State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

Flex your power!
Be energy efficient!

To: MARK SOBOTA
DISTRICT 01
North Region, Design E1

Date: March 4, 2015

File: 01-Men-1-PM 42.4/43.3
Salmon Creek Bridge (Replace)
Contract No. 01-401400
Project ID: 01 0000 0155
Bridge No. 10-0134

From: JEFF SIMS
Bridge Design Branch 1
Office of Bridge Design North / Central
Structure Design Branch 1
Division of Engineering Services MS 9-4/8i

Subject: Advance Planning Study Cost Estimate Update

Attached is the updated Advance Planning Study for the replacement of Salmon Creek Bridge.

The estimated construction cost, including 10% time-related overhead, 10% mobilization and 25% contingencies, are as follows:

Bridge Alternative	Description	Estimated Cost	Suggested Work Schedule
S1-A	CIP/PS box girder on west alignment	$28,001,000	2 – 2.5 years
S2d-A	CIP/PS box girder on east alignment	$23,019,000	2 – 2.5 years
S3c-A	CIP/PS box girder on west alignment – 2-stage construction	$31,696,000	2.5 – 3 years
S4b-A	CIP/PS box girder on east alignment – 2-stage construction	$27,614,000	2.5 – 3 years
S1-B	Modern Arch on west alignment	$35,717,000	2 – 2.5 years
S2d-B	Modern Arch on east alignment	$30,646,000	2 – 2.5 years
S3c-B	Modern Arch on west alignment – 2-stage construction	$40,048,000	2.5 – 3 years
S4d-B	Modern Arch on east alignment – 2-stage construction	$36,652,000	2.5 – 3 years
S2d-C	Spandrel Arch on east alignment	$30,225,000	2 – 2.5 years
S1-C	Spandrel Arch on west alignment	$34,469,000	2 – 2.5 years

The cost and work schedule estimates are based on the assumptions listed on the attached Advance Planning Study sheets.

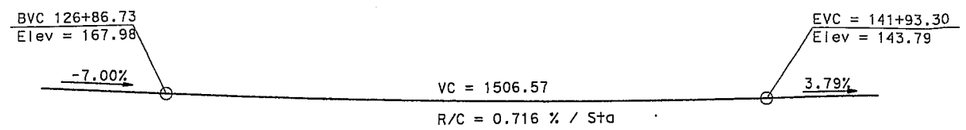
If you have questions or need additional information regarding this memo, please contact Jeff Sims at (916) 227-8497 or the Project Engineer, Manode Kodsuntie at (916) 227-8456

Attachments: Advance Planning Study

c: Gudmund Setberg, Office of Bridge Design North/Central Chief
Eskinder Taddese, Project Coordination Engineer
Frank Demling, District Project Manager
Quincy Wong, Bridge Architecture & Aesthetics Branch Chief
John Fujimoto, Technical Liaison Engineer
Reza Mahallati, Geotechnical Services
Steve Ng, Structure Hydraulics & Hydrology
John Babcock, Structure Construction Assistant Deputy Division Chief
Kevin Wall, Program Advisor, Structure Maintenance & Investigations
Pete Whitfield, Office Chief, Structure Maintenance & Investigations
File

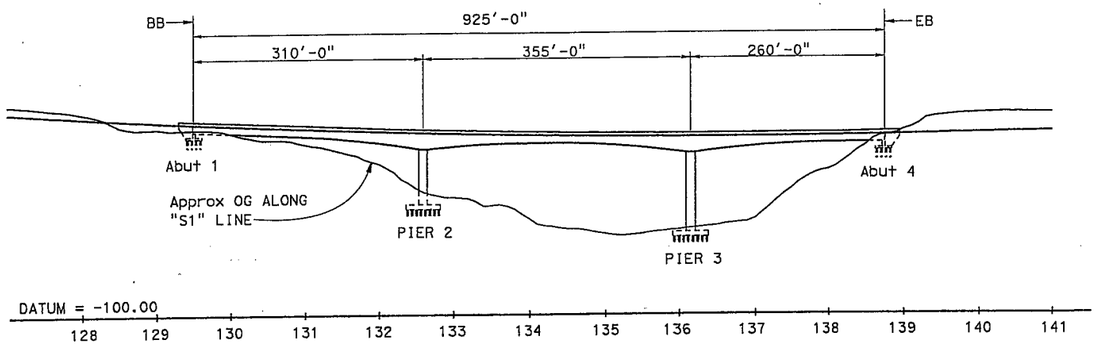
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0



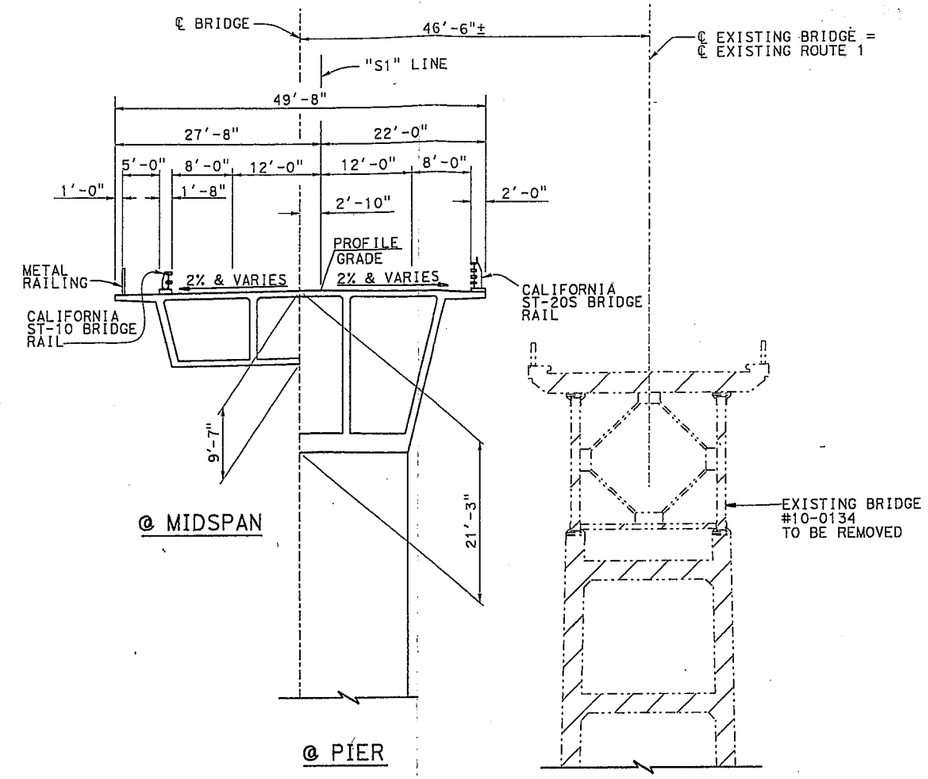
PROFILE GRADE

NO SCALE



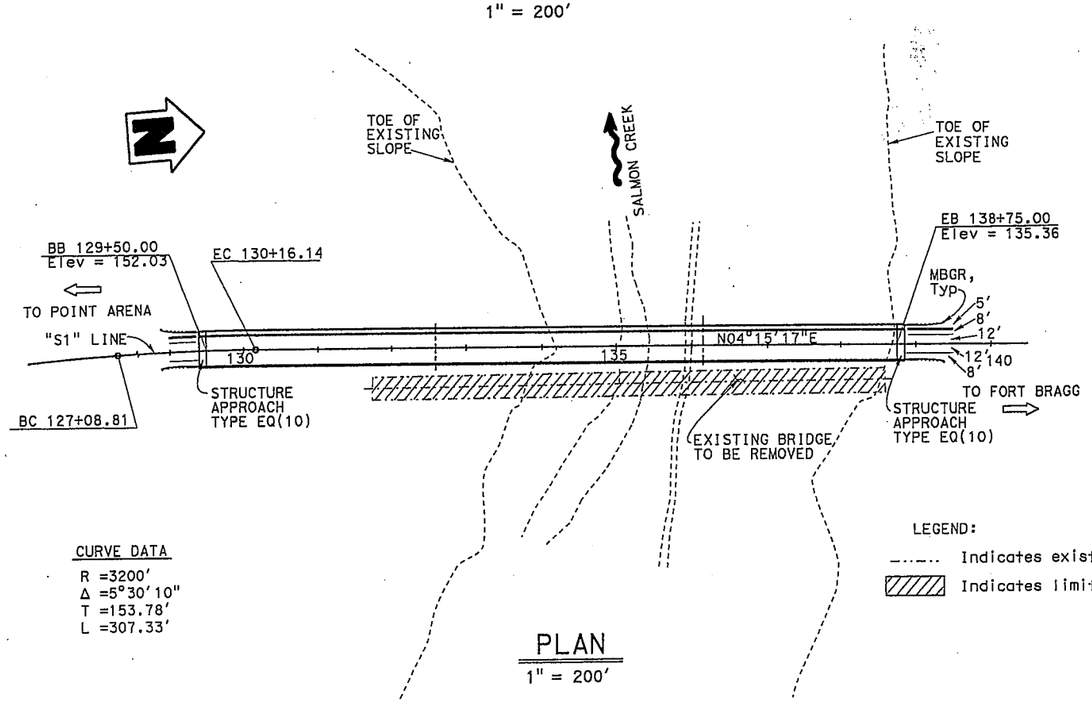
ELEVATION

1" = 200'



TYPICAL SECTION

1" = 20'



PLAN

1" = 200'

CURVE DATA

R =3200'
Δ =5°30'10"
T =153.78'
L =307.33'

ASSUMPTIONS:

1. 24" CIDH piles (100 ton) at Abutments and Piers.
2. Type D excavation at Pier 3.
3. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River replacement project, EA 01-378004).
4. Temporary trestle across Salmon Creek for falsework and construction access.
5. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

