

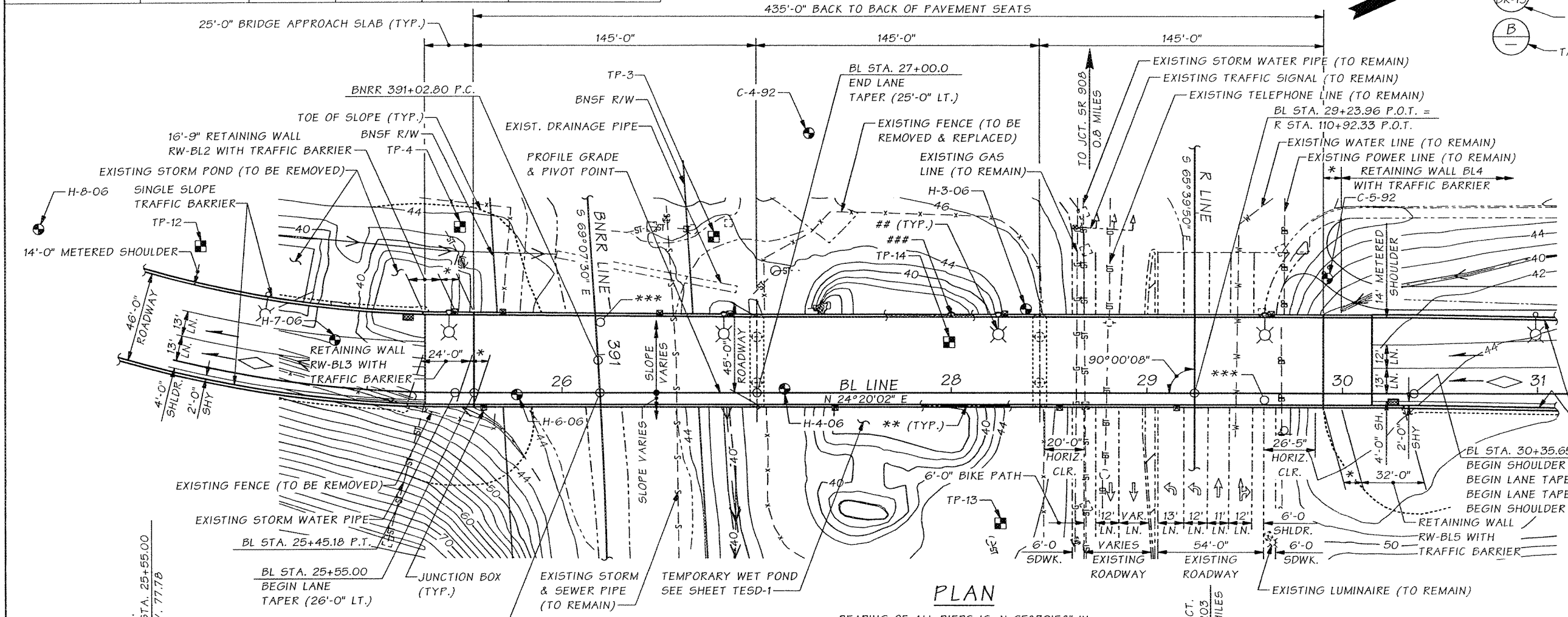
CURVE DATA					
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
BL 23+88.45	30°00'14.1" LT.	613.00'	164.28	321.01	N 54°20'16.1" E
BNRR 399+73.65	33°48'59.6" RT.	2864.79'	870.84	1630.83	S 69°07'30" E

SEC. 12, T.25N., R.5E., W.M.
CITY OF REDMOND

SR 520

LEGEND

- IDENTIFIES SECTION, VIEW OR DETAIL
- TAKEN OR SHOWN ON BRIDGE SHEET BR-15
- TAKEN OR SHOWN ON THE SAME SHEET

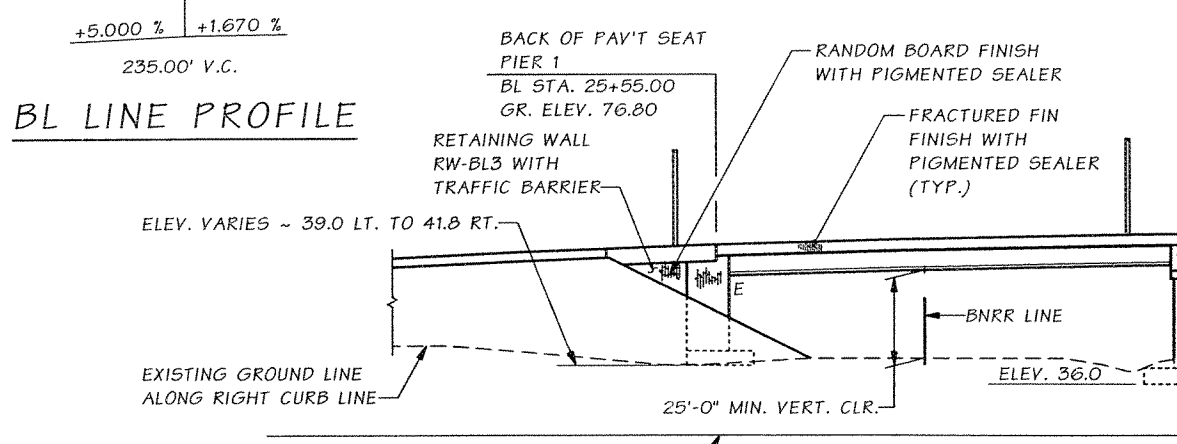


- TEST PIT
- TEST HOLES
- CATCH BASIN TYPE 1 WITH VANED GRATE (STD. PLAN B-30.30-00 AND B-95.40-00).
- * 9'-3 1/2" CURTAIN WALL
- ** 2 ~ 2"Ø CONDUIT PIPES IN TRAFFIC BARRIER FOR FULL LENGTH OF TRAFFIC BARRIER.
- *** POINT OF MINIMUM VERTICAL CLEARANCE.
- ## LUMINAIRE WITH JUNCTION BOX AND CONDUIT - SEE BRIDGE SHEET BR-32 FOR DETAILS.
- ### BRIDGE MOUNTED SIGN NO. 7 - SEE BRIDGE SHEET BR-33 FOR DETAILS.

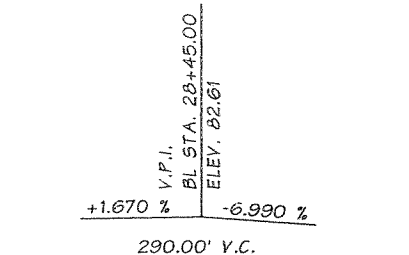
PLAN

BEARING OF ALL PIERS IS: N 65°39'58" W.

BL LINE PROFILE



BL LINE PROFILE



DATUM

NAVY 1988

ELEVATION

ARCHITECTURAL TREATMENT WITH PIGMENTED SEALER. SEE SHEET RT-18

GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF ROADWAY SLAB ON BL LINE AND ARE EQUAL TO PROFILE GRADE. SEE STD. PLAN H-9 FOR EMBANKMENT DETAILS AT BRIDGE ENDS.

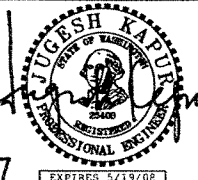
P.C. GIRDERS (WF74G)
CONT. FOR LL
LOADING: HL-93

SR 520 JOB NO. 7035 SHEET BR-1

Bridge Design Engr. Khaleghi, B	M:\X-Team\BL RAMP>window files\LAYOUT.WND	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor Anderson, MW		10	WASH.			
Designed By A.C./J.B.	09/06	JOB NUMBER 06A026				
Checked By A.C./J.B.	09/06					
Detailed By McCarthy, DJ	06/06					
Bridge Projects Engr. Lewis, RA	06/06					
Prelim. Plan By Bushnaq, S	06/06					
Architect/Specialist Kinderman, P	06/06	DATE	REVISION	BY	APP'D	

