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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN MENDOCINO COUNTY  
NEAR ALBION  
AT NAVARRO RIVER BRIDGE

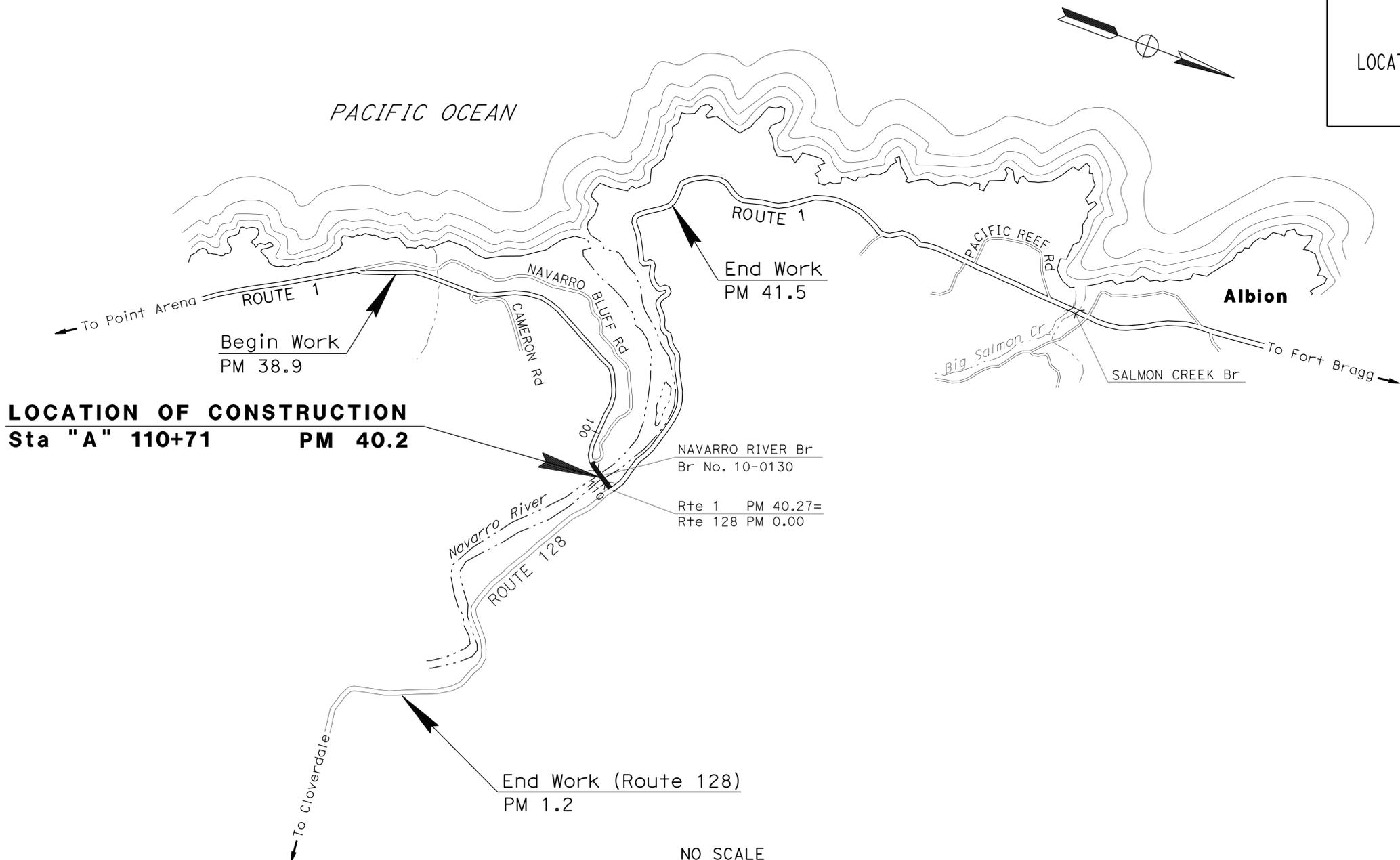
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	1	18





LOCATION MAP



PROJECT MANAGER	Royal B. McCarthy
DESIGN MANAGER	Royal B. McCarthy

 3-19-15  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**March 19, 2015**  
 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

BRENDA HARWELL

No. 64471  
Exp. 6-30-15  
CIVIL  
STATE OF CALIFORNIA

CONTRACT No.	<b>01-0C6104</b>
PROJECT ID	<b>0113000086</b>

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR  
 Royal B. McCarthy  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 Brenda Harwell  
 Johnathon Jackson  
 REVISED BY  
 DATE  
 REVISED  
 DATE

**NOTES:**

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR DETAILS NOT SHOWN SEE STRUCTURES PLANS.

**ROUTE 1 DESIGN DESIGNATION**

(2016) ADT= 1080 D= 60%  
 (2036) ADT= 1290 T= 8%  
 (2016) DHV= 140 V= 55 MPH (DESIGN SPEED)  
 (2035) TI<sub>20</sub> = 8

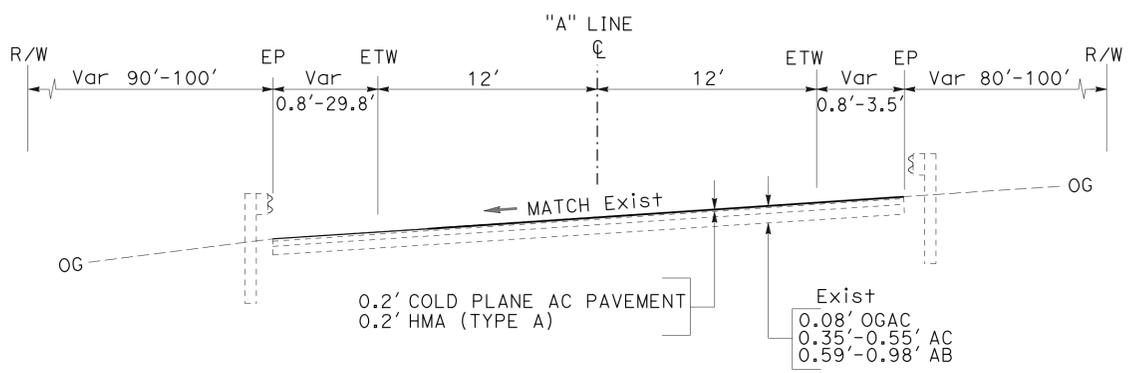
**PAVEMENT CLIMATE REGION**  
 NORTH COAST

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	2	18

REGISTERED CIVIL ENGINEER  
 DATE 3-19-15  
**March 19, 2015**  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 BRENDA HARWELL  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA

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"A" 104+92.83 TO "A" 105+92.83

**ROUTE 1**

**TYPICAL CROSS SECTION**

NO SCALE

**X-1**

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**Caltrans** MAINTENANCE DESIGN  
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 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 REVISED BY: Brenda Harwell  
 DATE REVISED: [Blank]  
 JOHNATHAN JACKSON

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.

CURVE DATA						
CURVE No.	R	$\Delta$	T	L	CURVE PI	
①	360°	63°15'43.4"	221.7'	397.5'	E=6066321.6	N=2202102.9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	3	18

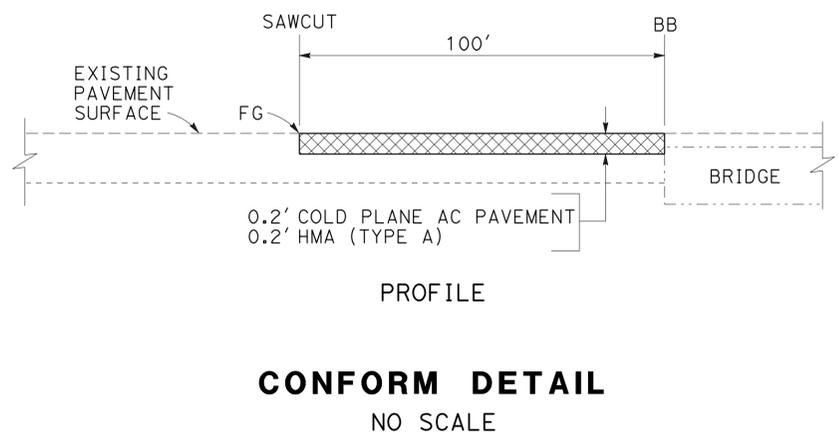
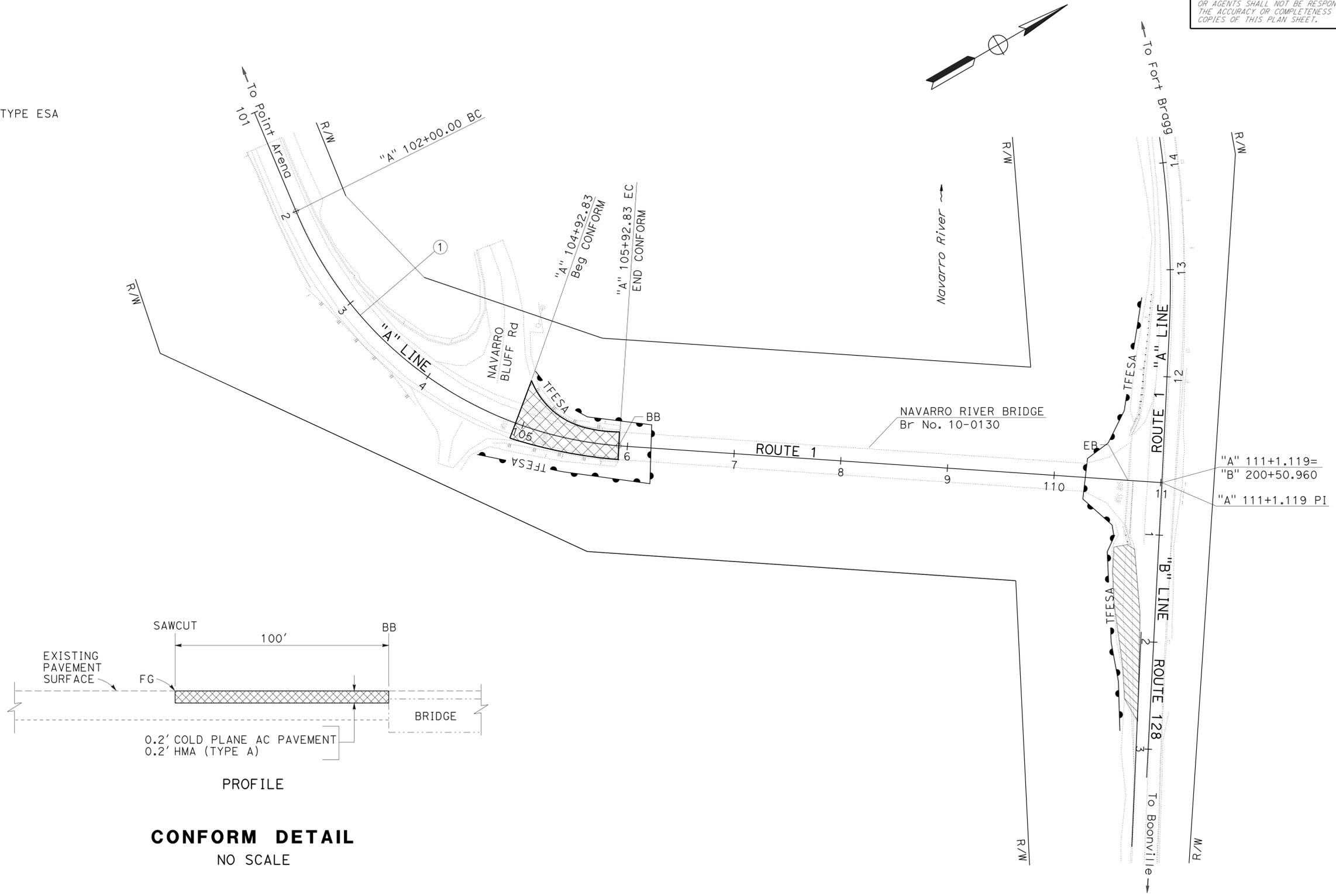
REGISTERED CIVIL ENGINEER DATE 3-19-15  
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 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 BRENDA HARWELL  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA

**LEGEND**

STAGING  
 CONFORM  
 TFESA Temp FENCE TYPE ESA



**LAYOUT**  
SCALE: 1" = 50'

**L-1**



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 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: Brenda Harwell  
 DATE: [Blank]  
 REVISOR: Johnathon Jackson  
 DATE: [Blank]

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.
  - SEE SHEET CS-1 FOR CONSTRUCTION AREA SIGN DESCRIPTIONS.