Date of Estimate	9/15/14
Str. Depth	= Varies
Length	= 925 ft
Width	= 49'-8"
Area	= 45,945 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	= $609.45
Total Cost	= $28,001,000

LEGEND:

Indicates existing structure

Indicates limits of bridge removal

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 6-10-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S1-A
DRAWN BY Yingjue Feng	DATE 6-16-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s1-a.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

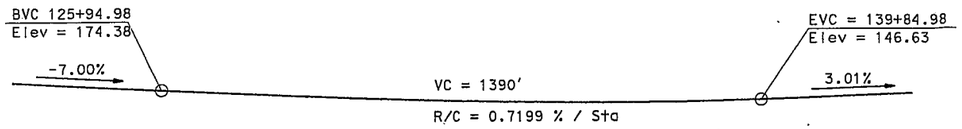
CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:32

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0



PROFILE GRADE

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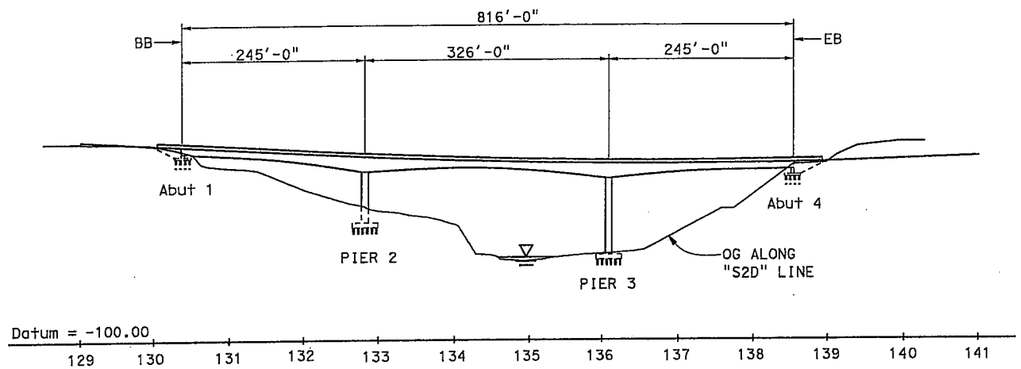
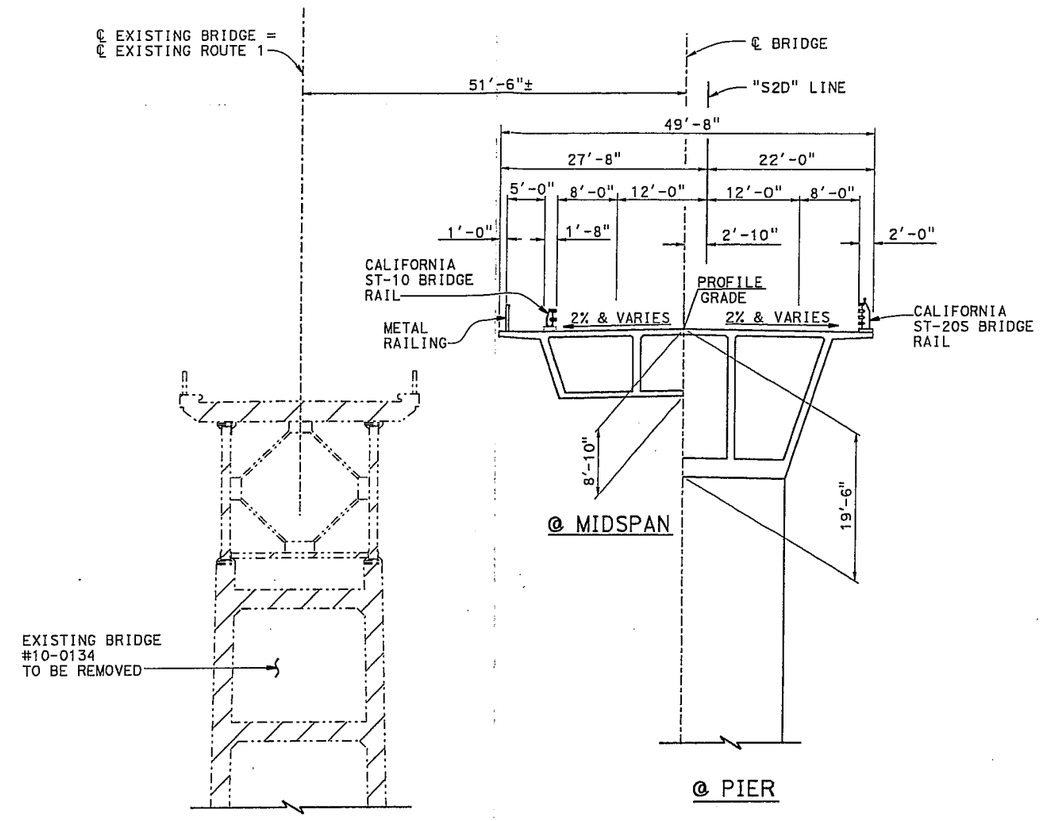


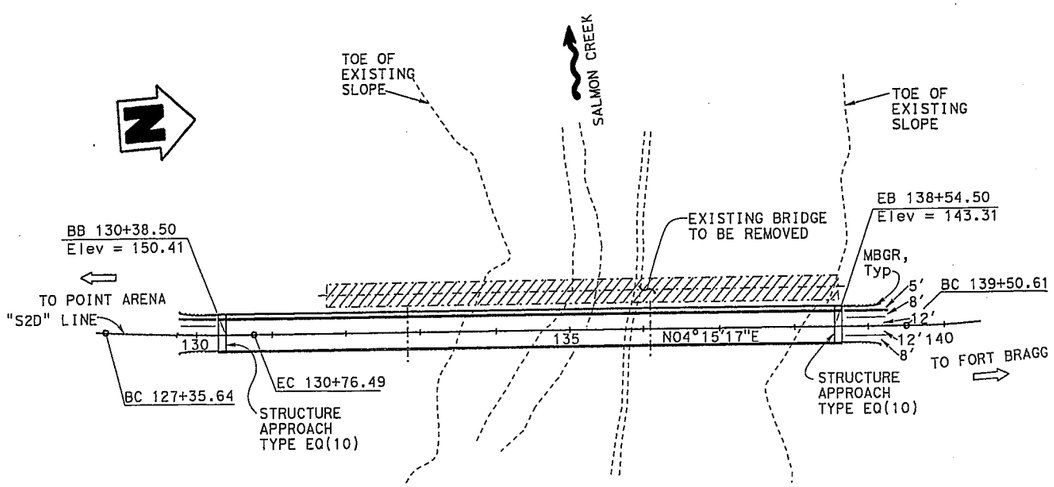
ELEVATION

1" = 200'



TYPICAL SECTION

1" = 20'



CURVE DATA

R =3500'
Δ =5°34'48"
T =170.56'
L =340.85'

PLAN

1" = 200'

ASSUMPTIONS:

1. 24" CIDH piles (100 ton) at Abutments and Piers.
2. Type D excavation at Pier 3.
3. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River replacement project, EA 01-378004).
4. Temporary trestle across Salmon Creek for falsework and construction access.
5. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

LEGEND:

Indicates existing structure

Indicates limits of bridge removal

Date of Estimate		9/15/14
Str. Depth	=	Varies
Length	=	816 ft
Width	=	49'-8"
Area	=	40,531 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	=	$567.94
Total Cost	=	$23,019,000

DESIGNED BY Manode Kodsuntie	DATE 6-9-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S2D-A
DRAWN BY Yingjue Feng	DATE 6-12-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
			SCALE: As noted / PROJECT No. & PHASE: 0100000155

ORIGINAL SCALE IN INCHES 0 1 2 3

FILE => salmoncreek_s2d-a.dgn

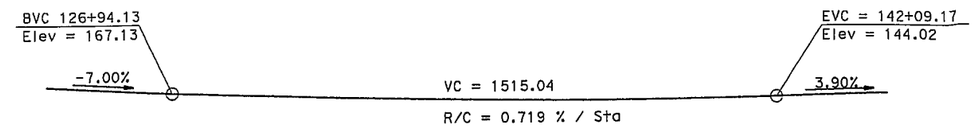
CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

DIST	COUNTY	ROUTE	POST. MILE
01	Men	1	43.0



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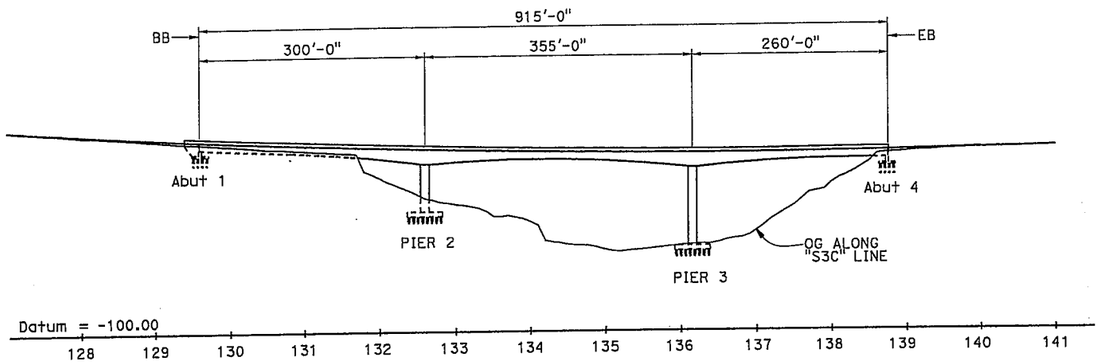