Tue Jan 16 14:02:17 2007

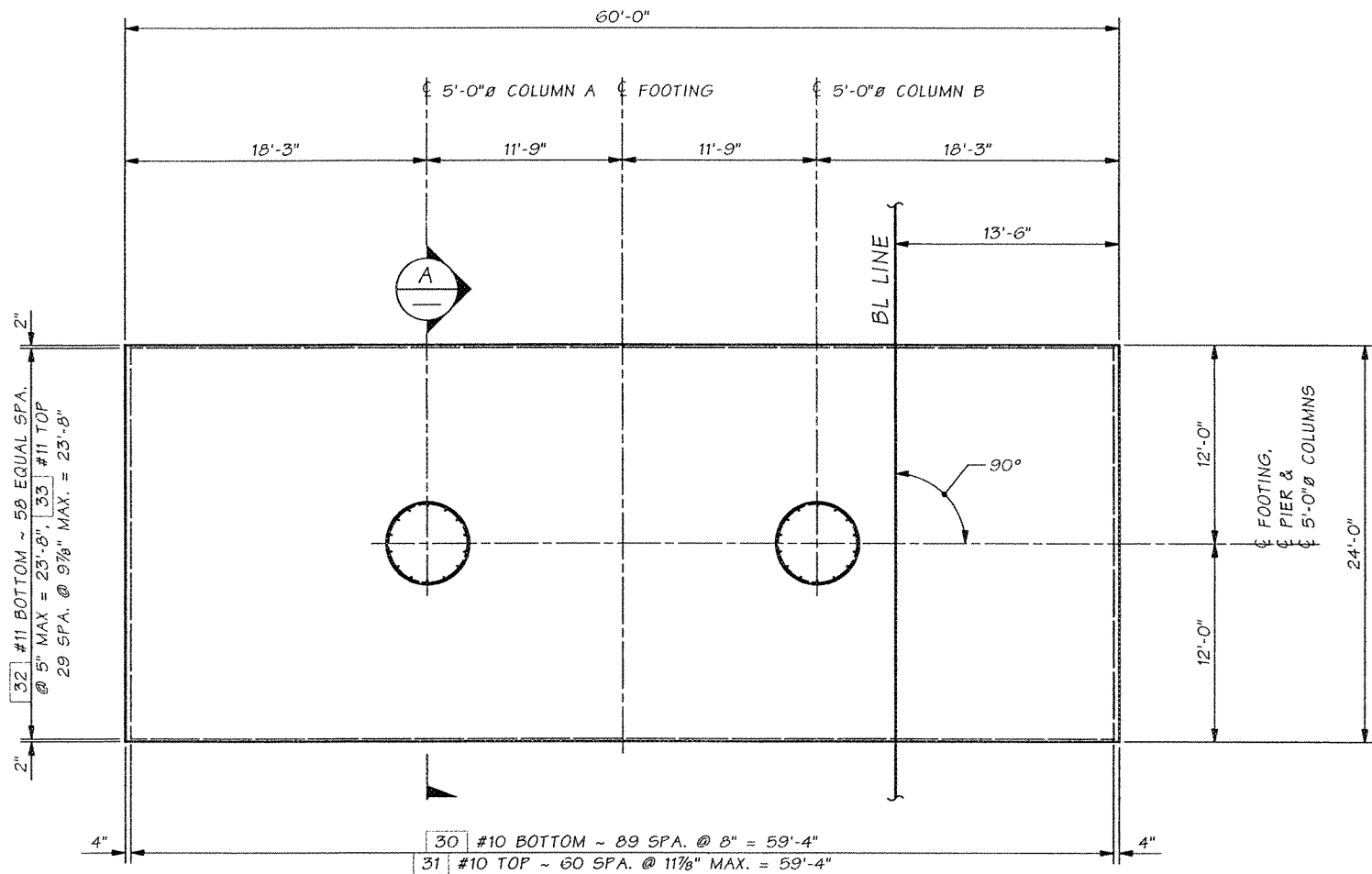
BRIDGE AND STRUCTURES OFFICE
1-17-07



SR 520
W LAKE SAMMAMISH PKWY TO SR 202
FLYOVER RAMP
BL RAMP
LAYOUT

BRIDGE SHEET NO. BR-1
SHEET 178 OF 235 SHEETS

C.S. 1756 ~ PROJ. NO. XL2028E ~ NORTHWEST REGION ~ SR 520 ~ W LAKE SAMMAMISH PKWY TO SR 202 FLYOVER RAMP ~ BL RAMP ~ NEW STRUCTURE



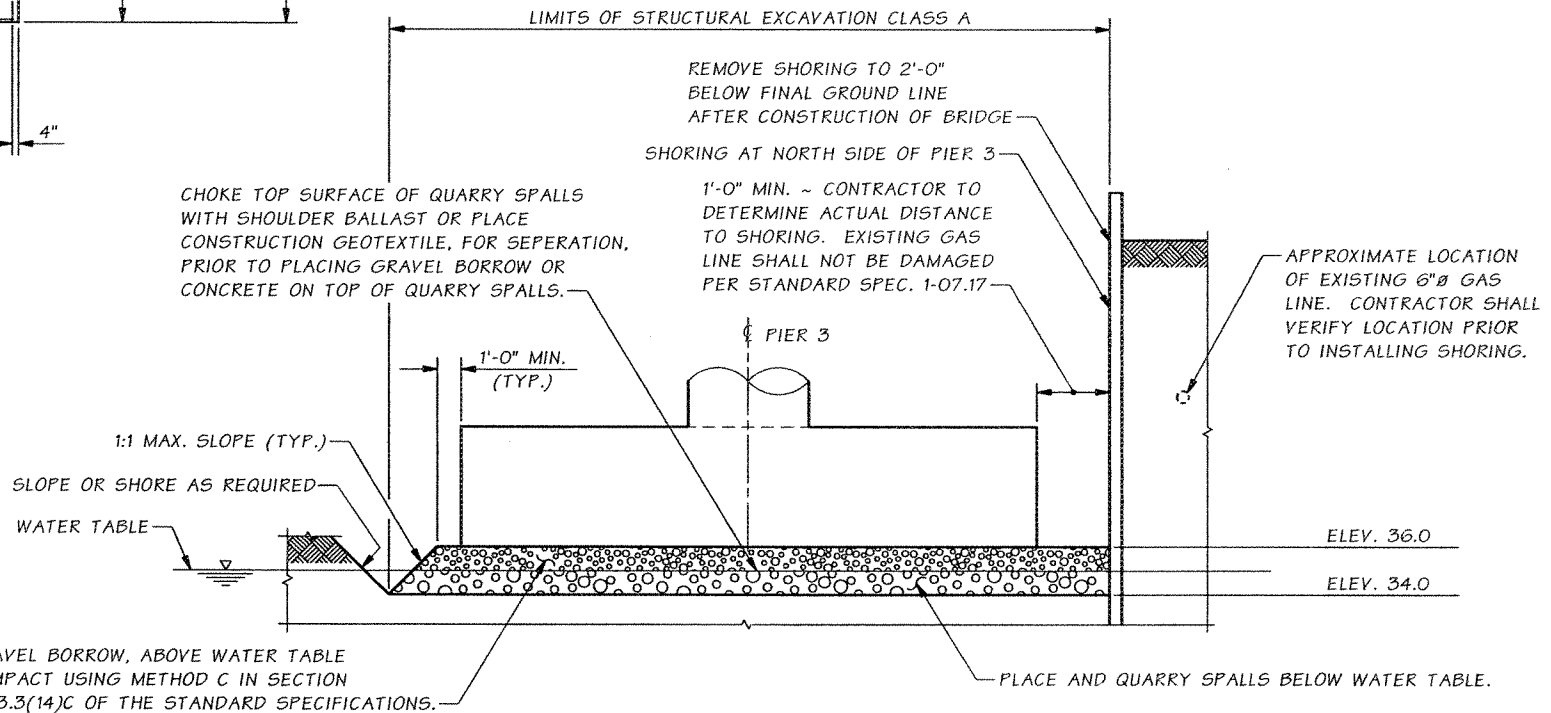
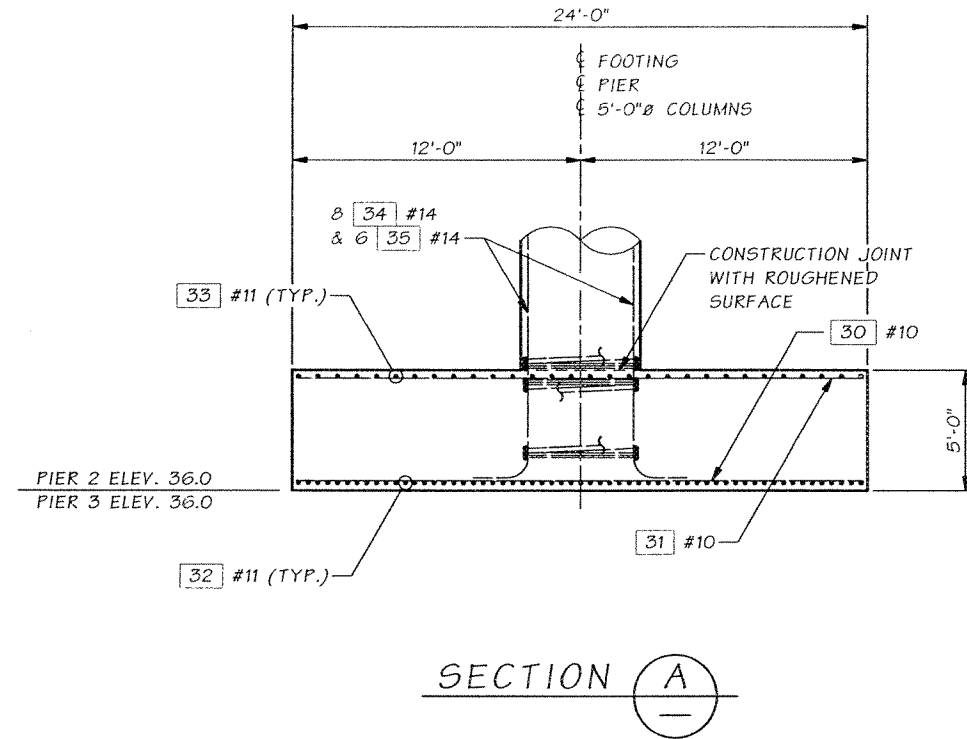
PLAN