- LEGEND**
- ⬡ XX STRIPING DETAIL NUMBER
  - CHANNELIZER (SURFACE MOUNTED)
  - TEMPORARY RAILING (TYPE K)
  - ⊗ CONSTRUCTION AREA SIGN
  - ‡ BARRICADE

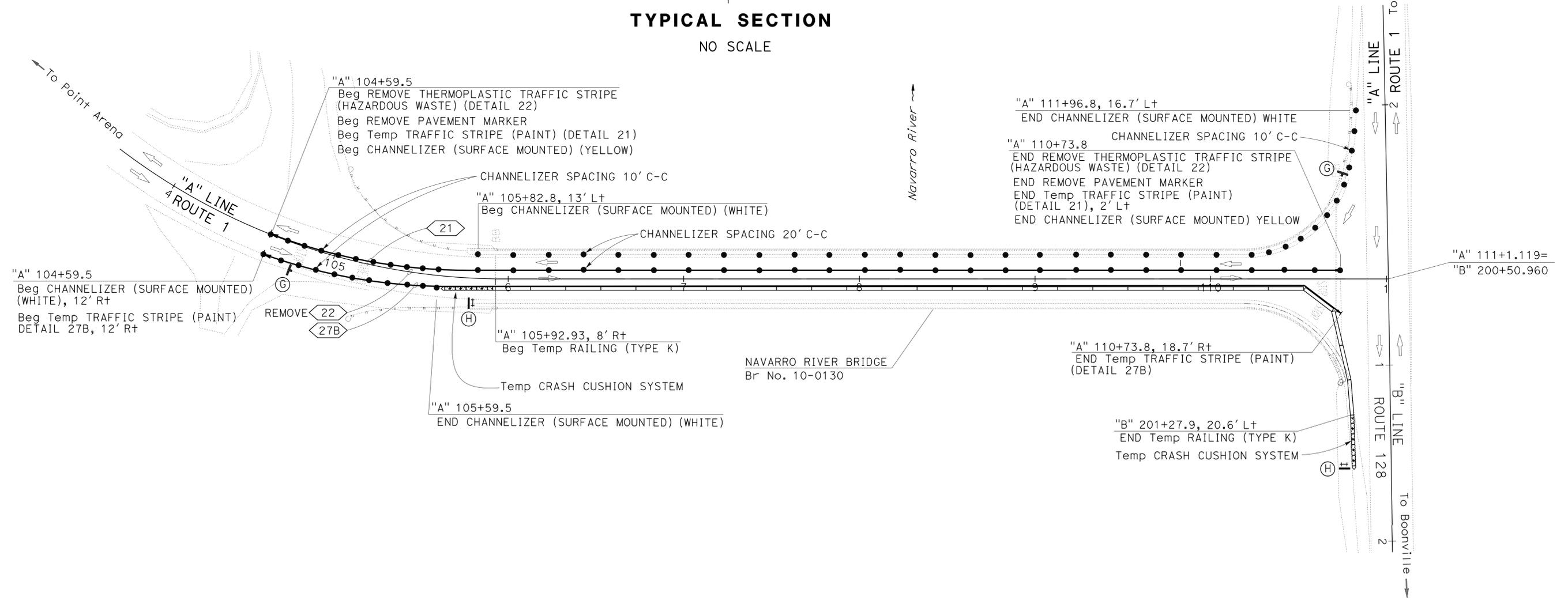
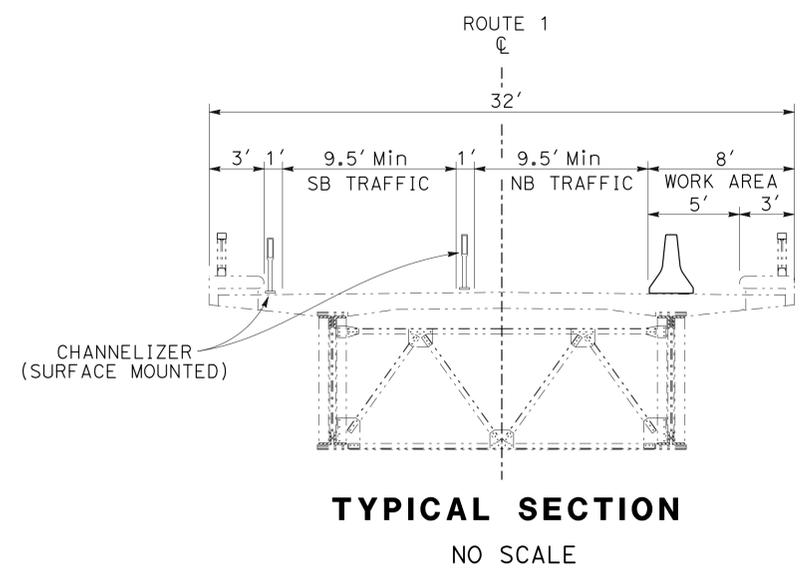
- STAGE 1**
- PERFORM ALL TRAFFIC CONTROL WORK AS REQUIRED BY THIS PLAN.
  - PERFORM CLEAN AND PAINT BRIDGE RAILING AND RECONSTRUCT METAL BRIDGE RAILING ON NB SIDE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	5	18

REGISTERED CIVIL ENGINEER: *Brenda Harwell*  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA

3-19-15 DATE  
**March 19, 2015**  
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APPROVED FOR STAGE CONSTRUCTION WORK ONLY

**STAGE 1**  
**STAGE CONSTRUCTION**  
 SCALE: 1" = 30'  
**SC-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	6	18

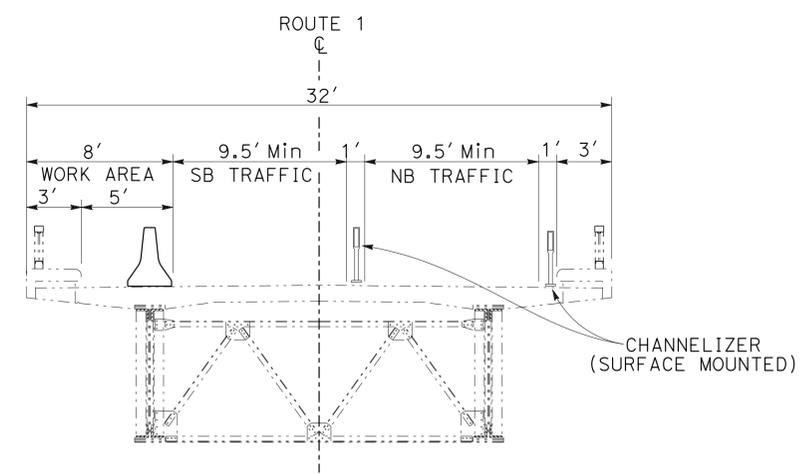
  

<i>Brenda Harwell</i>	3-19-15
REGISTERED CIVIL ENGINEER	DATE
<b>March 19, 2015</b> PLANS APPROVAL DATE	
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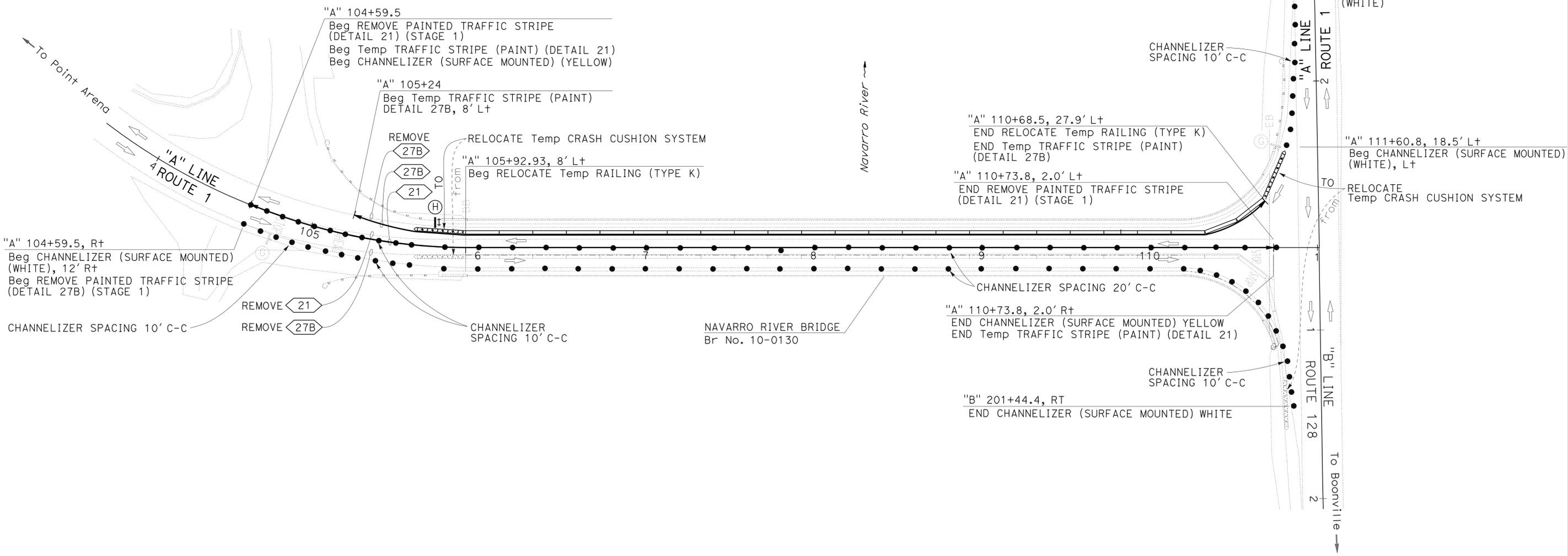
REGISTERED PROFESSIONAL ENGINEER  
 BRENDA HARWELL  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA

STAGE 2

1. PERFORM ALL TRAFFIC CONTROL WORK AS REQUIRED BY THIS PLAN.
2. PERFORM CLEAN AND PAINT BRIDGE RAILING AND RECONSTRUCT METAL BRIDGE RAILING ON SB SIDE.



