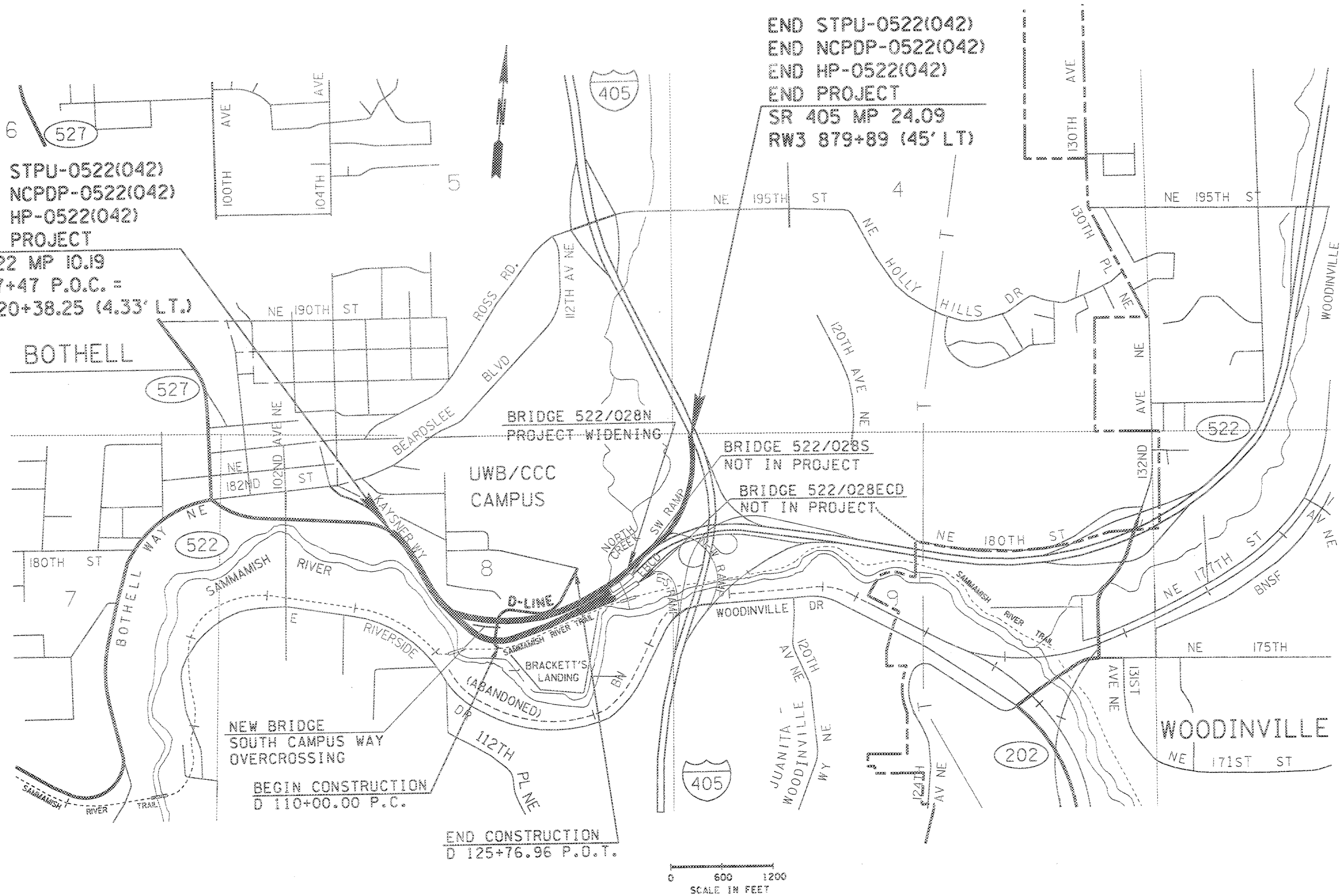


T.26N. R.5E. W.M.

END STPU-0522(042)
 END NCPDP-0522(042)
 END HP-0522(042)
 END PROJECT
 SR 405 MP 24.09
 RW3 879+89 (45' LT.)

BEGIN STPU-0522(042)
 BEGIN NCPDP-0522(042)
 BEGIN HP-0522(042)
 BEGIN PROJECT
 SR 522 MP 10.19
 L 577+47 P.O.C. =
 RW2 20+38.25 (4.33' LT.)

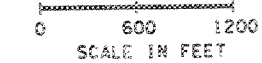


NEW BRIDGE
 SOUTH CAMPUS WAY
 OVERCROSSING
 BEGIN CONSTRUCTION
 D 110+00.00 P.C.

END CONSTRUCTION
 D 125+76.96 P.O.T.

FILE NAME	S:\42348\XL23H SR522 UWB CCC\CADD\ARCHIVE\522vicinitymap.dgn
TIME	7:57:19 AM
DATE	8/22/2007
PLOTTED BY	nguyent
DESIGNED BY	J. DAVIDSON
ENTERED BY	T. NGUYEN
CHECKED BY	G. McKEE
PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	L. BNG

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	STPU-0522(042)
JOB NUMBER		NCPDP-0522(042)
07A043		HP-0522(042)
CONTRACT NO.	LOCATION NO.	

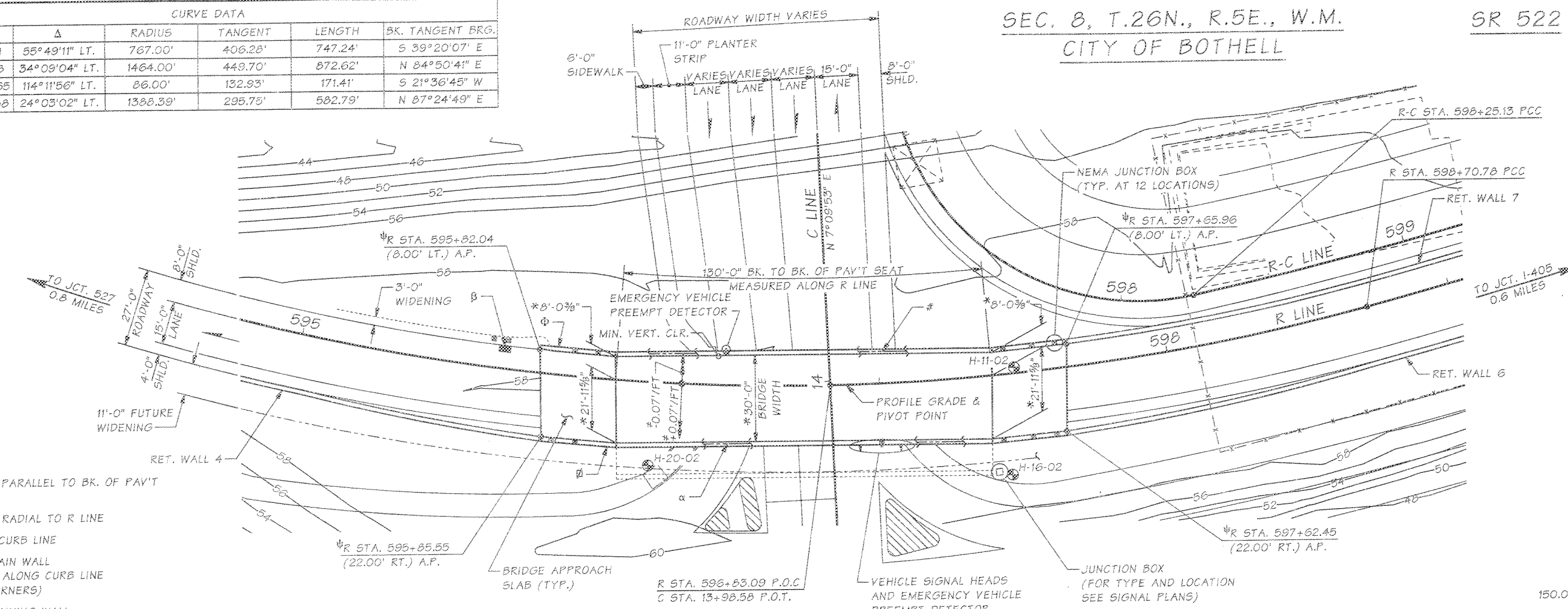


SR 522
 UNIVERSITY OF WASHINGTON BOTHELL /
 CASCADIA CC CAMPUS SOUTH ACCESS
 VICINITY MAP

PLOT1
 VM1
 SHEET 3
 OF 436
 SHEETS

CURVE DATA					
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
R LINE 595+29.81	55°49'11" LT.	767.00'	406.28'	747.24'	S 39°20'07" E
R LINE 603+20.48	54°09'04" LT.	1464.00'	449.70'	872.62'	N 84°50'41" E
R-C LINE 597+86.65	114°11'56" LT.	86.00'	132.93'	171.41'	S 21°36'45" W
R-C LINE 601+20.88	24°03'02" LT.	1388.39'	295.75'	582.79'	N 87°24'49" E

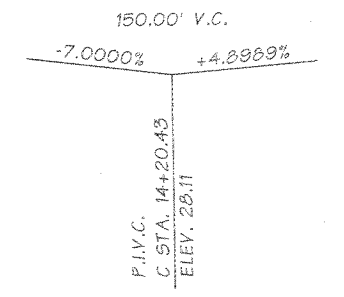
SEC. 8, T.26N., R.5E., W.M. SR 522
CITY OF BOTHELL



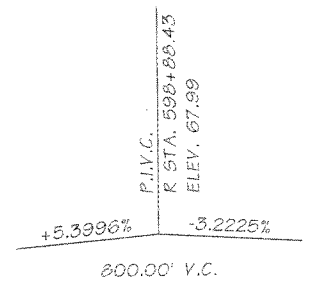
PLAN

BEARING OF ALL PIERS IS : N 9°32'40" E

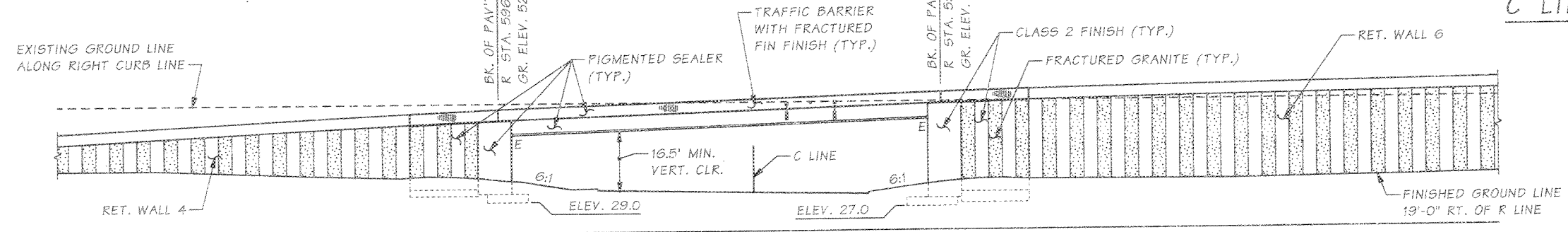
- * MEASURED PARALLEL TO BK. OF PAV'T SEAT
- ≠ MEASURED RADIAL TO R LINE
- ψ TAKEN AT CURB LINE
- ▣ 6'-0" CURTAIN WALL MEASURED ALONG CURB LINE (TYP. 4 CORNERS)
- ⊕ 20'-0" RETAINING WALL MEASURED ALONG CURB LINE (TYP. 4 CORNERS)
- β STD. PLAN B-40.40-00 FRAME & DUAL VANED GRATES FOR STD. PLAN B-35.40-00 GRATE INLET TYPE 2. SEE DRAINAGE PLANS FOR LOCATION
- α 2 - 2" SPARE CONDUIT PIPES (TYP. BOTH BARRIERS)
- # 2" SIGNAL CONDUIT PIPE (TYP. BOTH BARRIERS)



C LINE PROFILE



R LINE PROFILE



ELEVATION

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

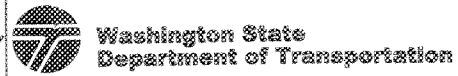
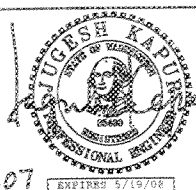
DATUM
N.A.V.D. OF 1985

P.C. GIRDERS (WF50G)
LOADING: HL-93

SR 522 JOB NO. SHEET BA1

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\LAYUT.WND	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP		10	WASH.			
Designed By	Ferluga, E	09/05	JOB NUMBER				
Checked By	Gallagher, P	11/05	07AC43				
Detailed By	Ferluga, E	09/05					
Bridge Projects Engr.							
Prelim. Plan By	Rochon, MJ	08/05					
Architect/Specialist	PDK/GAW/BK		DATE	REVISION	BY	APPD	

BRIDGE AND STRUCTURES OFFICE
10-9-07



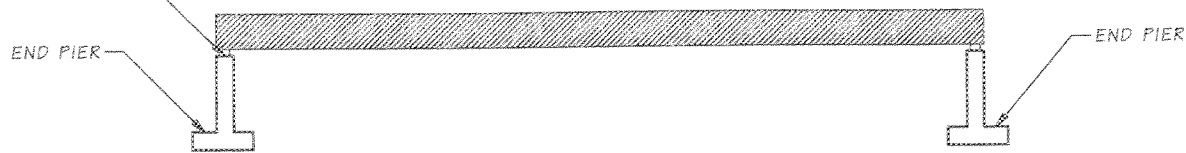
SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

LAYOUT

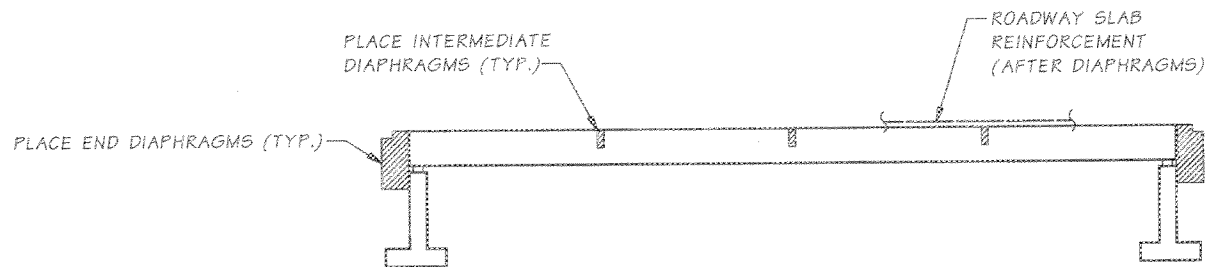
BRIDGE SHEET NO.	BA1
SHEET OF	356 OF 436
SHEETS	

PROJ. NO. XL2311 ~ NORTHWEST REGION ~ SR 522 ~ M.P. 10.18 TO 10.86 ~ UWB/CCC SOUTH CAMPUS ACCESS ~ NEW STRUCTURE C.S. 1761 ~

ELASTOMERIC BEARING
PAD TYP. @ END PIERS



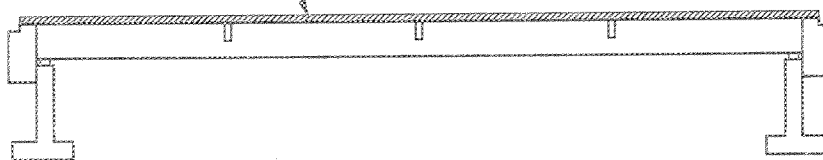
STAGE 1 ~ SET GIRDERS IN PLACE



STAGE 2 ~ PLACE DIAPHRAGMS AND
PLACE ROADWAY SLAB REINFORCEMENT

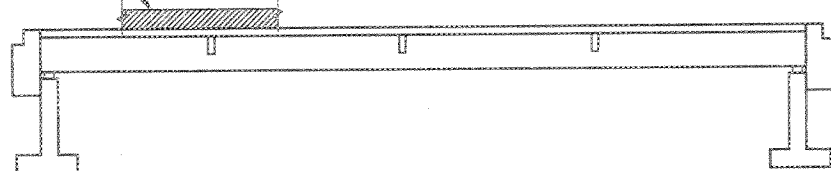
INTERMEDIATE AND END DIAPHRAGMS SHALL BE CAST AND CURED PRIOR TO PLACEMENT OF ROADWAY SLAB REINFORCEMENT

PLACE ROADWAY SLAB (24 HOURS MINIMUM AFTER PLACING THE DIAPHRAGM CONCRETE)



STAGE 3 ~ PLACE ROADWAY SLAB

BARRIER CONCRETE SHALL BE PLACED AFTER ALL OTHER CONCRETE HAS DEVELOPED SUFFICIENT STRENGTH AS OUTLINED IN THE STANDARD SPECIFICATIONS, AND AFTER FALSEWORK HAS BEEN REMOVED



STAGE 4 ~ PLACE TRAFFIC BARRIERS

CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION-ENGLISH DATED 2006 AND AMENDMENTS.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS THIRD EDITION DATED 2004 AND INTERIMS THROUGH 2006. SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED USING A PEAK BEDROCK ACCELERATION COEFFICIENT OF 0.30g AND SOIL PROFILE TYPE II.
3. THE CONCRETE IN THE ROADWAY DECK SHALL BE CLASS 4000D. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED UP TO THE FOLLOWING ELEVATIONS PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE.

PIER	BACKFILL ELEV.
1	46.5 ft.
2	47.0 ft.

5. UNLESS OTHERWISE SHOWN IN THE PLANS, THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE ROADWAY SLAB, 1" AT THE BOTTOM OF THE ROADWAY SLAB, 3" AT THE BOTTOM OF FOOTINGS, 2" AT THE TOP OF FOOTINGS AND 1½" AT ALL OTHER LOCATIONS.
6. THE CONDUIT AND JUNCTION BOXES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL PLANS.
7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
8. SPREAD FOOTINGS HAVE BEEN DESIGNED FOR BEARING AT THE FOLLOWING NOMINAL RESISTANCES FOR THE STRENGTH, EXTREME AND SERVICE LIMIT STATES:

PIER	STRENGTH AND EXTREME (qn)	SERVICE (qserv)
1	36.9 KSF	6.8 KSF
2	41.5 KSF	6.3 KSF

LEGEND

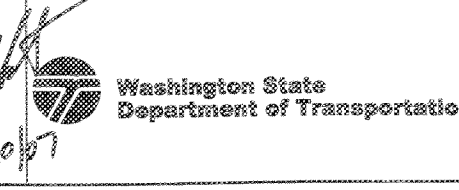
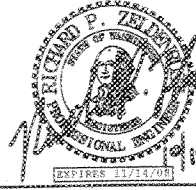
- ⊙ B IDENTIFIES SECTION, VIEW OR DETAIL
- ⊙ BA15 TAKEN OR SHOWN ON BRIDGE SHEET BA15
- ⊙ B TAKEN OR SHOWN ON THE SAME SHEET

SR 522 JOB NO. SHEET BA2

Bridge Design Engr.	Stoddard, R8	M:\Z-Team\522 UWIB-CCC\NEW BRIDGE\window files\CONSTR. SEQ GN.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeidenrust, RP			10	WASH.			
Designed By	Ferluga, E	12/05		JOB NUMBER				
Checked By	Gallagher, P	02/06		07A043				
Detailed By	Andreotti, L.M.	12/05						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
	DATE	REVISION	BY	APP'D				

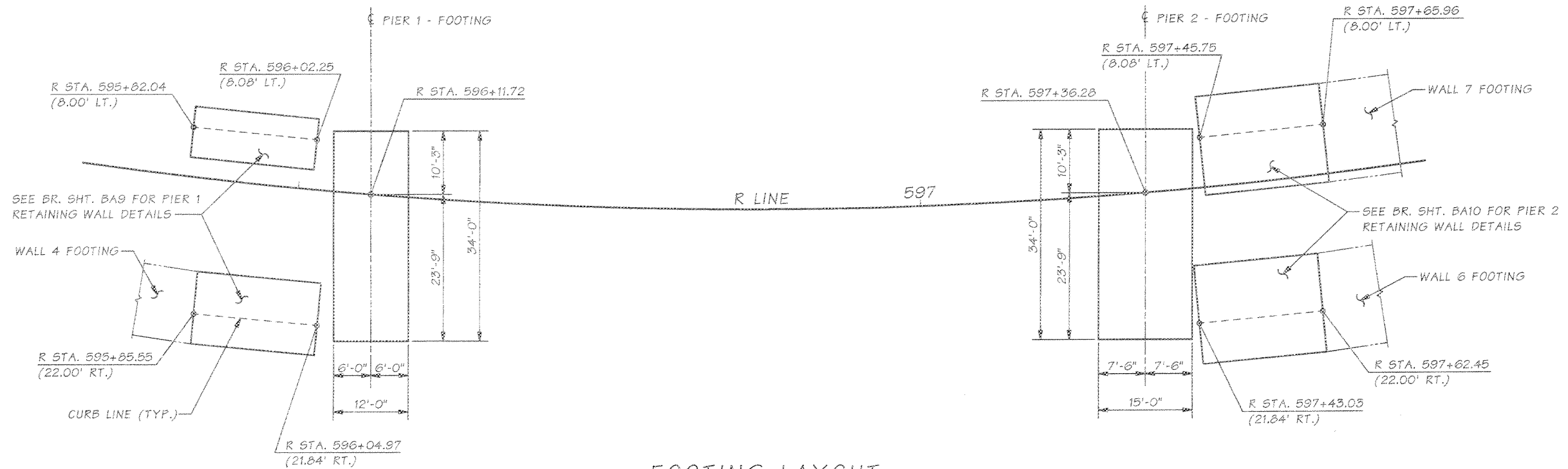


BRIDGE AND STRUCTURES OFFICE



SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
CONSTRUCTION SEQUENCE AND
GENERAL NOTES

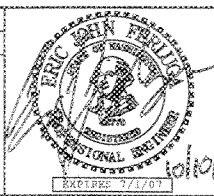
BRIDGE SHEET NO.
BA2
SHEET
357
OF
436
SHEETS



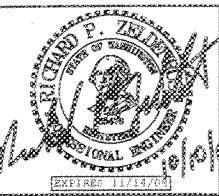
FOOTING LAYOUT
BEARING OF ALL PIERS IS : N 9°32'40" E

SR 522 JOB NO. SHEET BA3

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\FOOTING LAYOUT.WND	
Supervisor	Zeldenrust, RP	REGION NO.	STATE
Designed By	Ferluga, E 12/05	10	WASH.
Checked By	Gallagher, P 02/06	JOB NUMBER 07A043	
Detailed By	Andreotti, L.M. 12/05	FED. AID PROJ. NO.	
Bridge Projects Engr.		SHEET NO.	TOTAL SHEETS
Prelim. Plan By			
Architect/Specialist	DATE	REVISION	BY APPD