ELEVATION

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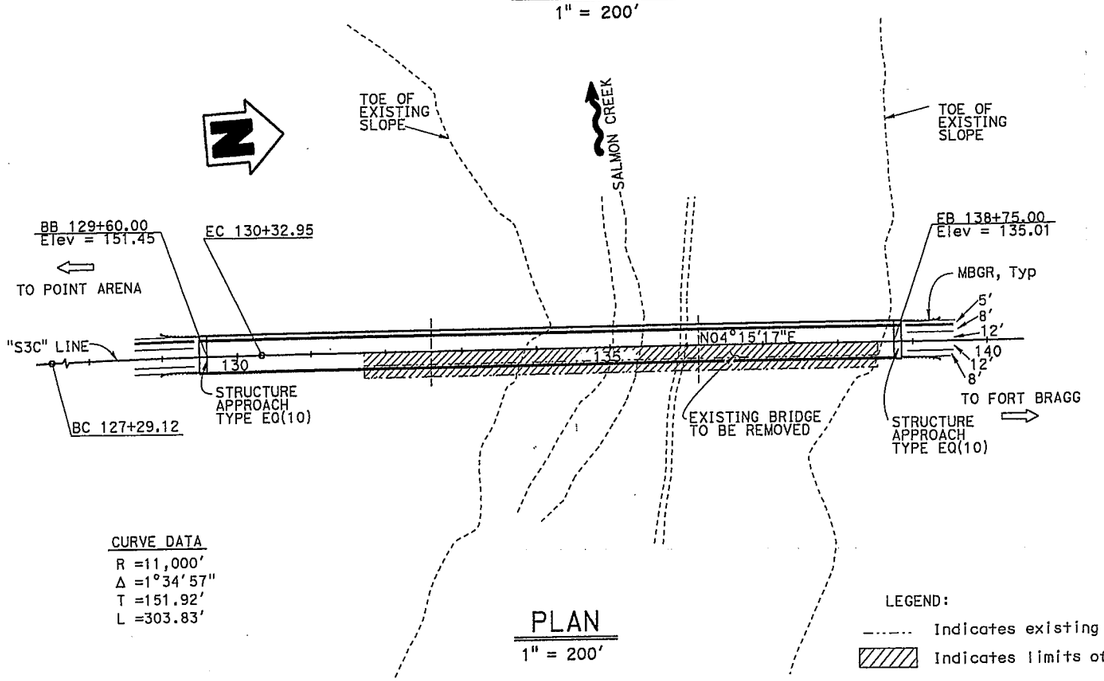


CURVE DATA

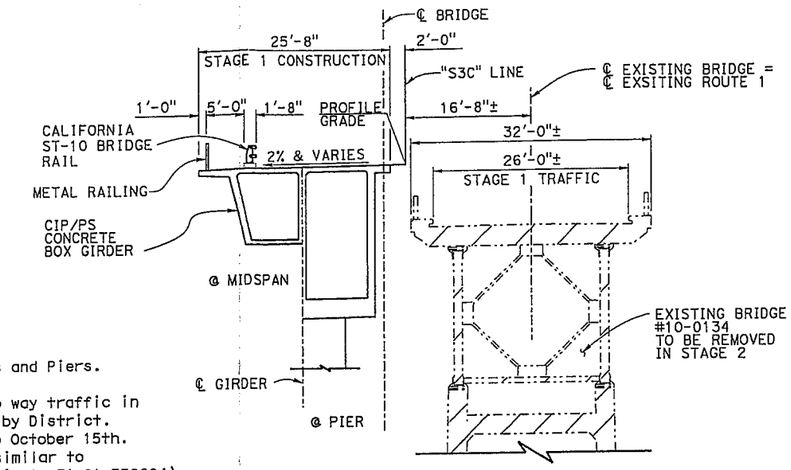
R =11,000'
Δ =1°34'57"
T =151.92'
L =303.83'

PLAN

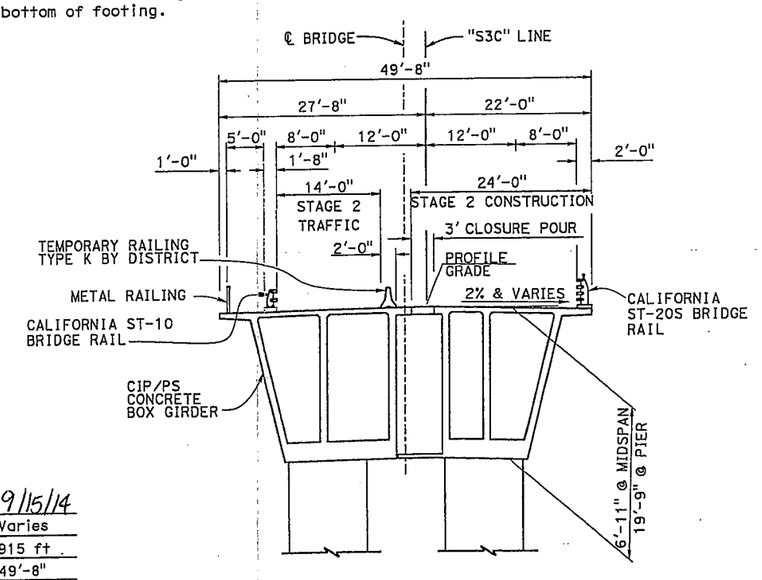
1" = 200'

ASSUMPTIONS:

1. 24" CIDH piles (100 ton) at Abutments and Piers.
2. Type D excavation at Pier 3.
3. Stage 2 traffic on bridge will be two way traffic in one lane controlled by signal lights by District.
4. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
5. Temporary trestle across Salmon Creek for falsework and construction access.
6. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.



STAGE 1



STAGE 2

TYPICAL SECTION

1" = 20'

Date of Estimate	9/15/14
Str. Depth	= Varies
Length	= 915 ft
Width	= 49'-8"
Area	= 45,448 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	= $697.41
Total Cost	= $31,696,000

LEGEND:

Indicates existing structure

Indicates limits of bridge removal

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 6-11-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S3C-A
DRAWN BY Yingjue Feng	DATE 6-19-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s3c-a.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

DIST	COUNTY	ROUTE	POST MILE
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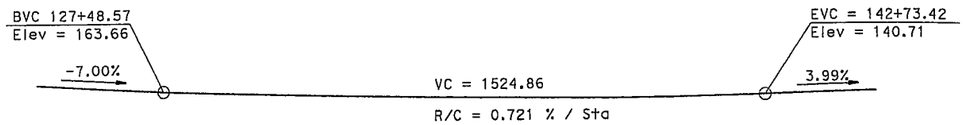

PROFILE GRADE

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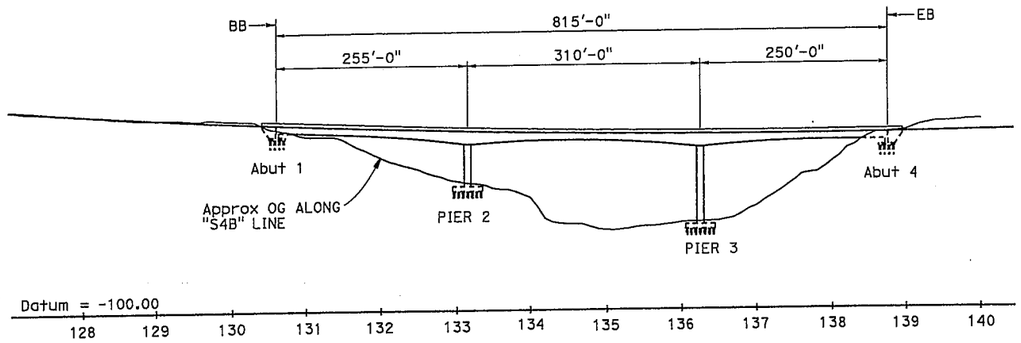


ELEVATION

1" = 200'

ASSUMPTIONS:

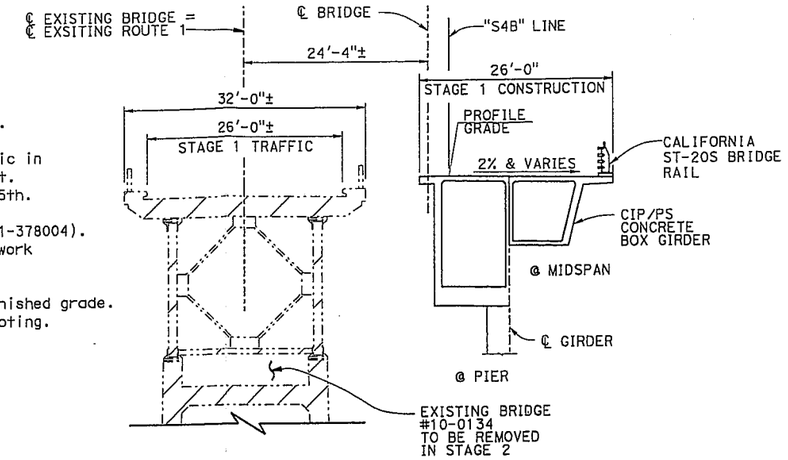
1. 24" CIDH piles (100 ton) at Abutments and Piers.
2. Type D excavation at Pier 3.
3. Stage 2 traffic on bridge will be two way traffic in one lane controlled by signal lights by District.
4. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
5. Temporary trestle across Salmon Creek for falsework and construction access.
6. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

LEGEND:

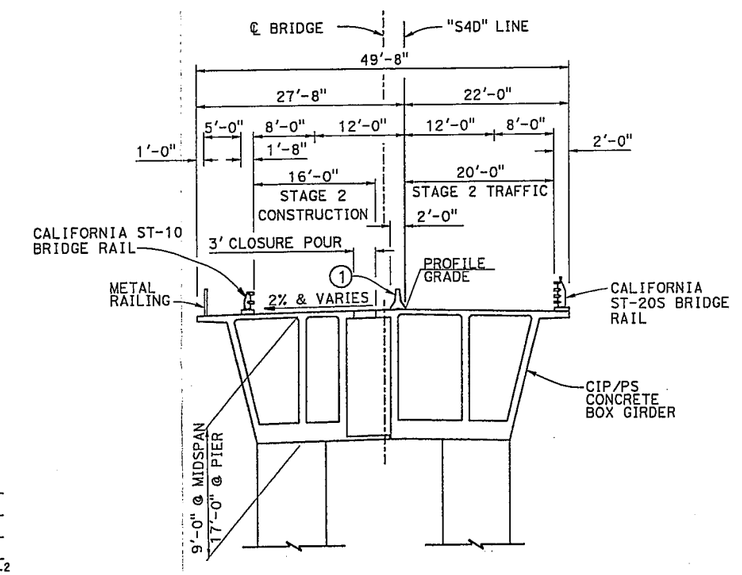
(1) Temporary Railing Type K by District