**TYPICAL SECTION**  
NO SCALE



**STAGE 2**  
**STAGE CONSTRUCTION**

SCALE: 1" = 30'

**SC-2**

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

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 CHECKED BY: Johnathon Jackson  
 DESIGNED BY: Brenda Harwell  
 REVISIONS: REVISOR: DATE: REVISION:

USERNAME => s120115  
DGN FILE => 0113000086ma002.dgn



UNIT 0052

PROJECT NUMBER & PHASE

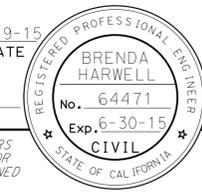
01130000861

LAST REVISION: DATE PLOTTED => 24-MAR-2015  
 00-00-00 TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	7	18

  
 REGISTERED CIVIL ENGINEER DATE 3-19-15  
 March 19, 2015  
 PLANS APPROVAL DATE

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### TEMPORARY RAILING AND CRASH CUSHION

LOCATION/STATION			TEMPORARY RAILING (TYPE K)	RELOCATE TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION SYSTEM	RELOCATE TEMPORARY CRASH CUSHION SYSTEM	REMARKS
FROM	TO	L+/R+	LF	LF	EA	EA	
"A" 105+92.93	"B" 201+27.90	R+	540				STAGE 1
"A" 105+92.93	"A" 110+68.50	L+		480			STAGE 2
"A" 105+60.00		R+/L+			1	1	STAGES 1 & 2
"B" 201+27.90		R+			1		STAGE 1
"A" 110+68.50		L+				1	STAGE 2
TOTAL			540	480	2	2	

### CHANNELIZER

LOCATION/STATION			STAGE	CHANNELIZER (SURFACE MOUNTED)	
FROM	TO	L+/R+		WHITE EA	YELLOW EA
"A" 104+59.5	"A" 110+73.8		1		37
"A" 104+59.5	"A" 105+59.5	R+	1	11	
"A" 105+82.8	"A" 111+96.8	L+	1	34	
"A" 104+59.5	"A" 110+73.8		2		37
"A" 104+59.5	"B" 201+44.4	R+	2	46	
"A" 111+60.8	"A" 112+56.7	L+	2	10	
SUBTOTAL				101	74
TOTAL				175	

### TEMPORARY PAVEMENT DELINEATION

LOCATION/STATION			DETAIL No.	DETAIL LENGTH (N)	TEMPORARY TRAFFIC STRIPE (PAINT)	REMARKS
FROM	TO	L+/R+			LF	
"A" 104+59.5	"A" 110+73.8	R+	27B	631	631	STAGE 1
"A" 104+59.5	"A" 110+73.8		21	614	614	STAGE 1
"A" 104+59.5	"A" 110+73.8		21	614	614	STAGE 2
"A" 105+24.0	"A" 110+68.5	L+	27B	560	560	STAGE 2
TOTAL					2419	

### REMOVE PAVEMENT DELINEATION

LOCATION/STATION			DETAIL No.	DETAIL LENGTH (N)	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER	REMOVE PAINTED TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE CONTRAST TREATMENT	REMARKS
FROM	TO	L+/R+			4" WHITE SOLID LF	4" WHITE BROKEN LF						
"A" 104+59.5	"A" 110+73.8	R+	27B	631								"STOP" (2) & LIMIT LINES
"A" 105+24.0	"A" 110+78.6	L+	27B	560	560							
"A" 104+59.5	"A" 110+73.8		22	614								BLACK CONTRAST PAINT
"A" 104+00.0	"A" 105+24.0	L+	27C	124		27						
"A" 104+59.5	"A" 110+73.8	R+	27B	631				631				REMOVE IN STAGE 2
"A" 104+59.5	"A" 110+73.8		21	614				2456				REMOVE AFTER STAGES 1 & 2
"A" 105+24.0	"A" 110+68.5	L+	27B	560				560				
SUBTOTAL					1191	27						
TOTAL					1218		1228	54	3647	93	480	

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY

## STAGE CONSTRUCTION QUANTITIES SCQ-1



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**Caltrans** MAINTENANCE DESIGN  
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 CHECKED BY: [Blank]  
 REVISIONS: [Blank]  
 REVISOR: [Blank]  
 DATE: [Blank]  
 DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 DATE: [Blank]  
 DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 DATE: [Blank]

**LEGEND**

- TRAFFIC STRIPE DETAIL NUMBER
- LIMIT OF NEW TRAFFIC STRIPE
- CHANGE OF TRAFFIC STRIPE DETAIL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	9	18

REGISTERED CIVIL ENGINEER: *Brenda Harwell*  
 DATE: 3-19-15  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA

**March 19, 2015**  
 PLANS APPROVAL DATE

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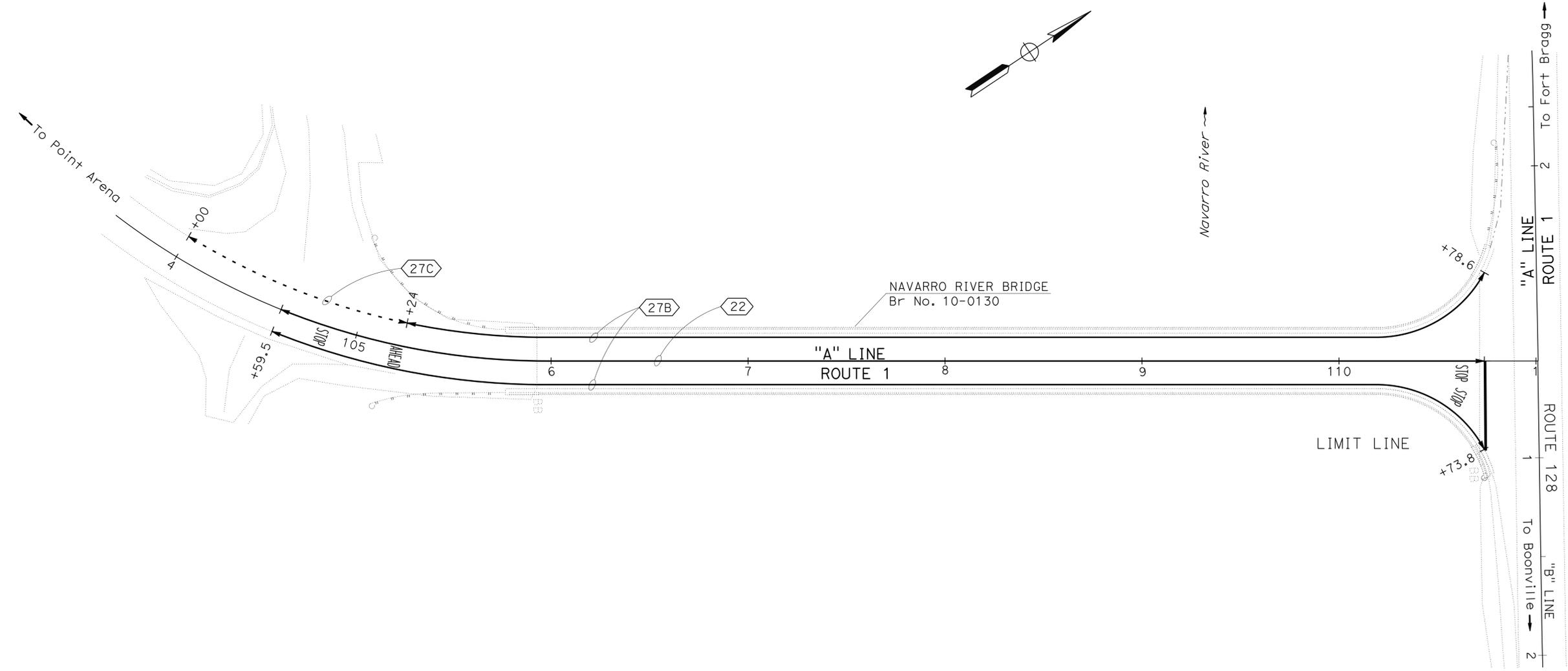
**PAVEMENT DELINEATION QUANTITIES**

LOCATION/STATIONING			DETAIL No.	DETAIL LENGTH (N)	THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE)	REMARKS
					4" WHITE BROKEN (12-3)	4" WHITE SOLID	4" YELLOW SOLID	TYPE D	
FROM	TO	L+/R+			LF		EA		
"A" 104+00.0	"A" 105+24.0	L+	27C	124	124			NAVARRO BLUFF Rd	
"A" 104+59.5	"A" 110+73.8	R+	27B	631		631			
"A" 104+59.5	"A" 110+73.8		22	614			54		
"A" 105+24.0	"A" 110+78.6	L+	27B	560		560			
SUBTOTAL					124	1191	1228		
<b>TOTAL</b>					124	2419		54	

**THERMOPLASTIC PAVEMENT MARKING**

LOCATION			THERMOPLASTIC PAVEMENT MARKING	
STATION	L+/R+	ORIENTATION	DESCRIPTION	SQFT
"A" 104+82.9	R+	FNBT	STOP	22
"A" 105+22.2	R+	FNBT	AHEAD	31
"A" 110+61.8	R+	FNBT	STOP (2)	44
"A" 110+73.8	R+	FNBT	LIMIT LINE	49
<b>TOTAL</b>				146

(N) = NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.



**PAVEMENT DELINEATION PLAN AND QUANTITIES**

SCALE: 1"=30'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

**PD-1**

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR  
 Royal B. McCarthy  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 Brenda Harwell  
 Johnathon Jackson  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	10	18

REGISTERED CIVIL ENGINEER DATE 3-19-15  
 BRENDA HARWELL  
 No. 64471  
 Exp. 6-30-15  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 March 19, 2015  
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### TEMPORARY FENCE (TYPE ESA)

LOCATION		TEMPORARY FENCE (TYPE ESA)	REMARKS
STATION			
FROM	TO	LF	
"A" 104+87 R+	"A" 104+92 L+	342	Abut 1
"A" 112+80 L+	"B" 202+84 R+	396	Abut 6
TOTAL		738	

### TEMPORARY EROSION CONTROL

LOCATION		TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE	REMARKS
STATION	L+/R+	LF	LF	
"A" 105+92.83	L+/R+	500		Abut 1
"A" 105+92.83	L+/R+		300	Abut 1
TOTAL		500	300	

NOTE: EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

### ROADWAY

LOCATION		COLD PLANE AC PAVEMENT	HMA (TYPE A)	TACK COAT	REMARKS
STATION		SQYD	TON		
FROM	TO				
"A" 104+92.83	"A" 105+92.83	360	67	0.04	CONFORM AT So BRIDGE Abut WIDTH Var FROM 26' TO 57'
TOTAL		360	67	0.04	

## SUMMARY OF QUANTITIES

Q-1

LAST REVISION DATE PLOTTED => 24-MAR-2015  
 00-00-00 TIME PLOTTED => 13:57

M

P continued

S

T continued

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
<p style="text-align: center;">N</p>	
N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE
<p style="text-align: center;">O</p>	
Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN
<p style="text-align: center;">P</p>	
p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm MtI	PERMEABLE MATERIAL

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT
<p style="text-align: center;">Q</p>	
Qty	QUANTITY
<p style="text-align: center;">R</p>	
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
<p style="text-align: center;">T</p>	
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
<p style="text-align: center;">U</p>	
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
<p style="text-align: center;">V</p>	
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
<p style="text-align: center;">W</p>	
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWL	WINGWALL LAYOUT LINE
<p style="text-align: center;">X</p>	
X Sec	CROSS SECTION
Xing	CROSSING
<p style="text-align: center;">Y</p>	
Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	11	18

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
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.

TO ACCOMPANY PLANS DATED 03-19-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

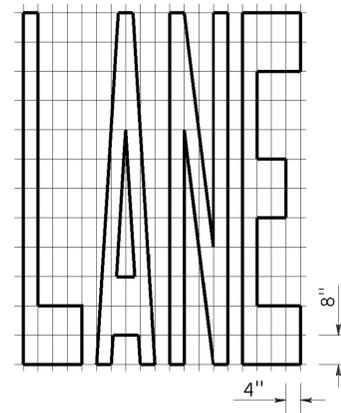
NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

