

STRUCTURAL TIMBER:

Treated Douglas Fir, Grade No. 1 or better.
Timber to be full sawn.

PRESTRESS STEEL (TIEBACKS)

Strands - ASTM designation: A416

T = Design force per Tieback = 98 kips

f_{pu} = Minimum tensile strength of prestressing steel (ksi per square millimeter)

A_s (Min) = Minimum cross sectional area of prestressing steel in Tieback tendon. (square millimeter)

$$A_s \text{ (Min)} = \frac{1.5 T}{0.75 f_{pu}}$$

Notes:

- For pile sections, see "WALL SECTION" sheet.
- Cable Railing not shown.
- MBGR not shown. (See "ROAD PLANS" sheet)
- The construction of new soldier pile shall be staggered and no open holes adjacent.
- Remove lean concrete to bottom of lagging where it requires

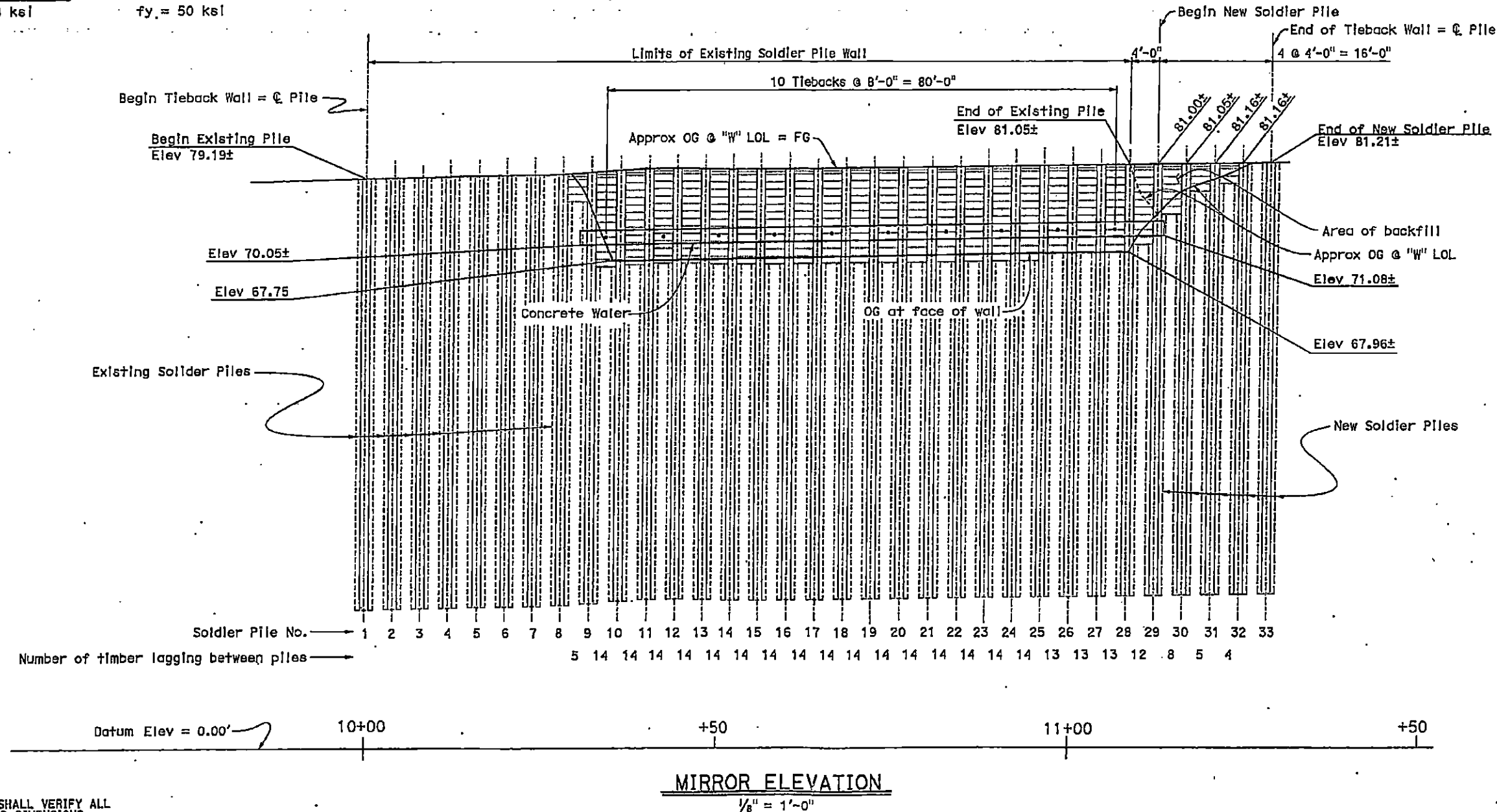
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04	San	1	15.5		

REGISTERED CIVIL ENGINEER	DATE
Linao Wang	12-31-03

PLANS APPROVAL DATE

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NOTE:
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CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

DESIGN	BY Linao Wang	CHECKED Tuong Ha
DETAILS	BY Wei Zhong	CHECKED Linao Wang
QUANTITIES	BY	CHECKED

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO.
20E0056
POST MILE
15.5

GLEASON BEACH TIEBACK WALL
STRUCTURE PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/03)

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

CU 04
EA 422101

(FILE => 04-422101-c-sp01.dgn)