Indicates existing structure

Indicates limits of bridge removal



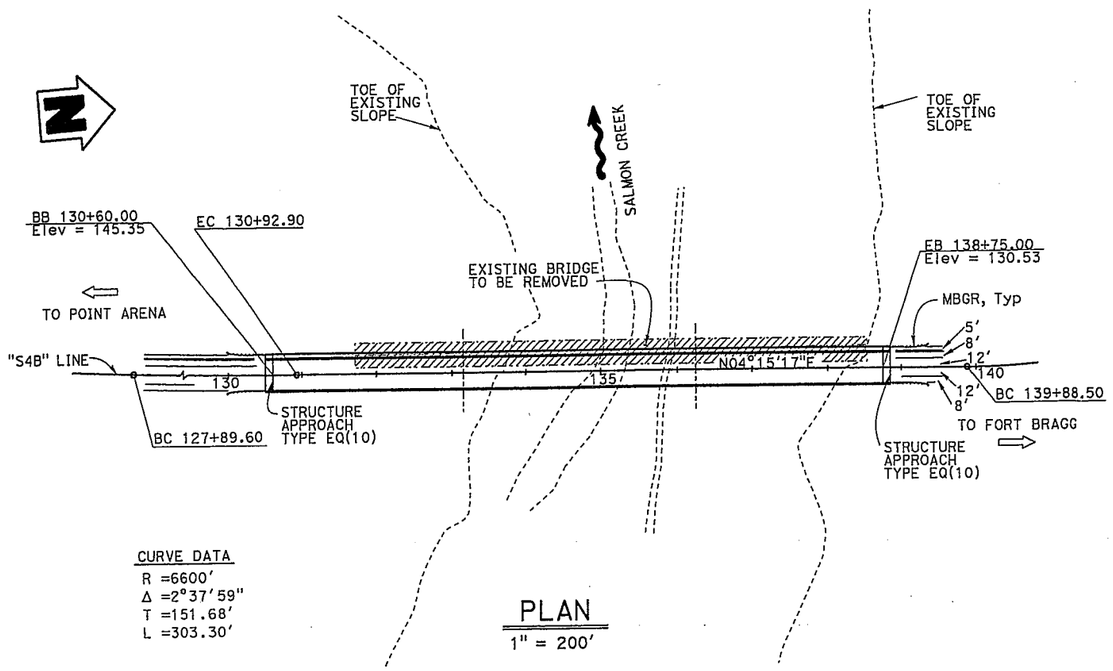
STAGE 1



STAGE 2

TYPICAL SECTION

1" = 20'



CURVE DATA

R =6600'
Δ =2°37'59"
T =151.68'
L =303.30'

PLAN

1" = 200'

Date of Estimate		9/15/14
Str. Depth	:	Varies
Length	:	815 ft
Width	:	49'-8"
Area	:	40,481 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	:	$682.15
Total Cost		$27,614,000

DESIGNED BY Manade Kodsuntie	DATE 6-12-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S4B-A
DRAWN BY Yingjue Feng	DATE 6-23-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s4b-a.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

ORIGINAL SCALE IN INCHES 0 1 2 3

CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

DIST	COUNTY	ROUTE	POST MILE
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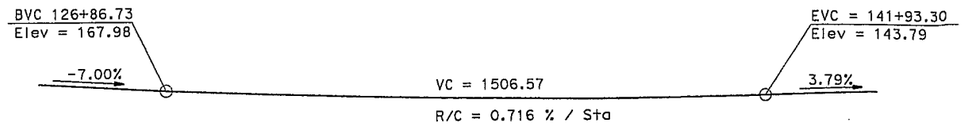

PROFILE GRADE

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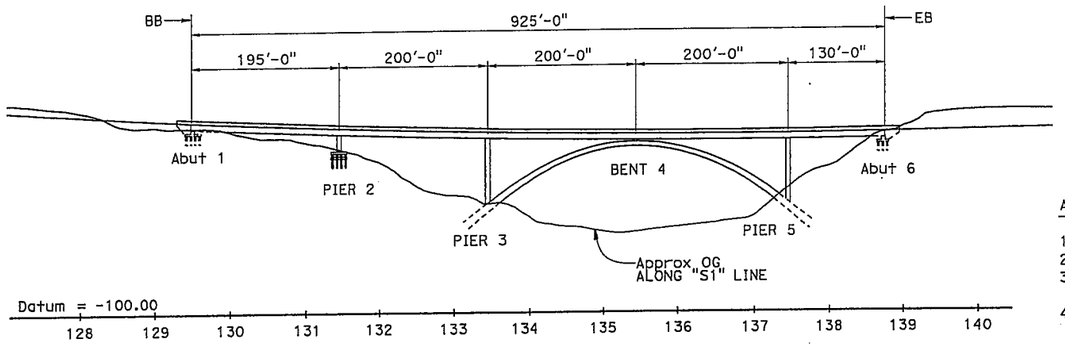
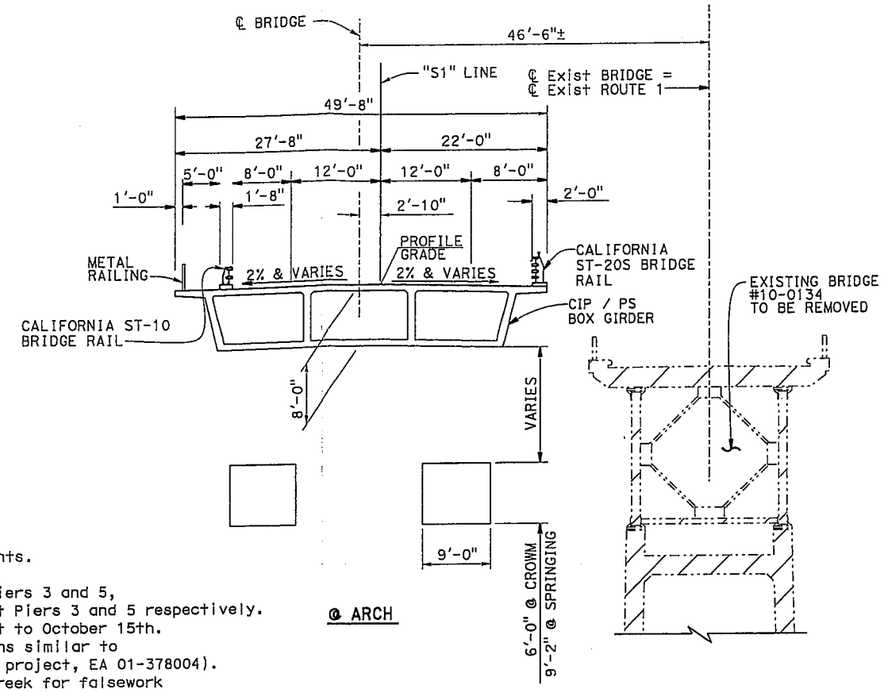


ELEVATION

1" = 200'



@ ARCH

ASSUMPTIONS:

1. 24" CIDH piles (70 ton) at Abutments.
2. 24"CIDH Piles (100 ton) at Piers
3. 36'-0" x 12'-6" mined shafts at Piers 3 and 5, shaft lengths are 70ft and 50ft at Piers 3 and 5 respectively.
4. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
5. Temporary trestle across Salmon Creek for falsework and construction access.
6. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
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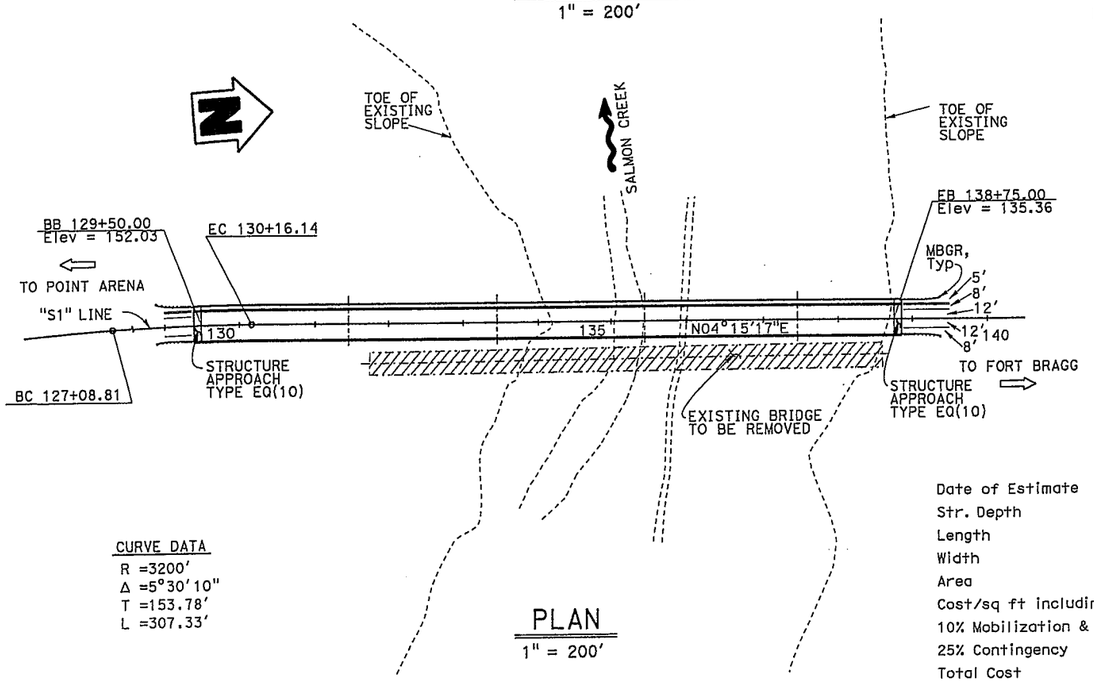
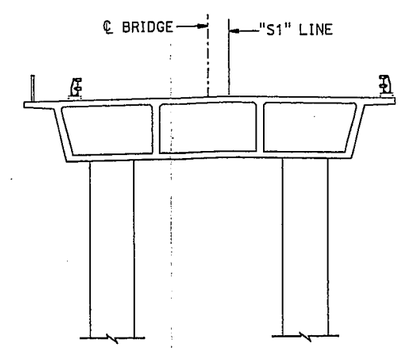