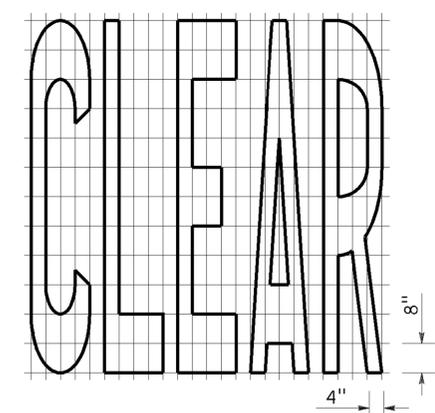
**REVISED STANDARD PLAN RSP A10B**

TO ACCOMPANY PLANS DATED 03-19-15

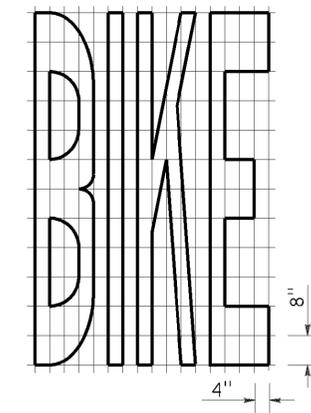
2010 REVISED STANDARD PLAN RSP A24E



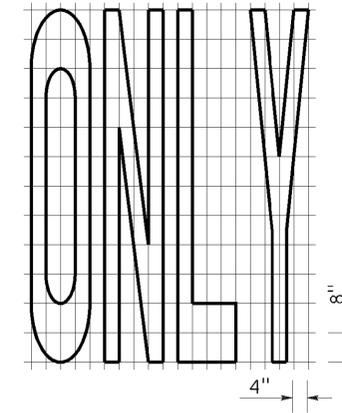
A=24 ft<sup>2</sup>



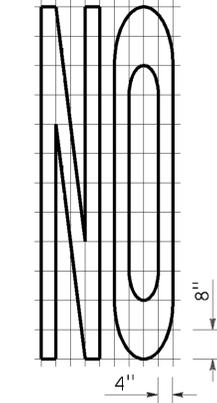
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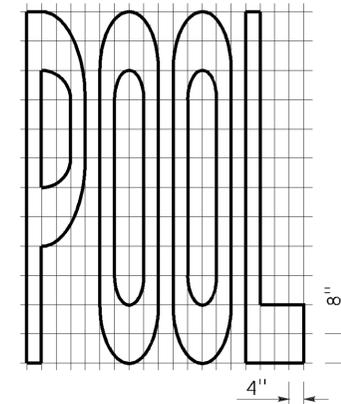
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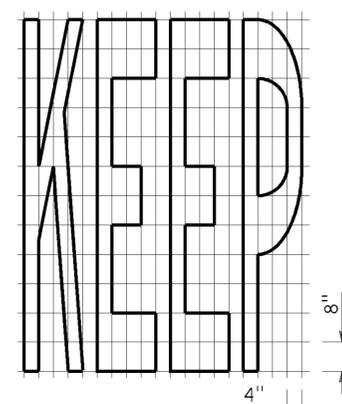
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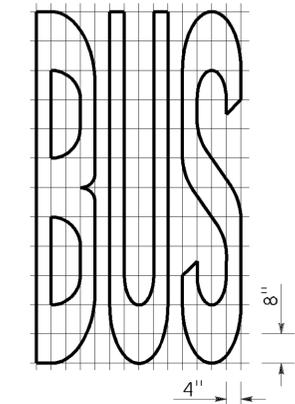
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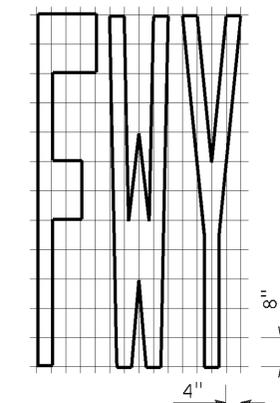
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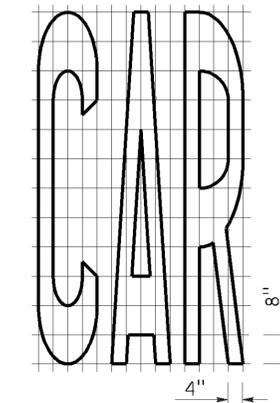
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A=20 ft<sup>2</sup>

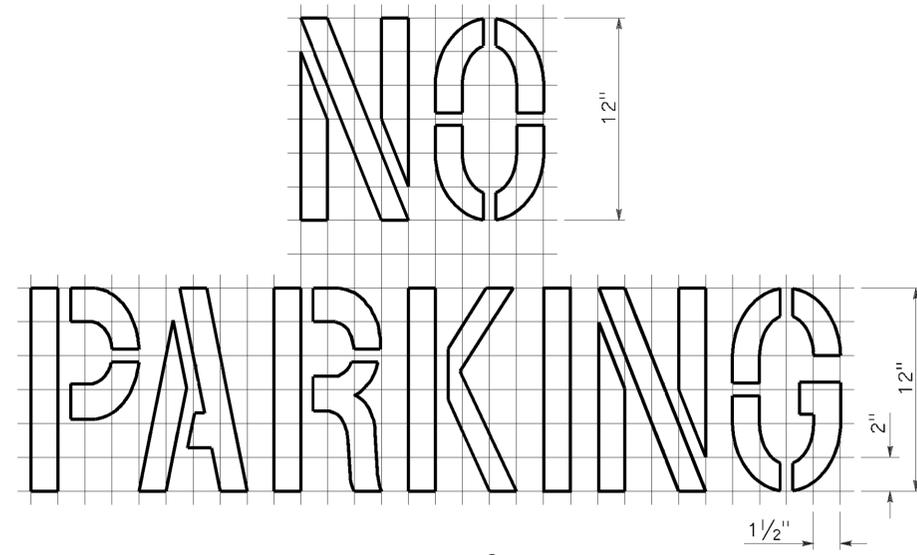


A=16 ft<sup>2</sup>

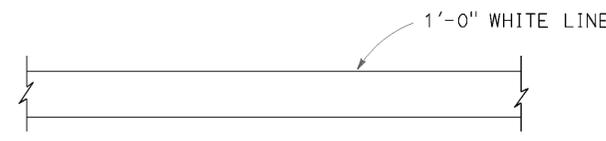


A=17 ft<sup>2</sup>

WORD MARKINGS			
ITEM	ft <sup>2</sup>	ITEM	ft <sup>2</sup>
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft<sup>2</sup>  
See Notes 6 and 7



LIMIT LINE (STOP LINE)



↑  
DIRECTION OF TRAVEL  
YIELD LINE

**NOTES:**

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
WORDS, LIMIT AND YIELD LINES**

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A24E**

NOTES: (APPLY TO ALL SHEETS )

----- Indicates existing.

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**STANDARD PLANS DATED 2010**

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN
2	DETAILS No. 1
3	DETAILS No. 2
4	DETAILS No. 3
5	JOINT SEAL DETAILS
6	TUBE RAIL REPAIR DETAILS

NOTES:

- Spot blast clean and paint undercoat bottom flange edges (total 2 girders), bearing system (total 6) and bottom laterals (L's). See "DETAILS No. 3" sheet for location.
- Spot blast clean and paint undercoat bottom flange (all sides) of girders, diaphragms, and bearing system (total 18). See "DETAILS NO. 3" sheet for location.
- Indicates limits of clean concrete surfaces as determined by the Engineer.
- Spot blast clean and undercoat rusted restrainer cable unit as determined by the Engineer. See "SPOT BLAST TABLE" for locations on "DETAILS No. 3" sheet.

For "SECTION A-A" and "SECTION B-B" SEE "DETAILS No. 1" sheet.  
For "SECTION C-C" see "DETAILS No. 2" sheet.  
For "VIEW D-D" see " JOINT SEAL DETAILS" sheet.

Indicates limits of existing joint reconstruct, clean expansion joint and placement of new joint seal.

QUANTITIES

LEAD COMPLIANCE PLAN	LUMP SUM
WORK AREA MONITORING (BRIDGE)	LUMP SUM
PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	8 SQFT
POLYESTER CONCRETE EXPANSION DAM	6 CF
BRIDGE REMOVAL (PORTION)	LUMP SUM
RECONSTRUCT CURB EXPANSION DAM	10 EA
RECONSTRUCT METAL RAILING (BRIDGE)	925 LF
CLEAN CONCRETE SURFACE	78 SQFT
CLEAN EXPANSION JOINT	195 LF
BONDED JOINT SEAL (MR 1")	168 LF
BONDED JOINT SEAL (MR 2 1/2")	27 LF
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	1,941 SQFT
CLEAN AND PAINT BRIDGE RAILING	LUMP SUM
CLEAN AND PAINT BRIDGE RAILING (EXISTING)	LUMP SUM

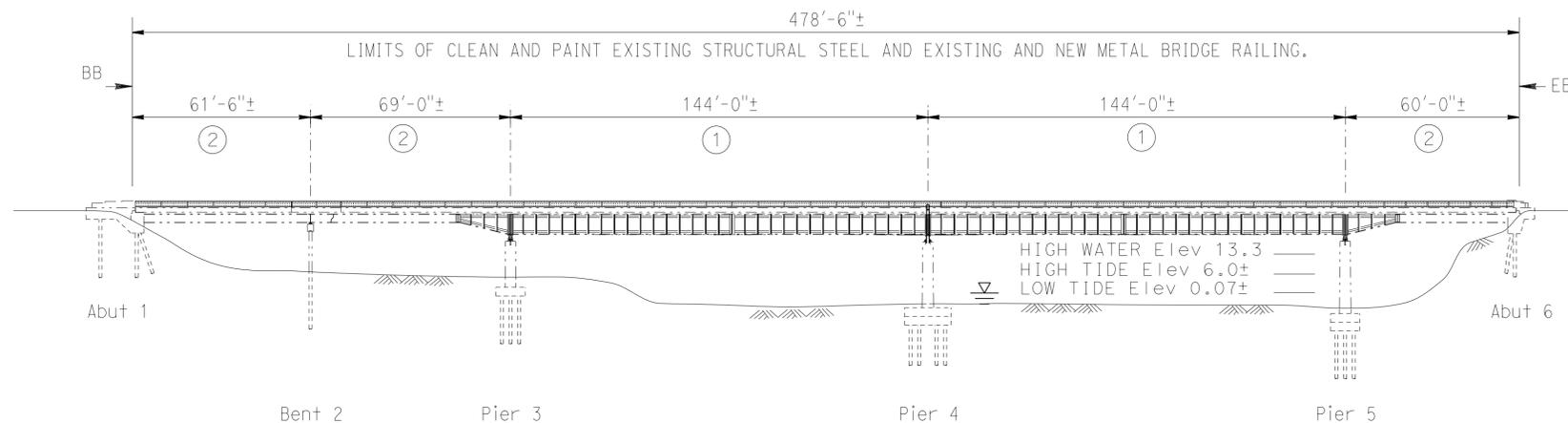
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	13	18

REGISTERED CIVIL ENGINEER DATE 1-30-15

ARLENE FRANK  
No. C 55562  
Exp. 12-31-16  
CIVIL  
STATE OF CALIFORNIA

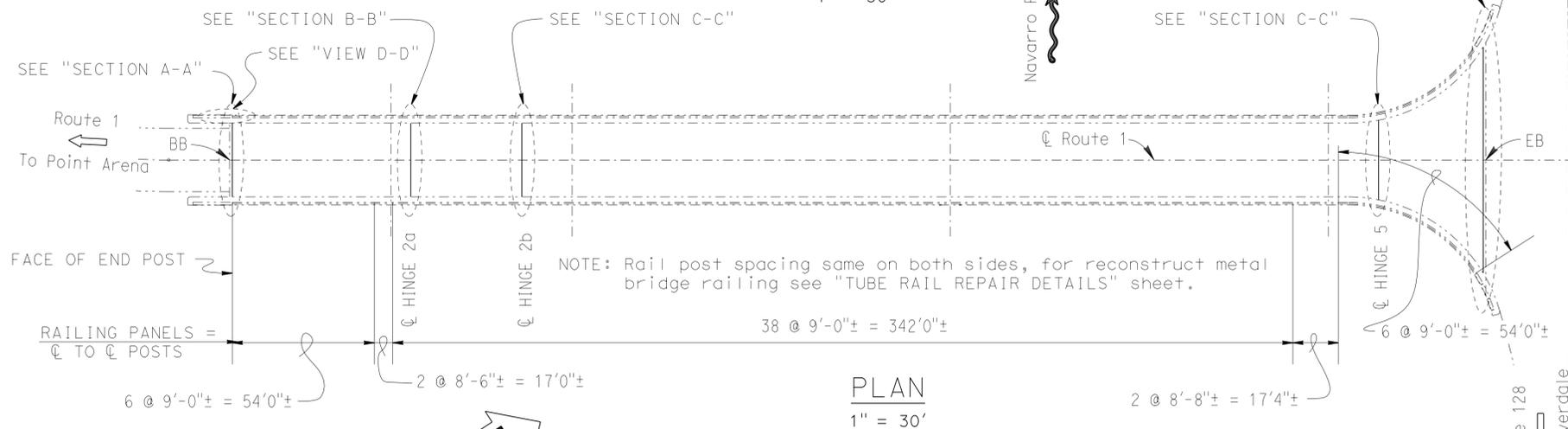
March 19, 2015  
PLANS APPROVAL DATE

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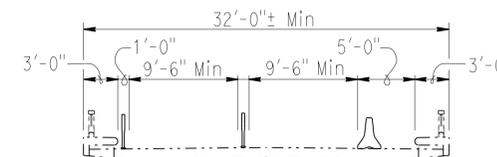
**ELEVATION**