REVISION DATES

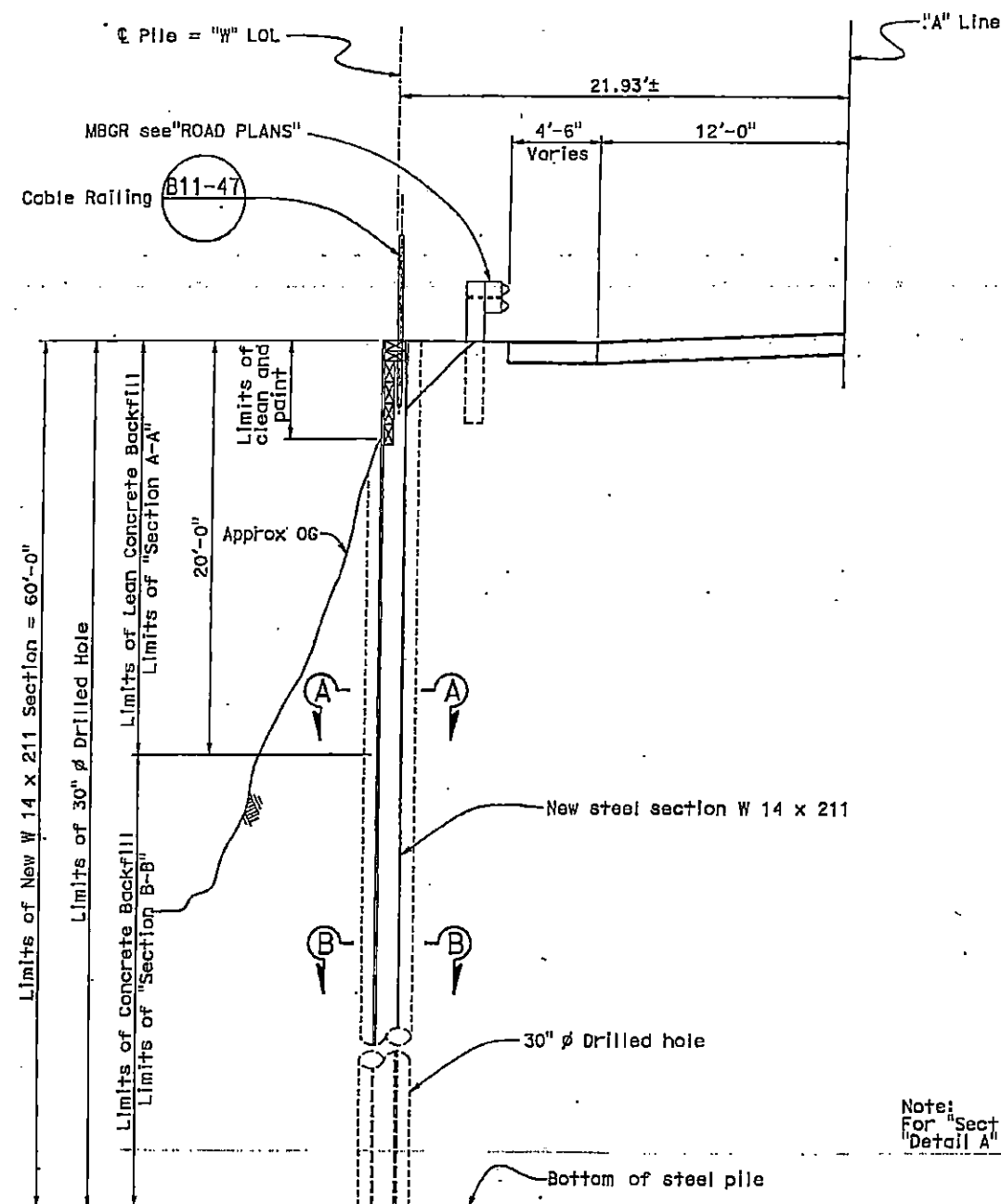
REVISION DATES

SHEET 2 OF 7

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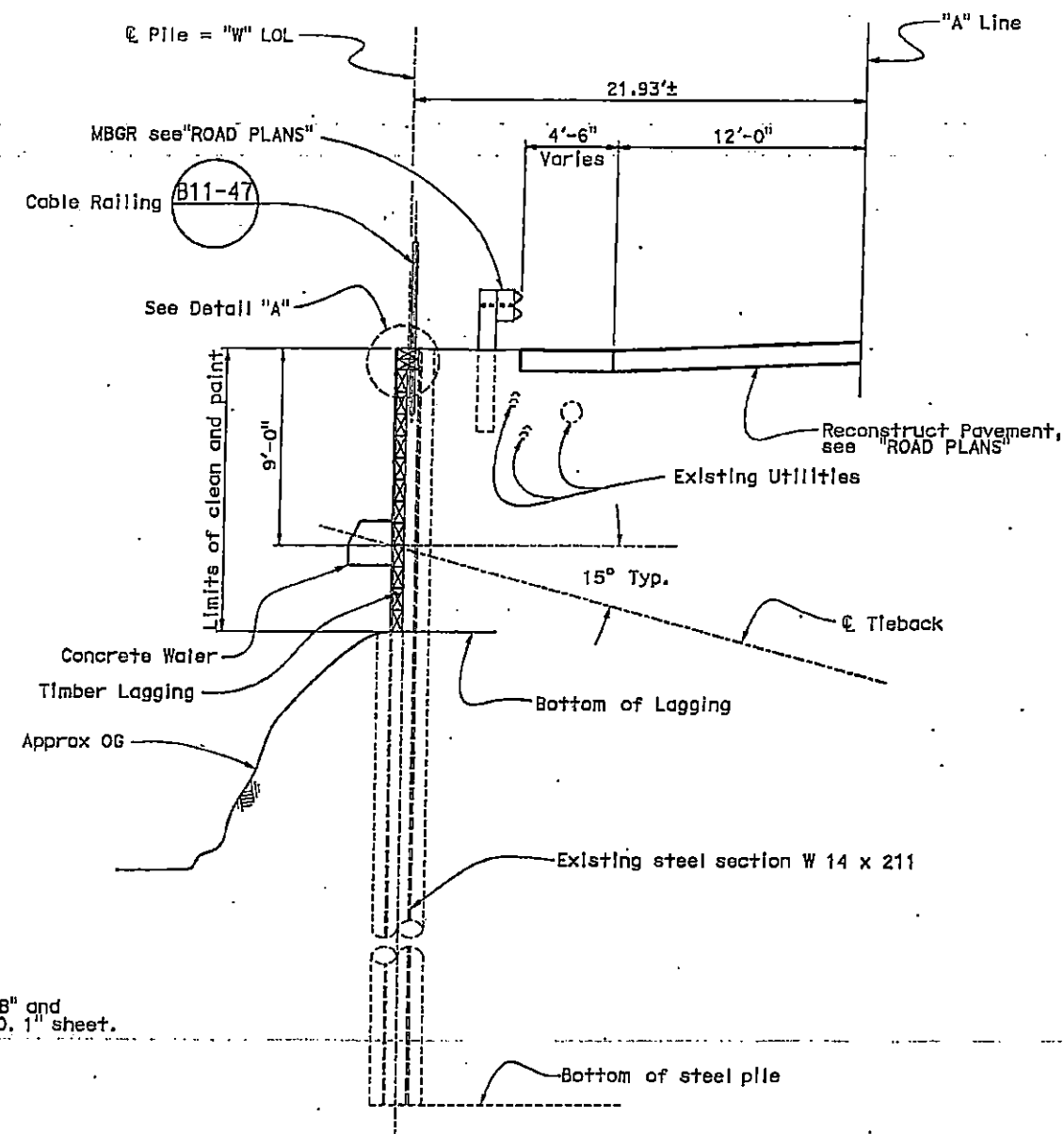
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE _____
 X
 L. Linan Wang
 No. 54714
 PLAN APPROVAL DATE 12-31-02
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SOLDIER PILE SECTION @ PILE #29 TO #33
 1/4" = 1'

NOTE:
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 CONTROLLING FIELD DIMENSIONS
 BEFORE ORDERING OR FABRICATING
 ANY MATERIAL.



SOLDIER PILE SECTION @ PILE #9 TO #28
 1/4" = 1'

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/09)	DESIGN	BY Linan Wang	CHECKED Tuong Ho	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 4	BRIDGE NO.	GLEASON BEACH TIEBACK WALL	
	DETAILS	BY Wei Zhang	CHECKED Linan Wang			20E0056	WALL SECTION	
	QUANTITIES	BY X	CHECKED X			POST MILE	15.5	