PIER 2 SHOWN, PIER 3 SIMILAR.

THE FOOTING CONCRETE SHALL NOT BE PLACED UNTIL THE ENGINEER APPROVES OF THE PLACEMENT ORIENTATION OF #34 #14 & #35 #14 RELATIVE TO CENTERLINE OF PIER, PER SECTION B AND SECTION B.

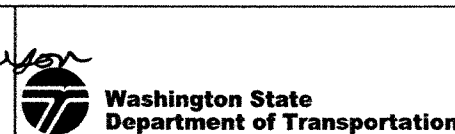
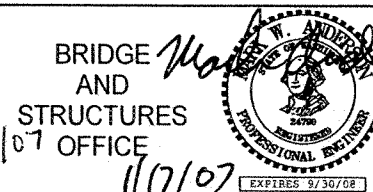
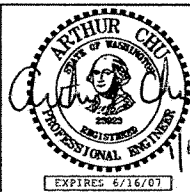
BR-15

BR-12



PIER 3 - EXCAVATION DETAIL

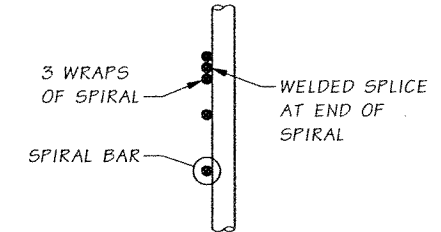
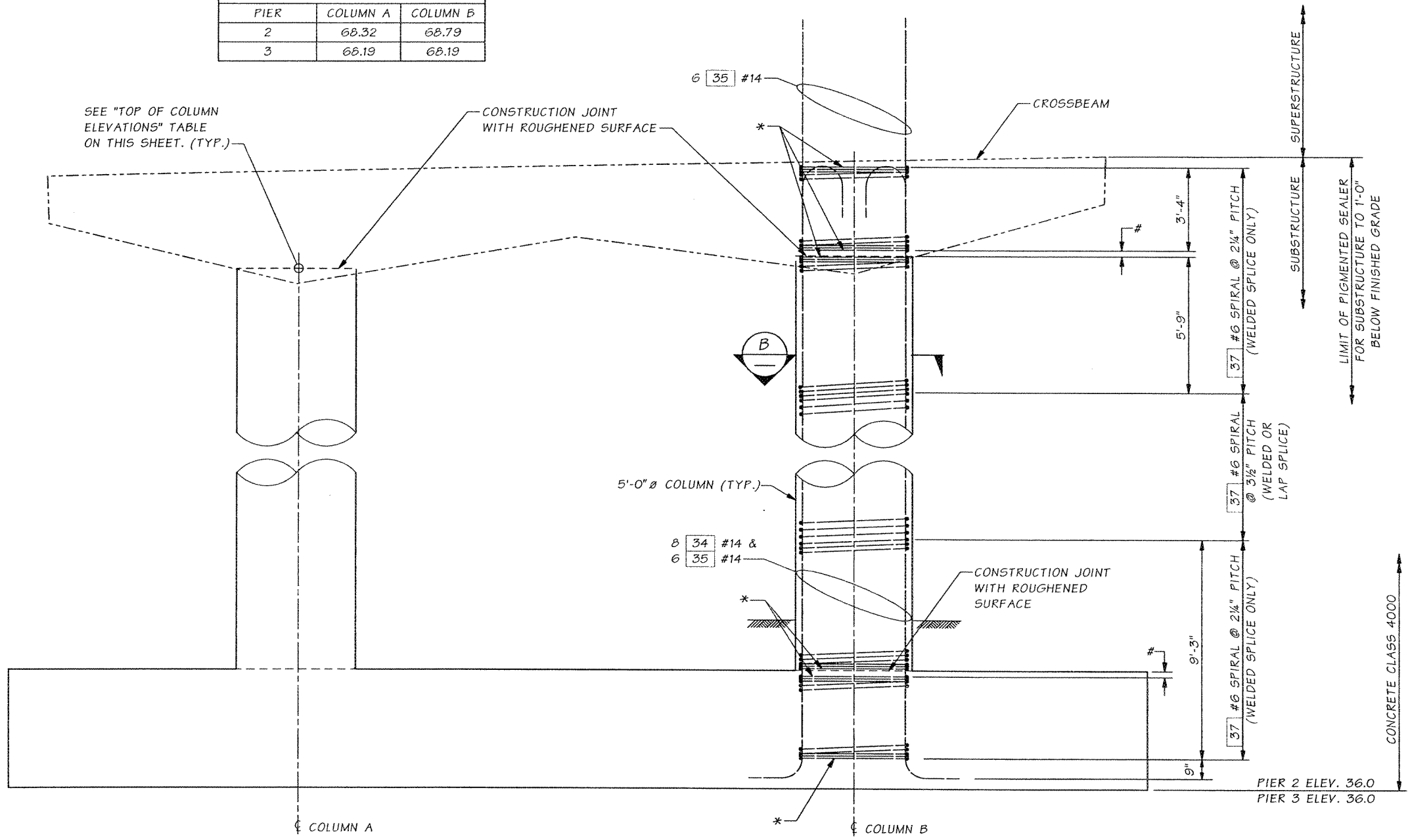
Bridge Design Engr.	Khaloghi, B	M:\X-Team\BL RAMP\window files\P2 & P3 FOOTING.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Anderson, MW			10	WASH.			
Designed By	Chu, A	09/06						
Checked By	Bingle, J	09/06						
Detailed By	McCarthy, DJ	09/06						
Bridge Projects Engr.				JOB NUMBER	06A026			
Prelim. Plan By				DATE	REVISION	BY	APP'D	
Architect/Specialist								



SR 520
W LAKE SAMMAMISH PKWY TO SR 202
FLYOVER RAMP
BL RAMP
PIERS 2 AND 3
FOOTING

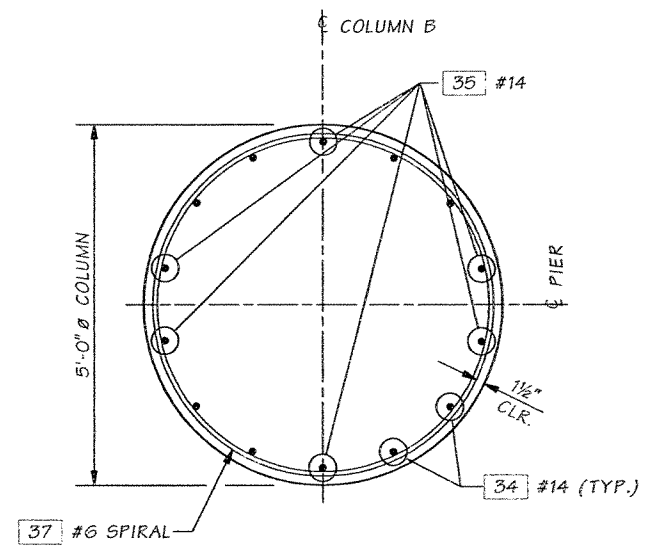
BRIDGE SHEET NO. BR-11
SHEET 188 OF 235 SHEETS

TOP OF COLUMN ELEVATIONS		
PIER	COLUMN A	COLUMN B
2	68.32	68.79
3	68.19	68.19



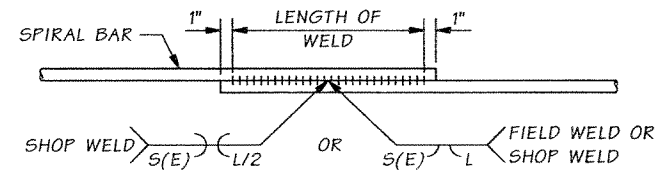
SPIRAL TERMINATION DETAIL

WELD SPIRAL BACK TO ITSELF AT END OF SPIRAL.