1" = 30'

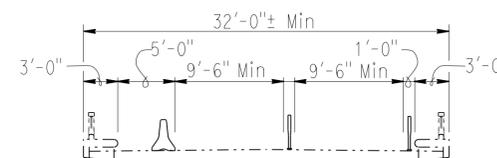


**PLAN**

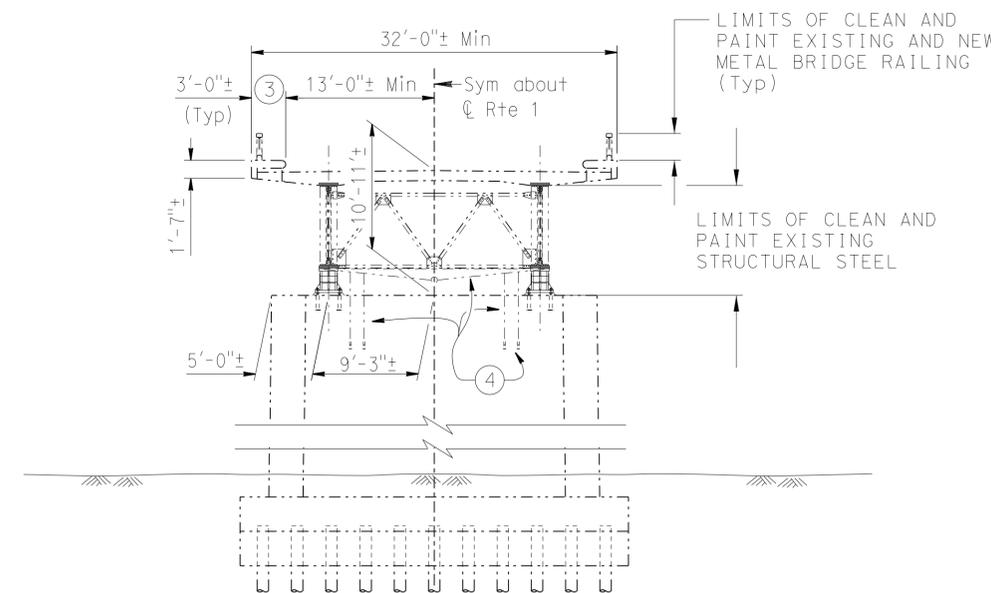
1" = 30'



**STAGE 1 TRAFFIC**



**STAGE 2 TRAFFIC**



**TYPICAL SECTION AT SPAN 3 & 4**

1/8" = 1'-0"

Matthew Lee  
DESIGN ENGINEER  
1-30-15

DESIGN	BY A. FRANK	CHECKED MIKE HASHIMOTO	LOAD FACTOR DESIGN
DETAILS	BY DAVID KISH	CHECKED MIKE HASHIMOTO	LAYOUT
QUANTITIES	BY A. FRANK	CHECKED MIKE HASHIMOTO	SPECIFICATIONS

LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	BY DAVID KISH	CHECKED MIKE HASHIMOTO
PLANS AND SPECS COMPARED	BY TINA CHEN	CHECKED TINA CHEN

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	10-0130
POST MILE	40.18

**NAVARRO RIVER (REPAIR)  
GENERAL PLAN**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3488  
PROJECT NUMBER & PHASE: X

CONTRACT NO.: 01-0c6101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
10-18-13 11-21-13	1	6

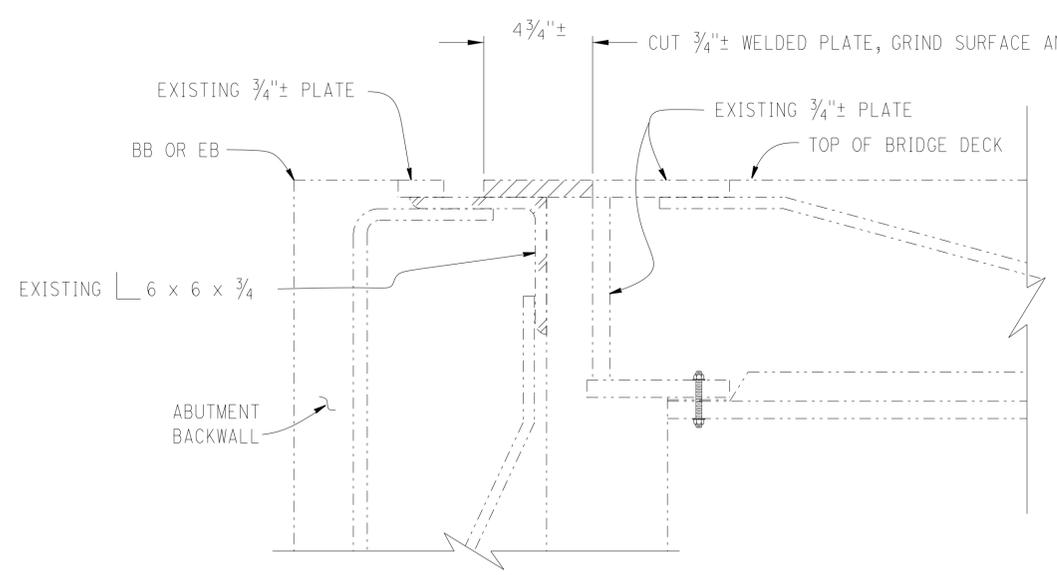
FILE => za001.dgn

USERNAME => s120115 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 13:58

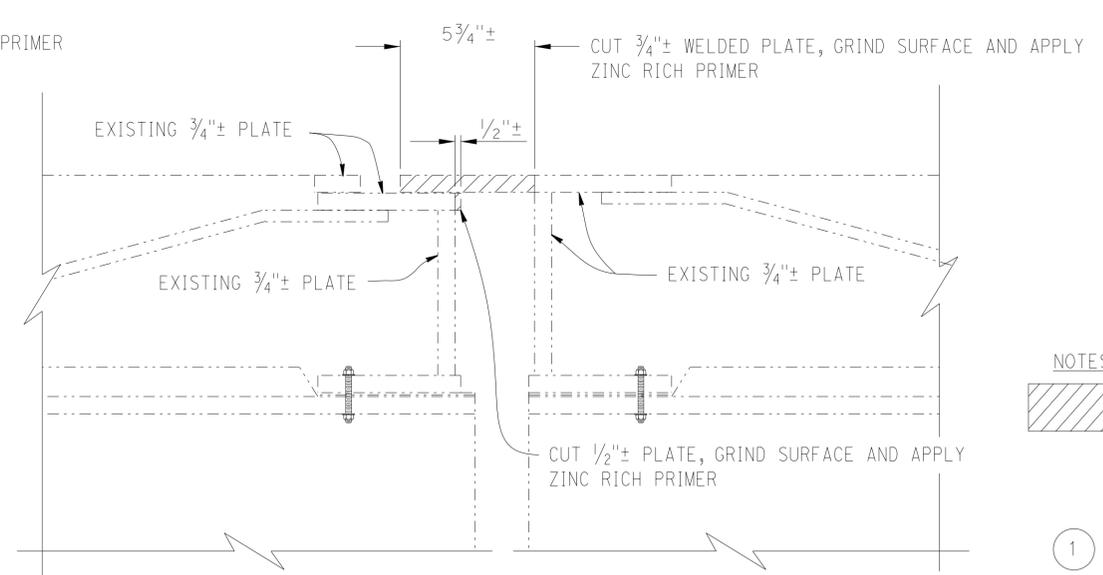
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	14	18

*Arlene Frank* 1-30-15  
 REGISTERED CIVIL ENGINEER DATE  
 March 19, 2015  
 PLANS APPROVAL DATE

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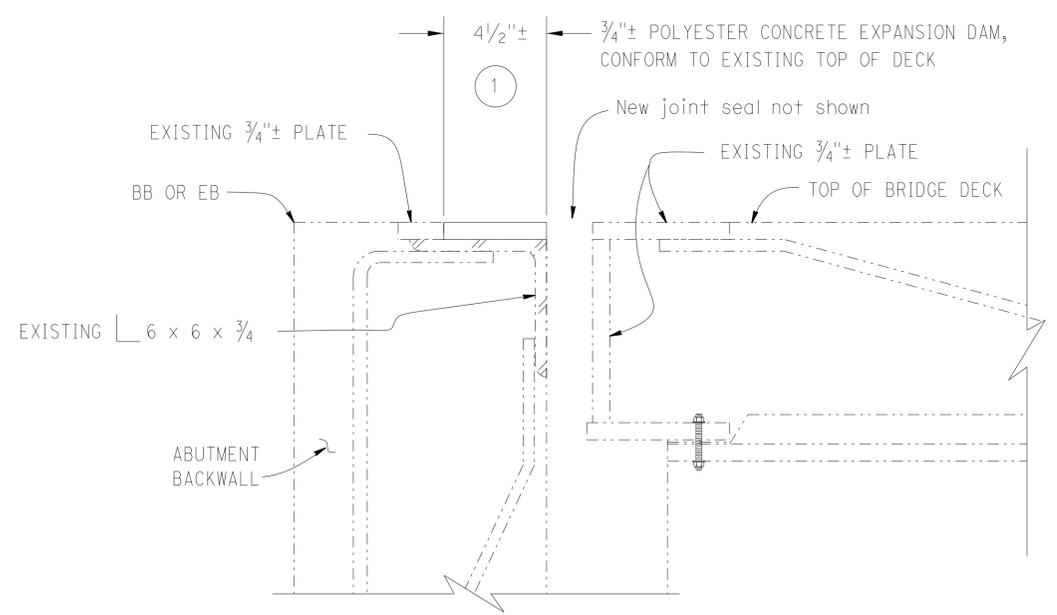


EXISTING



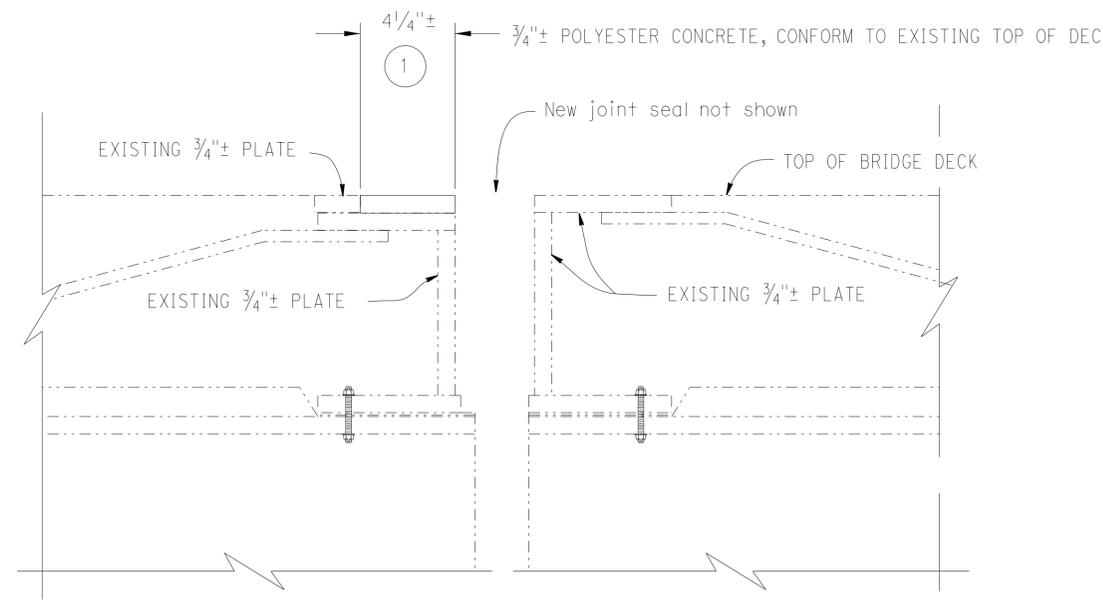
EXISTING

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion). Remove steel sliding plate. Grind surface of plate smooth and apply zinc rich primer.
  - ① Limits of polyester concrete expansion dam.