LEGEND:

Indicates existing structure

Indicates limits of bridge removal



@ PIER 2

TYPICAL SECTION

1" = 20'

CURVE DATA

R =3200'
Δ =5°30'10"
T =153.78'
L =307.33'

PLAN

1" = 200'

Date of Estimate	9/15/14
Str. Depth	= Varies
Length	= 925 ft
Width	= 49'-8"
Area	= 45,945 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	= $777.39
Total Cost	= $35,717,000

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 07-02-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S1-B
DRAWN BY Jin Zhou	DATE 07-02-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s1-b.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

CONTRACT No.: 01-401404

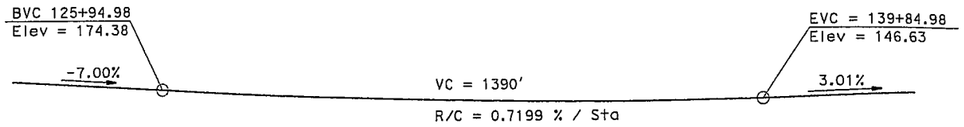
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

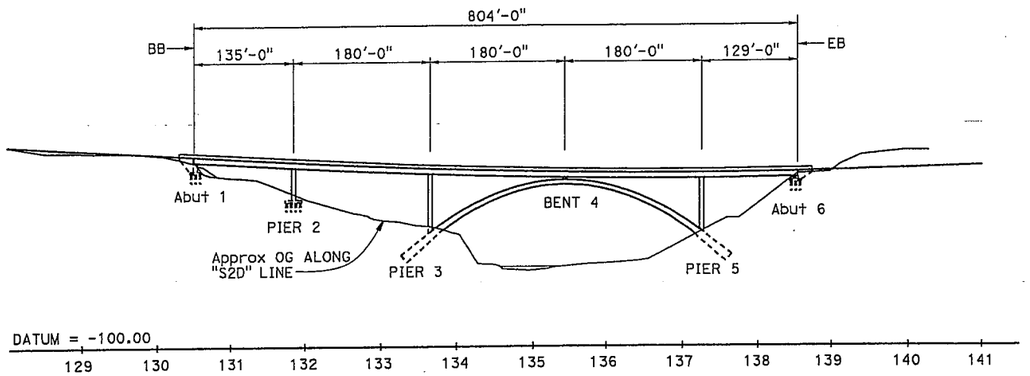
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0



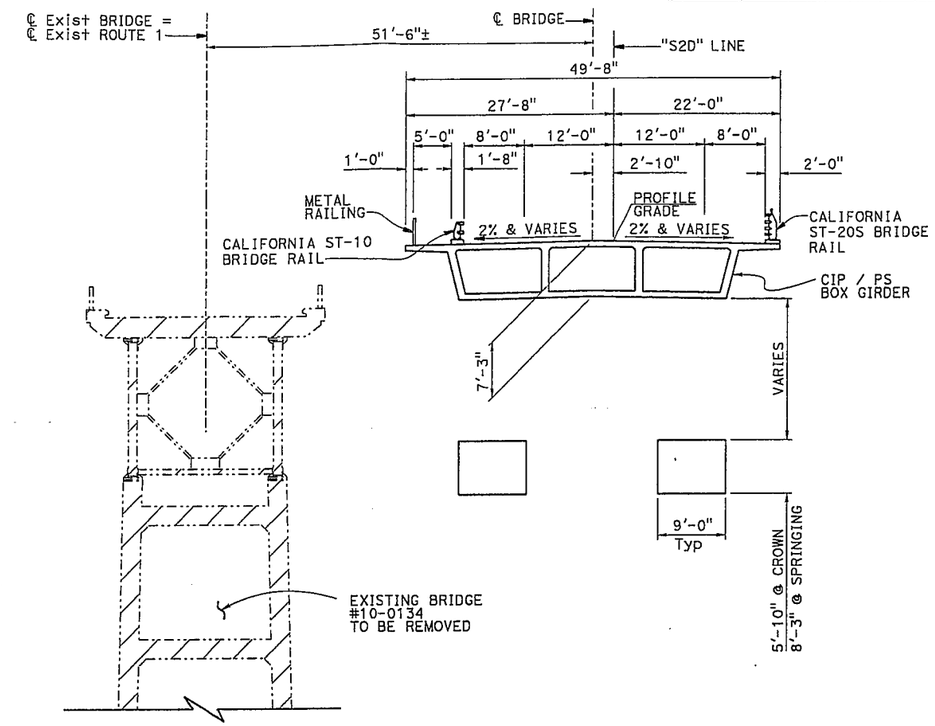
PROFILE GRADE

NO SCALE



ELEVATION

1" = 200'



@ ARCH

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2. 24"CIDH Piles (100 ton) at piers
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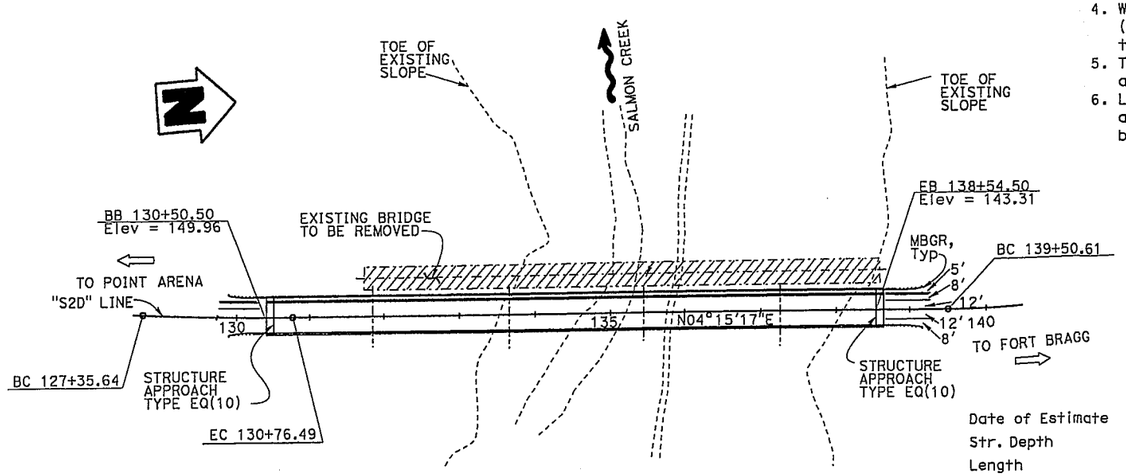
LEGEND:

-.-.-.- Indicates existing structure

▨ Indicates limits of bridge removal



CURVE DATA

R =3500'
Δ =5°34'48"
T =170.56'
L =340.85'

PLAN

1" = 200'

@ PIER

TYPICAL SECTION

1" = 20'

Date of Estimate	9/15/14
Str. Depth	=
Length	= 804 ft
Width	= 49'-8"
Area	= 39,935 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	$767.40
Total Cost	$30,646,000

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 6-23-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S2D-B
DRAWN BY Yingjue Feng	DATE 6-26-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s2d-b.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

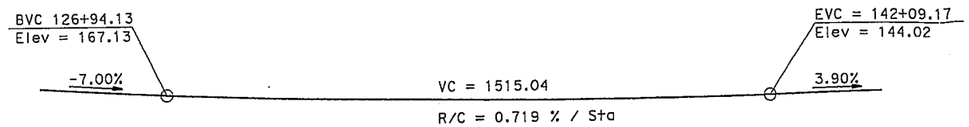
CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

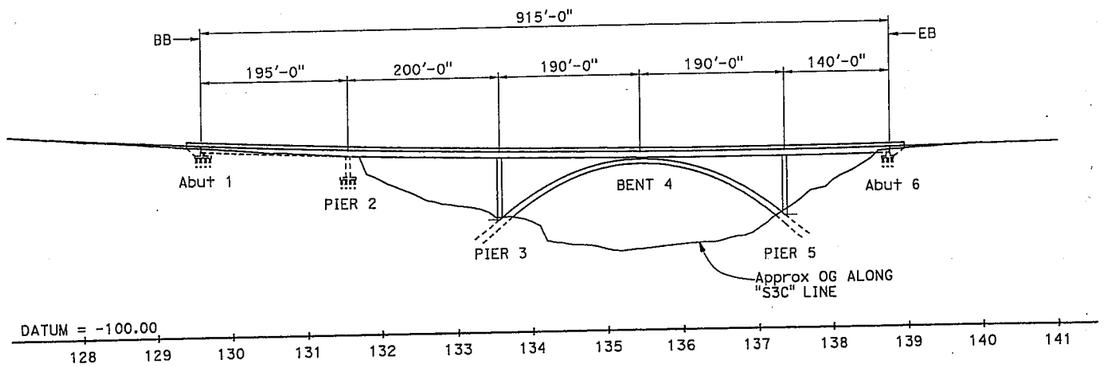
DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES



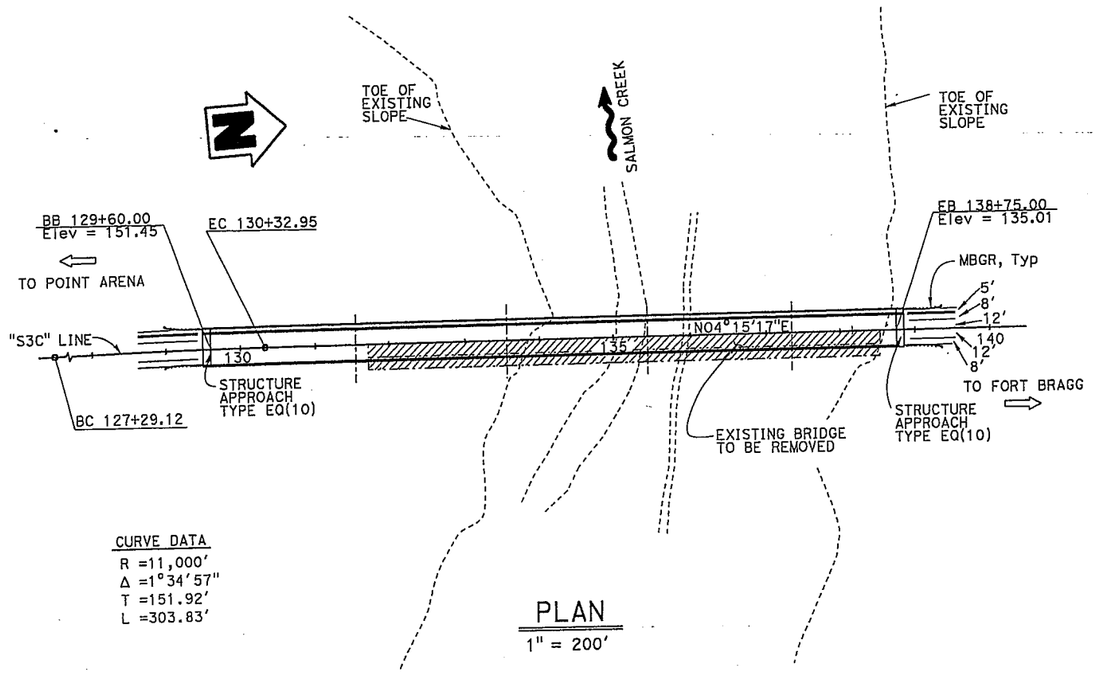
PROFILE GRADE

NO SCALE



ELEVATION

1" = 200'



CURVE DATA
R =11,000'
Δ =1°34'57"
T =151.92'
L =303.83'

PLAN

1" = 200'

ASSUMPTIONS:

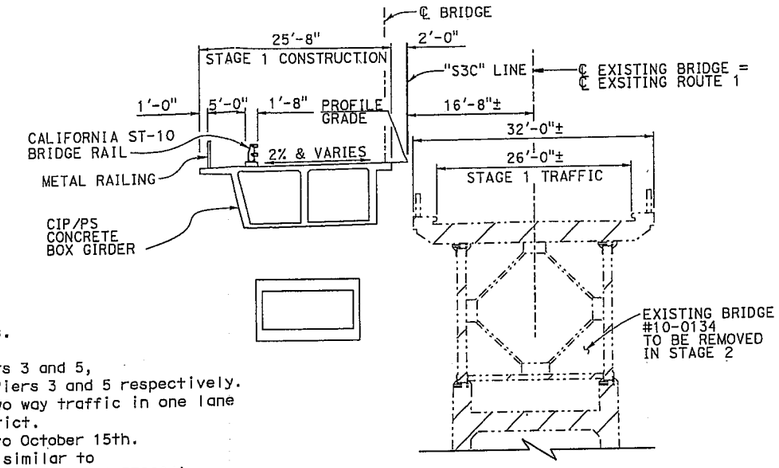
1. 24" CIDH piles (70 ton) at Abutments.
2. 24"CIDH Piles (100 ton) at piers
3. 36'-0" x 12'-6" mined shafts at Piers 3 and 5, shaft lengths are 60ft and 45ft at Piers 3 and 5 respectively.
4. Stage 2 traffic on bridge will be two way traffic in one lane controlled by signal lights by District.
5. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
6. Temporary trestle across Salmon Creek for falsework and construction access.
7. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

LEGEND:

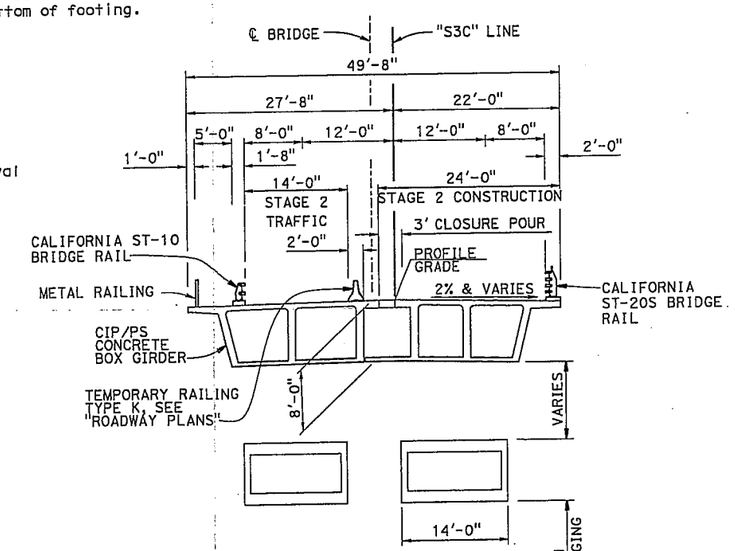
Indicates existing structure

Indicates limits of bridge removal

Date of Estimate	9/15/14
Str. Depth	
Length	915 ft
Width	49'-8"
Area	45,448 ft²
Cost/sq ft including	
10% Mobilization &	
25% Contingency	$881.18
Total Cost	$40,048,000



STAGE 1



STAGE 2

TYPICAL SECTION

1" = 20'

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 6-11-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S3C-B
DRAWN BY Yingjue Feng	DATE 6-19-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s3c-b.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

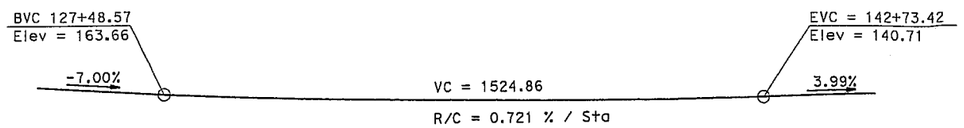
CONTRACT No.: 01-401404

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

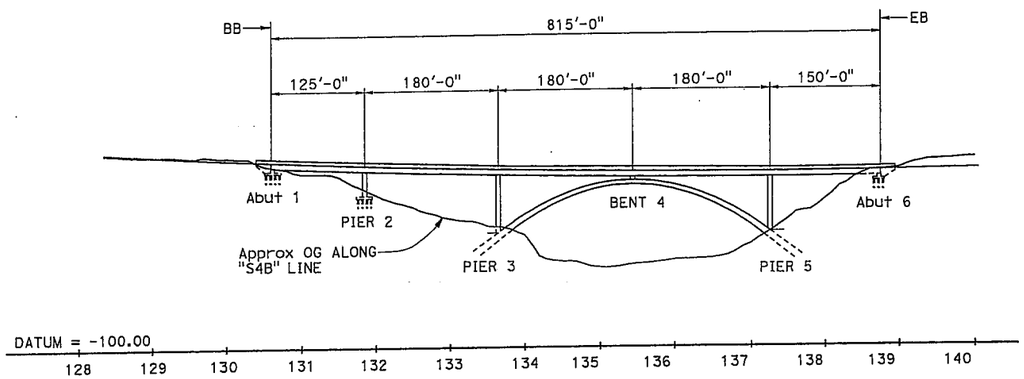
DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES



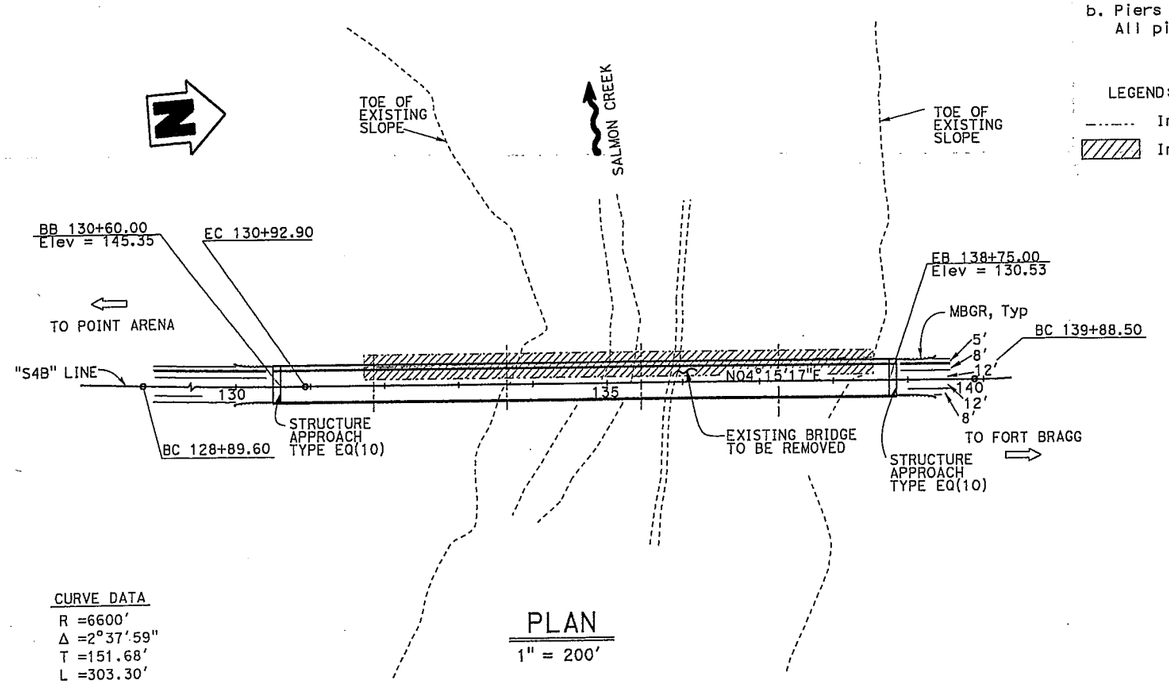
PROFILE GRADE

NO SCALE



ELEVATION

1" = 200'