SECTION B

COLUMN A SIMILAR. VERTICAL REINFORCING SYMMETRICAL ABOUT PIER & COLUMN.



WELDED LAP SPLICE DETAIL

WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS, SEE TABLE BELOW.

COLUMN SPIRAL OPTIONS

DEFORMED BAR ASTM A 706	PLAIN STEEL BAR ASTM A 706	WELD DIMENSIONS		
		S	E	LENGTH (L)
#6	3/4" Ø	3/8	3/16	6

ELEVATION

PIER 2 SHOWN, PIER 3 SIMILAR. FOOTING AND CROSSBEAM REINF. NOT SHOWN FOR CLARITY.

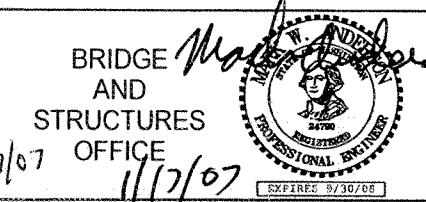
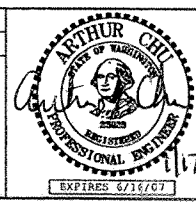
* SEE SPIRAL TERMINATION DETAIL.

3" VERTICAL BREAK IN SPIRAL TO ALLOW PLACEMENT OF TOP MAT FOOTING REINFORCEMENT AND BOTTOM CROSSBEAM REINFORCEMENT.

SR 520 JOB NO. 7035 SHEET BR-12

Bridge Design Engr.	Khaleghi, B	M:\X-Team\BL RAMP>window files\P2 & P3 COLUMN.WND
Supervisor	Anderson, MW	
Designed By	Chu, A	06/06
Checked By	Bingle, J	09/06
Detailed By	McCarthy, DJ	06/06
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		
DATE	REVISION	BY APPD

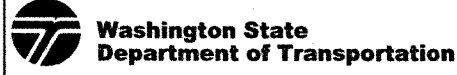
REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER				
06A026				



BRIDGE AND STRUCTURES OFFICE

1/17/07

11/7/07



SR 520
W LAKE SAMMAMISH PKWY TO SR 202
FLYOVER RAMP
BL RAMP

PIERS 2 & PIER 3
COLUMN DETAILS

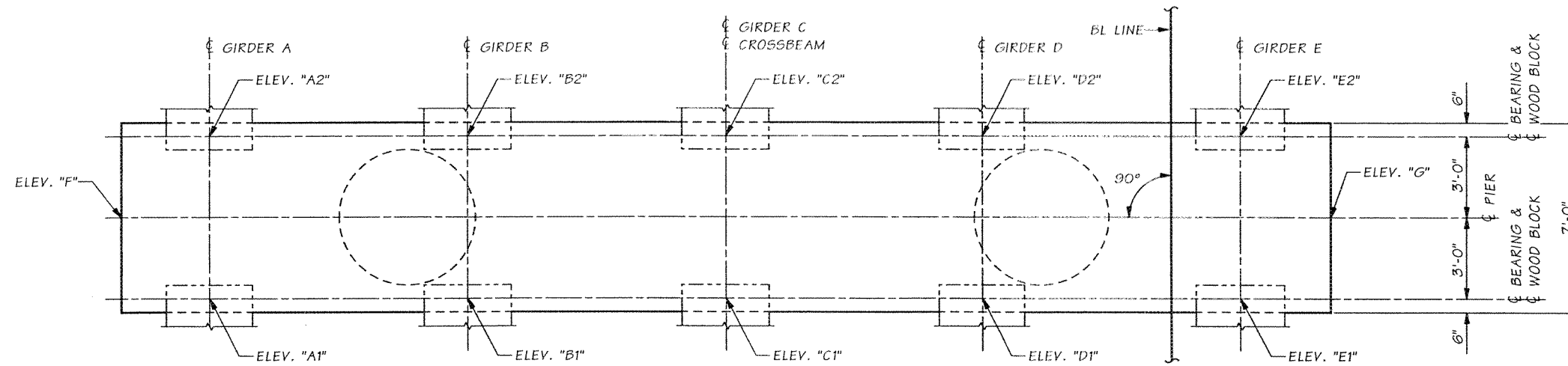
BRIDGE SHEET NO. BR-12

SHEET 189 OF 235 SHEETS

TABLE OF ELEVATIONS

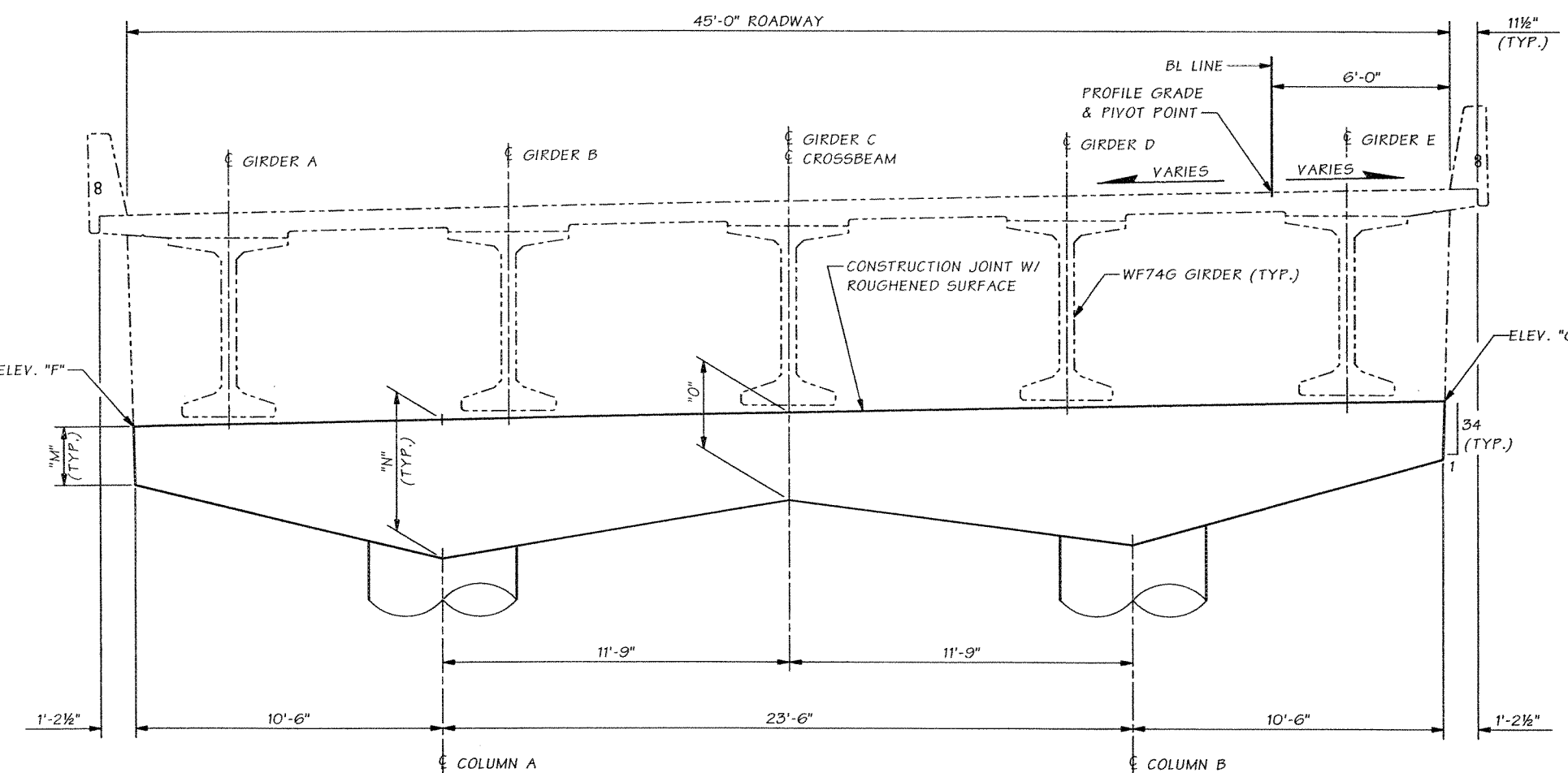
ELEVATION	PIER 2	PIER 3
F	72.17	72.29
G	73.06	72.29
A1 *	72.41	72.60
A2 *	72.61	72.47
B1 *	72.61	72.60
B2 *	72.80	72.47
C1 *	72.80	72.61
C2 *	72.98	72.46
D1 *	73.00	72.61
D2 *	73.17	72.46
E1 *	73.20	72.62
E2 *	73.36	72.45