RECONSTRUCTION

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



RECONSTRUCTION

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

DESIGN	BY A. FRANK	CHECKED MIKE HASHIMOTO
DETAILS	BY DAVID KISH	CHECKED MIKE HASHIMOTO
QUANTITIES	BY A. FRANK	CHECKED MIKE HASHIMOTO

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	10-0130
POST MILE	40.18

**NAVARRO RIVER (REPAIR)**  
**DETAILS No. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	15	18

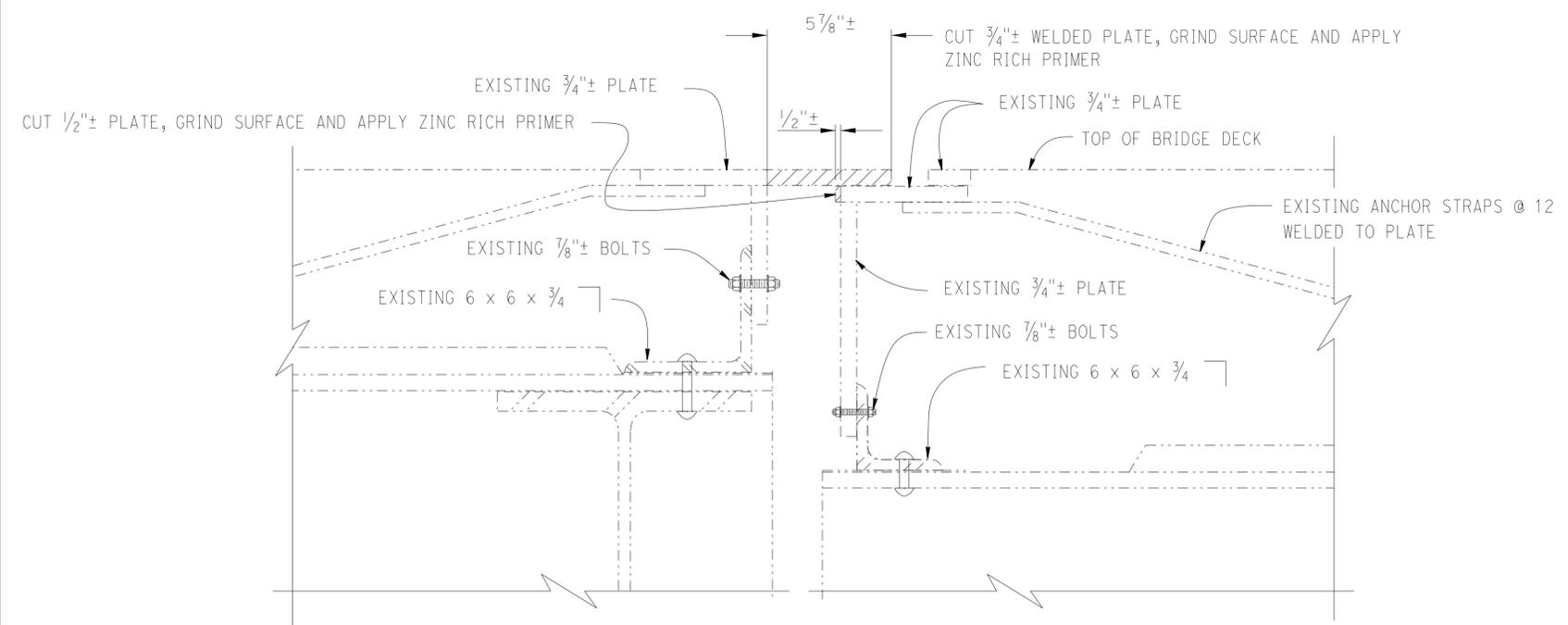
  

<i>Arlene Frank</i> 1-30-15 REGISTERED CIVIL ENGINEER DATE	
March 19, 2015 PLANS APPROVAL DATE	

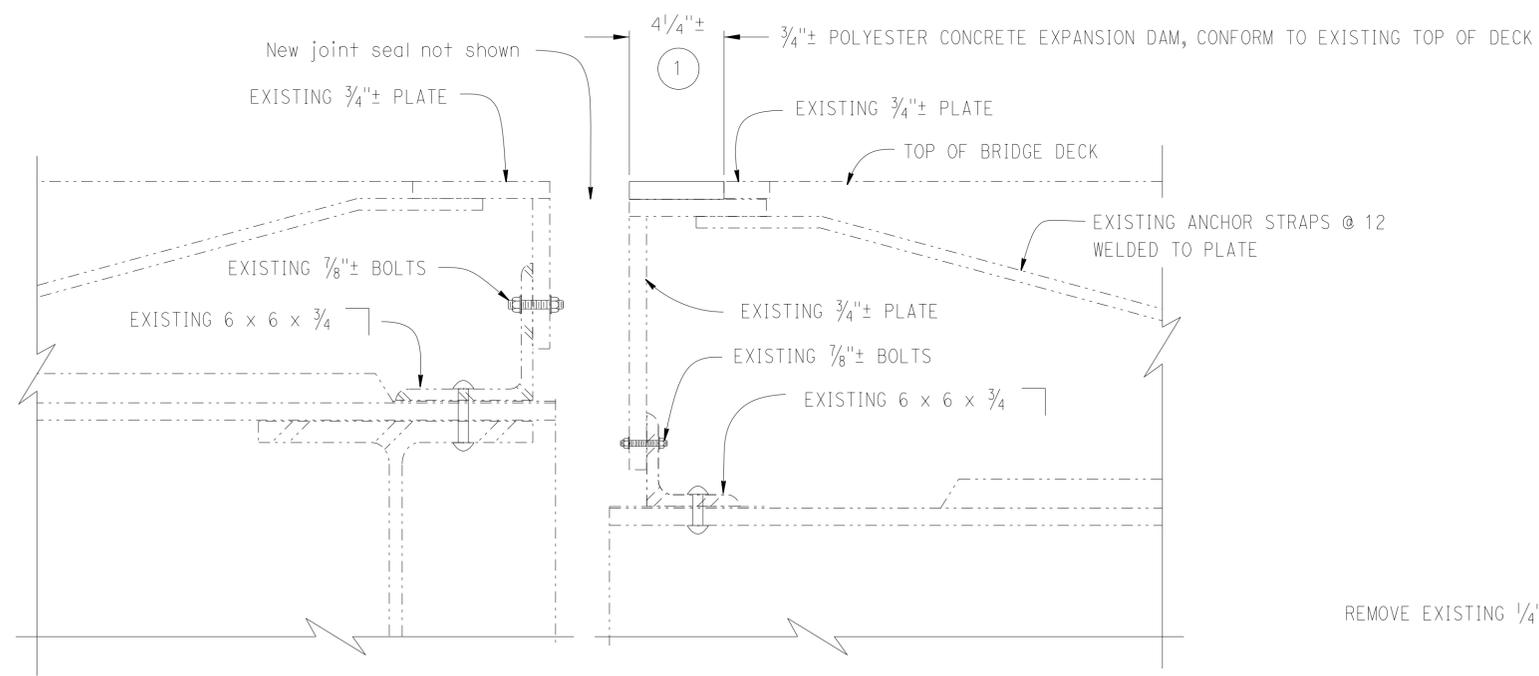
  

REGISTERED PROFESSIONAL ENGINEER ARLENE FRANK No. C 55562 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA
--

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EXISTING

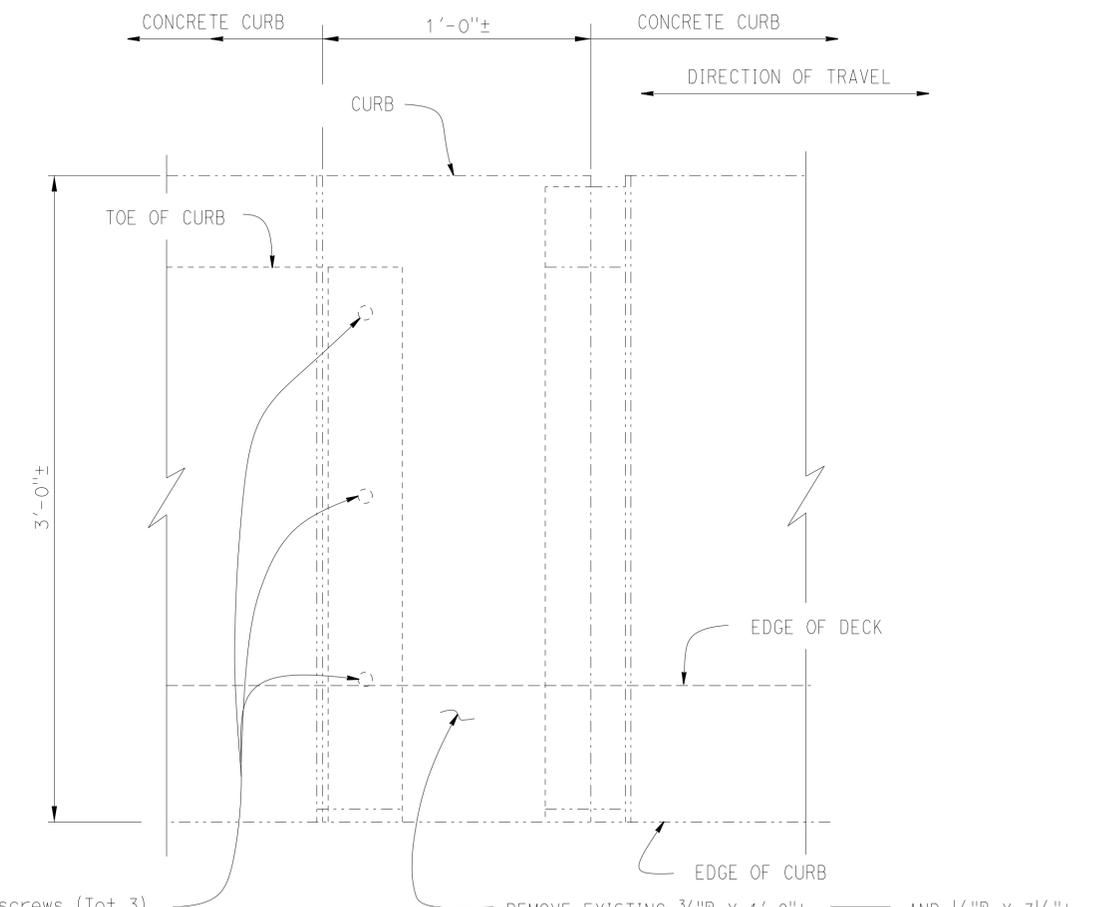


RECONSTRUCTION

SECTION C-C

3" = 1'-0"

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of bridge removal (portion). Remove steel sliding plate. Grind surface of plate smooth and apply zinc rich primer.
  - ① Limits of polyester concrete expansion dam.



REMOVE EXISTING 1/4" screws (Tot 3)

REMOVE EXISTING 3/8" x 1'-0" ± AND 1/4" x 3/2" ±. CLEAN AND PAINT STEEL PLATES, AND RECONSTRUCT 3/8" AND 1/4" WITH NEW 1/4" SCREWS (Tot 3).