CU 04
 EA 422101
 FILE => 04-422101-g_tsol.dgn

REVISION DATA				SHEET	OF
3	4	5	6	3	7

DATE PLOTTED => 29-JUN-2010
 TIME PLOTTED => 13:30
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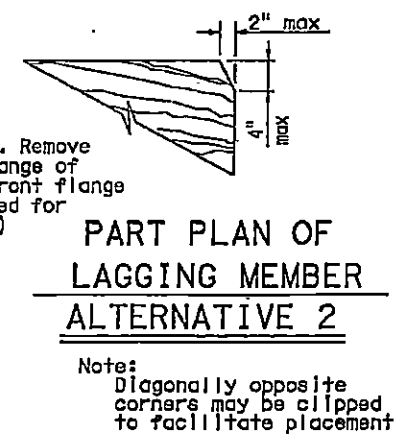
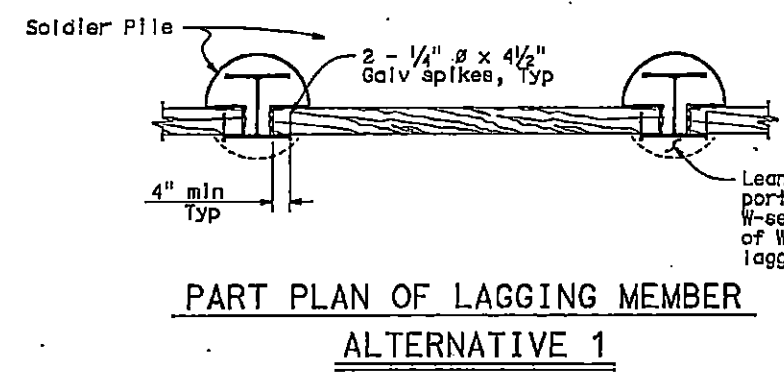
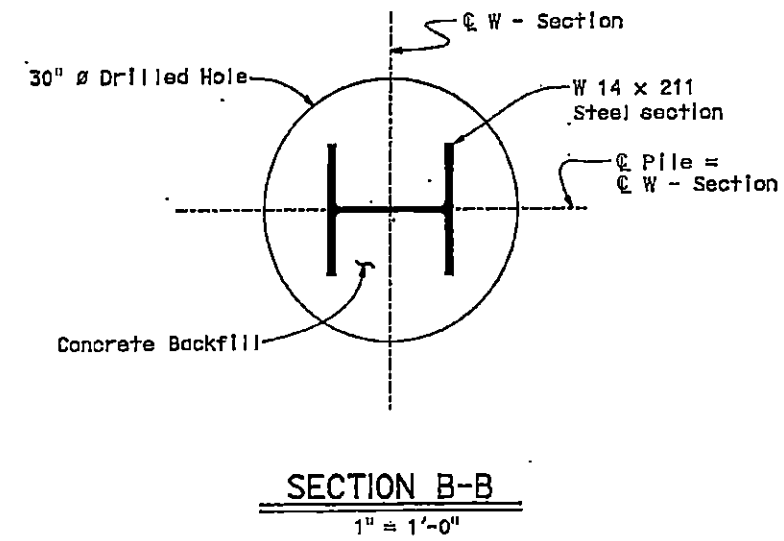
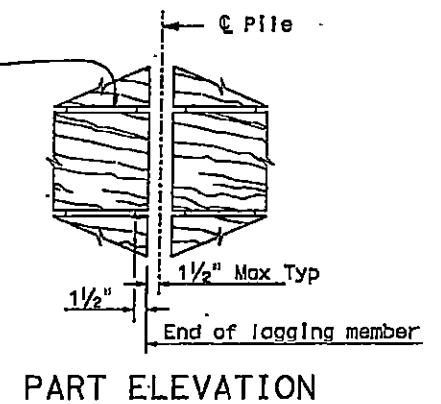
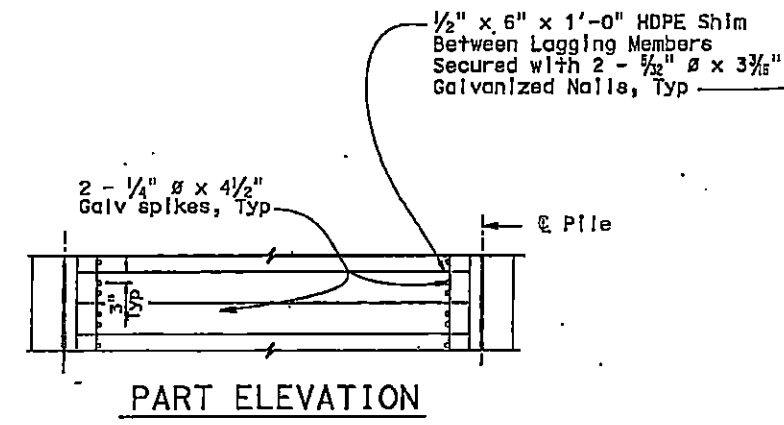
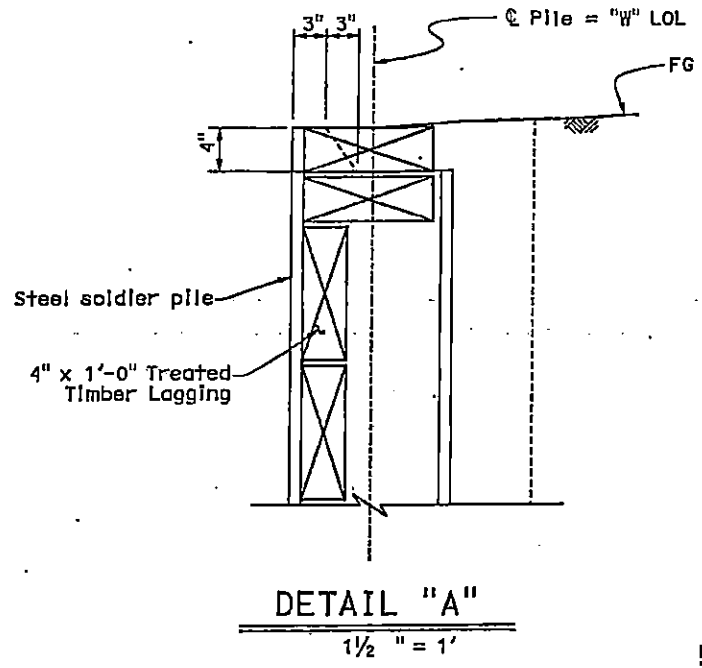
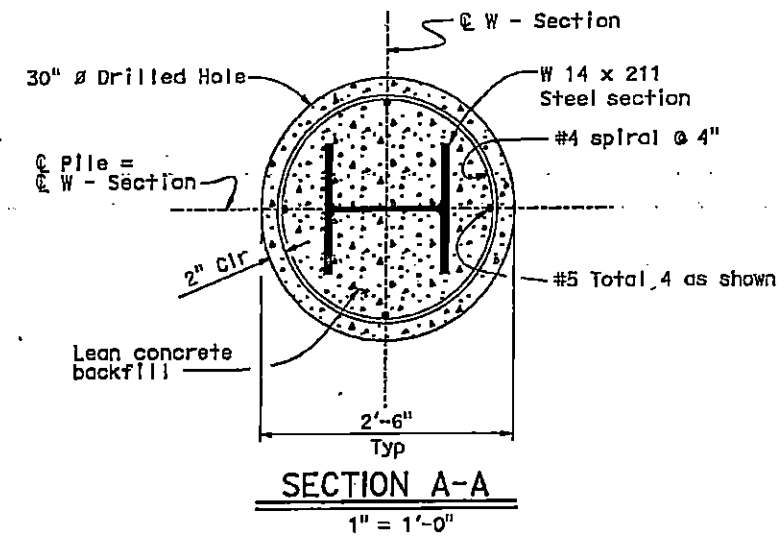
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE X

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Linan Wang
No. 84714
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

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- Note:
1. No clipping of corners allowed;
 2. Place lagging members parallel to the top of wall;
 3. Spikes shall not be bent.