* ELEVATION AT TOP OF OAK BLOCK
(BOTTOM OF PRESTRESSED GIRDER)



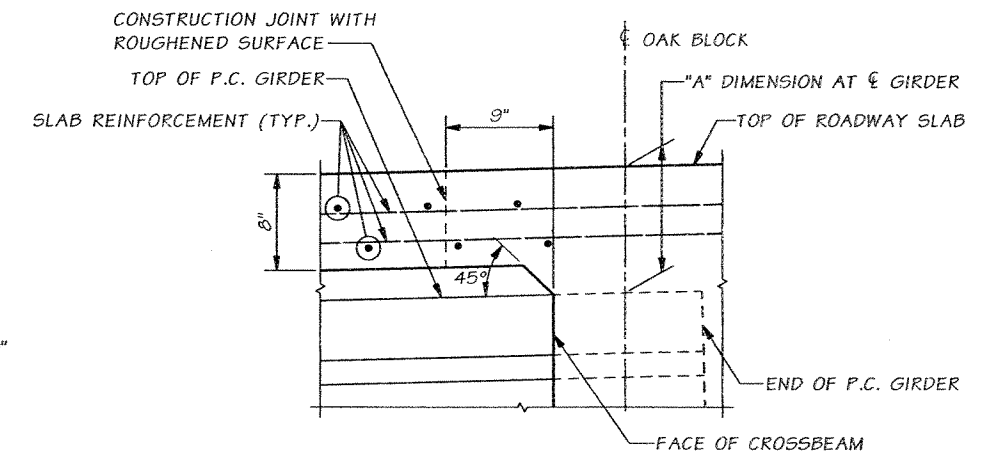
PLAN

PIER 2 SHOWN, PIER 3 SIMILAR.



ELEVATION

PIER 2 SHOWN, PIER 3 SIMILAR.



CONSTRUCTION JOINT DETAIL

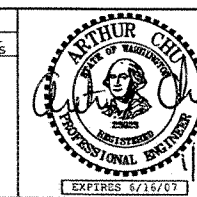
TABLE OF DIMENSIONS

BL STATION	M	N	O
26+96.50	2'-0"	4'-9"	3'-0"
27+03.50	2'-1 ³ / ₈ "	4'-10 ³ / ₈ "	3'-1 ³ / ₈ "
28+41.50	2'-2 ¹ / ₄ "	4'-11 ¹ / ₄ "	3'-2 ¹ / ₄ "
28+48.50	2'-0"	4'-9"	3'-0"

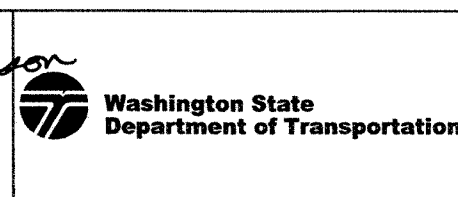
SR 520 JOB NO. 7035 SHEET BR-13

Bridge Design Engr.	Kha Teghi, B	M:\X-Team\BL RAMP>window files\CROSSBM 1.WND	
Supervisor	Anderson, MW	REGION NO.	STATE
Designed By	Chu, A 05/06	10	WASH.
Checked By	Bingle, J 09/06	JOB NUMBER	06A026
Detailed By	McCarthy, DJ 06/06	DATE	REVISION
Bridge Projects Engr.		BY	APPD
Prelim. Plan By			
Architect/Specialist			

FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS

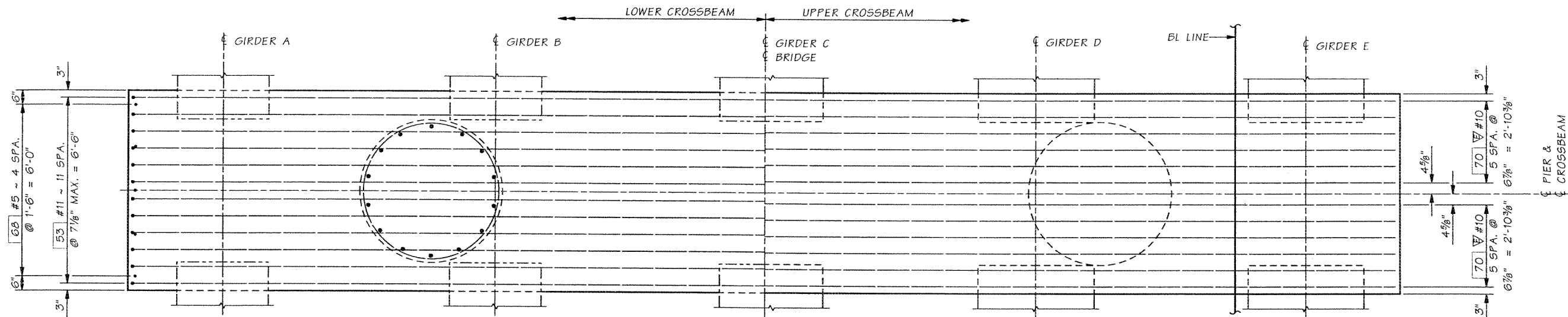


BRIDGE AND STRUCTURES OFFICE
 11/17/07
 11/17/07



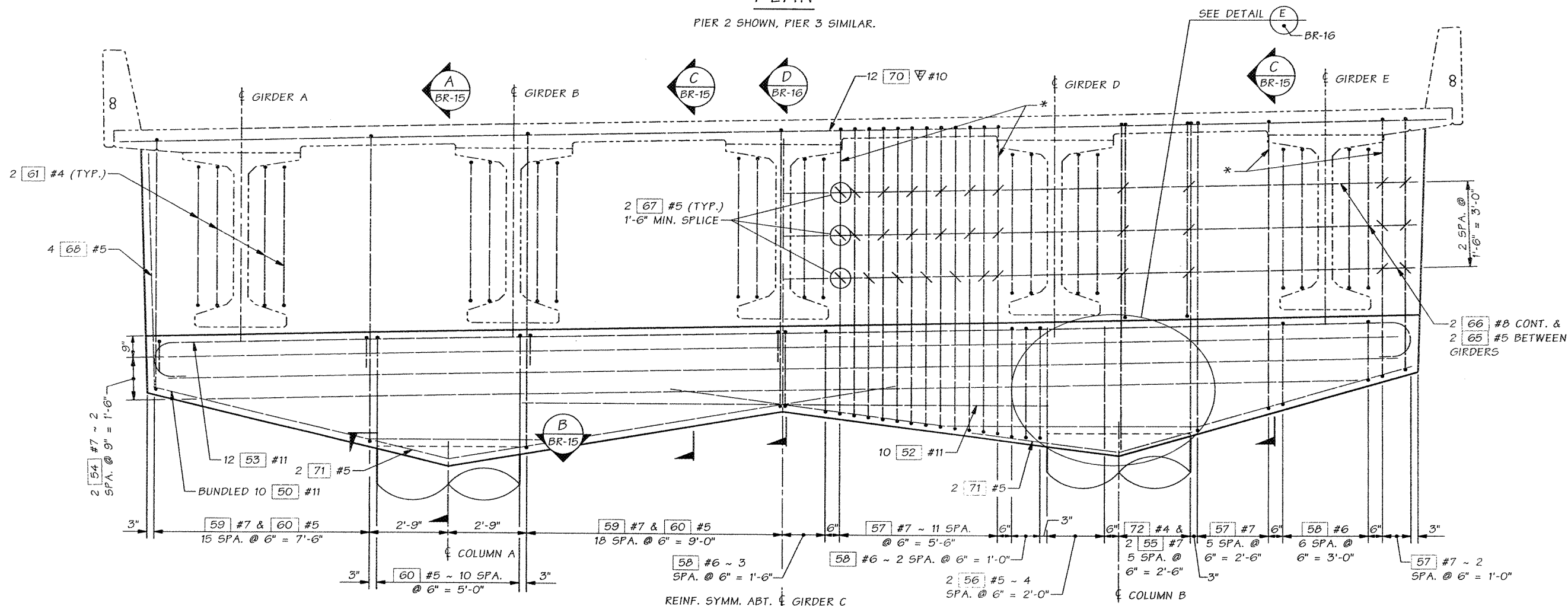
SR 520
 W LAKE SAMMAMISH PKWY TO SR 202
 FLYOVER RAMP
 BL RAMP
 CROSSBEAM PIERS 2 AND 3
 DETAILS 1 OF 4

BRIDGE SHEET NO. BR-13
 SHEET 190 OF 235 SHEETS



PLAN

PIER 2 SHOWN, PIER 3 SIMILAR.