RECONSTRUCT CURB EXPANSION DAM

3" = 1'-0"

DESIGN	BY A. FRANK	CHECKED MIKE HASHIMOTO
DETAILS	BY DAVID KISH	CHECKED MIKE HASHIMOTO
QUANTITIES	BY A. FRANK	CHECKED MIKE HASHIMOTO

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	10-0130
POST MILE	40.18

**NAVARRO RIVER (REPAIR)**  
**DETAILS No. 2**

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3488  
PROJECT NUMBER & PHASE: X

CONTRACT NO.: 01-0c6101

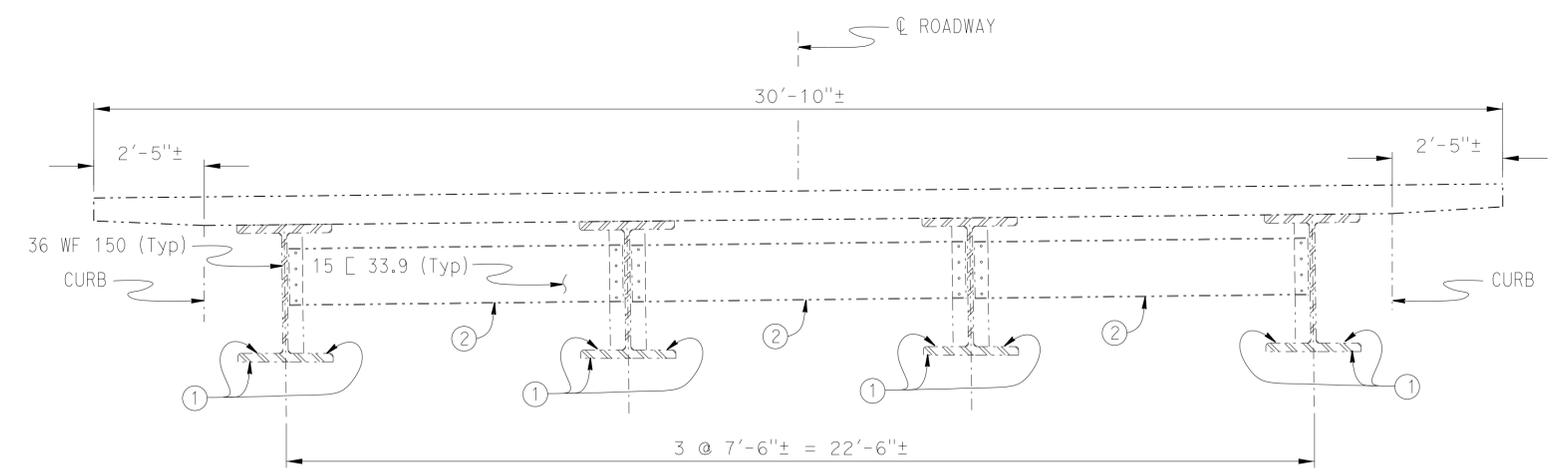
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	10-18-13	3	6

USERNAME => s120115 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 1:35:58

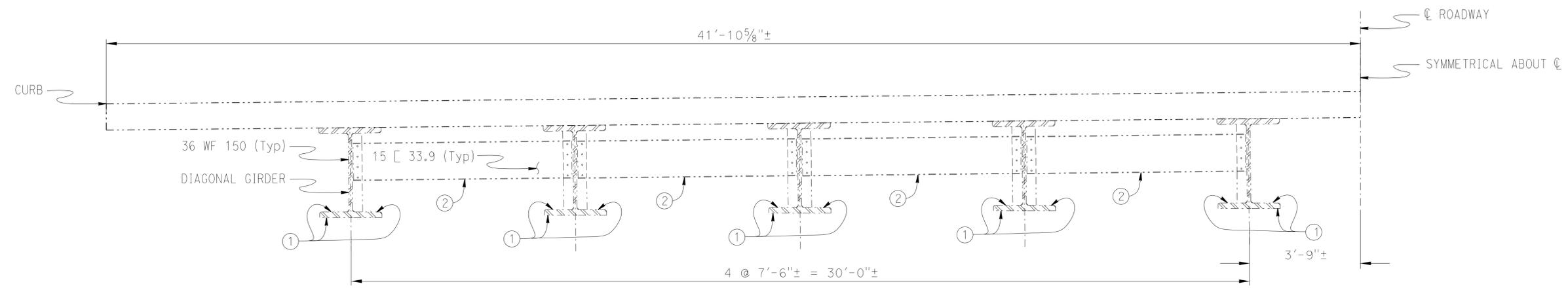
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	16	18

Arlene Frank 1-30-15  
 REGISTERED CIVIL ENGINEER DATE  
 March 19, 2015  
 PLANS APPROVAL DATE

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**TYPICAL SECTION AT SPAN 1 & 2**  
 1/2" = 1'-0"



**HALF TYPICAL SECTION AT SPAN 5**  
 1/2" = 1'-0"

LOCATION	DESCRIPTION	APPROXIMATE AREA (SQFT)
Abut 1 & 6	Bearing system	29.0
Span 1, 2 & 5	① Girder: bottom flange-top, sides and/or bottom *	1005.1
Span 1 (Abut 1)	Exterior girder: web-20ft graffiti	51.9
Span 1, 2 & 5	② diaphragm: bottom flange	152.5
Bent 2, 3, 4, & 5	Bearing system	77.0
	Restrainer system (galvanized)	270.9
Span 3 & 4	Girders: bottom flange-sides	217.5
	Cross frames: all 'L' edges	85.5
	Bottom laterals: all 'L' edges	51.6

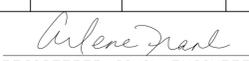
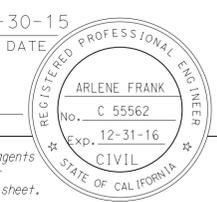
\* As determined by the Engineer

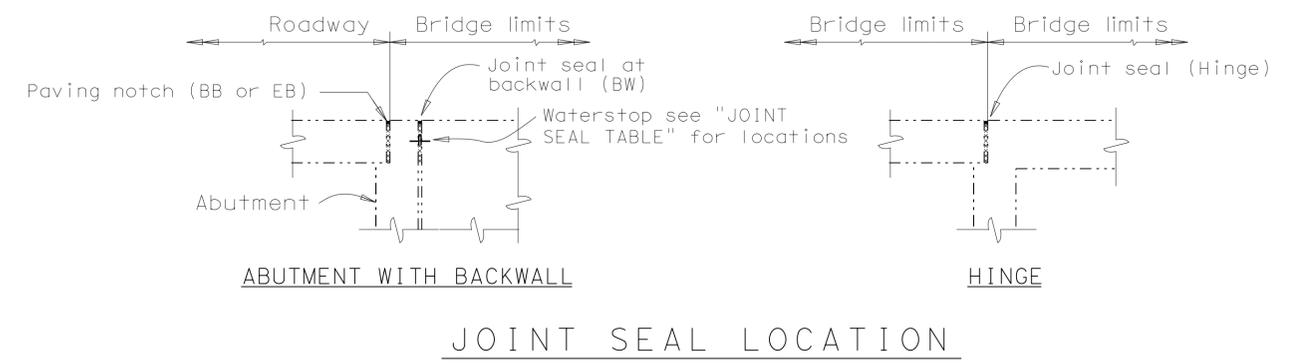
LOCATION	DESCRIPTION	APPROXIMATE AREA (SQFT)
Span 1-5	Bridge curb at various post, rust stain	78.0

\* Location as determined by the Engineer

DESIGN BY A. FRANK CHECKED MIKE HASHIMOTO DETAILS BY DAVID KISH CHECKED MIKE HASHIMOTO QUANTITIES BY A. FRANK CHECKED MIKE HASHIMOTO	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 10-0130 POST MILE 40.18	<b>NAVARRO RIVER (REPAIR)</b> <b>DETAILS No. 3</b>	REVISION DATES 10-18-13	SHEET 4 OF 6	
				UNIT: 3488 PROJECT NUMBER & PHASE: X	CONTRACT NO.: 01-0c6101	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	FILE => za004.dgn	

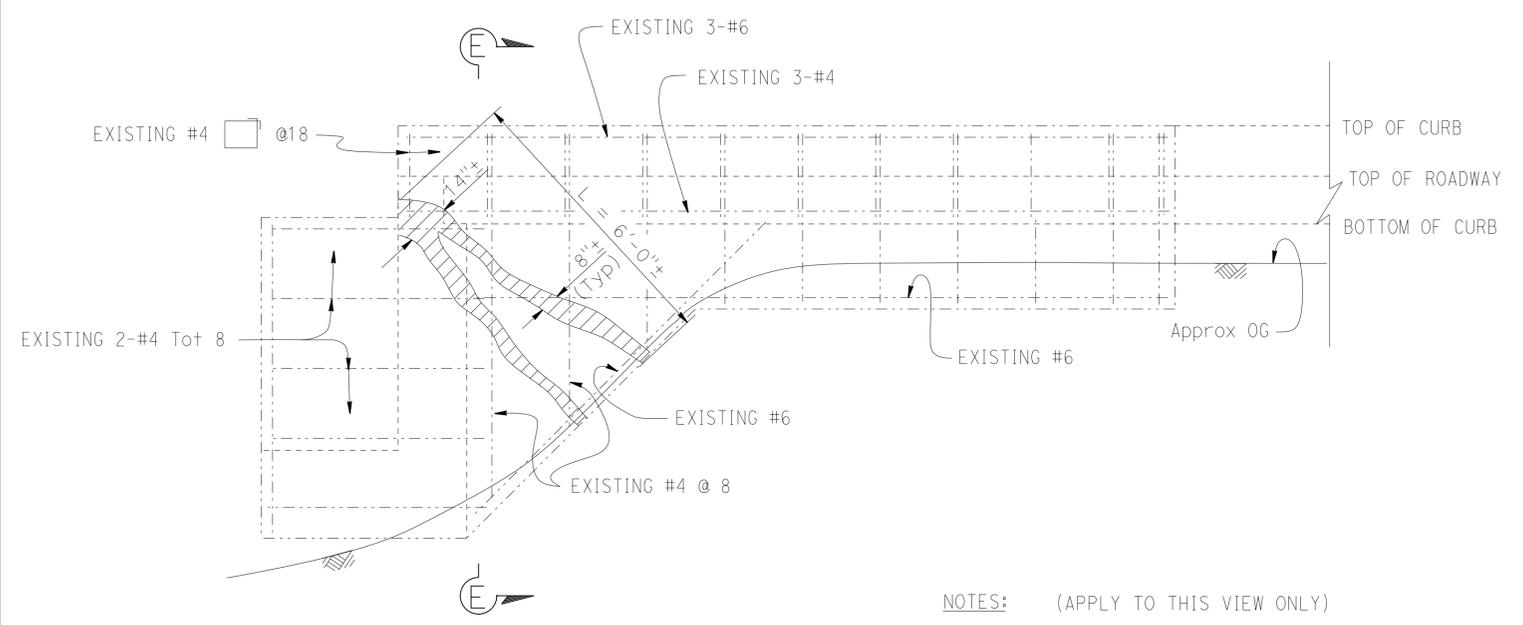
USERNAME => s120115 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 1:35:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	17	18
 REGISTERED CIVIL ENGINEER DATE 1-30-15					
March 19, 2015 PLANS APPROVAL DATE					
<small>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.</small>					



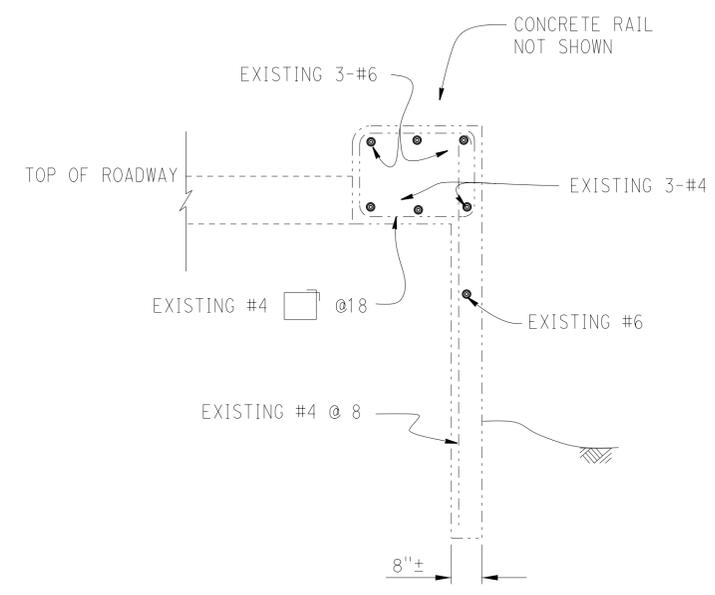
JOINT SEAL TABLE						
BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)
	10-0130	Abut 1	BW	1	26.7	No
Hinge 2a		H	2 1/2	27.2	No	8
Hinge 2b		H	1	27.2	No	12
Hinge 5		H	1	29.2	No	12
Abut 6		BW	1	85.5	No	9

LEGEND: All joint seals shall be bonded joint seal.  
 BW - Abutment Backwall  
 H - Hinge



VIEW D-D  
 1/2" = 1'-0"

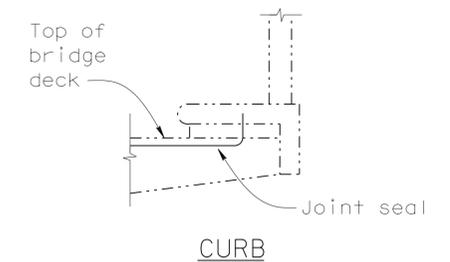
NOTES: (APPLY TO THIS VIEW ONLY)  
 Indicates approximate location of repair existing spalled surface area



SECTION E-E  
 1/2" = 1'-0"

TEMPORARY DECK PLATE LOAD CRITERIA		
MOMENT DEMAND/FOOT (kip-ft/ft)	BOLT SHEAR/FOOT (kip/ft)	BOLT TENSION (Kip)
4.8	8.4	4.6

Plate deflection must not exceed s/300 (s = span of plate, ft)  
 Maximum anchor bolt spacing = 9"



JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.  
 For use only where deck joint matches the sidewalk, curb or barrier rail joint.