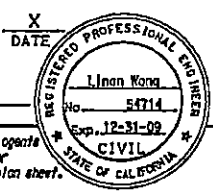
LAGGING DETAILS
No Scale

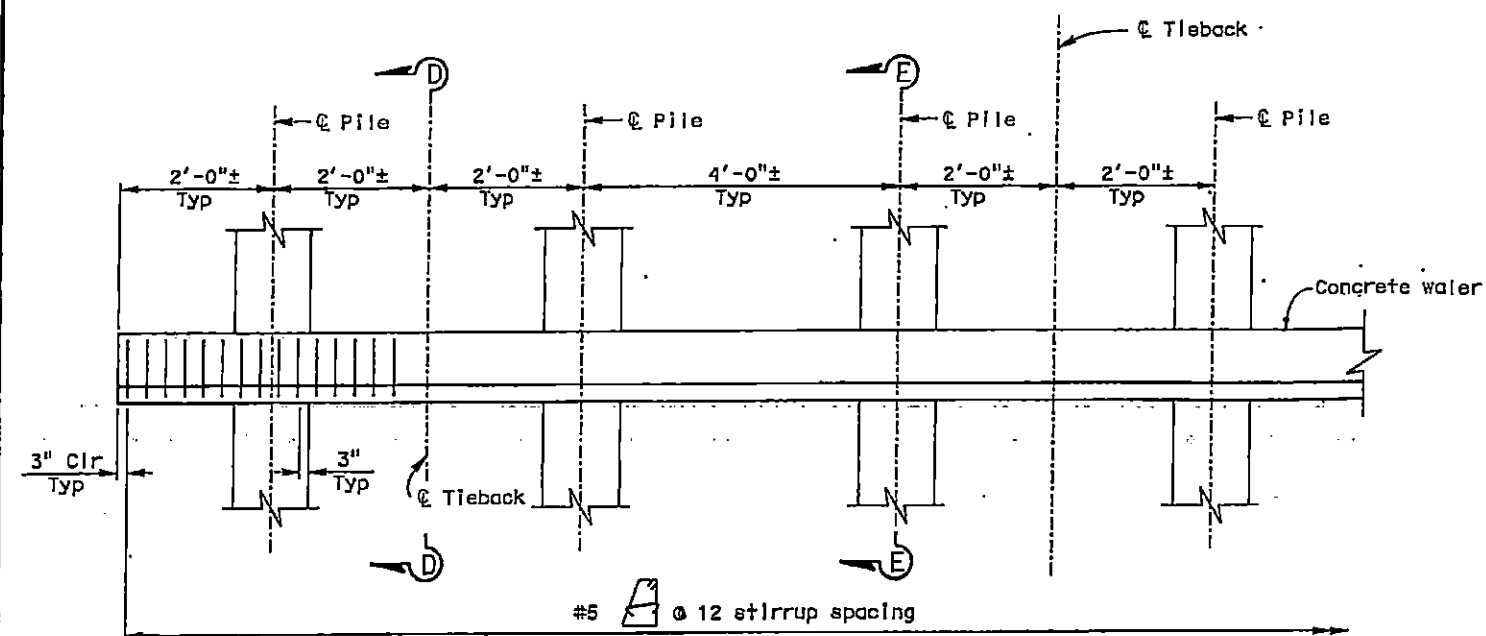
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Linan Wang	CHECKED Tuong Ho	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 20E0056	GLEASON BEACH TIEBACK WALL
DETAILS	BY Wei Zhang	CHECKED Linan Wang	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	POST MILE 15.5	WALL DETAILS NO. 1
QUANTITIES	BY X	CHECKED X		DESIGN BRANCH 4		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 04 EA 422101		DISSEMINATE PRINTS BEARING EARLIER REVISION DATES	
			FILE => 04-422101-g-df01.dgn		REVISION DATES	
					SHEET 4 OF 7	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/29/09) TIME PLOTTED => 10:20 USERNAME => C:\1311 DATE PLOTTED => 28-JUN-2010

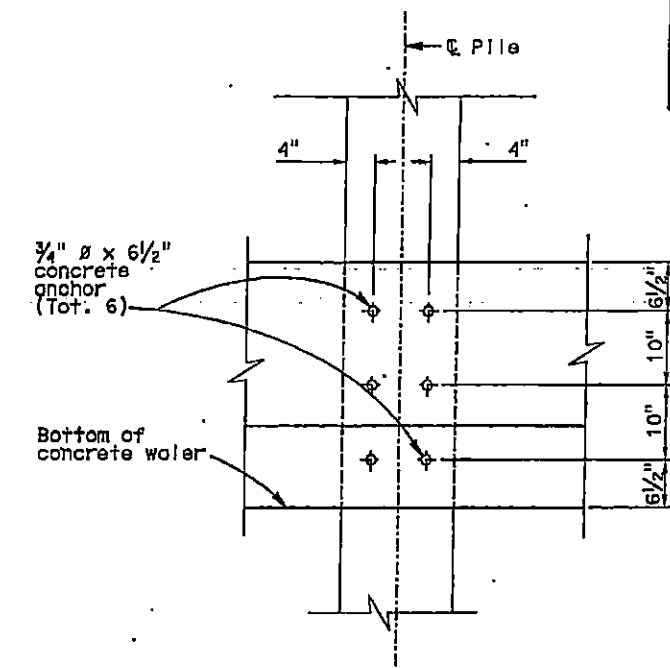
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	1			

REGISTERED CIVIL ENGINEER	DATE	X
		
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.		