BRIDGE AND STRUCTURES OFFICE

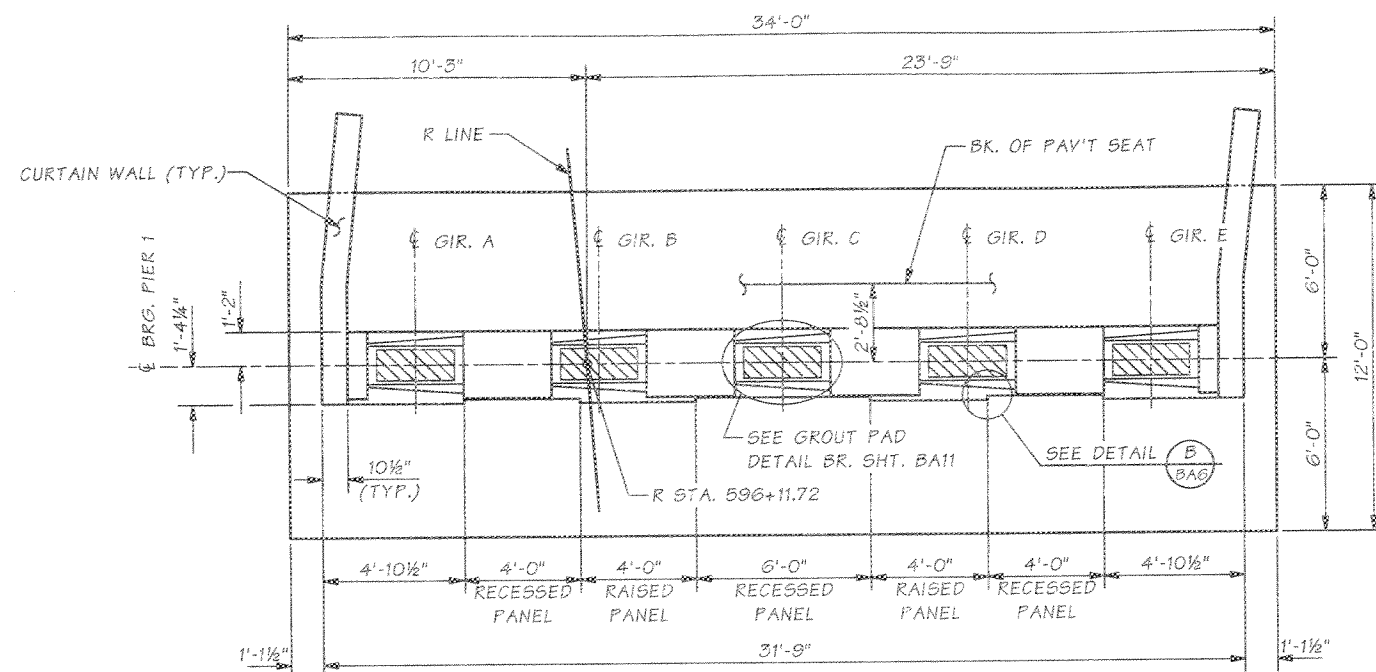


Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

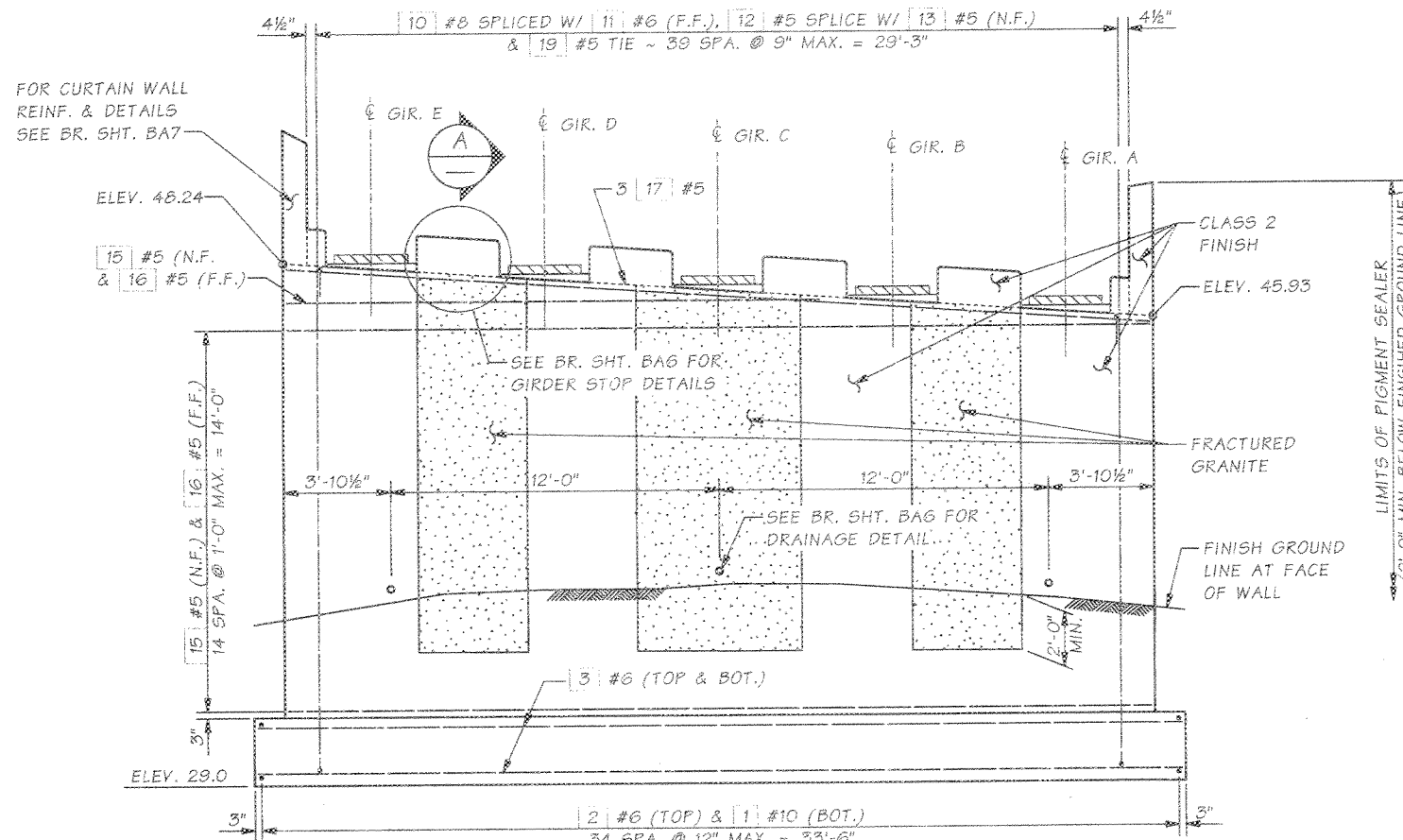
BRIDGE SHEET NO.	BA3
SHEET OF	358 OF 436
SHEETS	

FOOTING LAYOUT



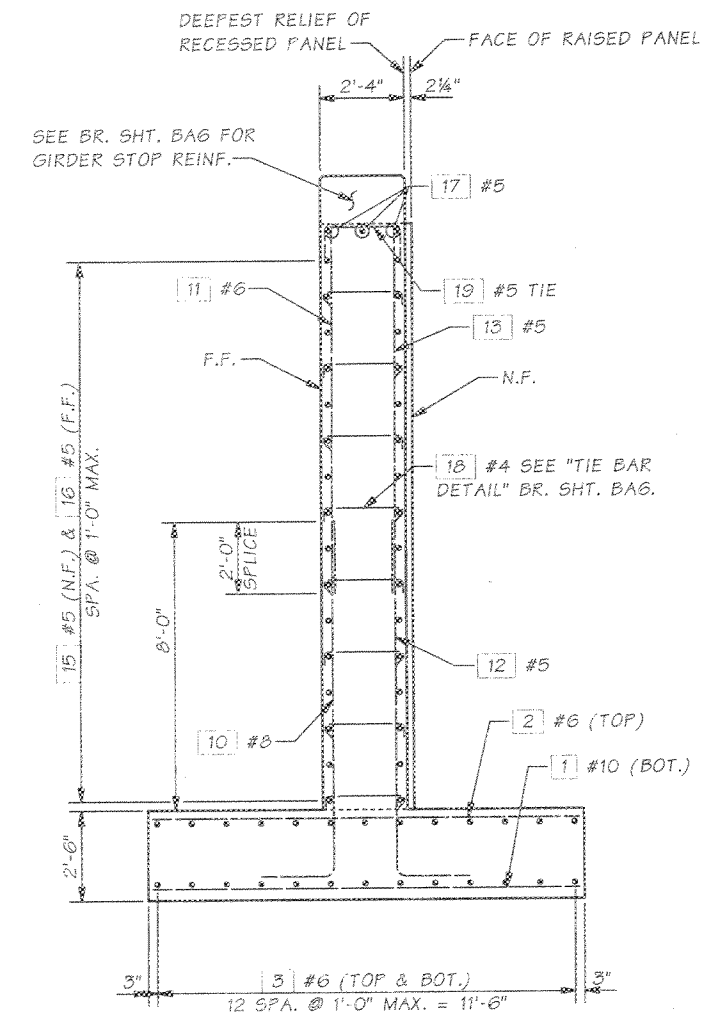
PLAN

TOP OF GROUT PAD ELEV.	
GIRDER	ELEVATION
A	46.37
B	46.83
C	47.30
D	47.76
E	48.22



ELEVATION

LOOKING BACK ON STATION.
CURTAIN WALL REINFORCING NOT SHOWN FOR CLARITY.

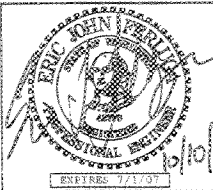


SECTION A

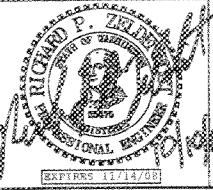
NOTE:
N.F. = NEAR FACE
F.F. = FAR FACE

SR 522 JOB NO. SHEET BA4

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\PIER 1.WND	
Supervisor	Zeldenrust, RP	REGION	STATE
Designed By	Ferluga, E 12/05	10	WASH.
Checked By	Gallagher, P 01/06	JOB NUMBER 07A043	
Detailed By	Andreotti, L.M. 12/05	DATE	REVISION
Bridge Projects Engr.		BY	APPD
Prelim. Plan By			
Architect/Specialist			



BRIDGE AND STRUCTURES OFFICE



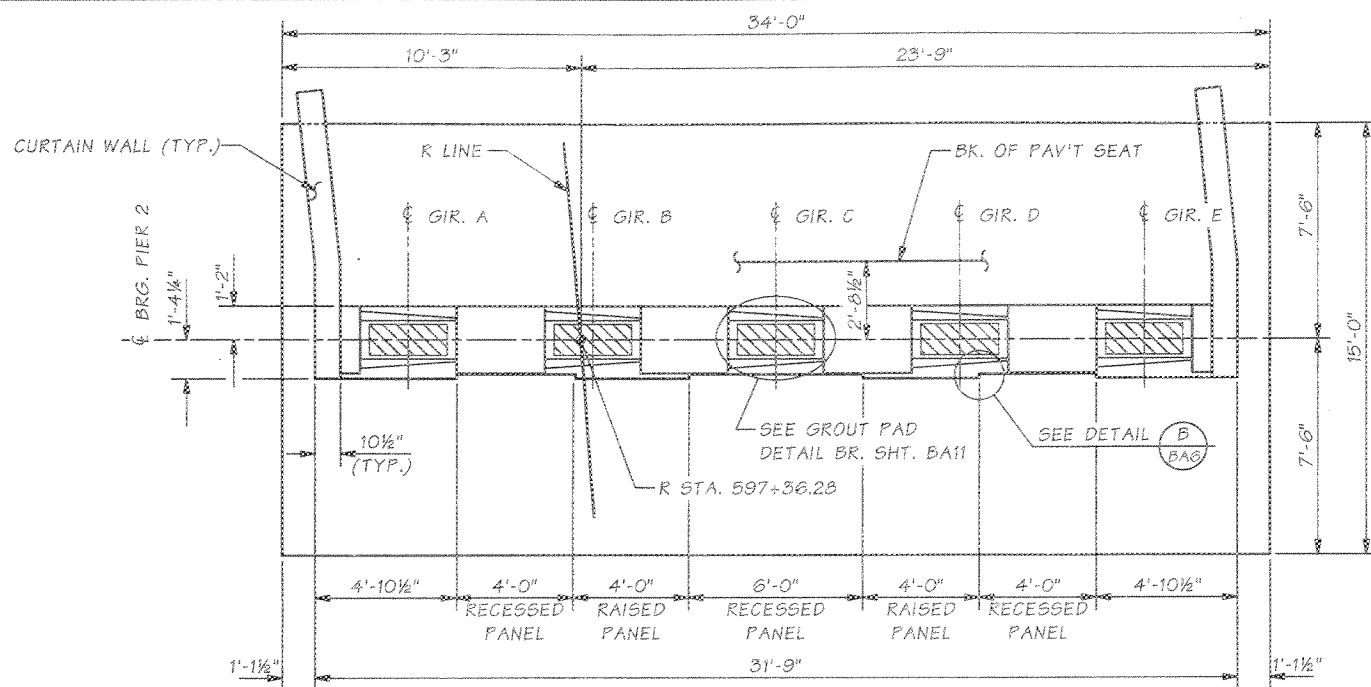
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
PIER 1
PLAN & ELEVATION

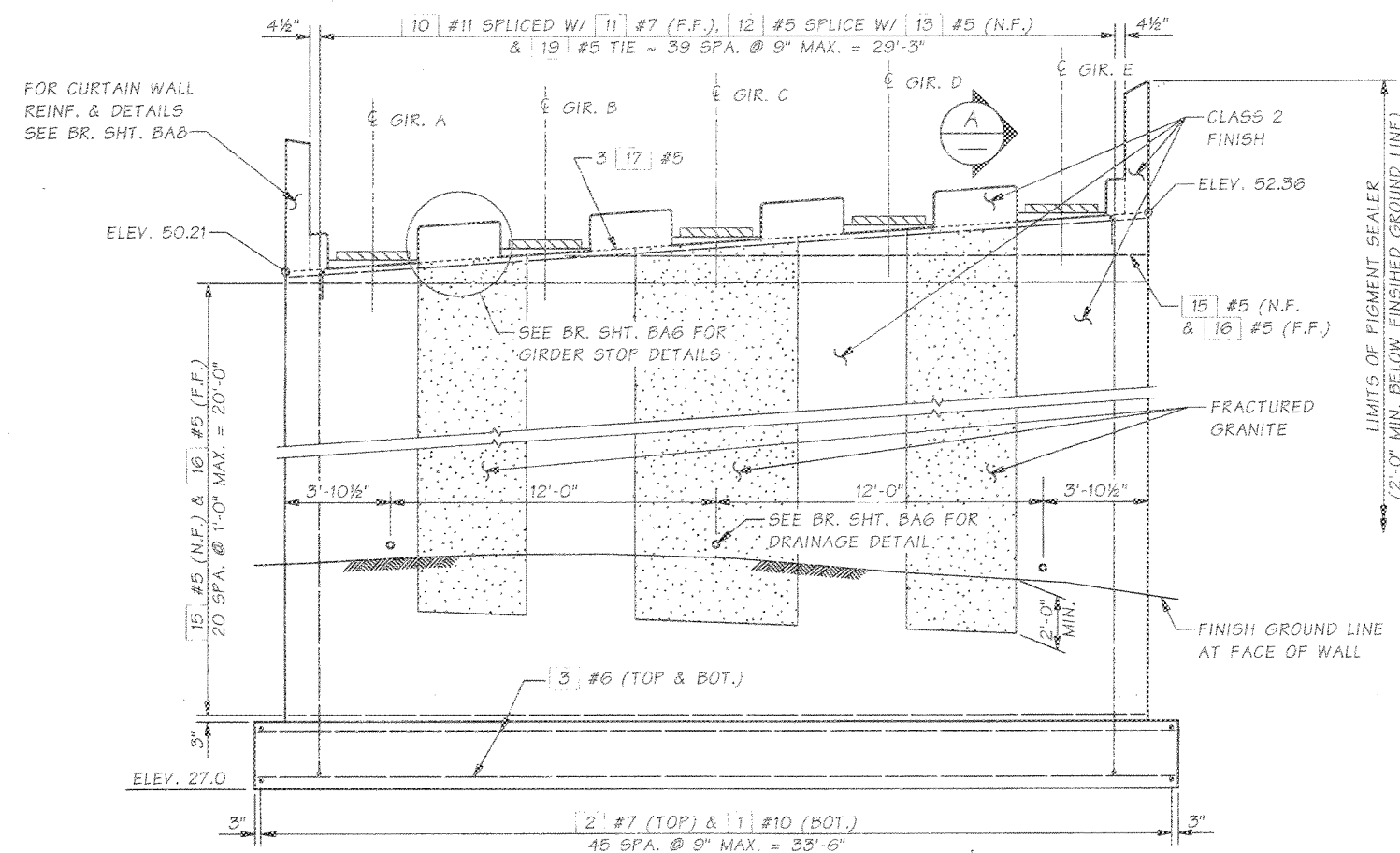
BRIDGE SHEET NO. BA4
SHEET 359 OF 436 SHEETS

TOP OF GROUT PAD ELEV.

GIRDER	ELEVATION
A	50.64
B	51.07
C	51.49
D	51.92
E	52.35

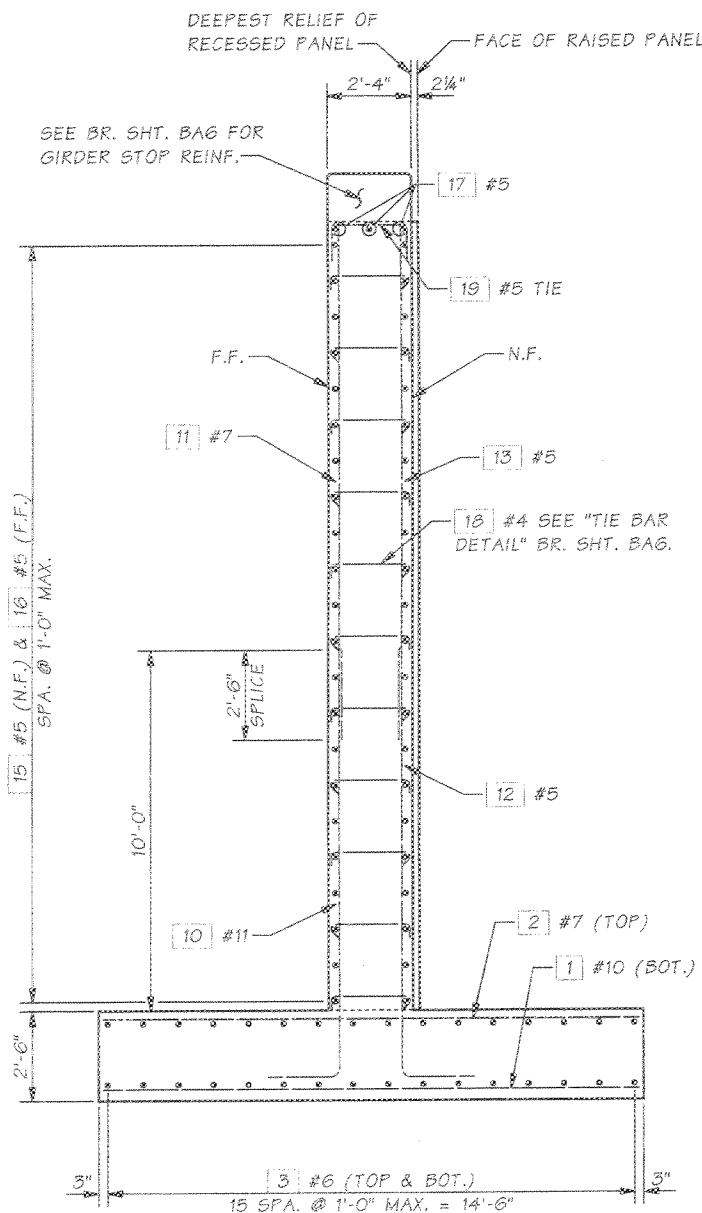


PLAN



ELEVATION

CURTAIN WALL REINFORCING NOT SHOWN FOR CLARITY.



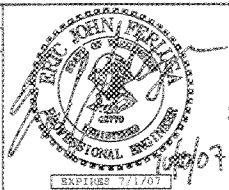
SECTION A

NOTE:
N.F. = NEAR FACE
F.F. = FAR FACE

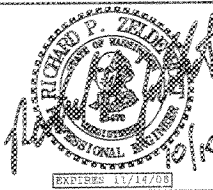
SR 522 JOB NO. SHEET BA5

Bridge Design Engr.	Stoddard, R8	M:\Z-Team\522 UWB-CCC\NEW BRIDGE>window files\PIER 2.WND
Supervisor	Zeldennust, RP	
Designed By	Ferluga, E	12/05
Checked By	Gallagher, P	01/06
Detailed By	Andreotti, L.M.	12/05
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER		07A045		
DATE	REVISION	BY	APP'D	



BRIDGE AND STRUCTURES OFFICE

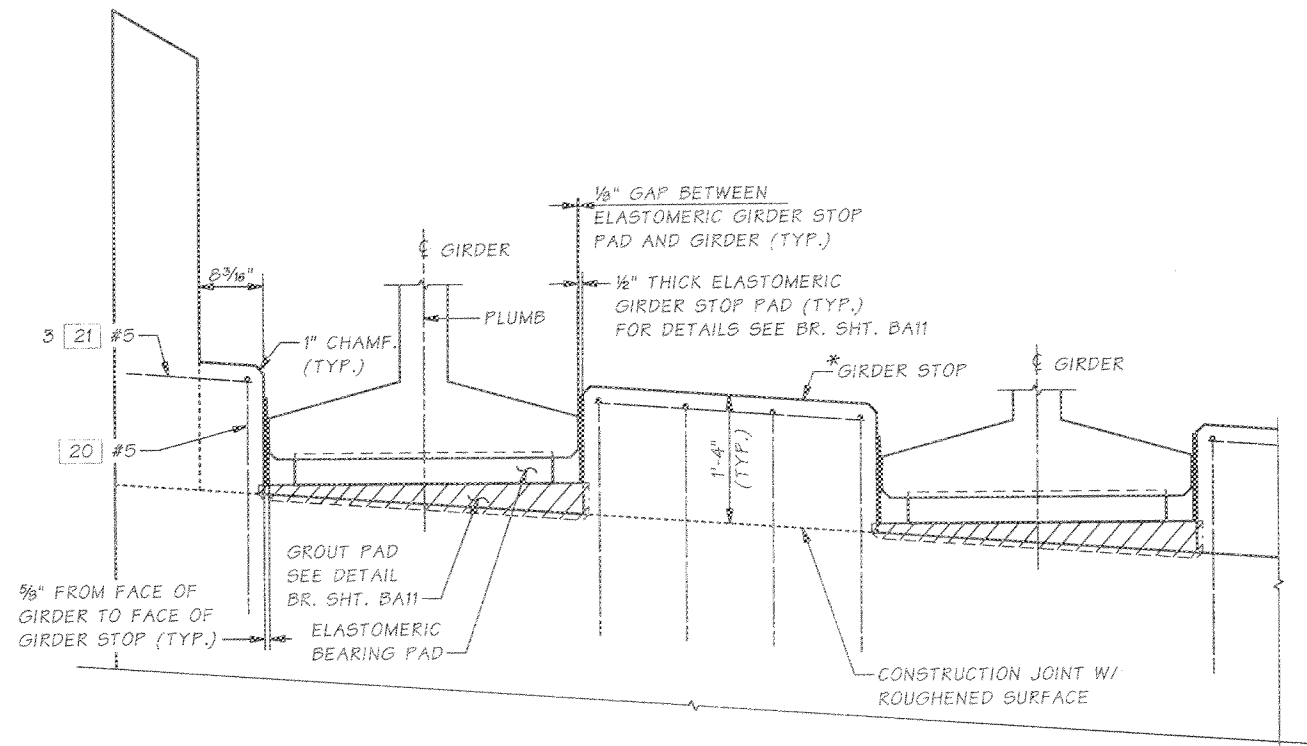


Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

PIER 2
PLAN & ELEVATION

BRIDGE SHEET NO.	BA5
SHEET	360
OF	436
SHEETS	

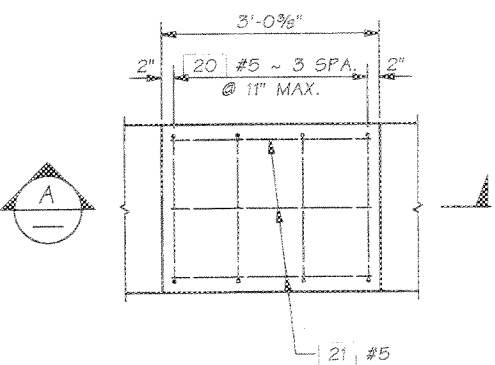


GIRDER STOP ELEVATION

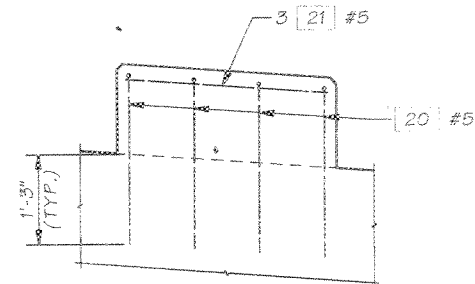
* FOR TYPICAL GIRDER STOP REINFORCING SEE GIRDER STOP DETAIL THIS SHEET.