CURVE DATA

R =6600'
Δ =2°37'59"
T =151.68'
L =303.30'

PLAN

1" = 200'

ASSUMPTIONS:

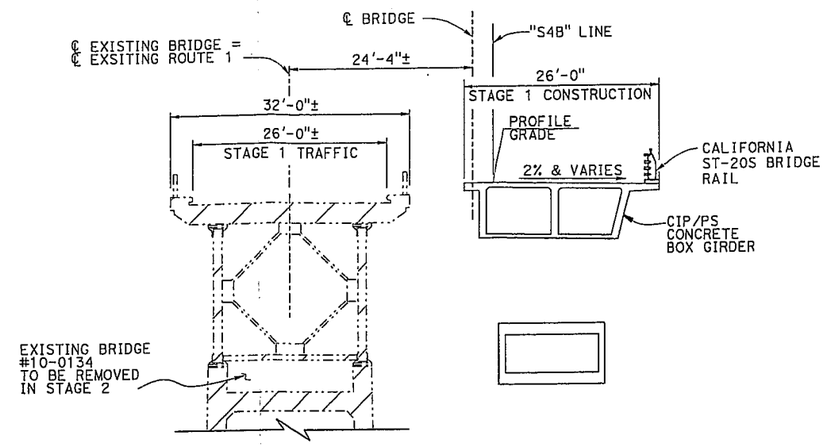
1. 24" CIDH piles (70 ton) at Abutments.
2. 24"CIDH Piles (100 ton) at Piers
3. 36'-0" x 12'-6" mined shafts at Piers 3 and 5, shaft lengths are 60ft and 45ft at Piers 3 and 5 respectively.
4. Stage 2 traffic on bridge will be two way traffic in one lane controlled by signal lights by District.
5. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
6. Temporary trestle across Salmon Creek for falsework and construction access.
7. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

LEGEND:

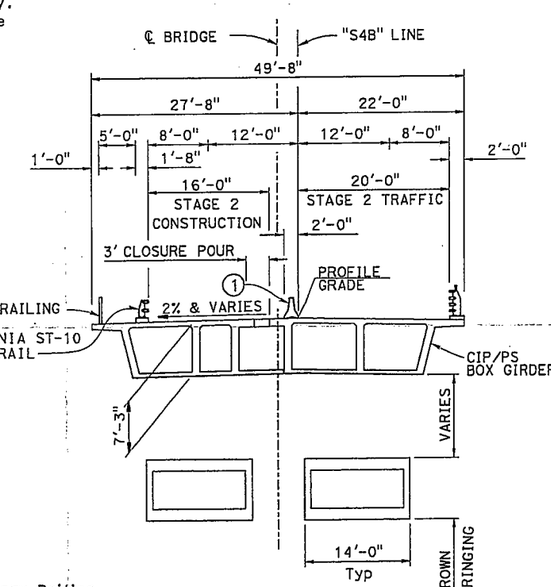
Indicates existing structure

Indicates limits of bridge removal

Date of Estimate	9/15/14
Str. Depth	
Length	815 ft
Width	49'-8"
Area	40,481 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	$905.41
Total Cost	$36,652,000



STAGE 1



NOTE:

1. Temporary Railing Type K by District

STAGE 2

TYPICAL SECTION

1" = 20'

DESIGNED BY Manode Kodsuntie	DATE 6-12-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S4B-B
DRAWN BY Jin Zhou	DATE 6-23-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
			SCALE: As noted / PROJECT No. & PHASE: 0100000155

ORIGINAL SCALE IN INCHES 0 1 2 3

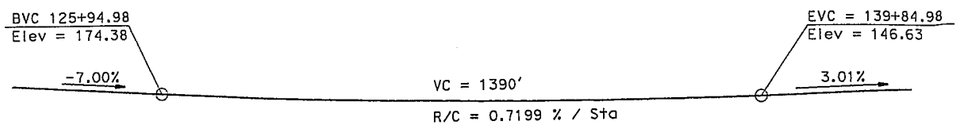
USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

MODEL => salmoncreek_s4b-b.dgn

CONTRACT No.: 01-401404

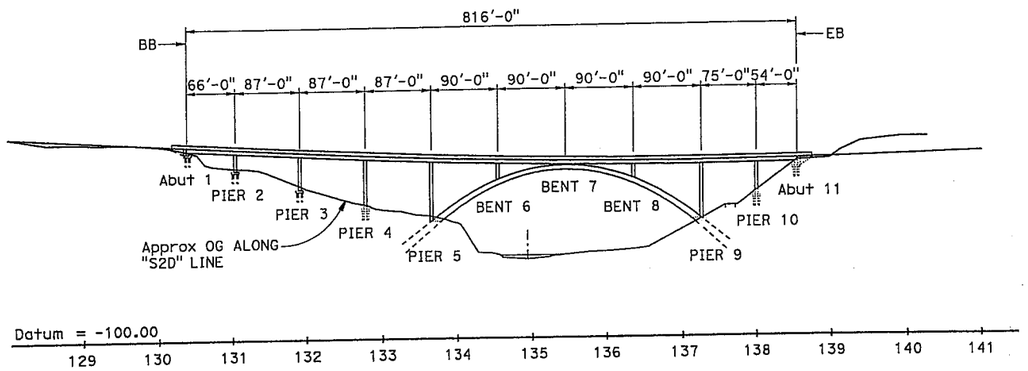
STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0



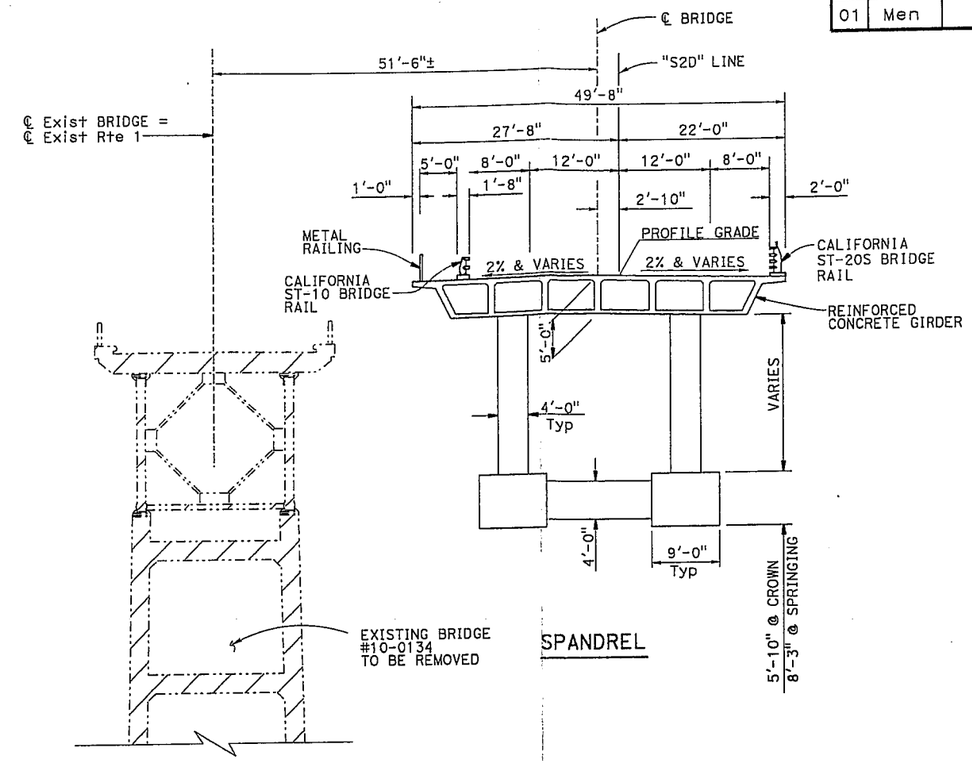
PROFILE GRADE

NO SCALE



ELEVATION

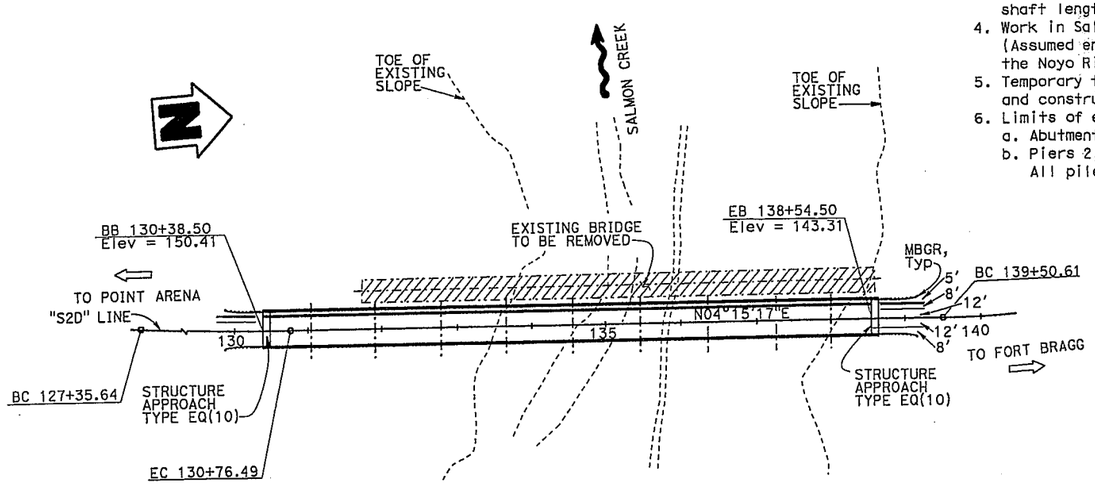
1" = 200'



SPANDREL

ASSUMPTIONS:

1. 24" CIDH piles (70 ton) at Abutments.
2. 24"CIDH Piles (100 ton) at Piers
3. 36'-0" x 12'-6" mined shafts at Piers 5 and 9, shaft lengths are 60ft and 45ft at Piers 5 and 9 respectively.
4. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
5. Temporary trestle across Salmon Creek for falsework and construction access.
6. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.