NO SCALE

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

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED MIKE HASHIMOTO	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>NAVARRO RIVER (REPAIR)</b> <b>JOINT SEAL DETAILS</b>
	DETAILS	BY DAVID KISH	CHECKED MIKE HASHIMOTO			10-0130	
	QUANTITIES	BY A. FRANK	CHECKED MIKE HASHIMOTO			40.18	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: X	CONTRACT NO.: 01-0c6101	DISREGARD PRINTS BEARING EARLIER REVISION DATES
FILE => za005.dgn						REVISION DATES	SHEET 5 OF 6

USERNAME => s120115 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 1:35:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1	40.2	18	18

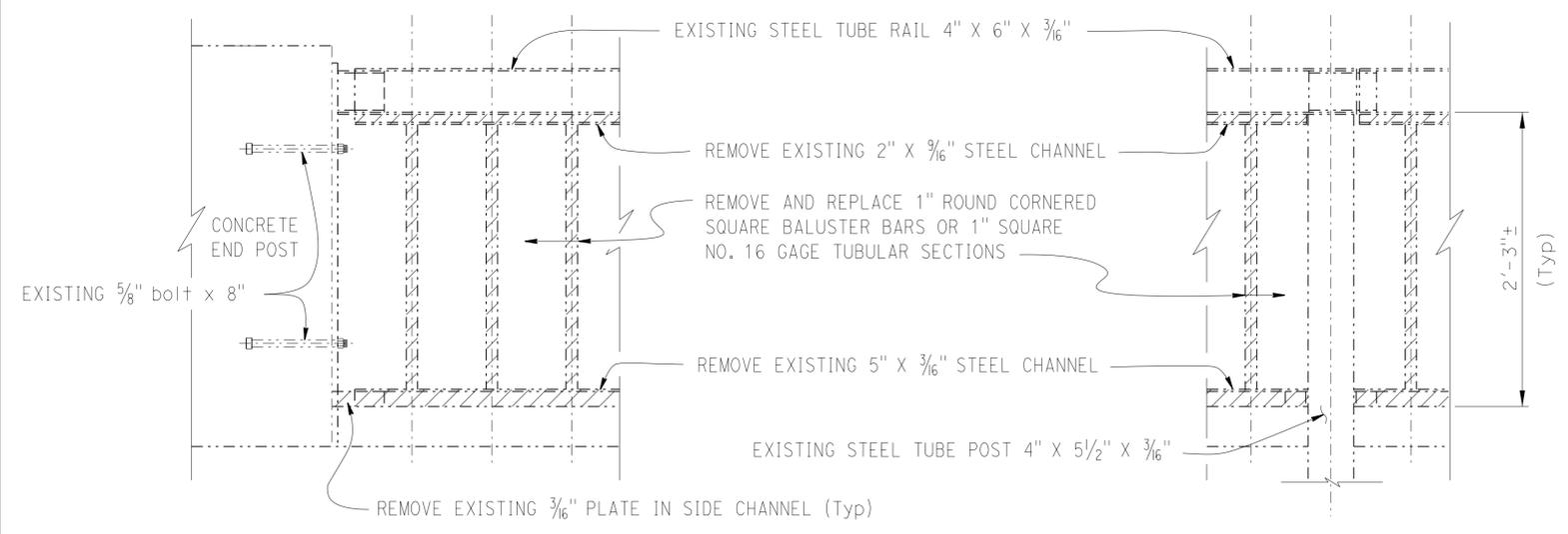
Arlene Frank 1-30-15  
 REGISTERED CIVIL ENGINEER DATE  
 March 19, 2015  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 ARLENE FRANK  
 No. C 55562  
 Exp. 12-31-16  
 CIVIL  
 STATE OF CALIFORNIA

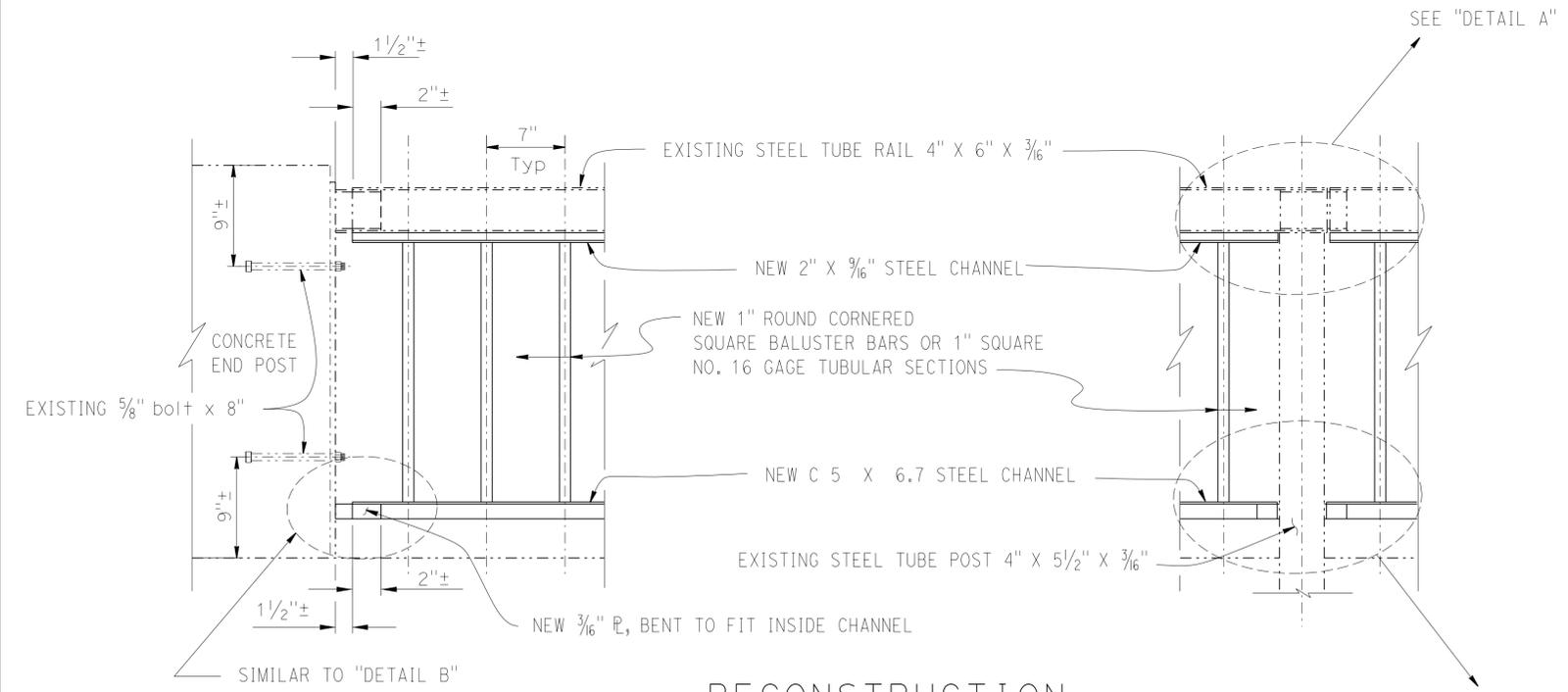
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of reconstruct metal bridge railing.

- Railing shall conform to horizontal and vertical alignment.



EXISTING

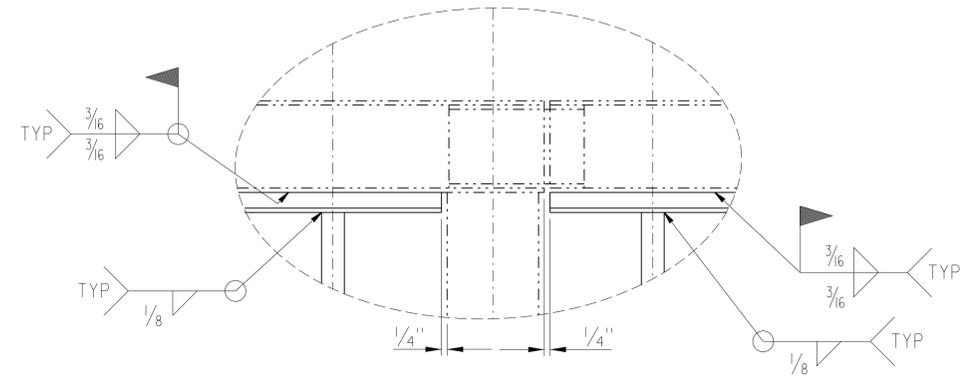


RECONSTRUCTION

RAIL REPAIR DETAILS

1/2" = 1'-0"

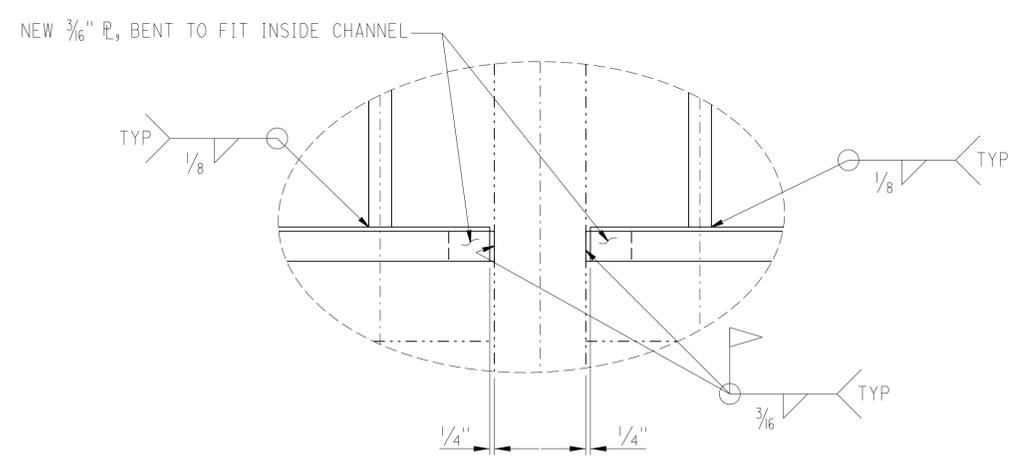
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



NOTE: Typical weld detail for top of rail

DETAIL A

3" = 1'-0"



NOTE: Typical weld detail for bottom of rail

DETAIL B

3" = 1'-0"

NO SCALE

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY A. FRANK	CHECKED MIKE HASHIMOTO	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 10-0130	<b>NAVARRO RIVER (REPAIR)</b> <b>TUBE RAIL REPAIR DETAILS</b>	REVISION DATES	SHEET	OF
	DETAILS	BY DAVID KISH	CHECKED MIKE HASHIMOTO					6	6
	QUANTITIES	BY A. FRANK	CHECKED MIKE HASHIMOTO						

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 1 2 3  
 UNIT: 3488  
 PROJECT NUMBER & PHASE: X  
 CONTRACT NO.: 01-0c6101  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 FILE => za006.dgn

USERNAME => s120115 DATE PLOTTED => 24-MAR-2015 TIME PLOTTED => 1:35:58