NOTE:

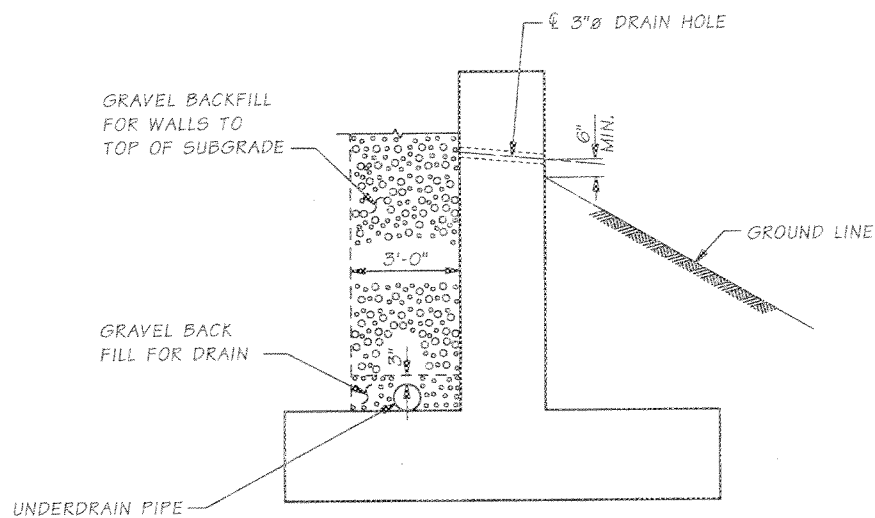
1. GIRDER STOPS SHALL BE CONSTRUCTED AFTER PLACEMENT OF PRESTRESSED GIRDERS.
2. ELASTOMERIC GIRDER STOP PADS SHALL BE PLACED AFTER CONSTRUCTING THE GIRDER STOPS. THE PADS SHALL BE ATTACHED TO GIRDER STOPS WITH APPROVED EPOXY MORTAR.



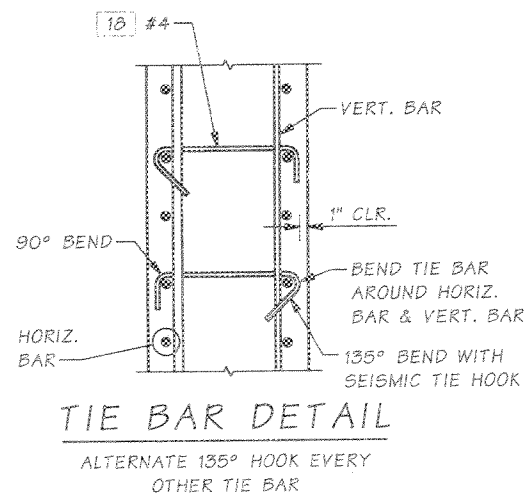
GIRDER STOP DETAIL



SECTION A

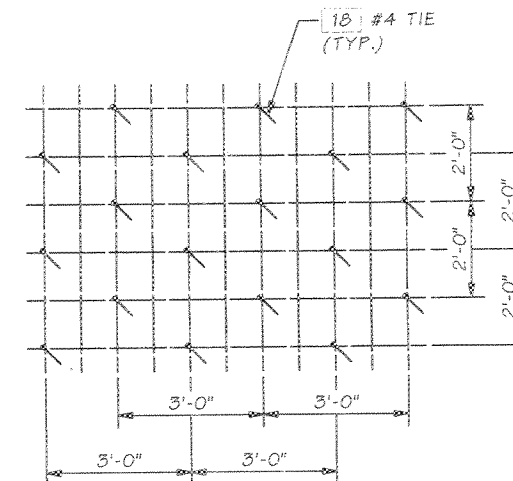


DRAINAGE DETAIL

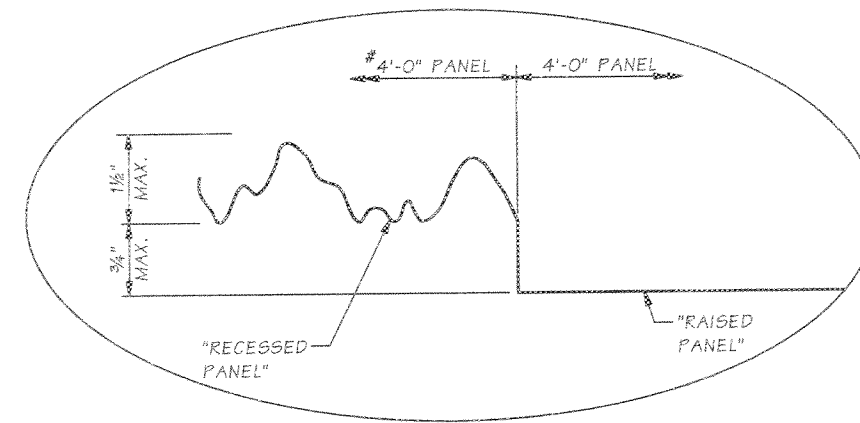


TIE BAR DETAIL

ALTERNATE 135° HOOK EVERY OTHER TIE BAR



TIE SPACING DETAIL

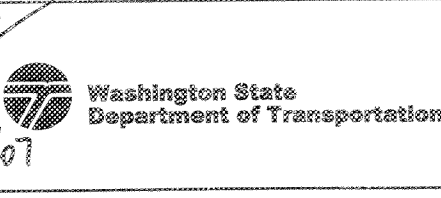
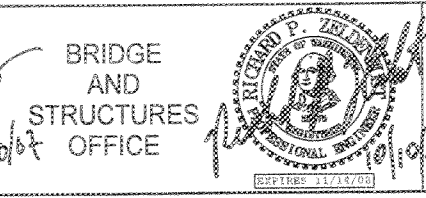


DETAIL B

CENTER PANEL ON ABUTMENT IS 6'-0"

SR 522 JOB NO. SHEET BAG

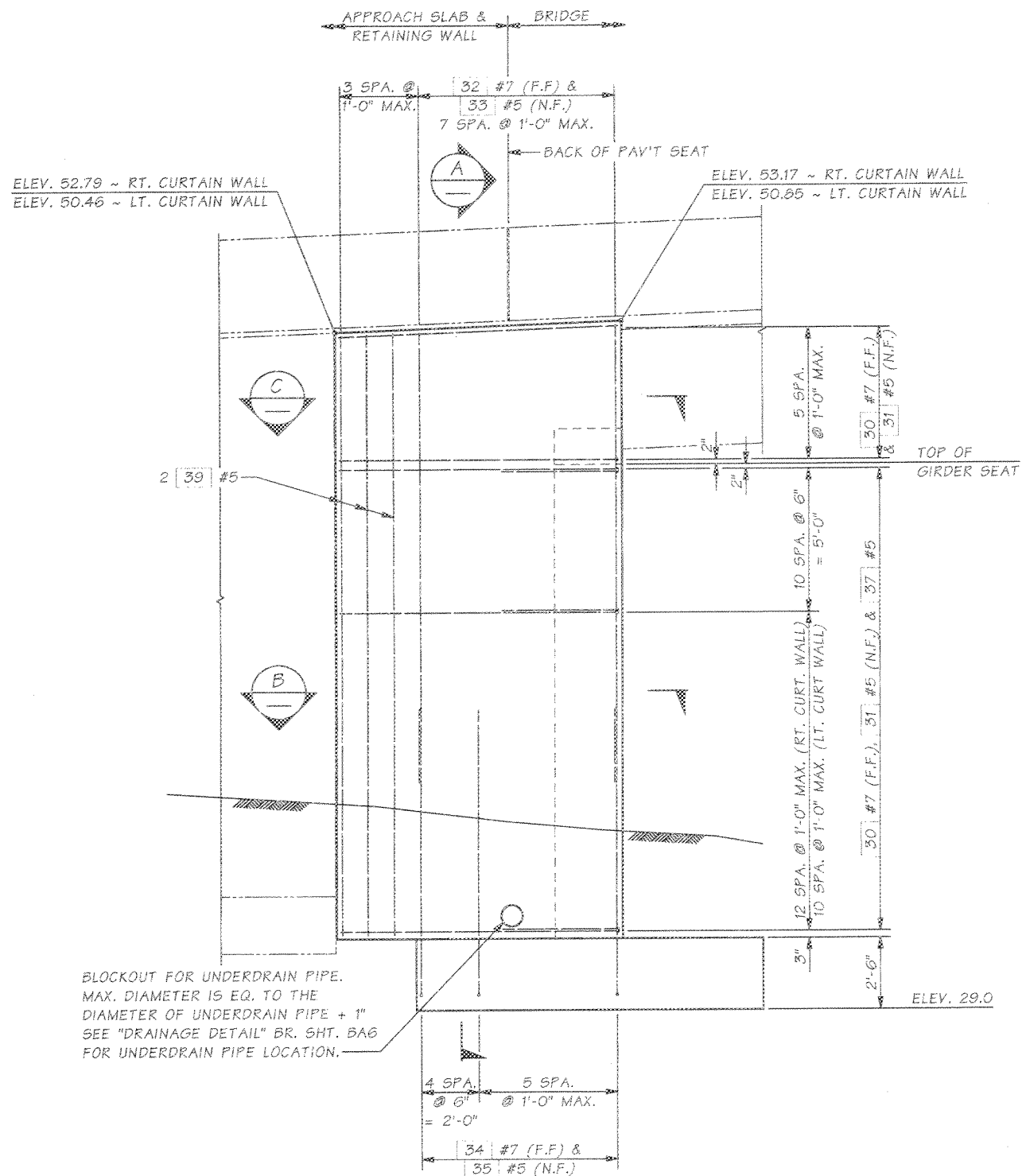
Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UW8-CCC\NEW BRIDGE\window files\PIER DET.WND	PERIOD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP		10	WASH.			
Designed By	Ferluga, E	12/05	JOB NUMBER 07A043				
Checked By	Gallagher, P	01/06					
Detailed By	Ferluga, E	12/05					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist			DATE	REVISION	BY	APPD	



SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
PIER 1 & 2
DETAILS

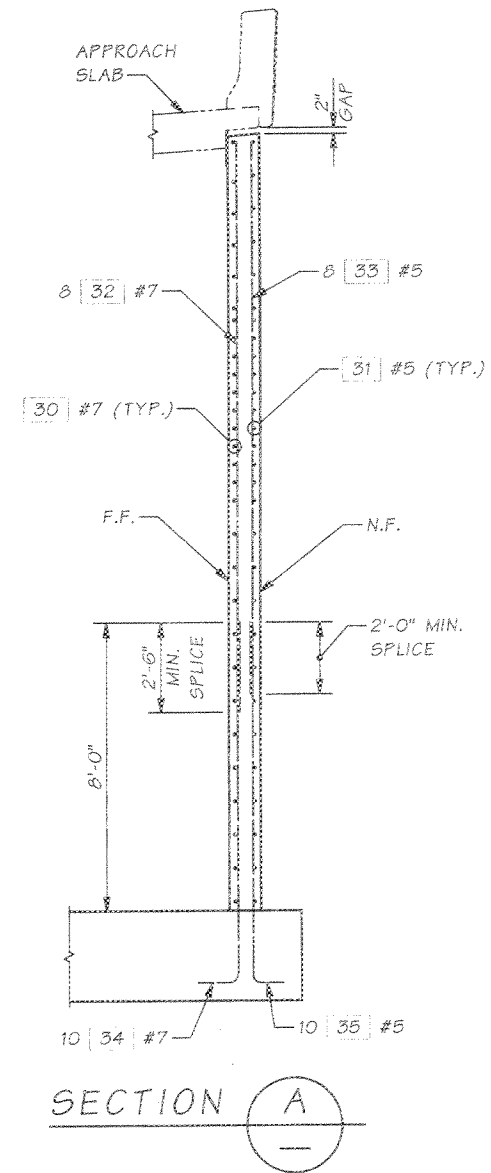
BRIDGE SHEET NO.
BAG
SHEET
361
OF
436
35215

SR 522 JOB NO. SHEET BAZ

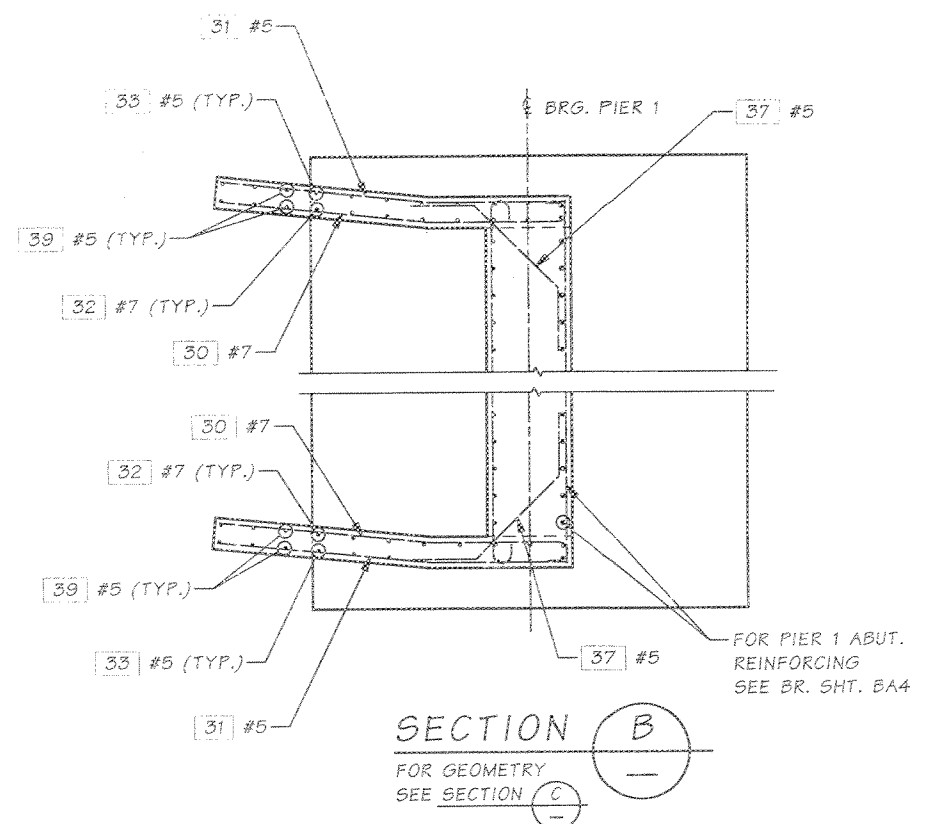


PIER 1 CURTAIN WALL ~ ELEVATION

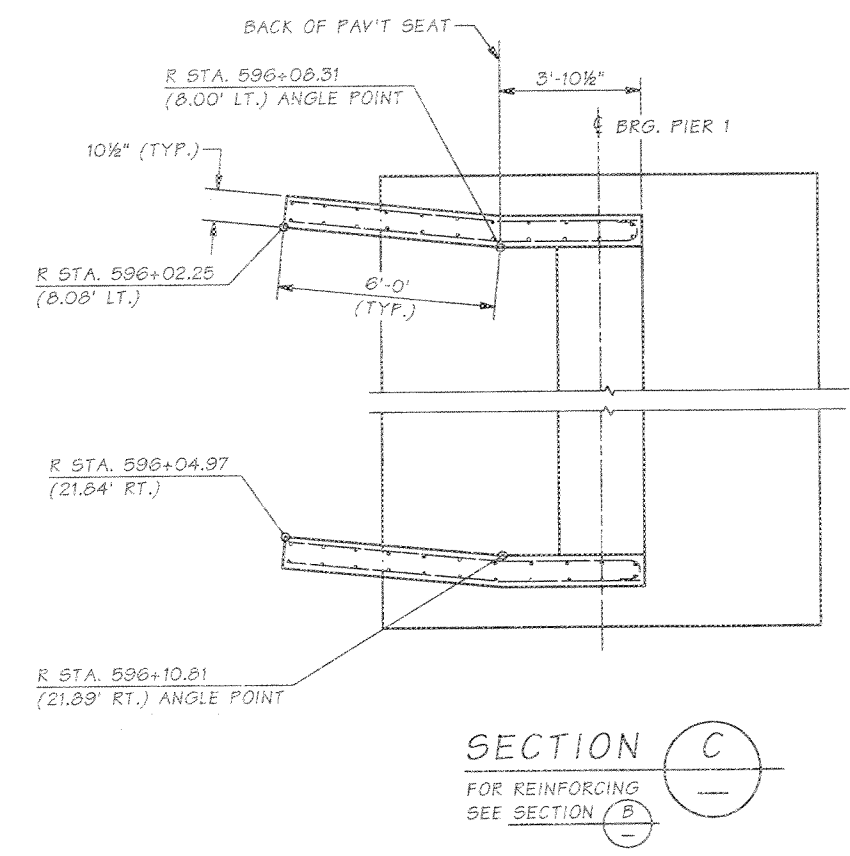
ELEVATIONS TAKEN AT FRONT FACE (N.F.) OF WALL
RIGHT CURTAIN WALL SHOWN, LEFT CURTAIN WALL SIMILAR



SECTION A



SECTION B
FOR GEOMETRY
SEE SECTION C

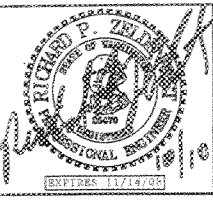


SECTION C
FOR REINFORCING
SEE SECTION B

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UMB-CCC\NEW BRIDGE\window files\CURT WALL 1.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	12/05						
Checked By	Gallagher, P	02/06						
Detailed By	Ferluga, E	12/05						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
DATE	REVISION	BY	APPD					



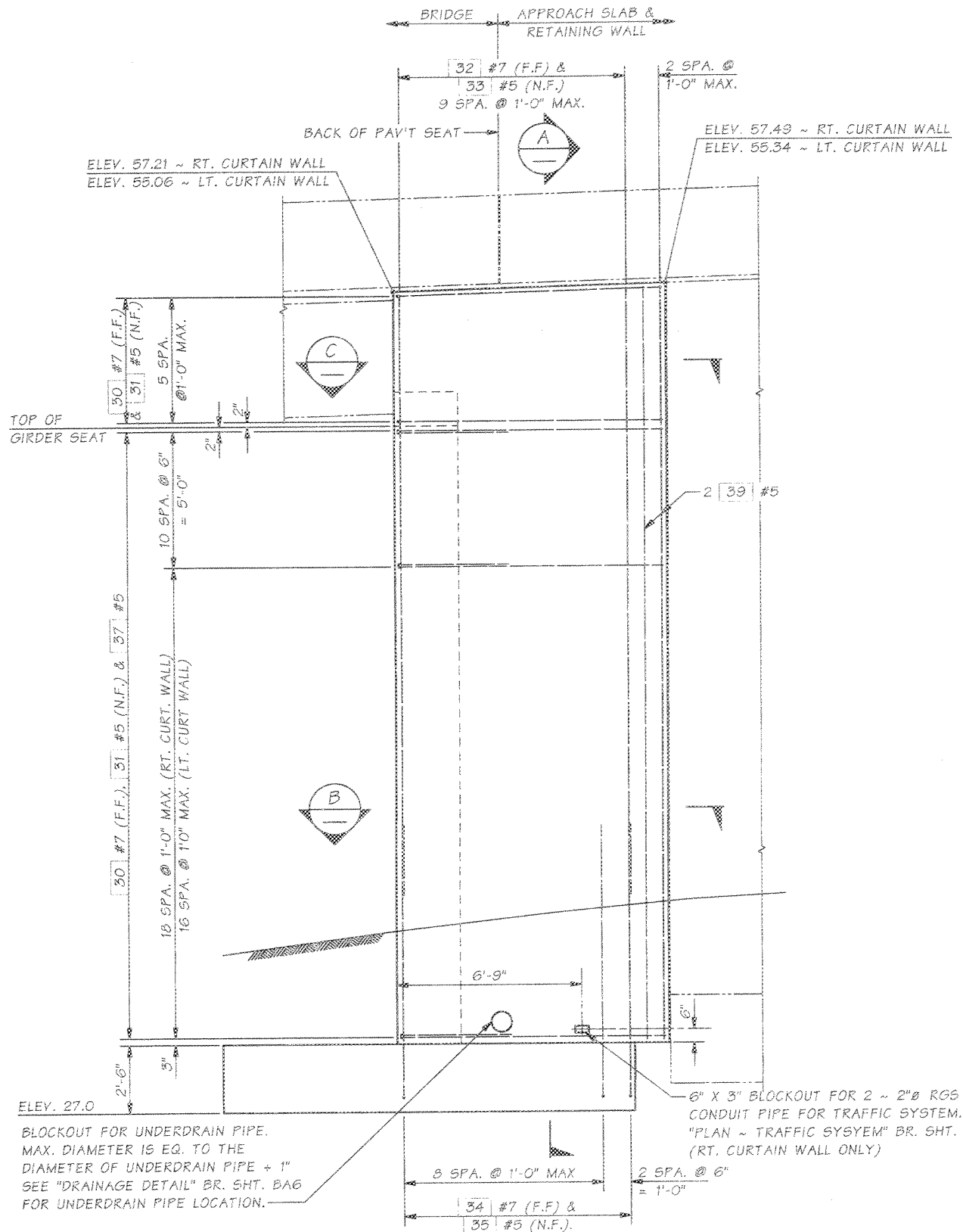
BRIDGE AND STRUCTURES OFFICE



Washington State Department of Transportation

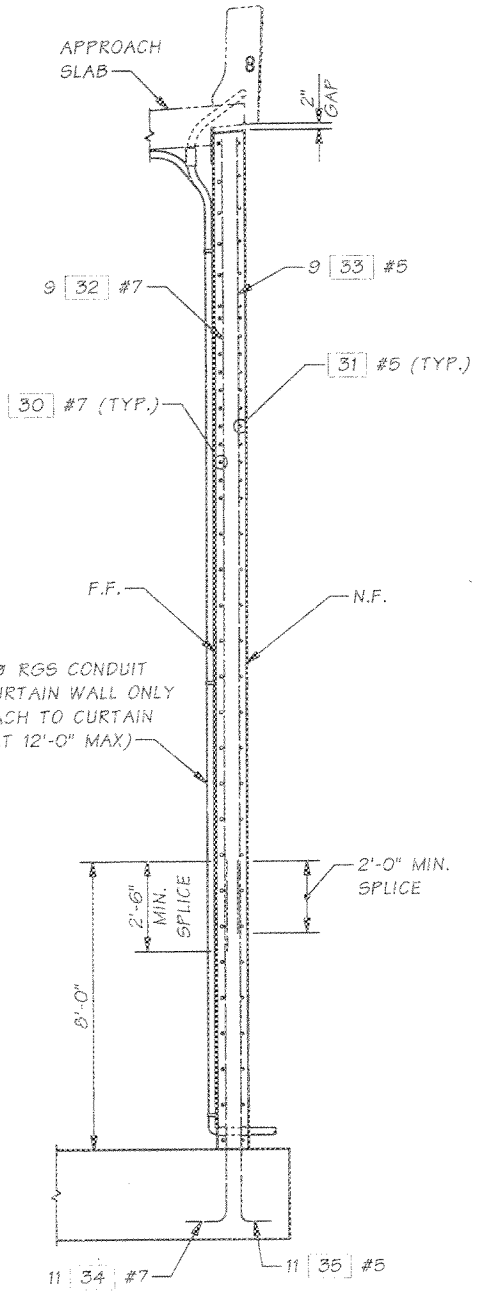
SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
PIER 1
CURTAIN WALL DETAILS