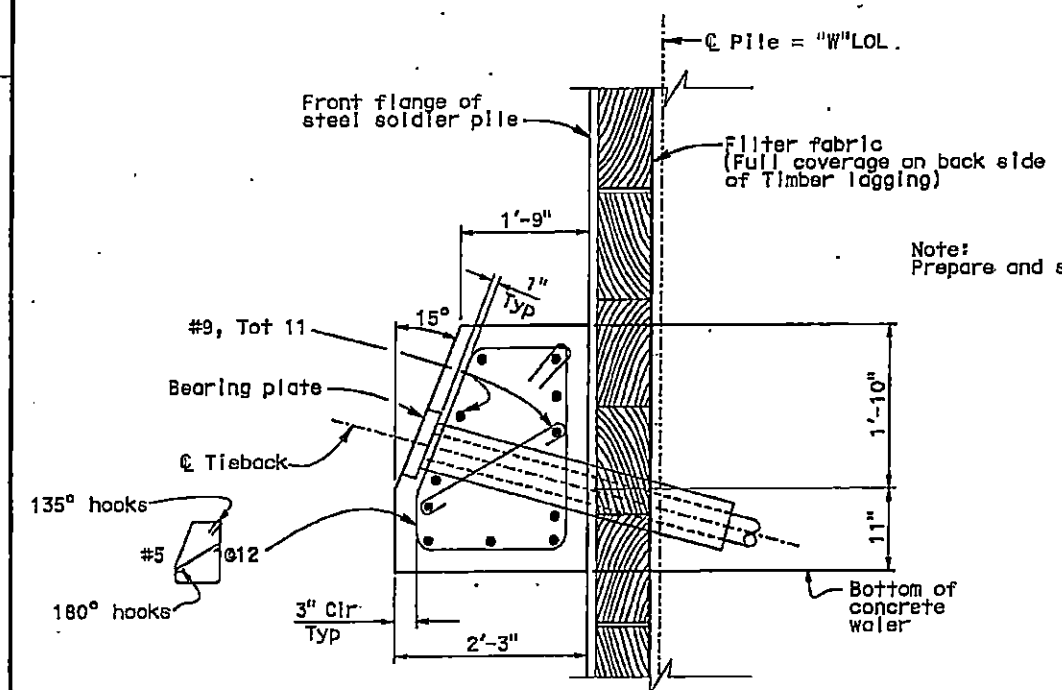


PART ELEVATION
No scale

Note: Timber lagging not shown

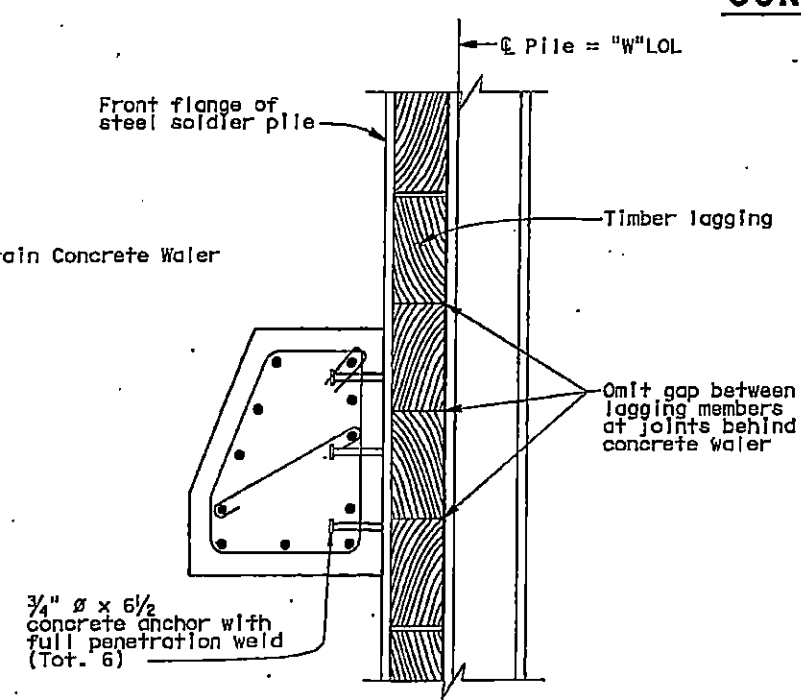


CONCRETE ANCHOR PLACEMENT
No Scale



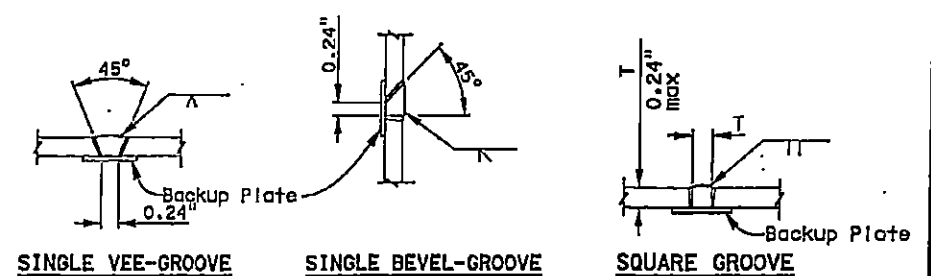
SECTION D-D
No scale

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION E-E
No scale

Note: For details and dimensions not shown. See "SECTION D-D"



PILE WELDING DETAIL - BUTT JOINTS
No Scale

- Notes :
1. Single Vee-Groove permitted for all positions.
 2. Single Bevel-Groove permitted for horizontal joints only