ELEVATION

PIER 2 SHOWN, PIER 3 SIMILAR.
SYMMETRICAL ABOUT G BRIDGE EXCEPT
FOR EFFECTS OF SUPERELEVATION.

* FIELD CUT REBAR TO 2" BELOW BOTTOM OF
GIRDER FLANGE TO ALLOW GIRDER TO BE SET.

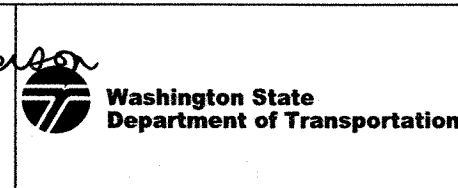
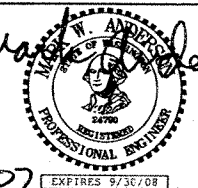
SR 520 JOB NO. 7035 SHEET BR-14

Bridge Design Engr.	Khaleghi, B	M:\X-Team\BL RAMP>window files\CROSSBM 2.WND
Supervisor	Anderson, MW	
Designed By	Chu, A	05/06
Checked By	Bingle, J	09/06
Detailed By	McCarthy, DJ	06/06
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		
DATE	REVISION	BY APPD

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER				
06A026				



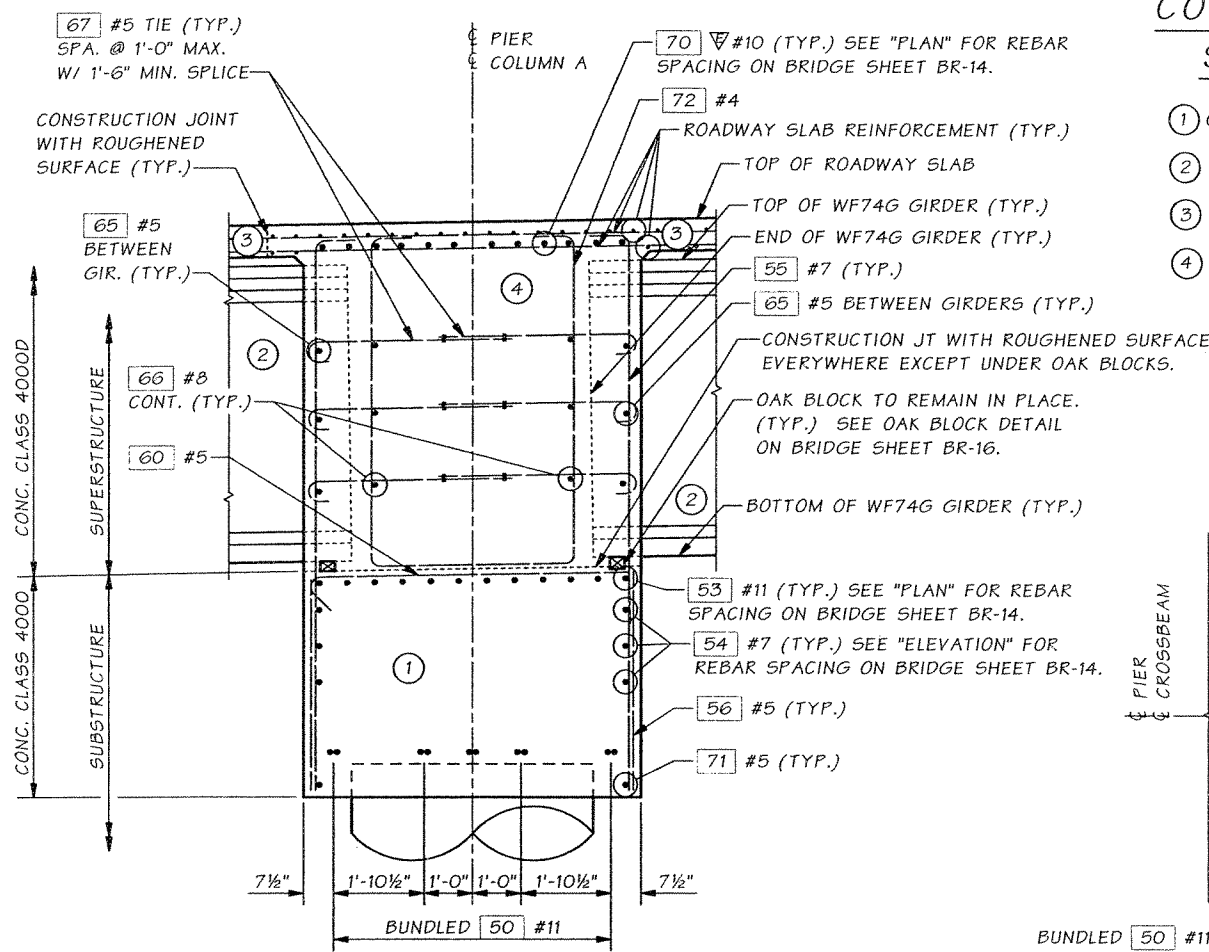
BRIDGE AND STRUCTURES
11/07 OFFICE
11/07