BRIDGE SHEET NO. BA7
SHEET 362 OF 436 SHEETS

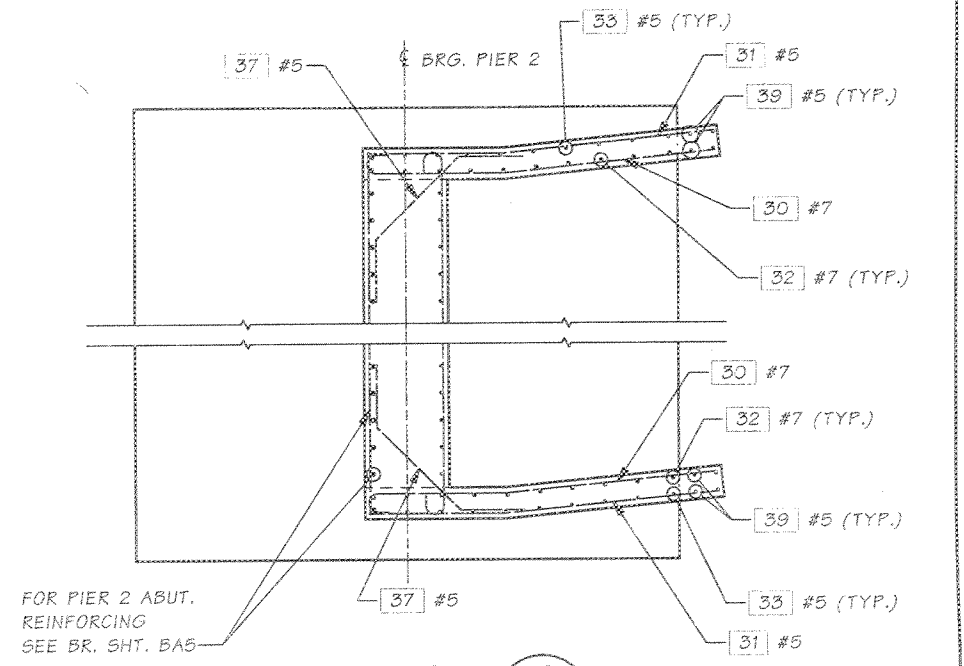


PIER 2 CURTAIN WALL ~ ELEVATION

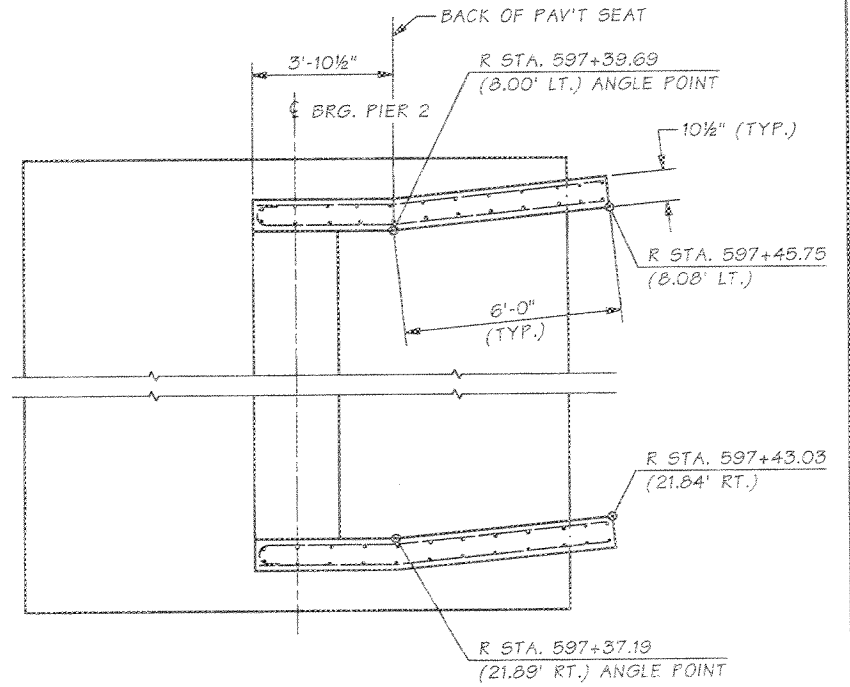
ELEVATIONS TAKEN AT FRONT FACE (N.F.) OF WALL
RIGHT CURTAIN WALL SHOWN, LEFT CURTAIN WALL SIMILAR



SECTION A



SECTION B
FOR GEOMETRY
SEE SECTION C



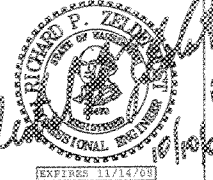
SECTION C
FOR REINFORCING
SEE SECTION B

SHEET BA8
JOB NO. SR 522

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\CURT WALL 2.WND	
Supervisor	Zeldenrust, RP	REGISTR. NO.	STATE
Designed By	Ferluga, E 12/05	10	WASH.
Checked By	Gallagher, P 02/06	JOB NUMBER 07A045	
Detailled By	Ferluga, E 12/05	DATE	
Bridge Projects Engr.		REVISION	BY APP'D
Prelim. Plan By			
Architect/Specialist			



BRIDGE AND STRUCTURES OFFICE




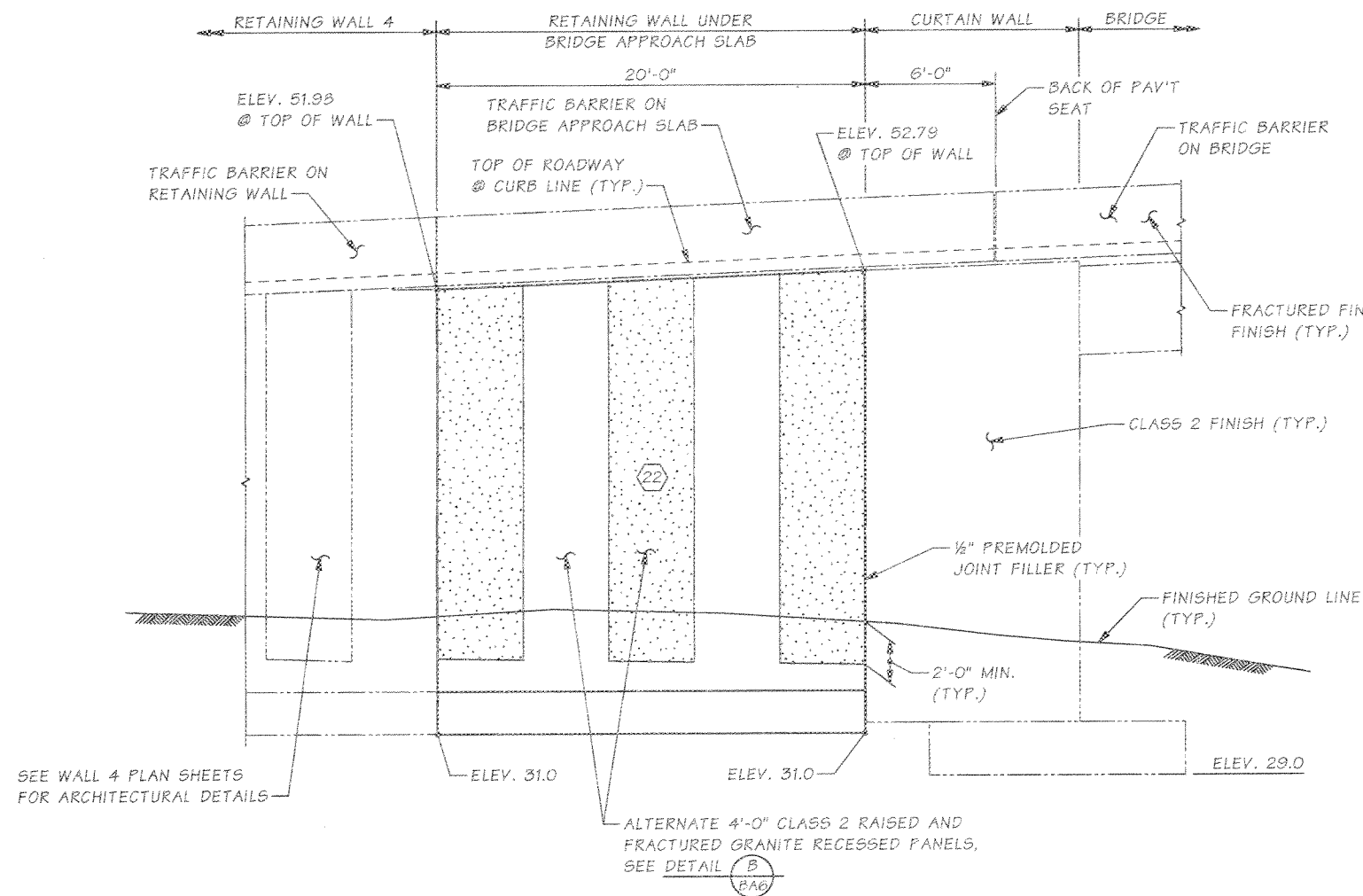
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
PIER 2
CURTAIN WALL DETAILS

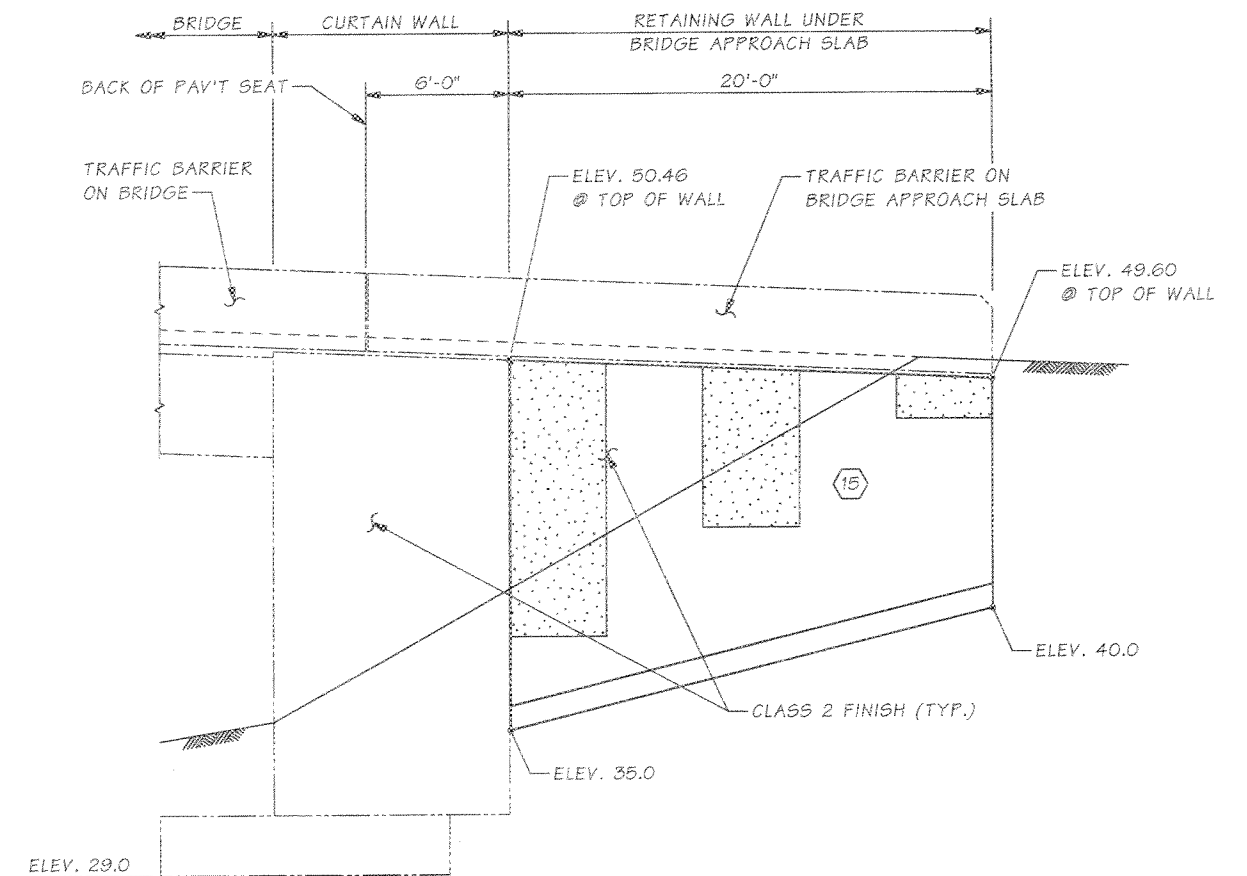
BRIDGE SHEET NO. BA8
SHEET 363 OF 436 SHEETS

NOTES:

1. SEE STD. PLAN D-1a FOR TYPE 1 RETAINING WALL DETAILS.
2. SEE STD. PLAN D-4 "ALTERNATE DETAIL" FOR DRAINAGE DETAIL. GRAVEL BACKFILL FOR DRAINS, GRAVEL BACKFILL FOR WALLS & UNDERDRAIN PIPE ARE NOT INCLUDED IN BRIDGE QUANTITIES.
3.  INDICATES DESIGN HEIGHT "H" TO BE USED IN STD. PLAN D-1a.
4. ELEVATIONS ARE TAKEN AT THE FRONT FACE OF WALLS.



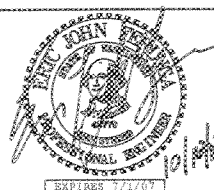
PIER 1 - RIGHT RETAINING WALL



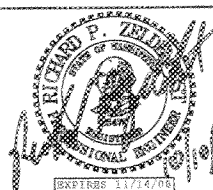
PIER 1 - LEFT RETAINING WALL

SR 522 SHEET BA9 JOB NO.

Bridge Design Engr.	stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\RETAIN WALL 1.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	12/05						
Checked By	Gallagher, P	02/06						
Detailed By	Ferluga, E	12/05						
Bridge Projects Engr.				JOB NUMBER	G7A043			
Prelim. Plan By				DATE	REVISION	BY	APP'D	
Architect/Specialist								



BRIDGE AND STRUCTURES OFFICE



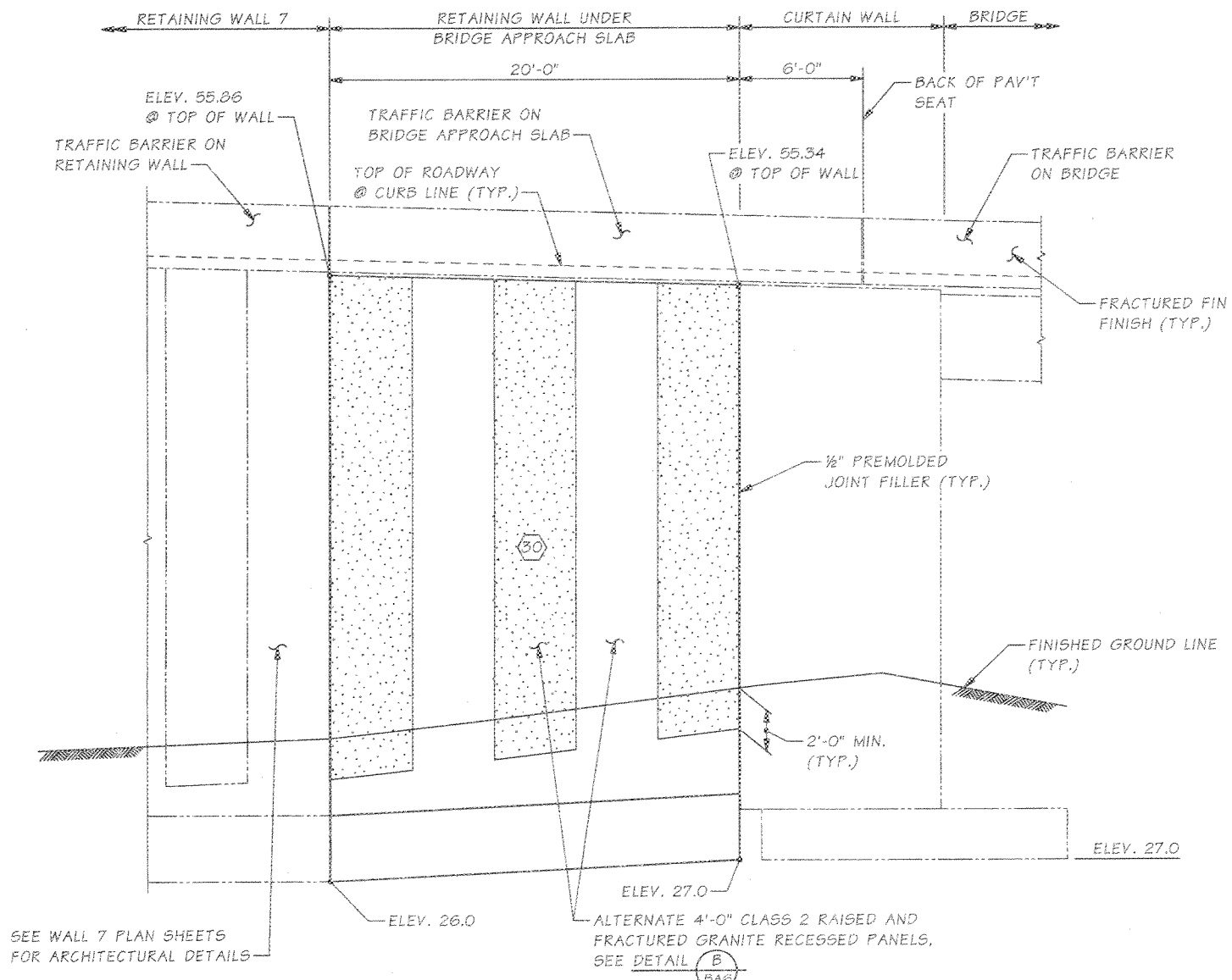
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
PIER 1
RETAINING WALL ELEVATIONS

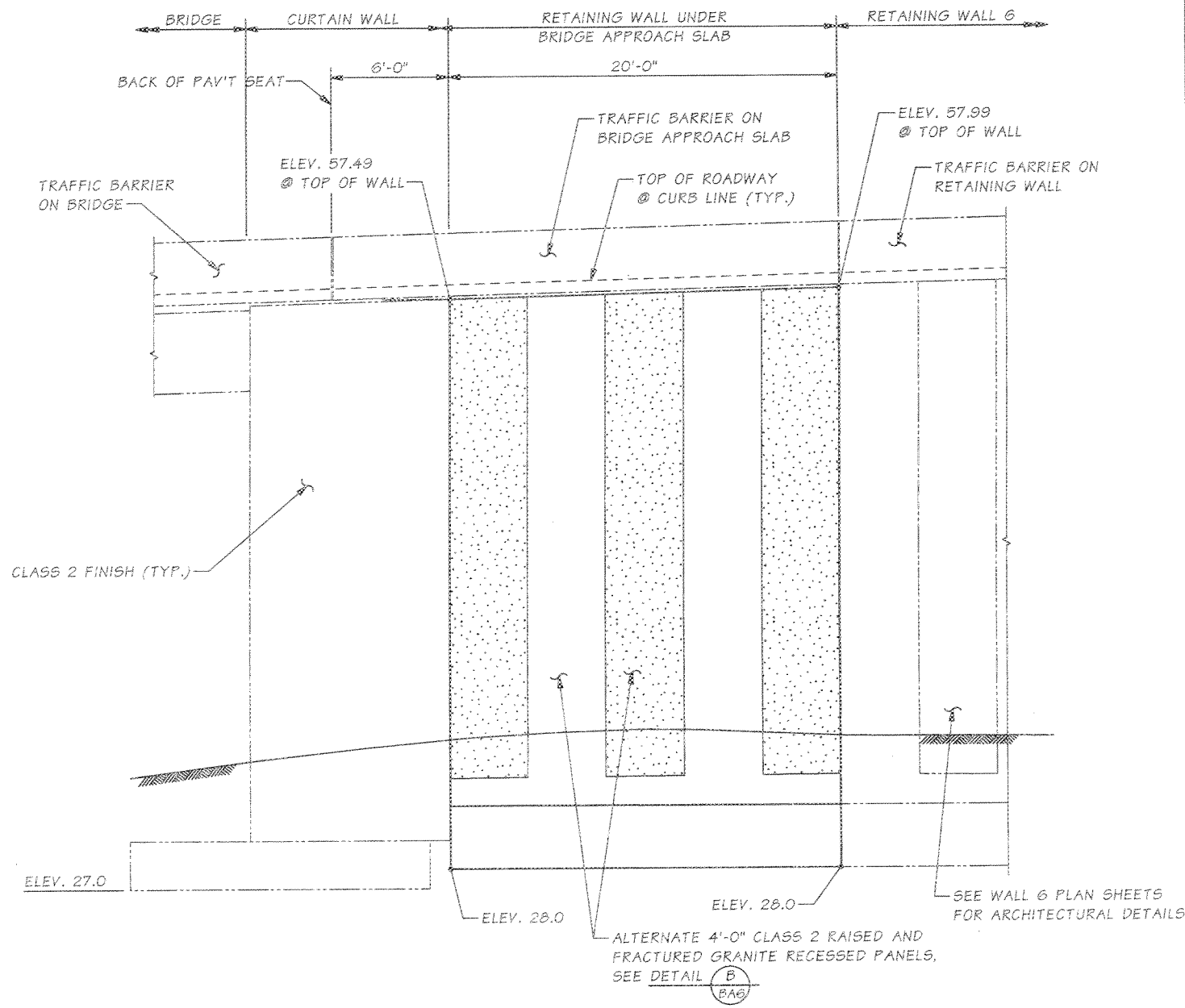
BRIDGE SHEET NO. BA9
SHEET 364 OF 436 SHEETS

NOTES:

1. SEE STD. PLAN D-1a FOR TYPE 1 RETAINING WALL DETAILS.
2. SEE STD. PLAN D-4 "ALTERNATE DETAIL" FOR DRAINAGE DETAIL. GRAVEL BACKFILL FOR DRAINS, GRAVEL BACKFILL FOR WALLS & UNDERDRAIN PIPE ARE NOT INCLUDED IN BRIDGE QUANTITIES.
3. \square INDICATES DESIGN HEIGHT "H" TO BE USED IN STD. PLAN D-1a.
4. ELEVATIONS ARE TAKEN AT THE FRONT FACE OF WALLS.