PLAN

1" = 200'

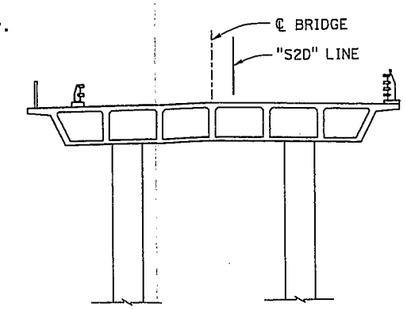
CURVE DATA

R =3500'
Δ =5°34'48"
T =170.56'
L =340.85'

LEGEND:

-.-.-.- Indicates existing structure

▨ Indicates limits of bridge removal



@ PIER

TYPICAL SECTION

1" = 20'

Date of Estimate	9/15/14
Str. Depth	= 5'-0"
Length	= 816 ft
Width	= 49'-8"
Area	= 40,531 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	$745.73
Total Cost	$30,225,000

DESIGNED BY Manode Kodsuntie	DATE 6-23-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S2D-C
DRAWN BY Jin Zhou	DATE 6-26-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE		UNIT: 3576 / BRIDGE No. 10-0134
			SCALE: As noted / PROJECT No. & PHASE: 0100000155

ORIGINAL SCALE IN INCHES 0 1 2 3

FILE => salmoncreek_s2d-c.dgn

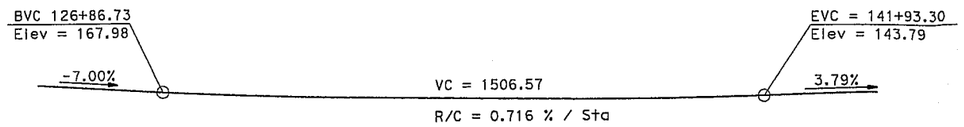
CONTRACT No.: 01-401404

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25

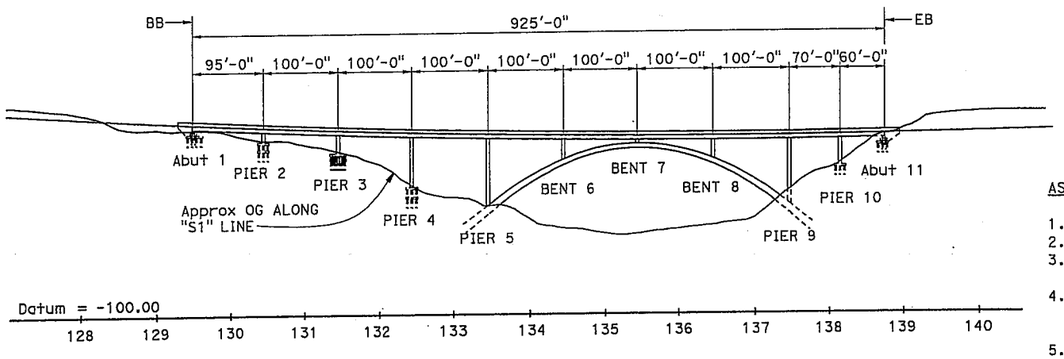
STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

DIST	COUNTY	ROUTE	POST MILE
01	Men	1	43.0



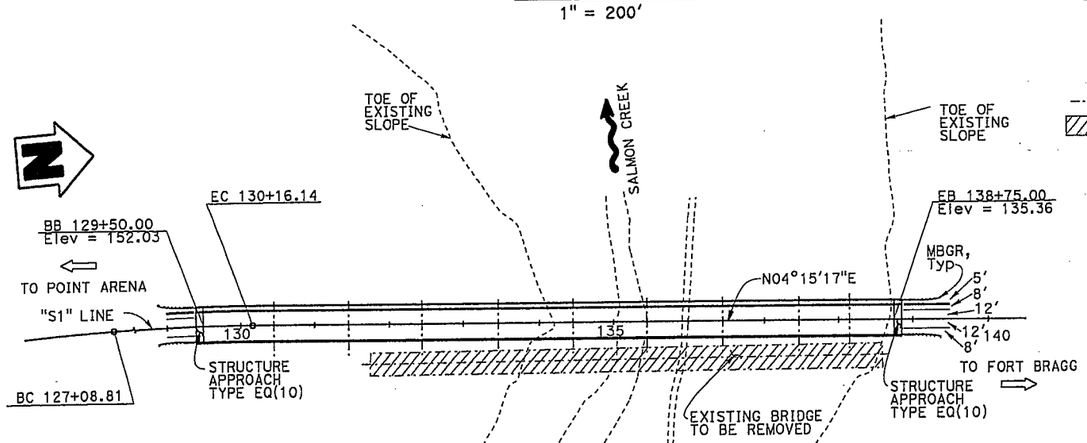
PROFILE GRADE

NO SCALE



ELEVATION

1" = 200'



CURVE DATA

R =3200'
Δ =5°30'10"
T =153.78'
L =307.33'

PLAN

1" = 200'

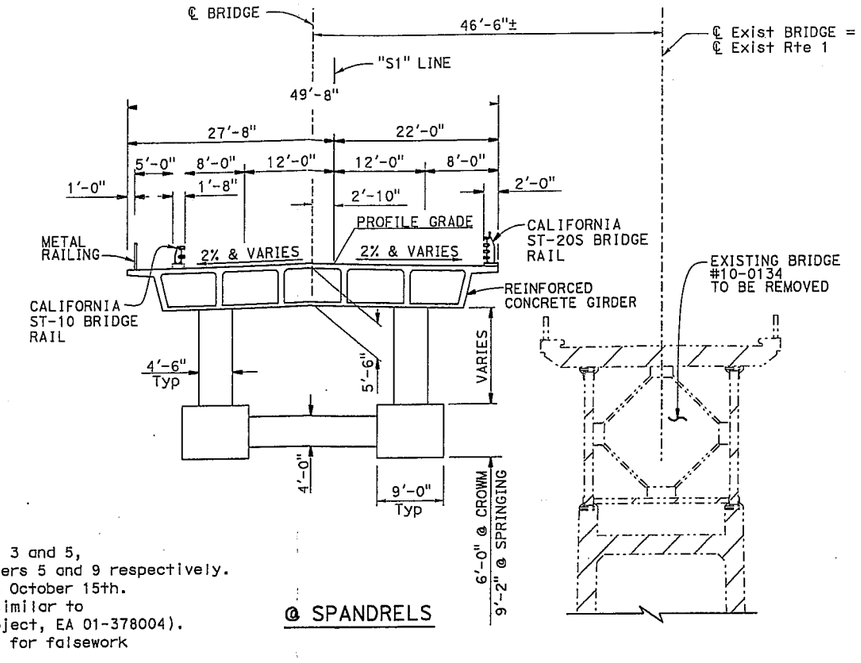
ASSUMPTIONS:

1. 24" CIDH piles (70 ton) at Abutments.
2. 24"CIDH Piles (100 ton) at Piers
3. 36'-0" x 12'-6" mined shafts at Piers 3 and 5, shaft lengths are 70ft and 50ft at Piers 5 and 9 respectively.
4. Work in Salmon Creek from June 1st to October 15th. (Assumed environmental restrictions similar to the Noyo River Bridge replacement project, EA 01-378004).
5. Temporary trestle across Salmon Creek for falsework and construction access.
6. Limits of existing bridge removal:
   a. Abutments 1 and 6 removed to 3 feet below finished grade.
   b. Piers 2, 3, 4, and 5 removed to bottom of footing. All piles to remain.

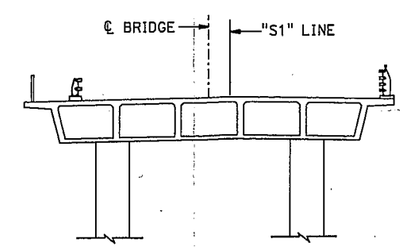
LEGEND:

-·-·- Indicates existing structure

▨ Indicates limits of bridge removal



@ SPANDRELS



@ PIERS

TYPICAL SECTION

1" = 20'

Date of Estimate	9/15/14
Str. Depth	Varies
Length	925 ft
Width	49'-8"
Area	45,945 ft²
Cost/sq ft including 10% Mobilization & 25% Contingency	$750.22
Total Cost	$34,469,000

ORIGINAL SCALE IN INCHES 0 1 2 3

DESIGNED BY Manode Kodsuntie	DATE 07-02-14	STRUCTURE DESIGN BRANCH 1	ALTERNATIVE S1-C
DRAWN BY Jin Zhou	DATE 07-02-14		PLANNING STUDY
CHECKED BY	DATE		SALMON CREEK BRIDGE (REPLACE)
APPROVED	DATE 8/12/14		UNIT: 3576 / BRIDGE No. 10-0134
FILE => salmoncreek_s1-c.dgn			SCALE: As noted / PROJECT No. & PHASE: 0100000155

CONTRACT No.: 01-401404

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

STRUCTURES DESIGN ADVANCE PLANNING STUDY SHEET (ENGLISH) (REV. 08-09-10)

USERNAME => s134008 DATE PLOTTED => 06-AUG-2014 TIME PLOTTED => 16:25