SR 520
W LAKE SAMMAMISH PKWY TO SR 202
FLYOVER RAMP
BL RAMP
CROSSBEAM PIERS 2 AND 3
DETAILS 2 OF 4

BRIDGE SHEET NO.
BR-14
SHEET
191
OF
235
SHEETS

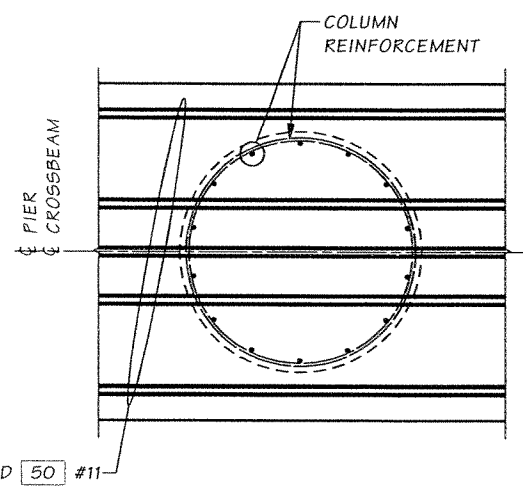
SR 520 JOB NO. 7035 SHEET BR-15



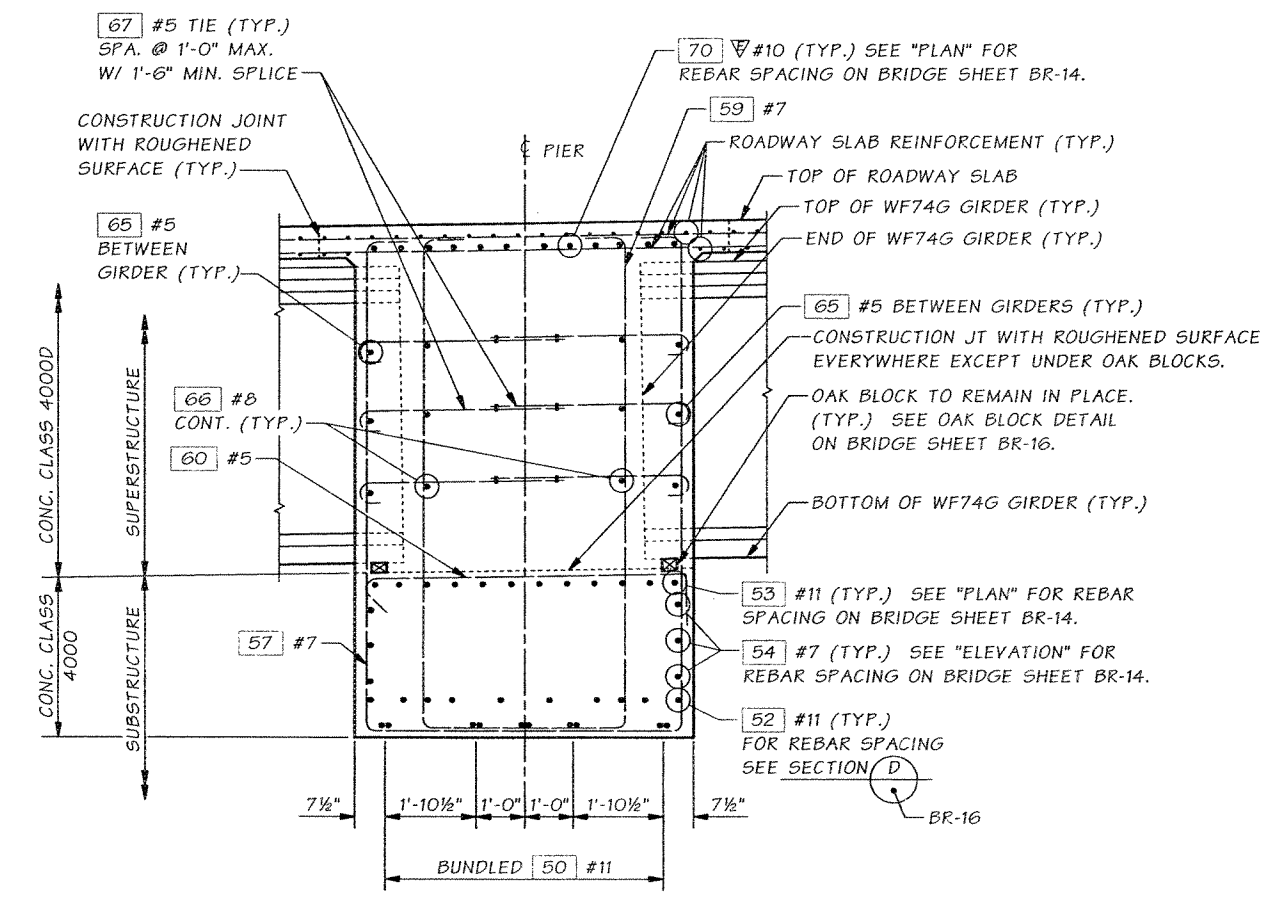
SECTION A
BR-14
COLUMN STEEL NOT SHOWN FOR CLARITY.
BOTTOM OF CROSSBEAM IS LEVEL.

CONSTRUCTION SEQUENCE

- ① CONSTRUCT LOWER PORTION OF CROSSBEAM
- ② PLACE GIRDERS ON OAK BLOCKS
- ③ PLACE ROADWAY SLAB
- ④ CONSTRUCT UPPER PORTION OF CROSSBEAM





SECTION B
BR-14
ORIENT COLUMN VERTICAL STEEL AS SHOWN TO FACILITATE PLACEMENT OF BUNDLE #50 #11.




SECTION C
BR-14
FOR #60 #5 ALTERNATE LOCATION OF 135° HOOK EVERY OTHER TIE BARS.
BOTTOM OF CROSSBEAM IS LEVEL.

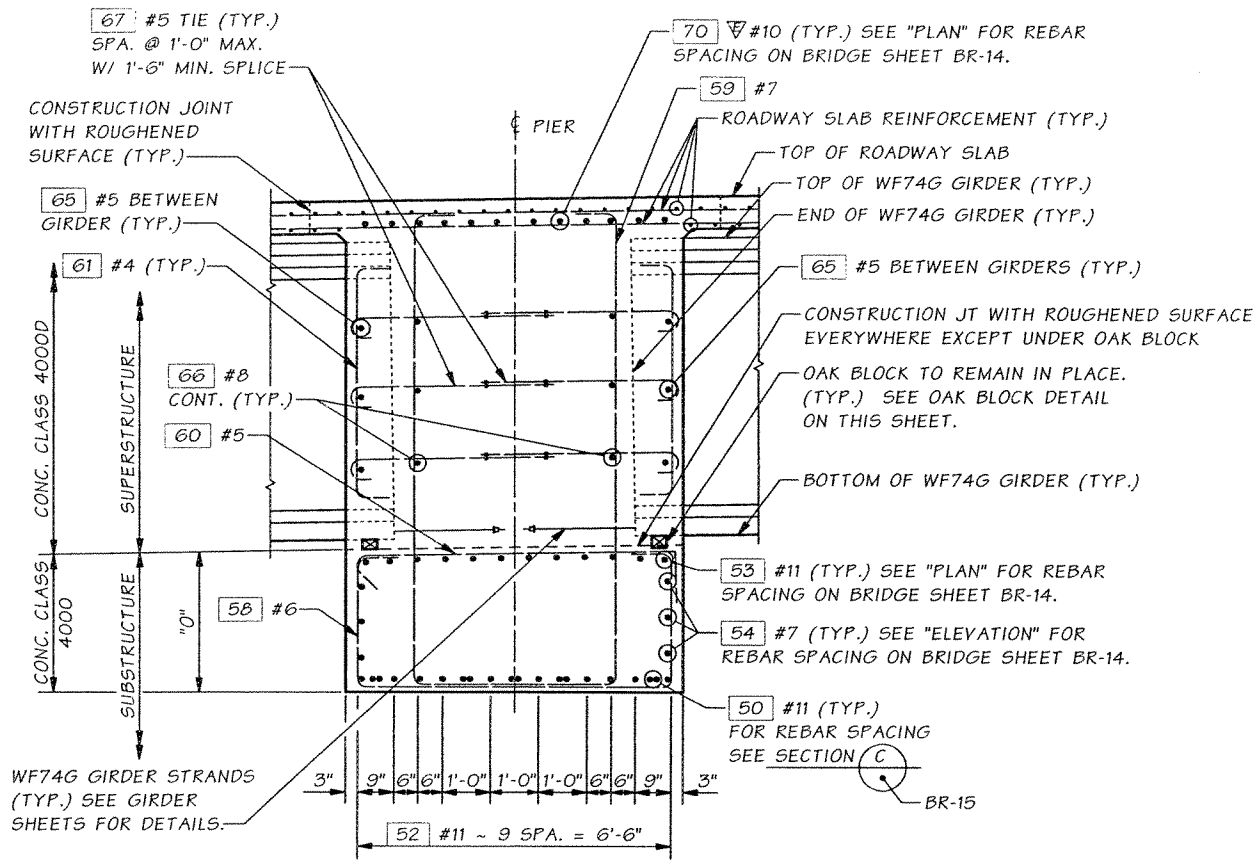
Bridge Design Engr.	Kha Teghi, B	M:\X-Team\BL RAMP>window files\CROSSBM 3.WND	
Supervisor	Anderson, MW	REGION NO.	TOTAL SHEETS
Designed By	Chu, A 08/06	STATE	
Checked By	Bingle, J 09/06	10 WASH.	
Detailed By	McCarthy, DJ 08/06	JOB NUMBER	
Bridge Projects Engr.		06A026	
Prelim. Plan By		DATE	REVISION
Architect/Specialist		BY	APPD

BRIDGE AND STRUCTURES OFFICE
 11/7/07

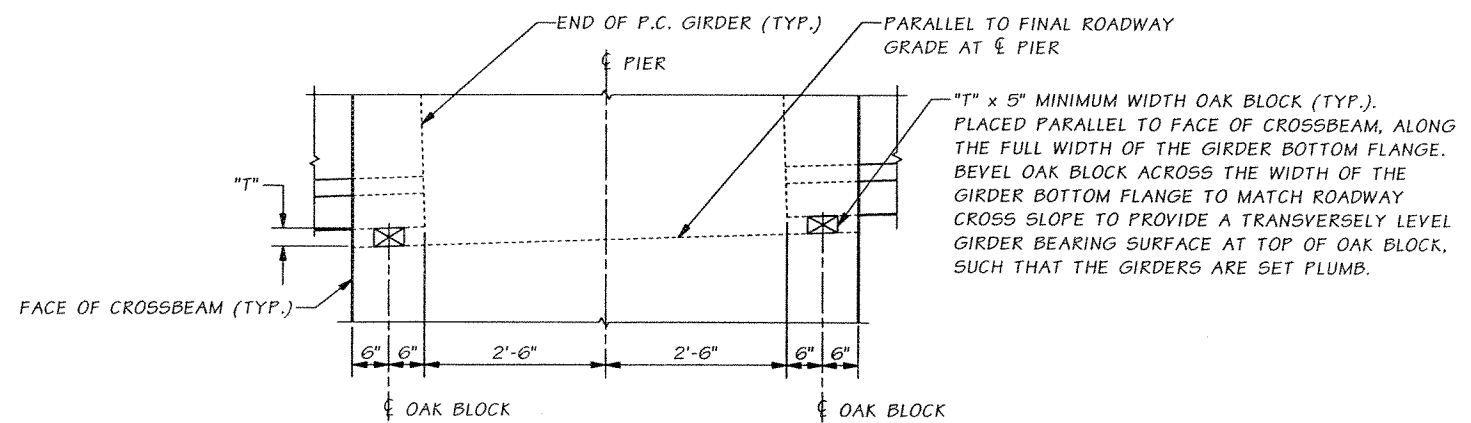

Washington State Department of Transportation

SR 520 W LAKE SAMMAMISH PKWY TO SR 202 FLYOVER RAMP BL RAMP	BRIDGE SHEET NO. BR-15
CROSSBEAM PIERS 2 AND 3 DETAILS 3 OF 4	SHEET 192 OF 235 SHEETS