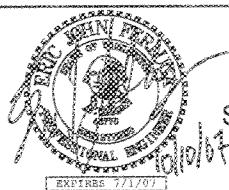
PIER 2 - LEFT RETAINING WALL



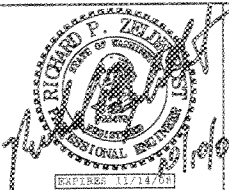
PIER 2 - RIGHT RETAINING WALL

SR 522 JOB NO. SHEET BA10

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UwB-CCC\NEW BRIDGE\window files\RETAIN WALL 2.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	01/06						
Checked By	Gallagher, P	02/06						
Detailed By	Ferluga, E	01/06						
Bridge Projects Engr.				JOB NUMBER	07A043			
Preln. Plan By				DATE	REVISION	BY	APPD	
Architect/Specialist								



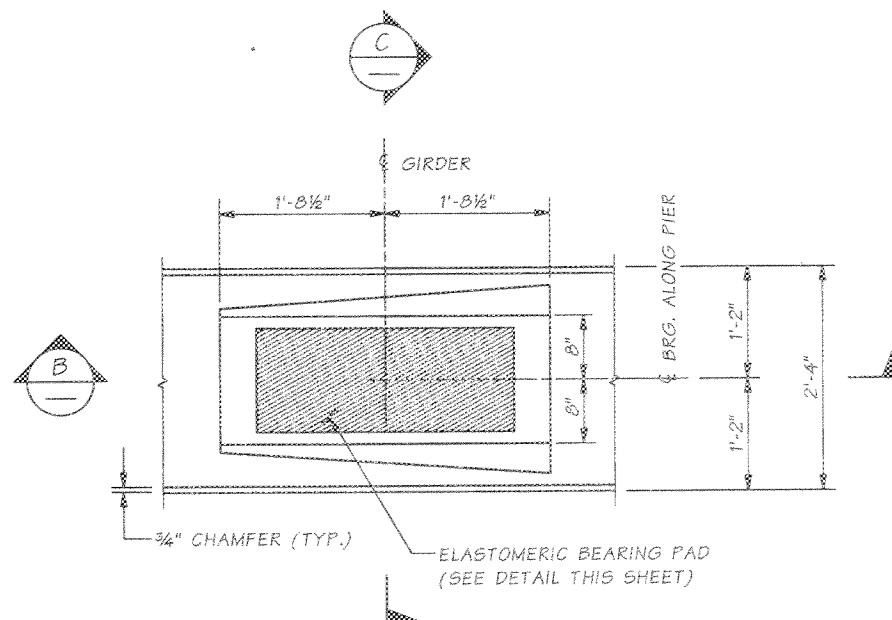
BRIDGE AND STRUCTURES OFFICE



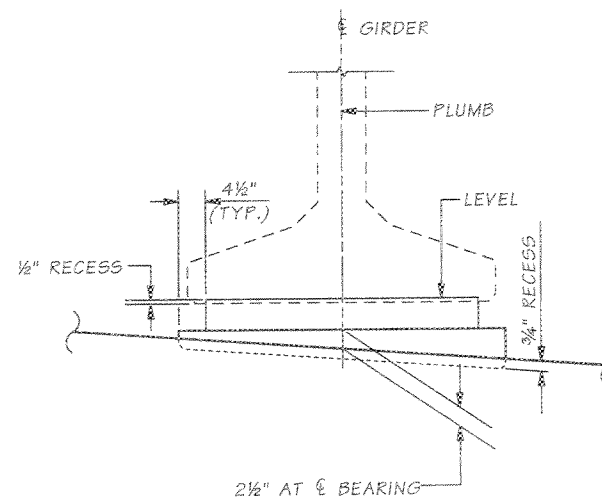
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS
 SOUTH CAMPUS WAY OVERCROSSING
PIER 2
RETAINING WALL ELEVATIONS

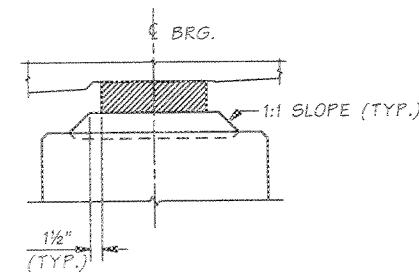
BRIDGE SHEET NO. BA10
 SHEET 365 OF 436 SHEETS



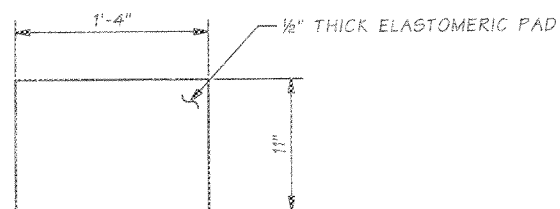
GROUT PAD DETAIL



SECTION B

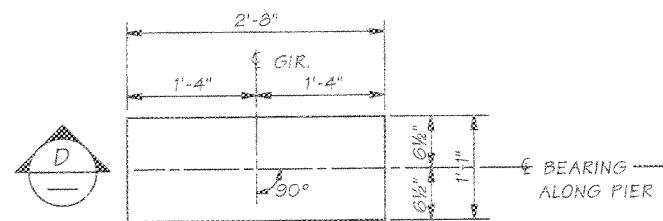


SECTION C



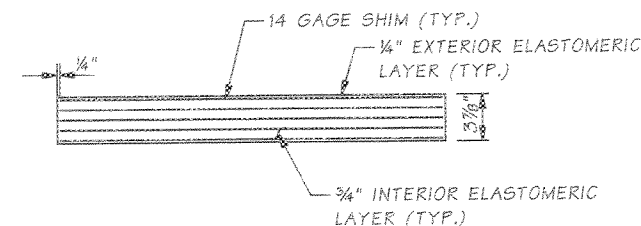
ELASTOMERIC GIRDER STOP PAD

DUROMETER HARDNESS = 60
(20 REQUIRED)



ELASTOMERIC BEARING PAD

LAMINATED ELASTOMERIC BEARING PAD 3 3/8" THICK (5 SHIMS)
(10 REQUIRED)



SECTION D

BEARING DESIGN TABLE	
SERVICE - I LIMIT STATE	
DEAD LOAD REACTION	142 KIPS
LIVE LOAD REACTION (W/O IMPACT)	62 KIPS
UNLOADED HEIGHT	3.875 IN.
LOADED HEIGHT (DL)	3.838 IN.
DUROMETER HARDNESS	60

SR 522 JOB NO. SHEET B-11

Bridge Design Engr.	Stoddard, RB	M:\2-Team\522 UWB-CCC\NEW BRIDGE\window files\BEARING.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	11/05						
Checked By	Gallagher, P	02/06						
Detailled By	Andreotti, L.M.	11/05						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
	DATE	REVISION	BY	APP'D				



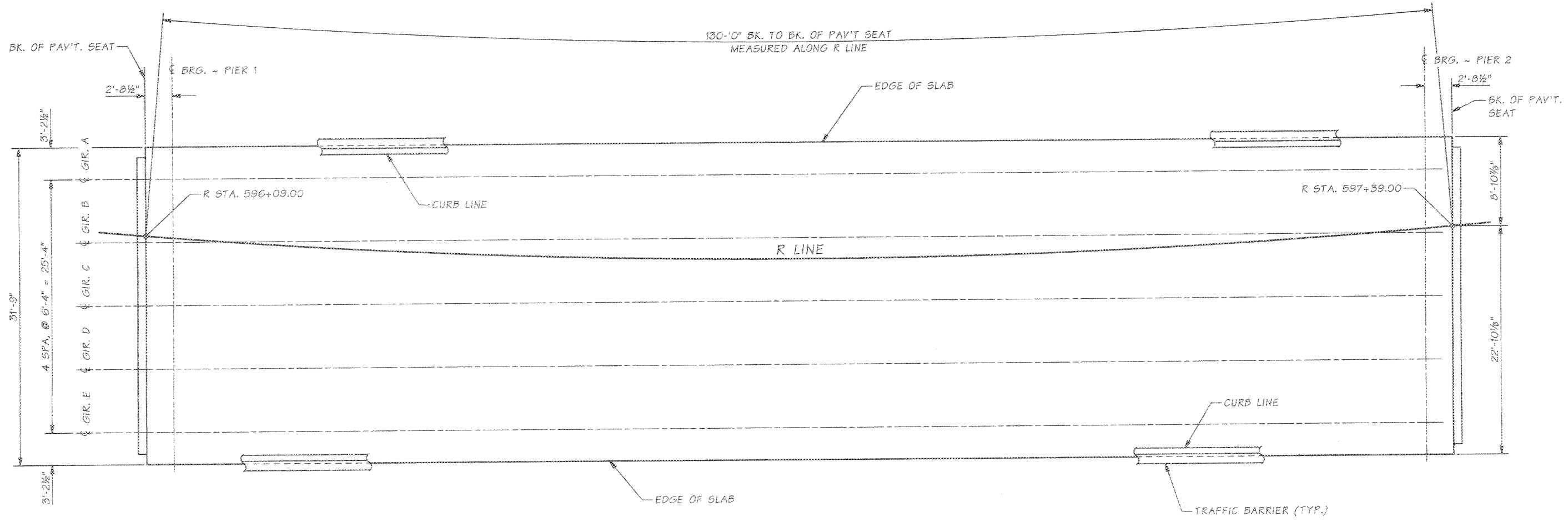
BRIDGE AND STRUCTURES OFFICE



Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
WF50G
BEARING DETAILS

BRIDGE SHEET NO. BA11
SHEET 366 OF 436 SHEETS



FRAMING PLAN

BEARING OF ALL PIERS = N 9°32'40" E
 BEARING OF ALL GIRDERS = S 80°27'20" E

SR 522 JOB NO. SHEET BA12

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UwB-CCC\NEW BRIDGE\window files\FRAMING PLAN.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	11/05		JOB NUMBER				
Checked By	Gallagher, P	02/06		07A043				
Detailed By	Andreotti, L.M.	11/05						
Bridge Projects Engr.								
Prelm. Plan By								
Architect/Specialist		DATE	REVISION	BY	APP'D			



BRIDGE AND STRUCTURES OFFICE

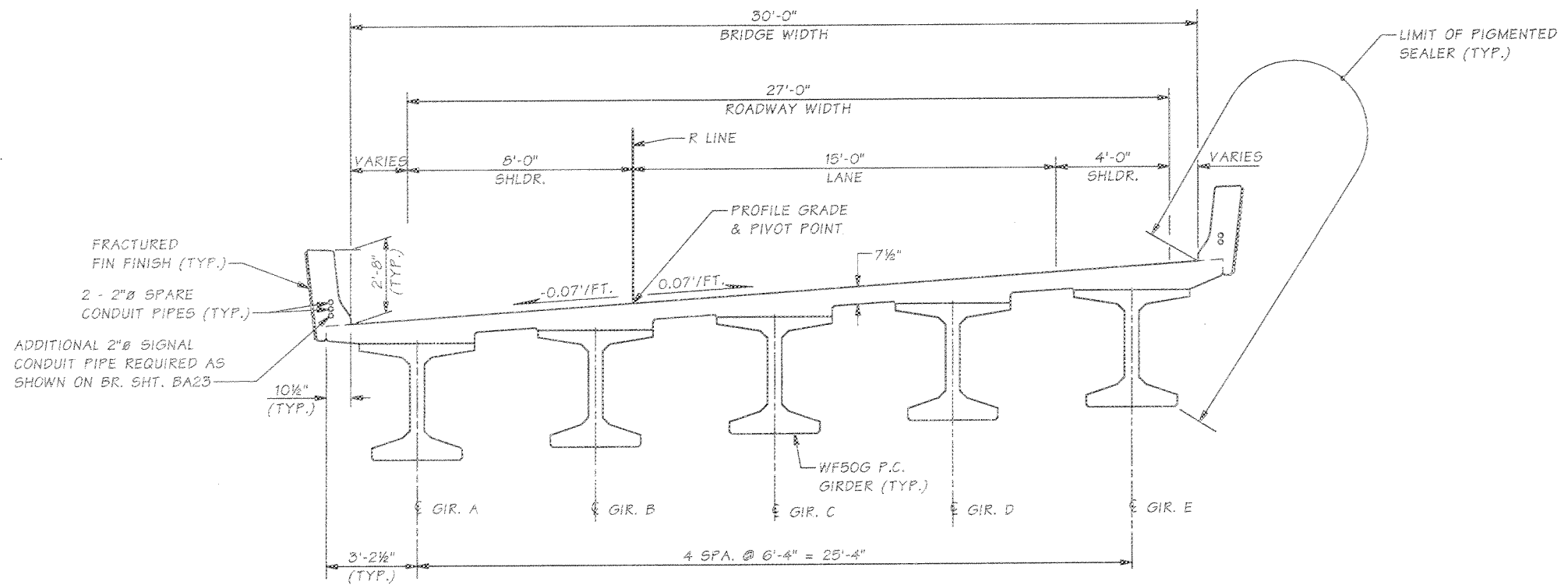


Washington State Department of Transportation

SR 522
 UNIVERSITY OF WASHINGTON BOTHELL /
 CASCADIA CC CAMPUS SOUTH ACCESS
 SOUTH CAMPUS WAY OVERCROSSING

FRAMING PLAN

BRIDGE SHEET NO.
 BA12
 SHEET
 367
 OF
 436
 SHEETS



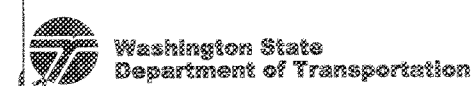
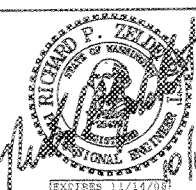
TYPICAL SECTION
SHOWN NEAR MIDSPAN

SR 522 JOB NO. SHEET BA13

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UNB-CCC\NEW BRIDGE\window files\TYP SECTION.WND	
Supervisor	Zeldenrust, RP	REGION NO.	STATE
Designed By	Ferluga, E 12/05	10	WASH.
Checked By	Gallagher, P 01/06	JOB NUMBER 07AD-43	
Detailed By	Andreotti, L.M. 09/05	FED. AID PROJ. NO.	SHEET NO.
Bridge Projects Engr.			TOTAL SHEETS
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APP'D



BRIDGE AND STRUCTURES OFFICE



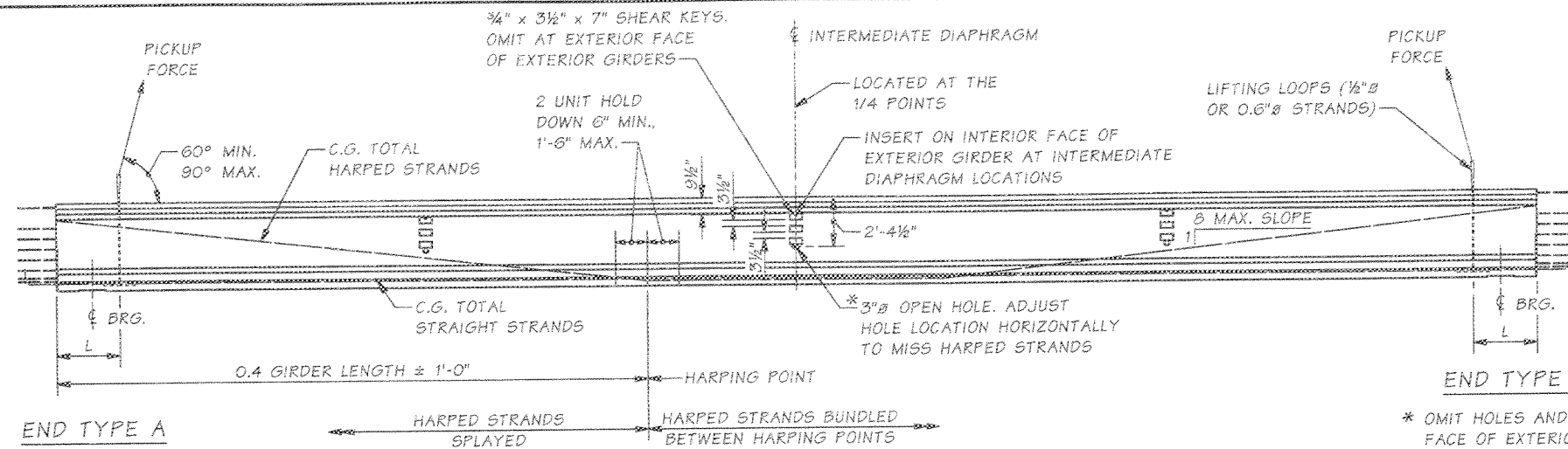
SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

BRIDGE SHEET NO. BA13
SHEET 368 OF 436 SHEETS

TYPICAL SECTION

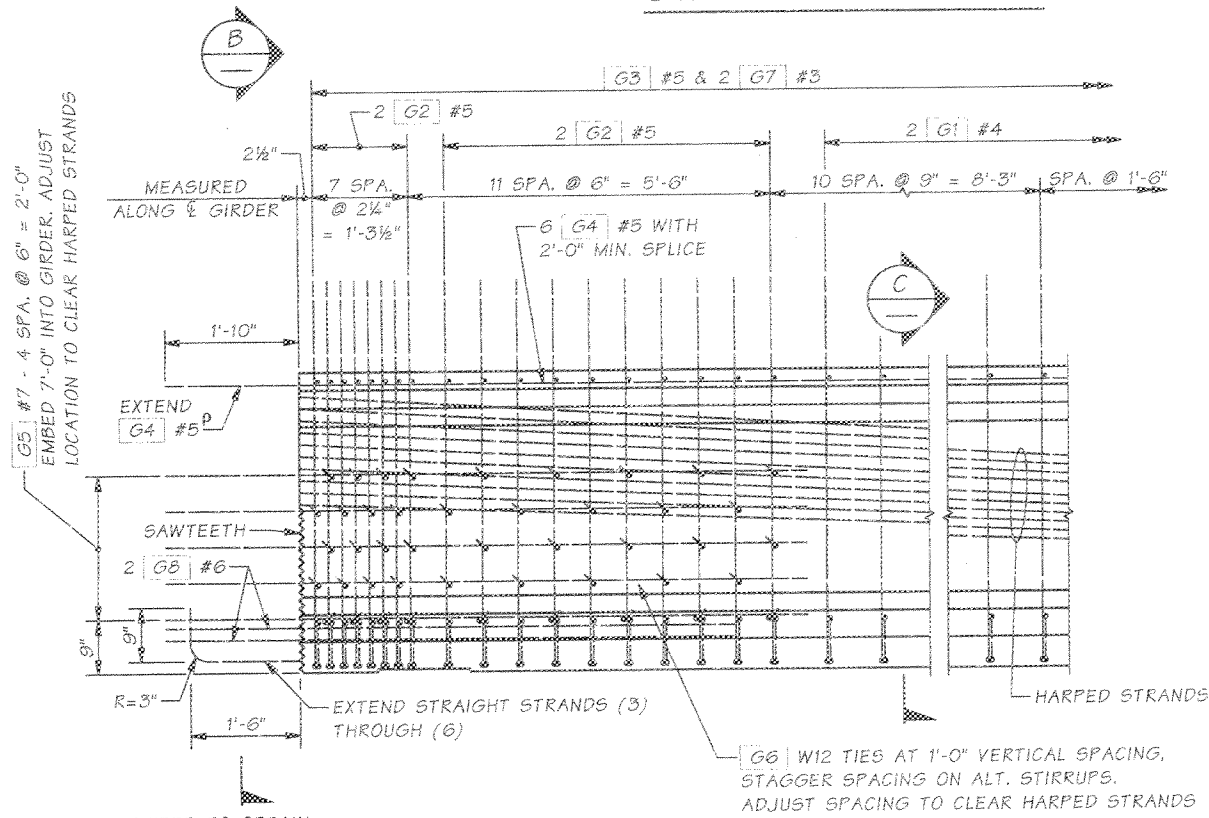
NOTES:

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL STRANDS SHALL BE 0.6"Ø LOW RELAXATION STRANDS (AASHTO M203 GRADE 270.)
3. FOR END TYPE A CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. NUMBER OF STRANDS USED FOR LIFTING LOOPS SHALL BE BASED ON 10 KIPS PER 1/2"Ø STRAND AND 14 KIPS PER 0.6"Ø STRAND. EXTEND THE STRANDS ENDING WITH A 9" LONG 90° HOOK TO WITHIN 3" CLEAR OF THE BOTTOM OF THE GIRDER. ALTERNATE LIFTING CONFIGURATIONS MAY BE SUBMITTED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 6-02.3(25)I OF THE STANDARD SPECIFICATIONS.
6. CAUTION MUST BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
8. TEMPORARY STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)J OF THE STANDARD SPECIFICATIONS. IF PRETENSIONED, THESE TEMPORARY STRANDS SHALL BE UNBONDED OVER ALL BUT THE END 10'-0" OF THE GIRDER LENGTH. AS AN ALTERNATE, TEMPORARY STRANDS MAY BE POST-TENSIONED ON THE SAME DAY THE PRETENSIONING IS RELEASED INTO THE GIRDER.



* OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1"Ø BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4 3/8") FERRULE OR APPROVED EQUAL. (TYP.)