DESIGN BY Linan Wang CHECKED Tuang Ho DETAILS BY Hui Zhang CHECKED Linan Wang QUANTITIES BY X CHECKED X		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 4	BRIDGE NO. 20E0056 POST MILE 15.5	GLEASON BEACH TIEBACK WALL WALL DETAILS NO. 2
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/28/05)		ORIGINAL SCALE 1/4" = 1'-0" FOR REDUCED PLANS	CU 04 EA 422101 FILE => 04-422101-p-d102.dgn	REVISION DATES 1-10-10 5-20-10	SHEET 5 OF 7

USER NAME: p0410107 DATE PLOTTED: 23-JUN-2010 TIME PLOTTED: 15:32

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Son	1	15.5		

REGISTERED CIVIL ENGINEER DATE X

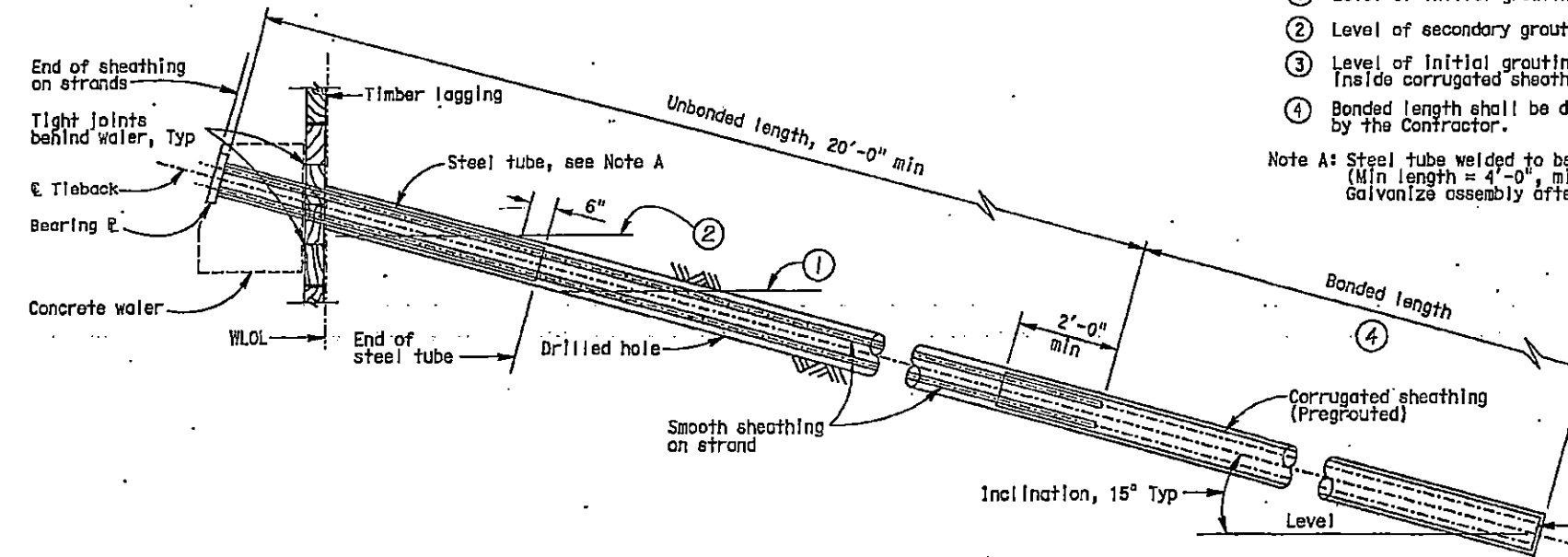
PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
Linan Wang
No. 54714
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

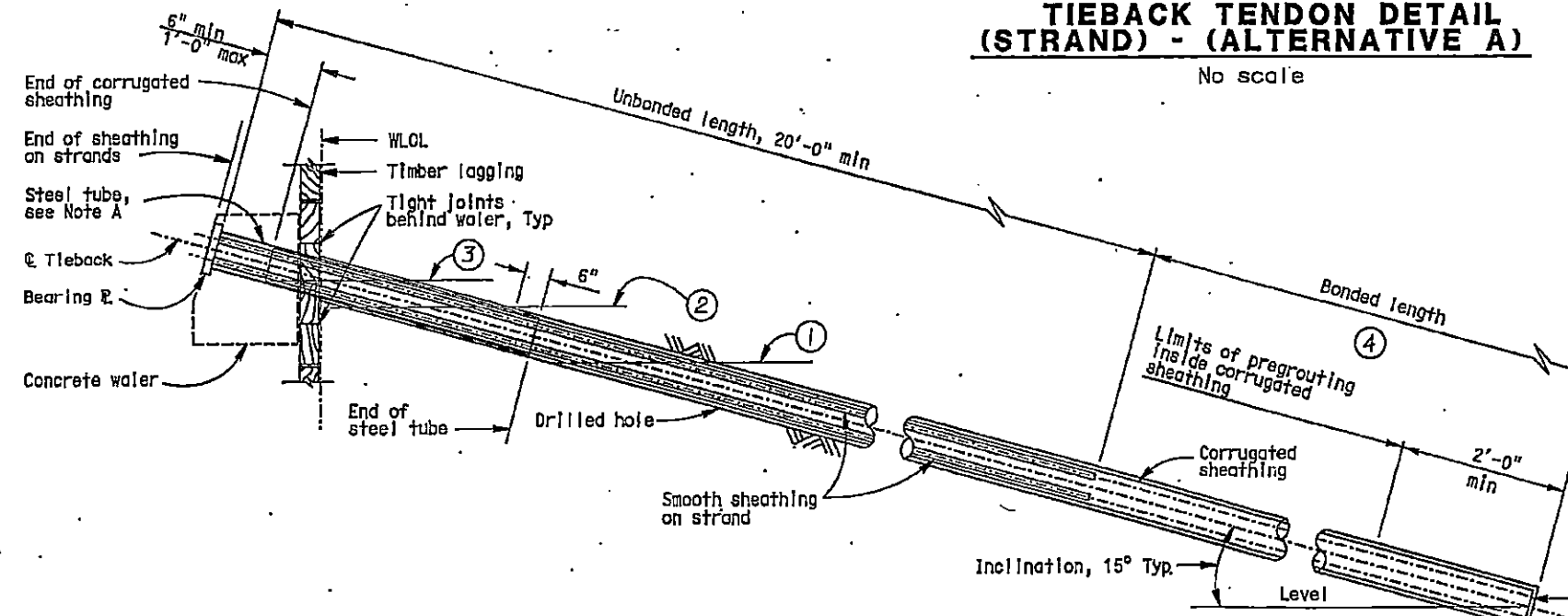
- Notes:
- ① Level of initial grouting
 - ② Level of secondary grouting
 - ③ Level of initial grouting inside corrugated sheathing
 - ④ Bonded length shall be determined by the Contractor.