SECTION D
BR-14

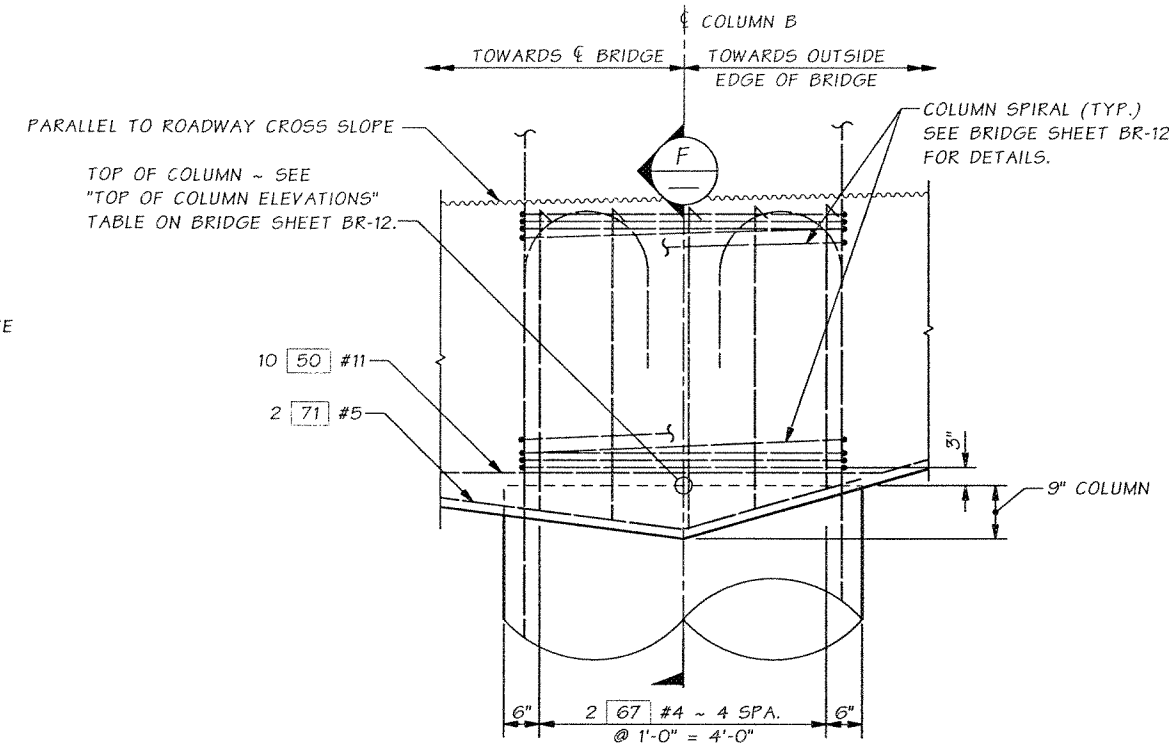
FOR #60 #5, ALTERNATE LOCATION OF 135° HOOK EVERY OTHER TIE BAR.
BOTTOM OF CROSSBEAM IS LEVEL.



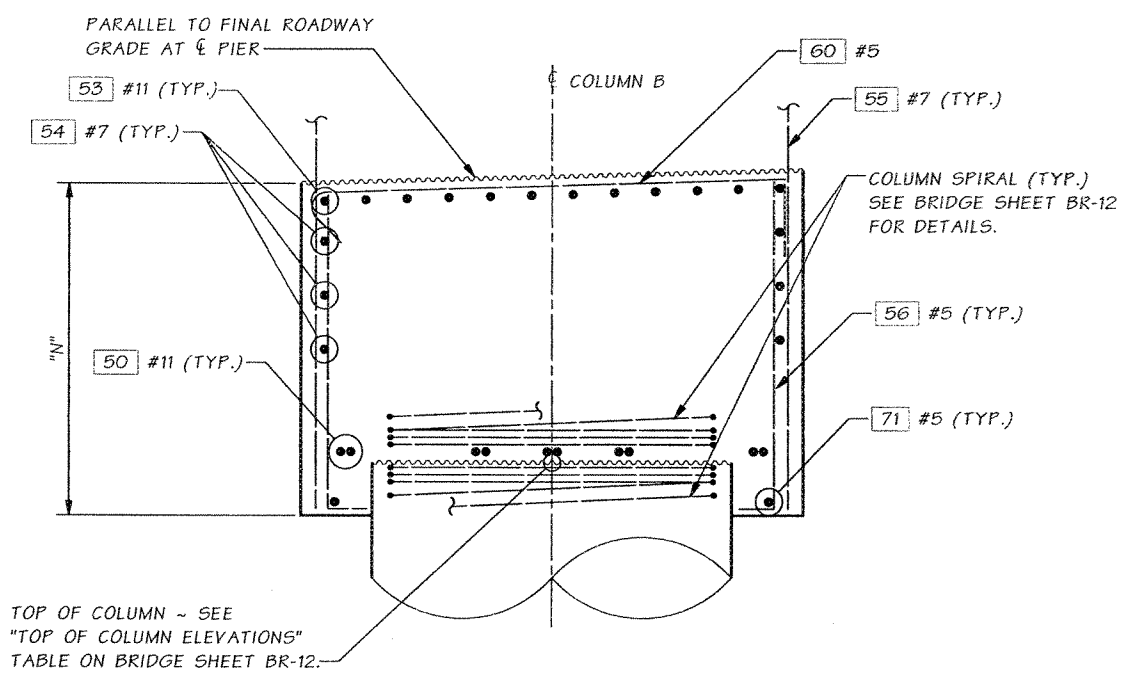
OAK BLOCK DETAIL

T = THICKNESS OF OAK BLOCK AT GIRDER
T = 3" AT SPAN 1 AT PIER 2
T = 3 3/4" AT SPAN 2 AT PIER 2
T = 3" AT SPAN 2 & 3 AT PIER 3

FOR "N" AND "O", SEE "TABLE OF DIMENSIONS" ON BRIDGE SHEET BR-13.



DETAIL E
BR-14
COLUMN SPIRAL NOT SHOWN FOR CLARITY.

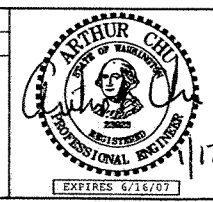


SECTION F

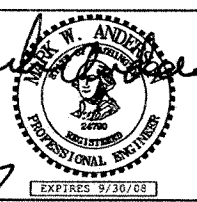
VERTICAL COLUMN STEEL NOT SHOWN FOR CLARITY.

SR 520 JOB NO. 7035 SHEET BR-16

Bridge Design Engr.	Khaleghi, B	M:\X-Team\BL RAMP>window files\CROSSBM 4.WND	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Anderson, MW		10	WASH.			
Designed By	Chu, A	08/06	JOB NUMBER		06A026		
Checked By	Bingle, J	09/06	DATE		REVISION		
Detailed By	McCarthy, DJ	08/06	BY		APPD		
Bridge Projects Engr.			DATE		REVISION		
Prelim. Plan By			BY		APPD		
Architect/Specialist			DATE		REVISION		



BRIDGE AND STRUCTURES
11/17/07 OFFICE
11/17/07



SR 520
W LAKE SAMMAMISH PKWY TO SR 202
FLYOVER RAMP
BL RAMP
CROSSBEAM PIERS 2 AND 3
DETAILS 4 OF 4

BRIDGE SHEET NO.
BR-16
SHEET
193
OF
235
SHEETS