GIRDER ELEVATION

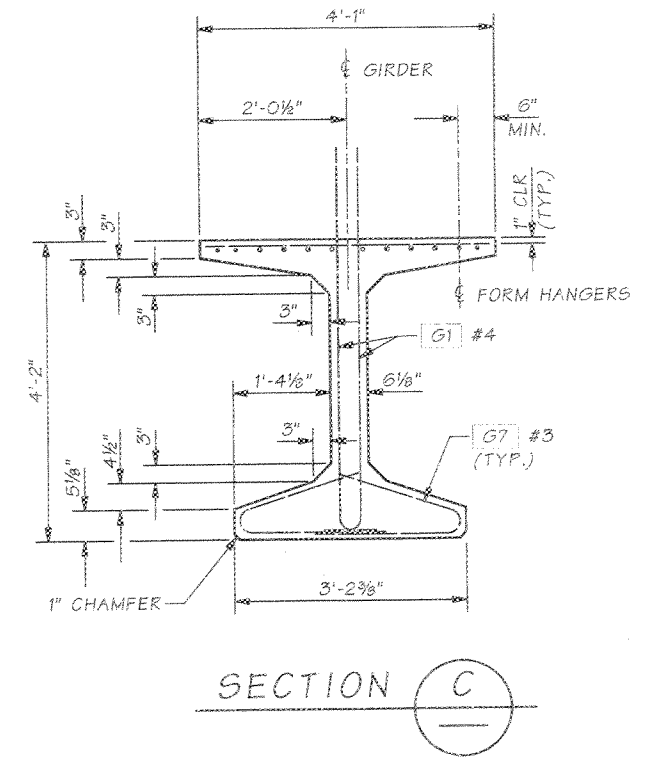
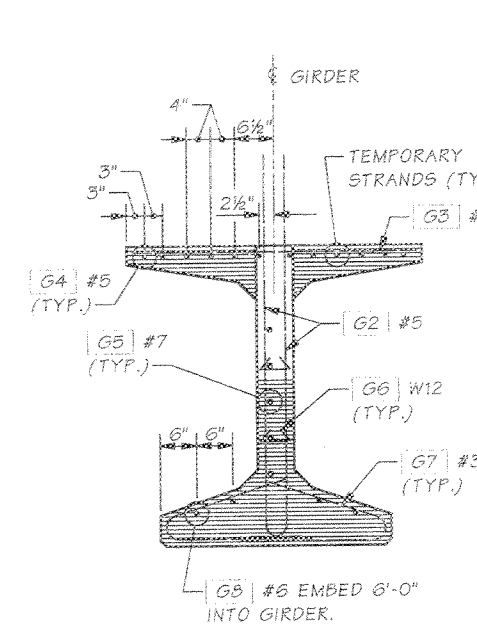
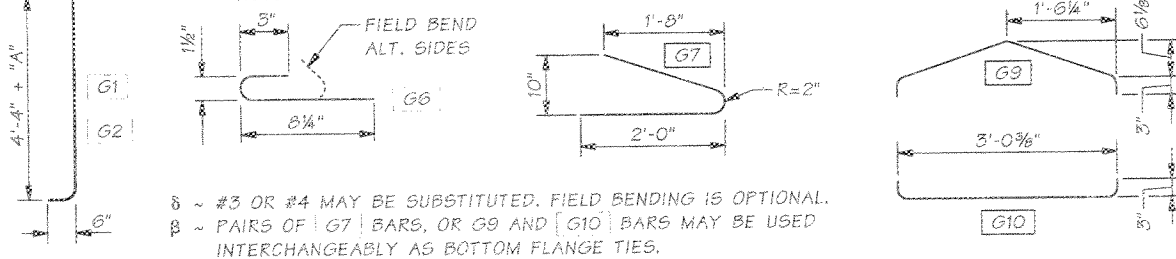


P FIELD BENDING REQUIRED TO OBTAIN 1 1/2" CONCRETE COVER AT PAVEMENT SEAT.

TYPICAL END ELEVATION

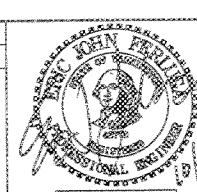
BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)

NOTE: FOR DIMENSION "A", SEE "GIRDER SCHEDULE" BR. SHT. BA15

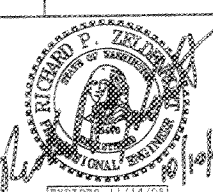


MARK	LOCATION	SIZE
G1	GIRDER STIRRUPS	4
G2	GIRDER END STIRRUPS	5
G3	GIRDER TOP FLANGE	5 STR.
G4	GIRDER LONGIT. FULL LENGTH	5 STR.
G5	GIRDER END LONGIT.	5 STR.
G6	GIRDER END TIES	W12 ^δ
G7 ^β	GIRDER BOT. FLANGE TIES	3
G8	GIRDER END LONGIT.	6 STR.
G9 ^β	GIRDER BOT. FLANGE TIES	3
G10 ^β	GIRDER BOT. FLANGE TIES	3

BRIDGE DESIGN ENGR.	STODDARD, RB	M:\Z-Team\S22 UWB-CCC\NEW BRIDGE>window files\WF50G 1.WND
SUPERVISOR	ZELDENRUST, RP	
DESIGNED BY	FERLUGA, E	11/05
CHECKED BY	GALLAGHER, P	02/06
DETAILED BY	FERLUGA, E	11/05
BRIDGE PROJECTS ENGR.		
PRELIM. PLAN BY		
ARCHITECT/SPECIALIST		
DATE	REVISION	BY
		APP'D



BRIDGE AND STRUCTURES OFFICE



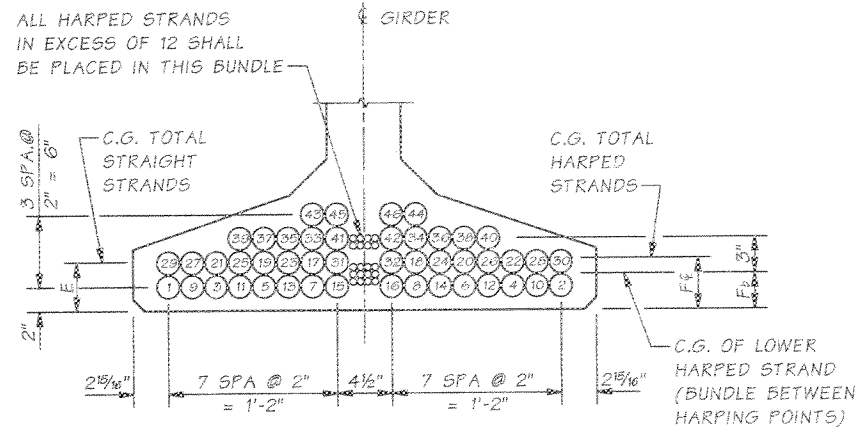
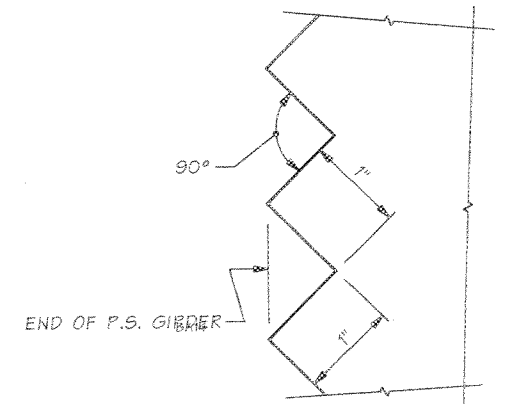
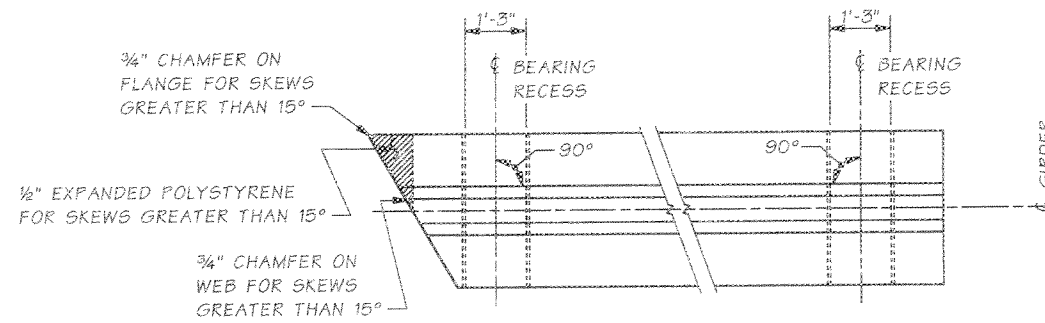
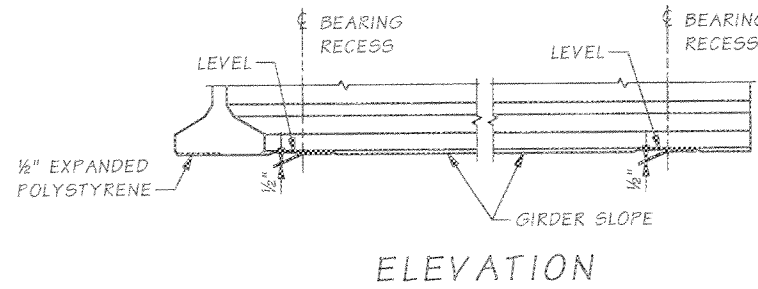
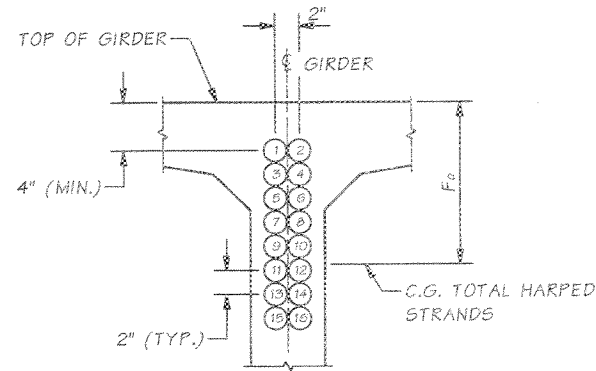
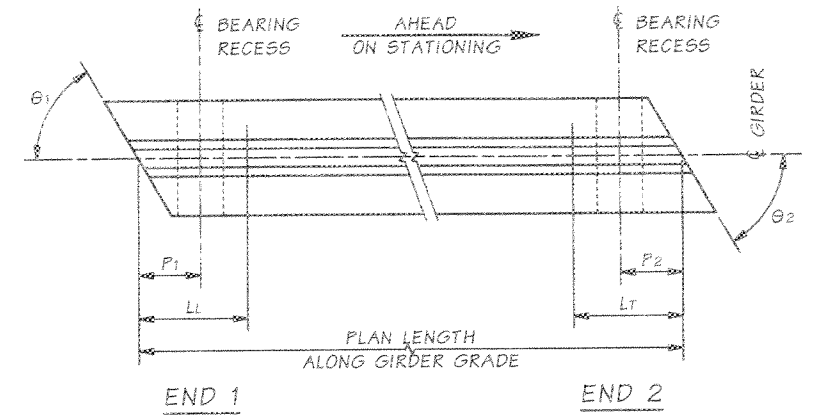
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
WF50G GIRDER
DETAILS 1 OF 2

SHEET NO. BA14
369 OF 436 SHEETS

GIRDER SCHEDULE

DIMENSION "A" AT ϕ BEARINGS = 11 3/4"													BASED ON GIRDER DEFLECTION = "D" AT TIME OF SLAB PLACEMENT (120 DAYS)														
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	L (LIFTING LOCATION)	LL (LEADING SUPPORT)	LT (TRAILING SUPPORT)	θ_1	θ_2	P ₁	P ₂	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMP. STRENGTH		HARPED		STRAIGHT		TEMPORARY		LOCATION OF C.G. STRANDS (IN.)				C (IN.)	D @ 40 DAYS (IN.)	D @ 120 DAYS (IN.)	L _d (IN.)
												ϕ FINAL F/C (KSI)	ϕ RELEASE F/C (KSI)	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F _E	F _D	F _O				
1	A-E	A	A	2'-6"	3'-0"	3'-0"	90°	90°	1'-8 1/2"	1'-8 1/2"	127'-11"	8.5	7.5	16	703.1	34	1494.1	0	0	3 1/8"	3 3/4"	3"	11"	3 5/8"	5 1/8"	5 7/8"	N/A



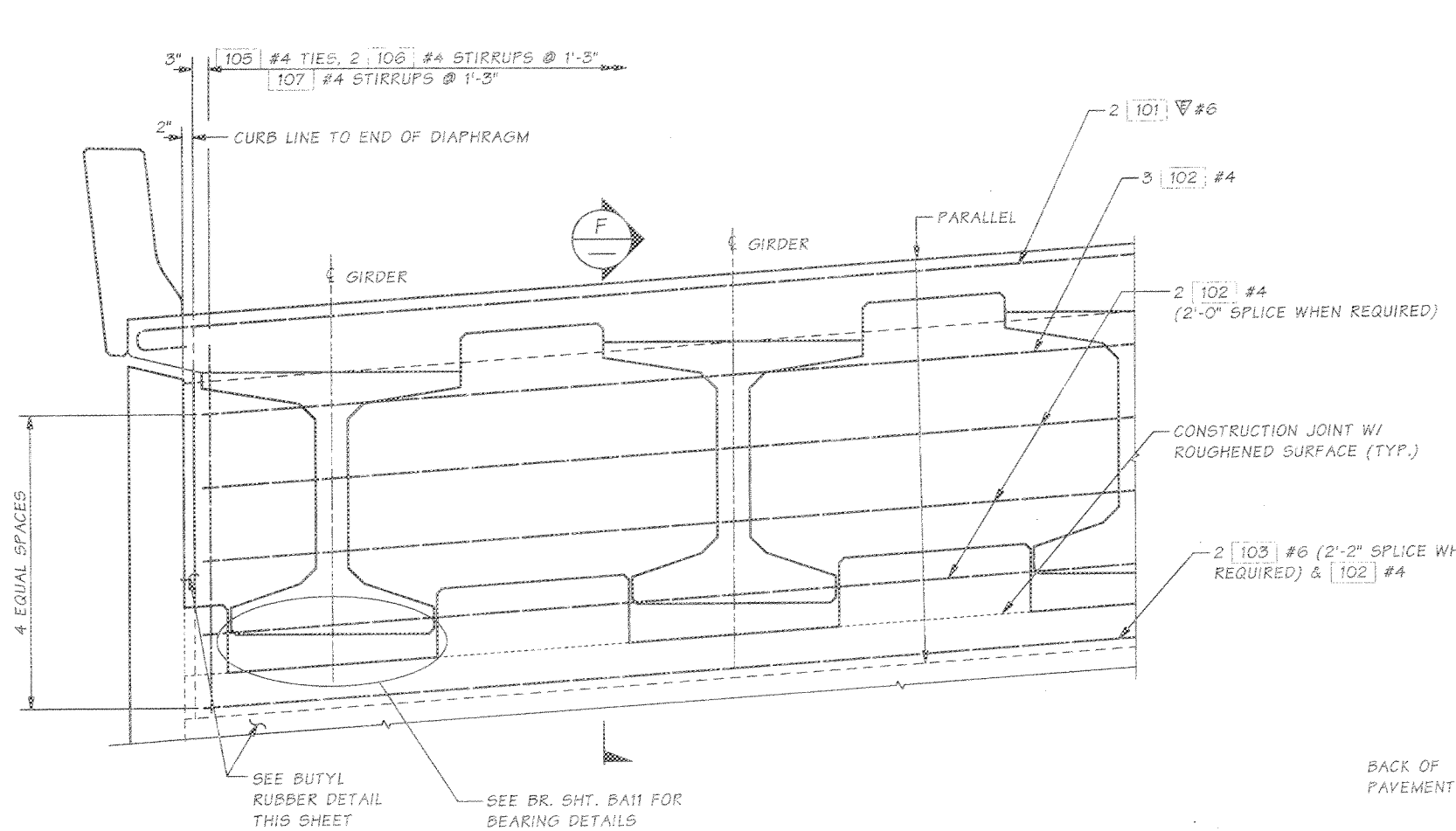
SR 522 JOB NO. SHEET BA15

Bridge Design Engr. Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\WF50G 2.WND	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor Zeldenrust, RP		10	WASH.			
Designed By Ferluga, E	11/05	JOB NUMBER 07A043				
Checked By Gallagher, P	02/06					
Detailed By Ferluga, E	11/05					
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APP'D.		

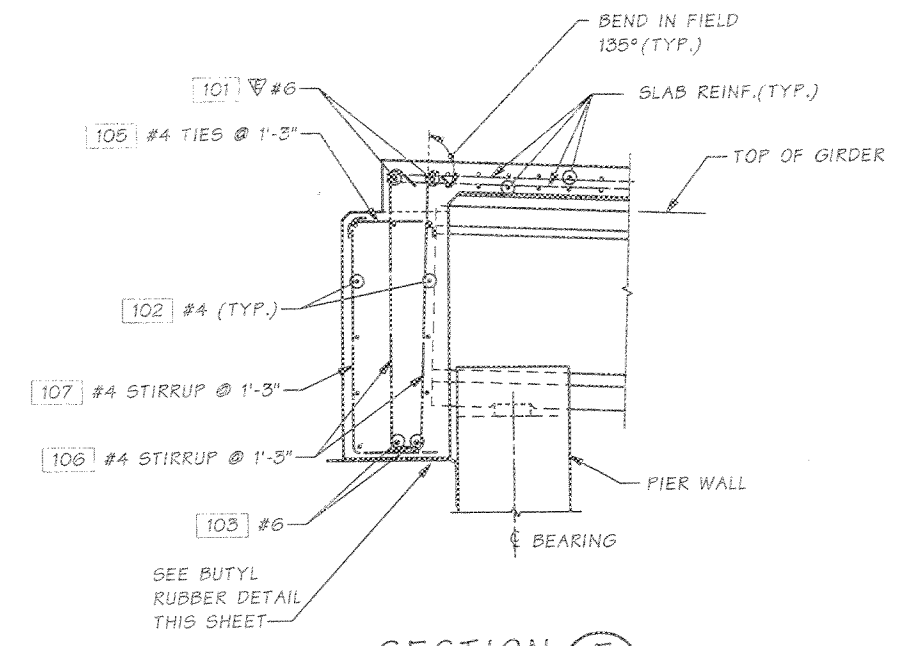
BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

SR 522	BRIDGE SHEET NO. BA15
UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS SOUTH CAMPUS WAY OVERCROSSING	SHEET 370 OF 436 SHEETS
WF50G GIRDER DETAILS 2 OF 2	

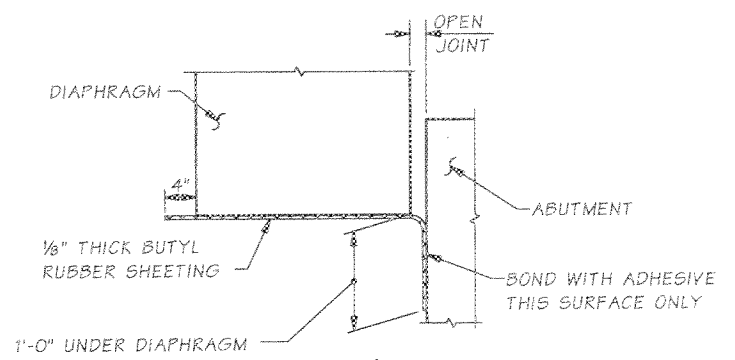


TYPICAL END DIAPHRAGM



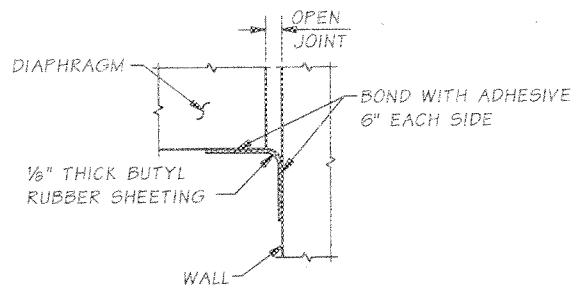
SECTION F

SEE BUTYL RUBBER DETAIL THIS SHEET
SEE BR. SHT. BA15 FOR BEARING DETAILS



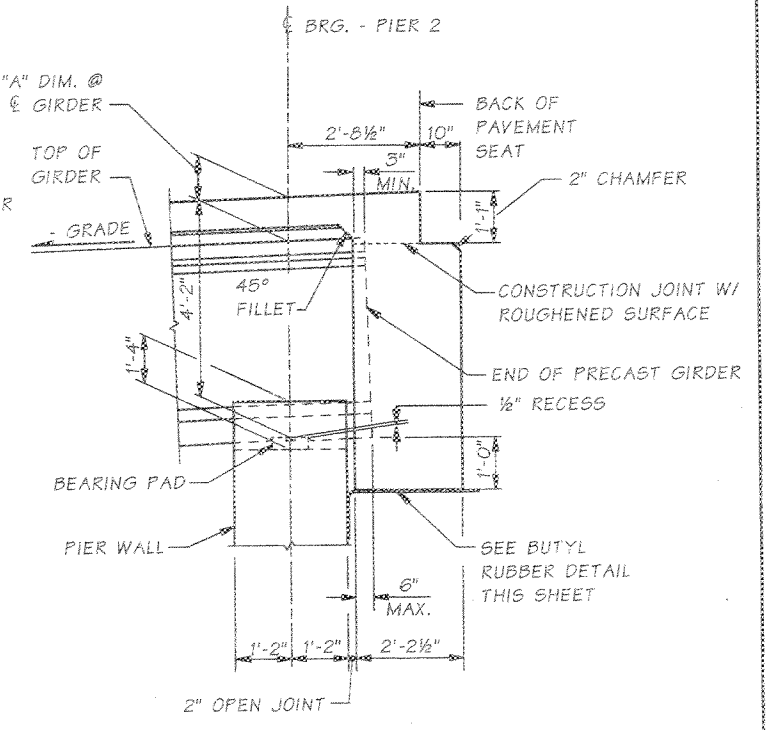
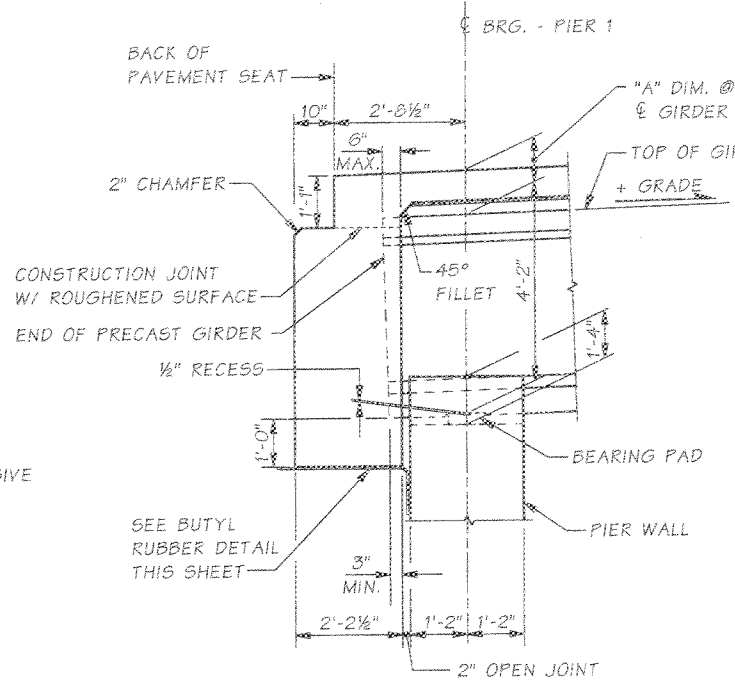
ELEVATION

BUTYL RUBBER @ DIAPHRAGM



PLAN VIEW

BUTYL RUBBER @ VERTICAL JOINTS



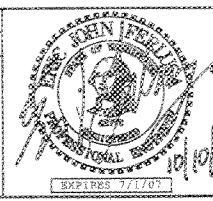
END DIAPHRAGM GEOMETRY

SECTIONS THROUGH END DIAPHRAGMS AT END PIERS
SEE BRIDGE SHEET BA15 FOR DIMENSION "A".