Note A: Steel tube welded to bearing plate (Min length = 4'-0", min thickness = 1/4")
Galvanize assembly after fabrication.



TIEBACK TENDON DETAIL (STRAND) - (ALTERNATIVE A)

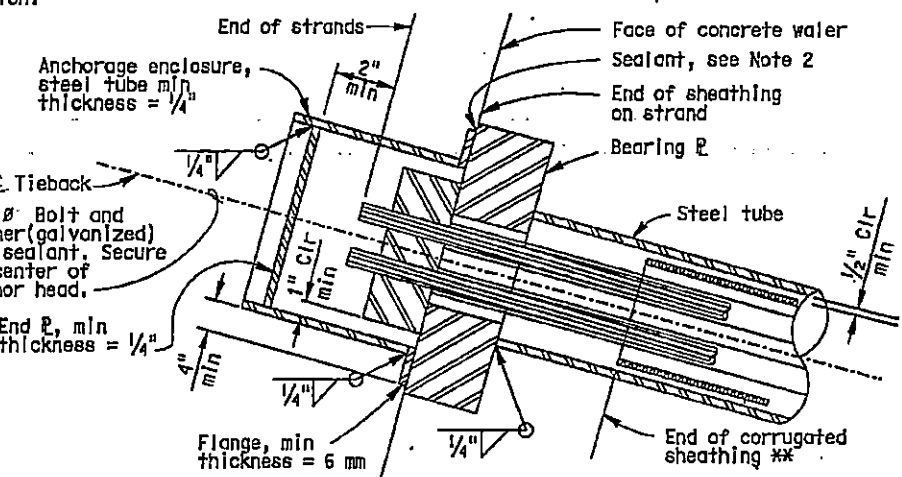
No scale



TIEBACK TENDON DETAIL (STRAND) - (ALTERNATIVE B)

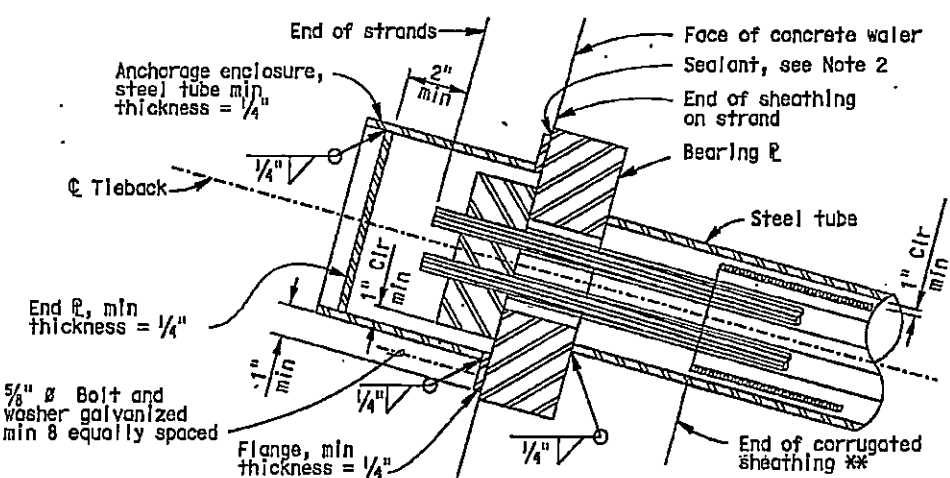
No scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ALTERNATIVE 2

- NOTE:
1. Anchorage enclosure shall have provisions to allow injecting grout at low end and venting at high end. Galvanize after fabrication.
 2. Silicone sealant to cover full width of flange.



ALTERNATIVE 1

ANCHORAGE ENCLOSURE DETAILS

No scale

DESIGN	BY Gyuseok Kwak	CHECKED Linan Wang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X	ORIG. NO. 20E0056	GLEASON BEACH TIEBACK WALL WALL DETAIL NO. 3
DETAILS	BY Wei Zhang	CHECKED Linan Wang			POST MILE 15.5	
QUANTITIES	BY X	CHECKED X			DATE PLOTTED 20-JUN-2010	

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/26/03)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04
EA 422101

DATE PLOTTED 20-JUN-2010

FILE 04-422101-g-dt03.dgn

REVISION DATES

SHEET 6 OF 7