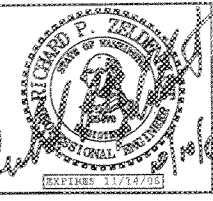
NOTE:
GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.

SR 522 JOB NO. SHEET BA16

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UW8-CCC\NEW BRIDGE\window files\END DIAPHRAGM.WND	
Supervisor	Zeldenrust, RP	REGION NO.	STATE
Designed By	Ferluga, E 11/05	10	WASH.
Checked By	Gallagher, P 02/06	JOB NUMBER 07A043	
Detailed By	Andreotti, L.M. 11/05		
Bridge Projects Engr.			
Prelim. Plan By			
Architect/Specialist		DATE	REVISION
		BY	APP'D



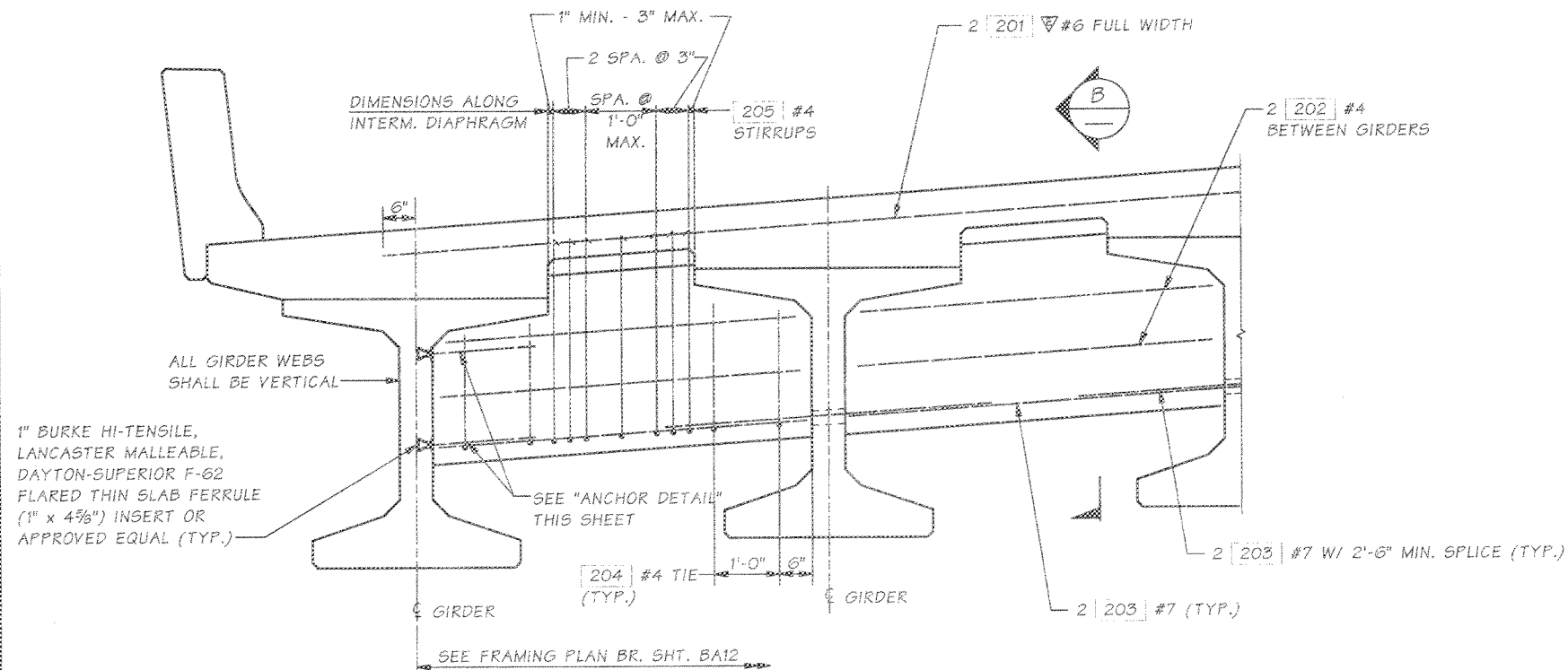
BRIDGE AND STRUCTURES OFFICE



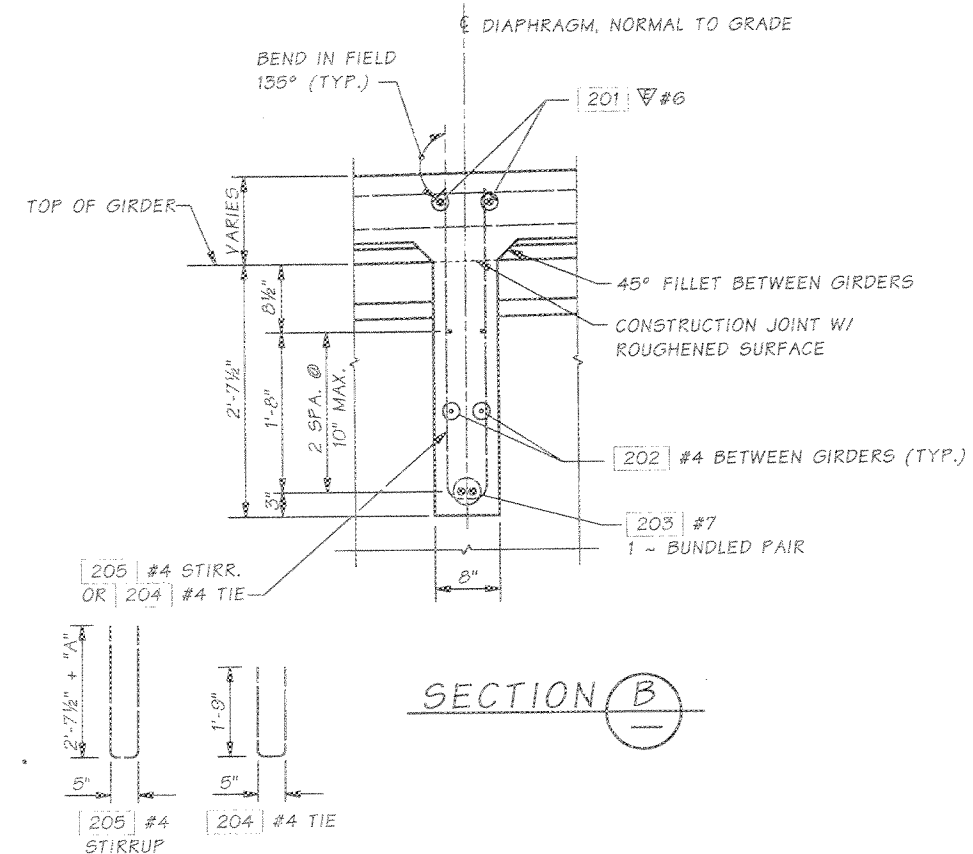
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
END DIAPHRAGM
ON GIRDER DETAILS

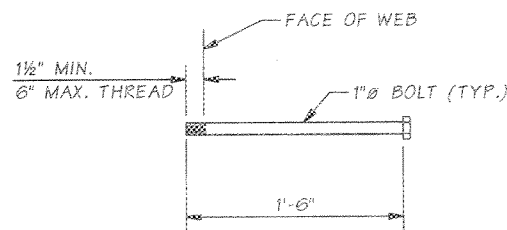
BRIDGE SHEET NO. BA16
SHEET 371 OF 436 SHEETS



TYPICAL INTERMEDIATE DIAPHRAGM



SECTION B



ANCHOR DETAIL
ASTM A-307

NOTE:

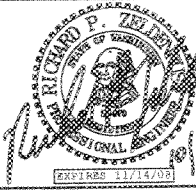
GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED. REINFORCING BAR SHALL BE THREADED THROUGH HOLES IN GIRDERS PRIOR TO PLACING OF EXTERIOR GIRDERS. SEE GIRDER SCHEDULE ON BR. SHT. BA15 FOR "A" DIMENSION.

SE 522 JOB NO. SHEET BA17

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\INTERMEDIATE DIAPHR.WND			
Supervisor	Zeidenrust, RP	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
Designed By	Ferluga, E 11/05	10	WASH.		TOTAL SHEETS
Checked By	Gallagher, P 02/06	JOB NUMBER 07A043			
Detained By	Andreotti, L.M. 11/05				
Bridge Projects Engr.					
Prelim. Plan By					
Architect/Specialist		DATE	REVISION	BY	APP'D



BRIDGE AND STRUCTURES OFFICE

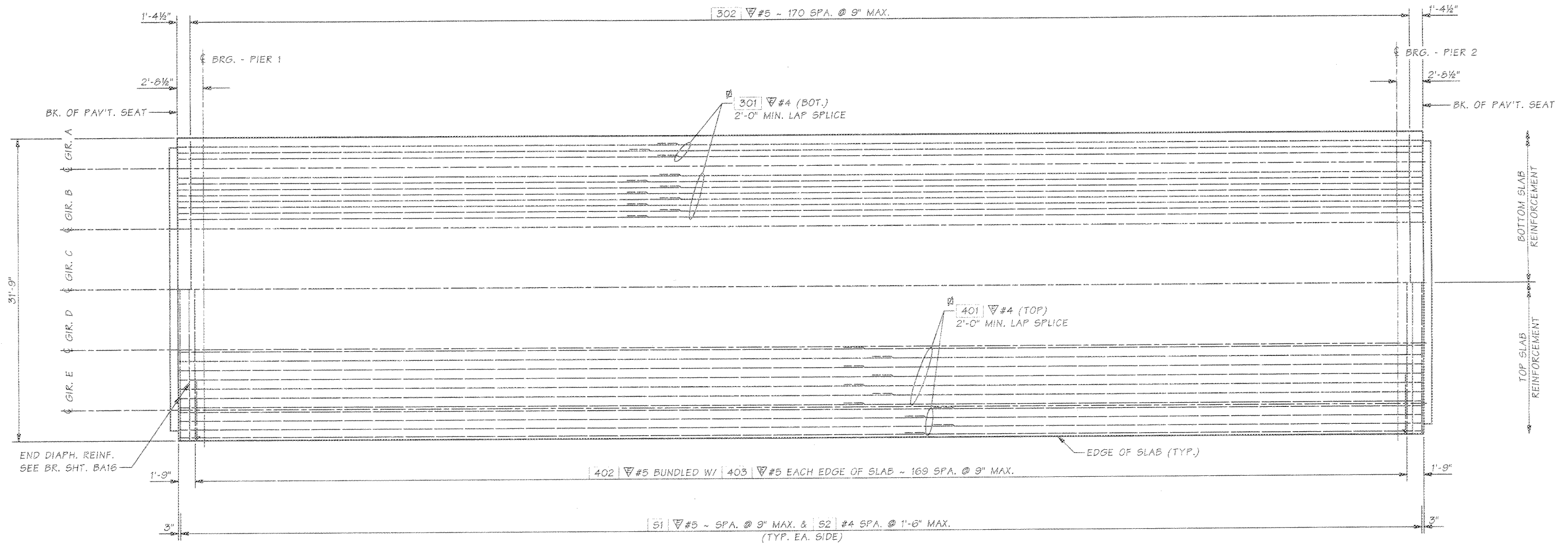


Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

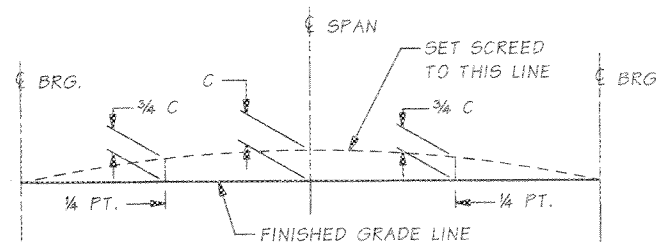
INTERMEDIATE DIAPHRAGM DETAILS

BRIDGE SHEET NO. BA17
SHEET 372 OF 436 SHEETS



ROADWAY SLAB REINFORCEMENT PLAN

NUMBER AND LOCATION OF SPLICES SHALL BE DETERMINED BY THE CONTRACTOR. SPLICES SHALL BE ALTERNATED SO THAT NO MORE THAN 50% OF REBAR IN EACH MAT ARE SPLICED AT THE SAME LOCATION PARALLEL TO THE PIER CENTERLINE.



SCREED SETTING DIMENSIONS

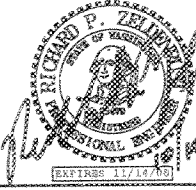
FOR DIMENSION "C" SEE GIRDER SCHEDULE BR. SHT. BA15

SR 522 JOB NO. SHEET BA18

Bridge Design Engr.	Stoddard, RB	R:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\SLAB REINF PLAN.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	12/05		JOB NUMBER				
Checked By	Gallagher, P	02/06		07A043				
Detailed By	Ferluga, E	12/05						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
	DATE	REVISION	BY	APPD				



BRIDGE AND STRUCTURES OFFICE



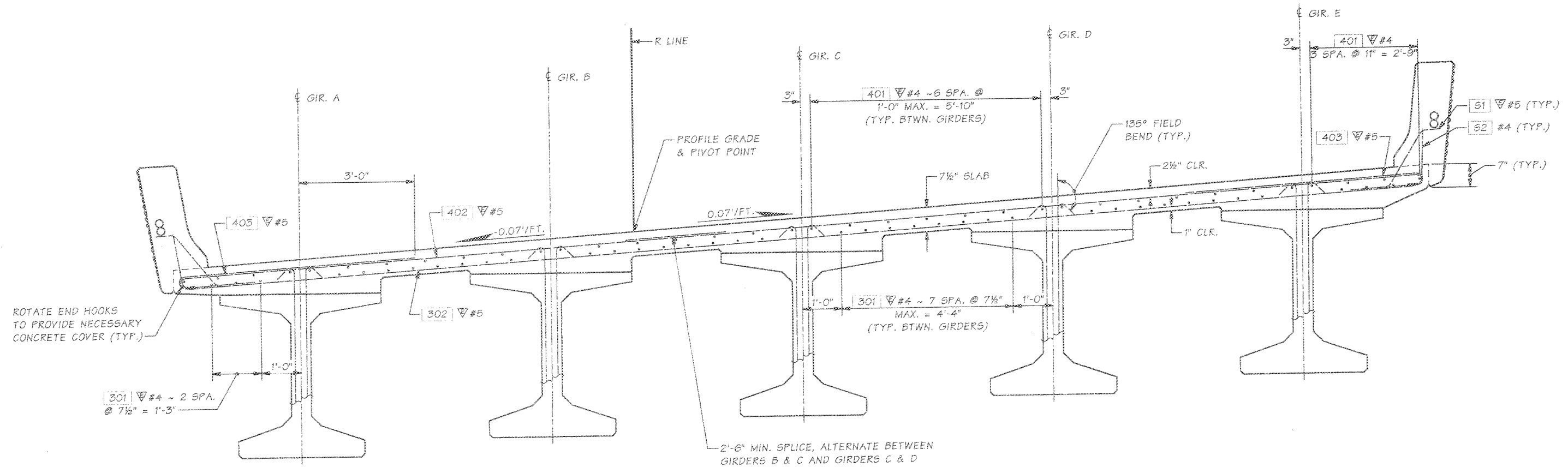
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

ROADWAY SLAB REINFORCEMENT PLAN

BRIDGE SHEET NO. BA18
SHEET 373 OF 436 SHEETS

SR 522 JOB NO. SHEET BA19

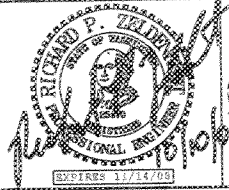


TYPICAL ROADWAY SLAB REINFORCEMENT SECTION
SHOWN NEAR MIDSPAN

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UW8-CCC\NEW BRIDGE\window files\SLAB REINF SECTION.WND				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP				10	WASH.				
Designed By	Ferluga, E	11/05								
Checked By	Gallagher, P	02/06								
Detaild By	Andreotti, L.M.	11/05								
Bridge Projects Engr.					JOB NUMBER 07A043					
Prelim. Plan By										
Architect/Specialist		DATE	REVISION	BY	APP'D					



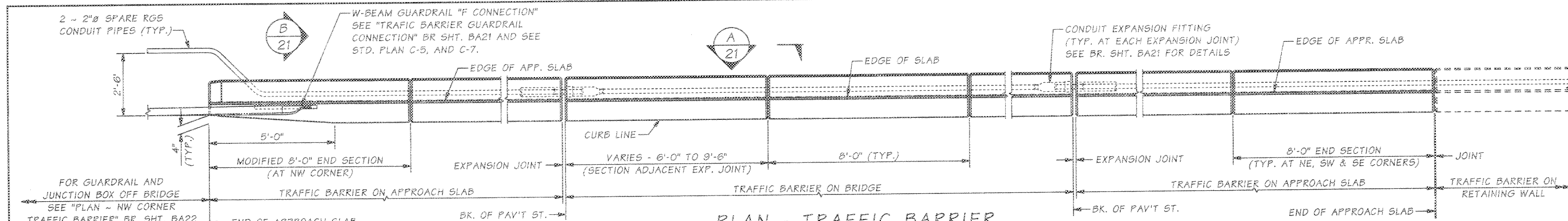
BRIDGE AND STRUCTURES OFFICE



Washington State Department of Transportation

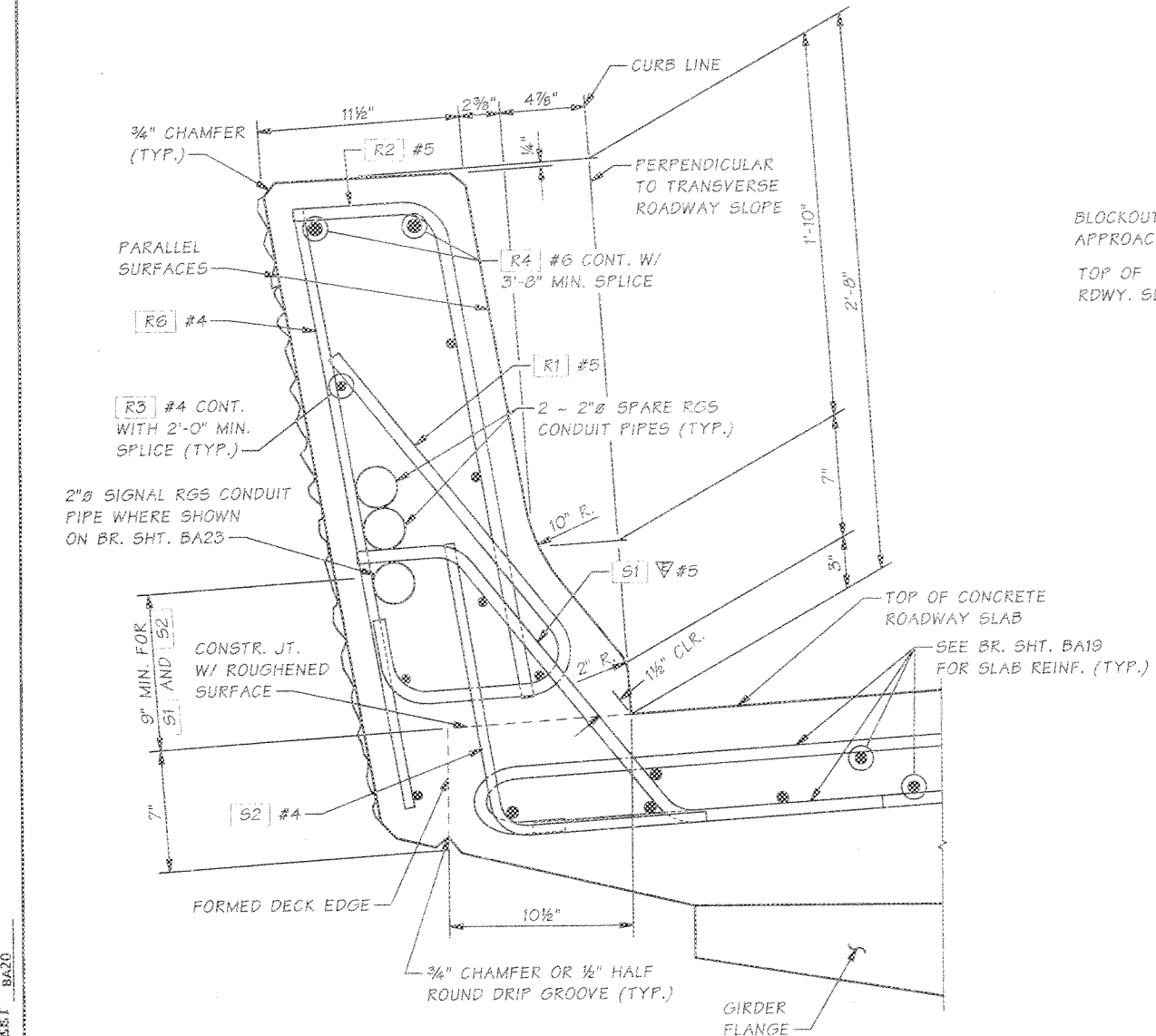
SR 522
UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
ROADWAY SLAB REINFORCEMENT SECTION

BRIDGE SHEET NO.
BA19
SHEET
374
OF
436
SHEETS

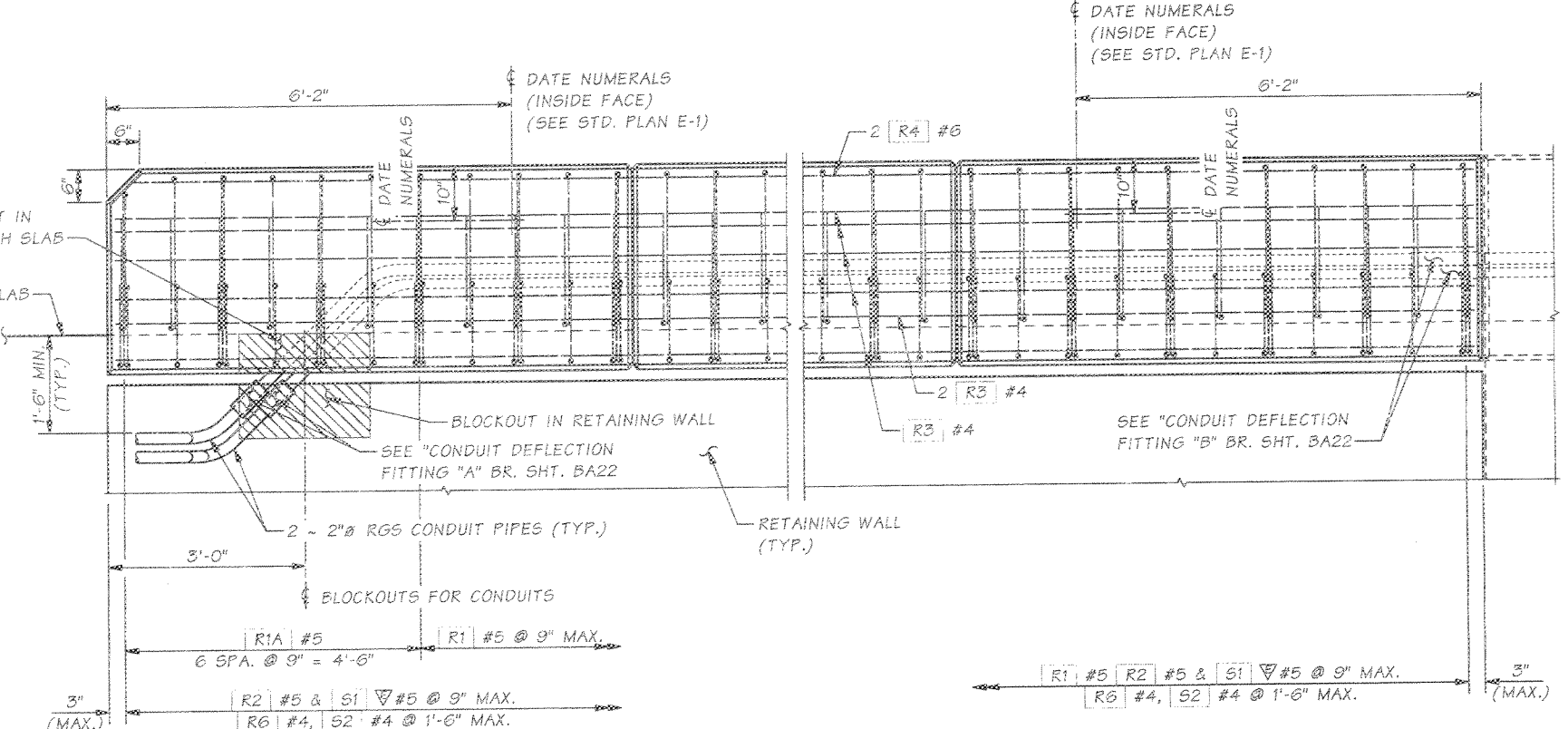


PLAN - TRAFFIC BARRIER

BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS.
 CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
 FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



TYPICAL SECTION - TRAFFIC BARRIER

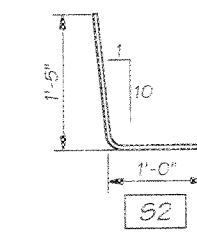
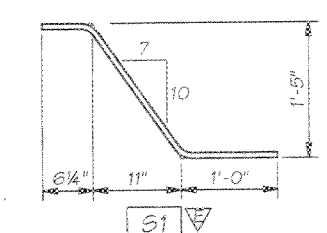


**OUTSIDE ELEV. TRAFFIC BARRIER
MODIFIED END SECTION**

AT NW CORNER

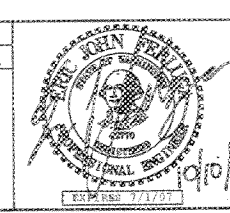
**OUTSIDE ELEV. TRAFFIC BARRIER
END SECTION**

AT NE, SW & SE CORNERS

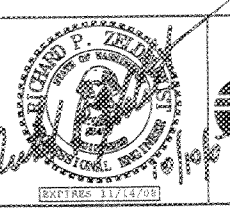


SR 522 JOB NO. SECRET BA20

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UnB-CCC\NEW BRIDGE\Window files\TB1.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP	10	WASH.					
Designed By	Ferluga, E	12/05		JOB NUMBER				
Checked By	Gallagher, P	02/06		07AD43				
Detailed By	Ferluga, E	12/05						
Bridge Projects Engr.								
Prekm. Plan By								
Architect/Specialist								
DATE		REVISION		BY	APPD			

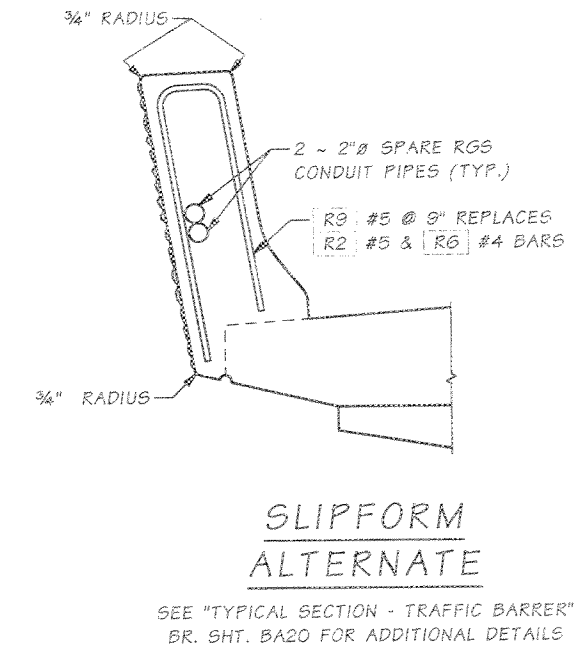
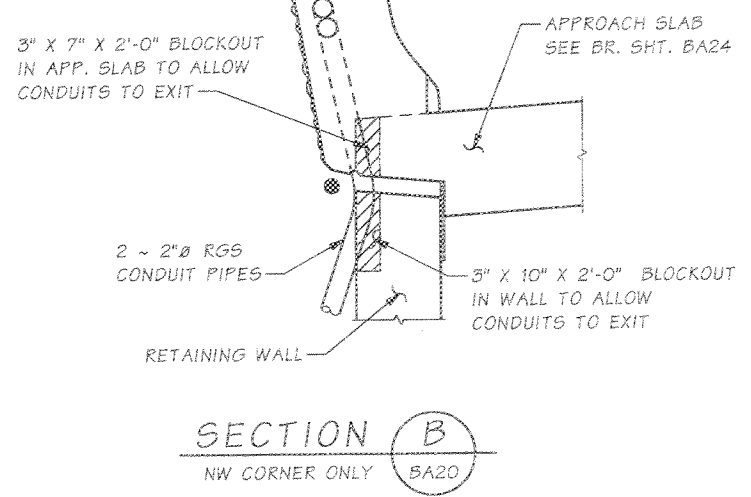
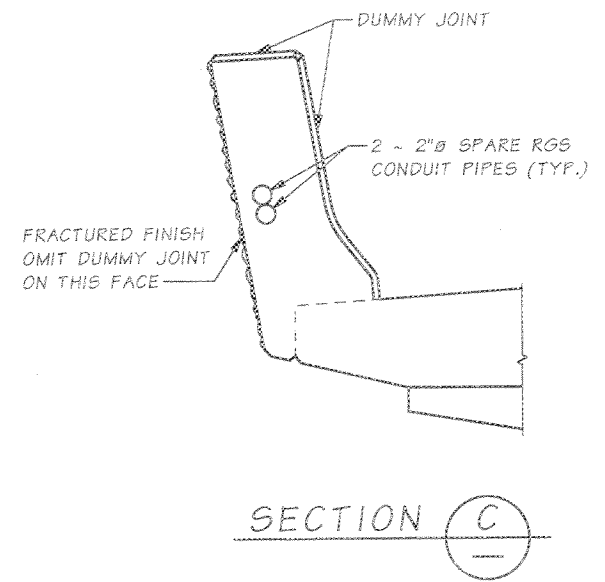
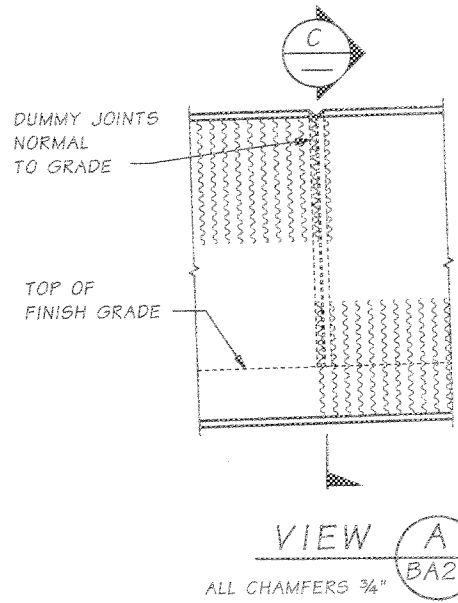


BRIDGE AND STRUCTURES OFFICE

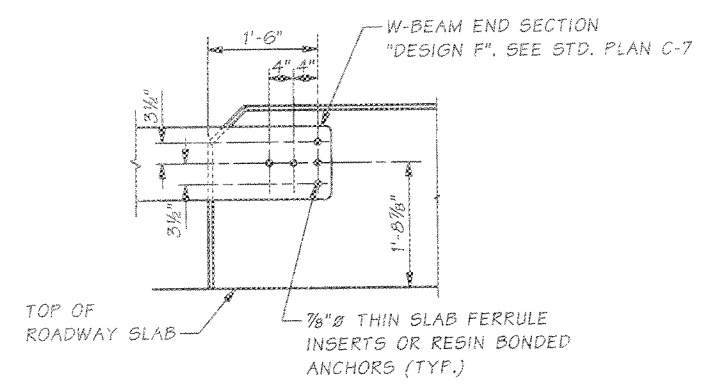
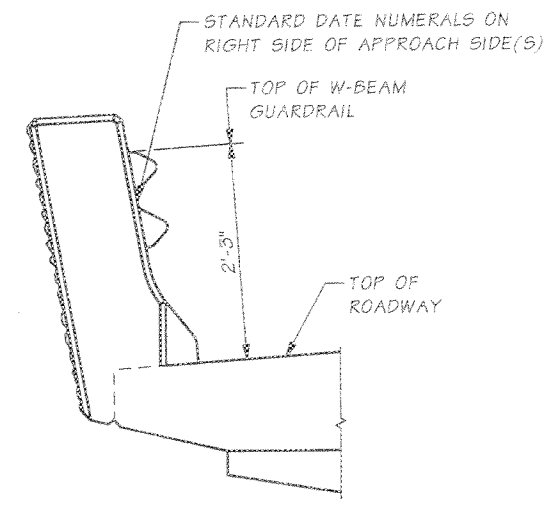
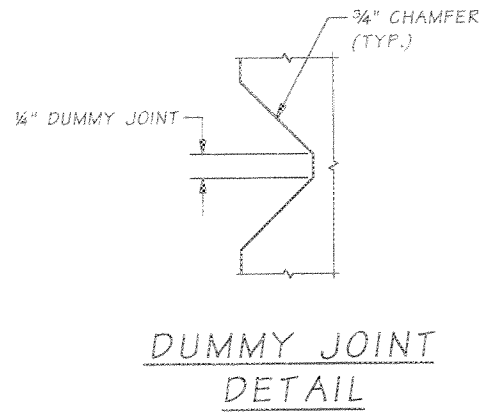
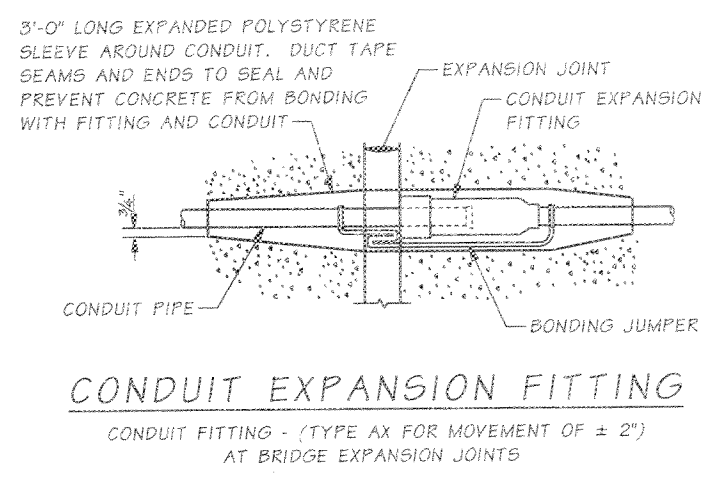


Washington State Department of Transportation

SR 522	UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS	BA20
	SOUTH CAMPUS WAY OVERCROSSING	375 OF 436 SHEETS
	TRAFFIC BARRIER DETAILS	
	1 OF 4	

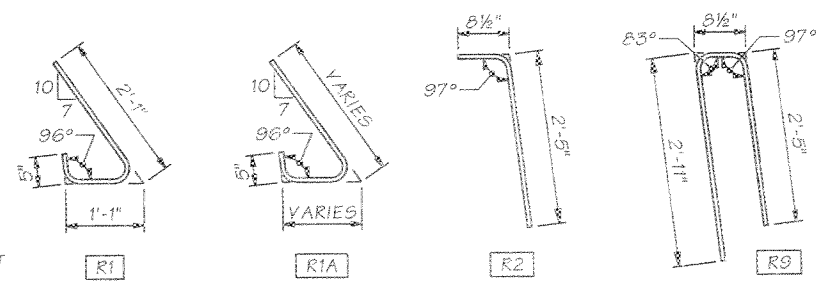


NOTE:
THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIERS WITH A FRACTURED FIN FINISH.



TRAFFIC BARRIER BAR LIST

MARK	SIZE	LENGTH	BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)	
R1	#5	3'-1"	ALL DIMENSIONS TO POINTS OF INTERSECTION	
R1A	#5	(A)		
R2	#5	3'-0"		
R3	#4	(A)		STR.
R4	#6	(A)		STR.
R6	#4	2'-11"		STR.
R9	#5	5'-10"		



NOTE:
FOR [5] #5 & [52] #4 BARS SEE BARLIST

SR 522 JOB NO. SHEET BA21

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UwB-CCC\NEW BRIDGE\window files\TB2.WND	
Supervisor	Zeldenrust, RP	REGION NO.	STATE
Designed By	Ferluga, E 01/06	10	WASH.
Checked By	Gallagher, P 02/06	JOB NUMBER	07AC43
Detailed By	Ferluga, E 01/06	DATE	REVISION
Bridge Projects Engr.		BY	APPD
Prelim. Plan By			
Architect/Specialist			

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

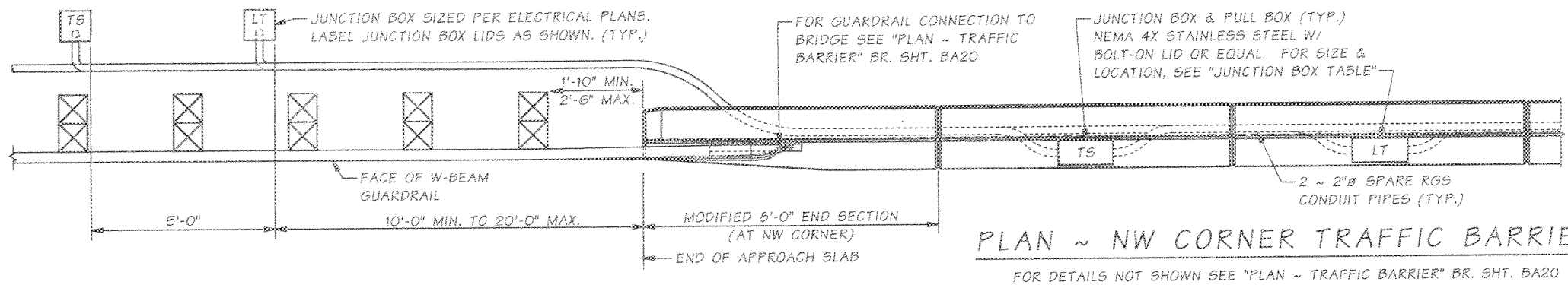
ERIC KEN REEVE
PROFESSIONAL ENGINEER
EXPIRES 7/1/07

RICHARD P. ZELDENRUST
PROFESSIONAL ENGINEER
EXPIRES 11/14/06

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

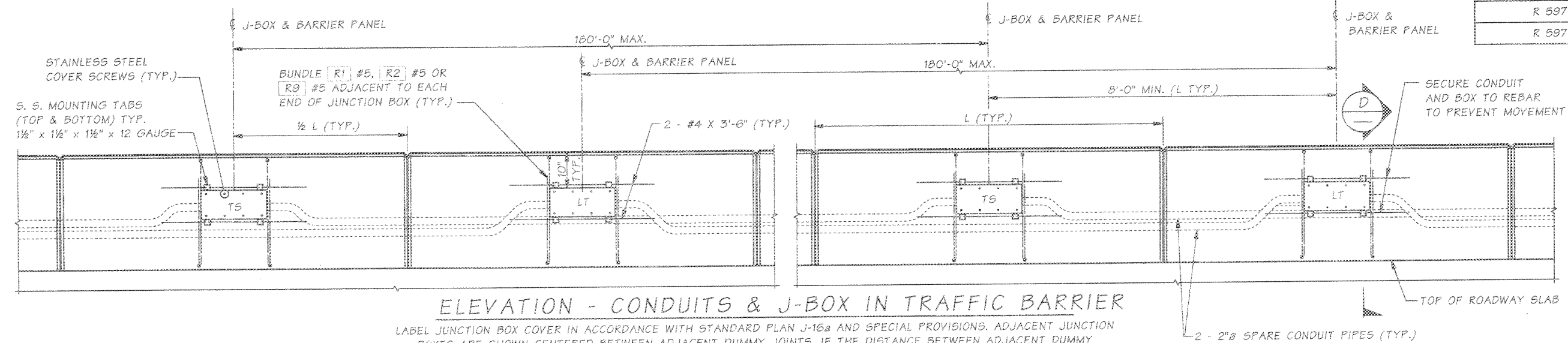
TRAFFIC BARRIER DETAILS
2 OF 4

BRIDGE SHEET NO. BA21
SHEET 376 OF 436



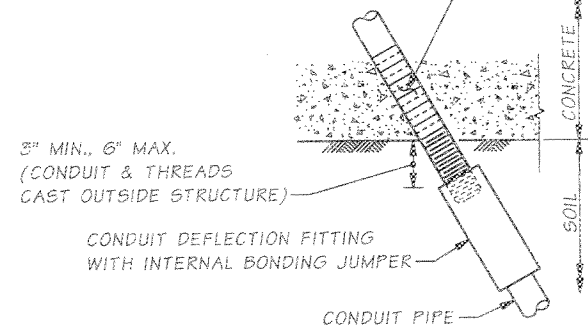
JUNCTION BOX TABLE

STATION	OFFSET	LABEL
R 595+89	RT.	TS
R 595+94	LT.	TS
R 595+97	RT.	LT
R 596+02	LT.	LT
R 596+46	LT.	TS
R 597+00	RT.	TS
R 597+41	RT.	TS
R 597+44	LT.	TS
R 597+51	RT.	TS
R 597+54	LT.	TS
R 597+59	RT.	LT
R 597+62	LT.	LT

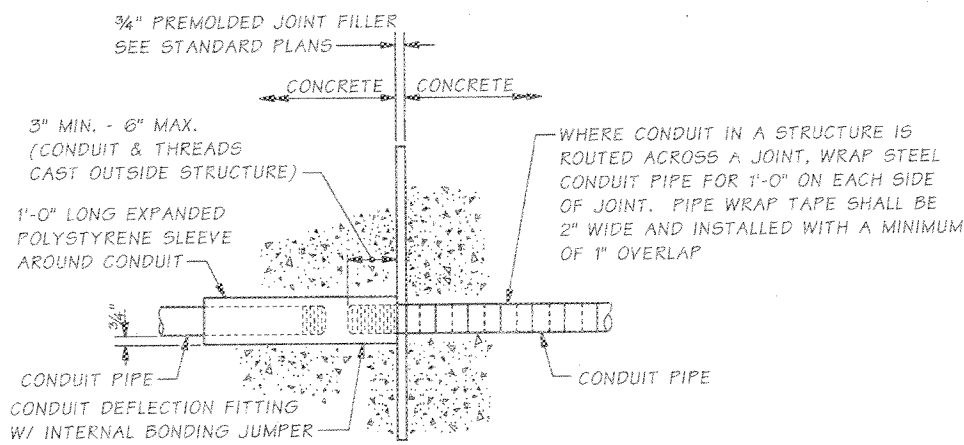


LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD PLAN J-16a AND SPECIAL PROVISIONS. ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ABOUT THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.

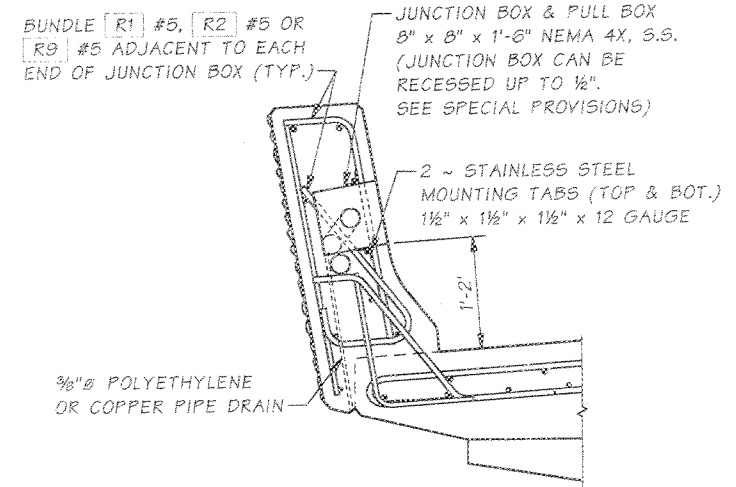
WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE AND INSTALLED WITH A MINIMUM OF 1" OVERLAP



CONDUIT DEFLECTION FITTING A
CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT. PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE



CONDUIT DEFLECTION FITTING B
CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 3/4" MOVEMENT. CONDUIT PIPES PLACED THROUGH RETAINING WALL TRAFFIC BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT A MAXIMUM SPACING OF 120 FEET. THE DEFLECTION FITTINGS SHALL BE PLACED AT THE TRAFFIC BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL STEM EXPANSION JOINT NEAREST TO THE TRANSVERSE CONSTRUCTION JOINT IN THE WALL FOOTING.



SECTION D

SR 522 JOB NO. SHEET BA22

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWS-CCC\NEW BRIDGE\window files\TB3.WND
Supervisor	Zeldenrust, RP	
Designed By	Ferluga, E	01/06
Checked By	Gallagher, P	02/06
Detailed By	Ferluga, E	01/06
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		

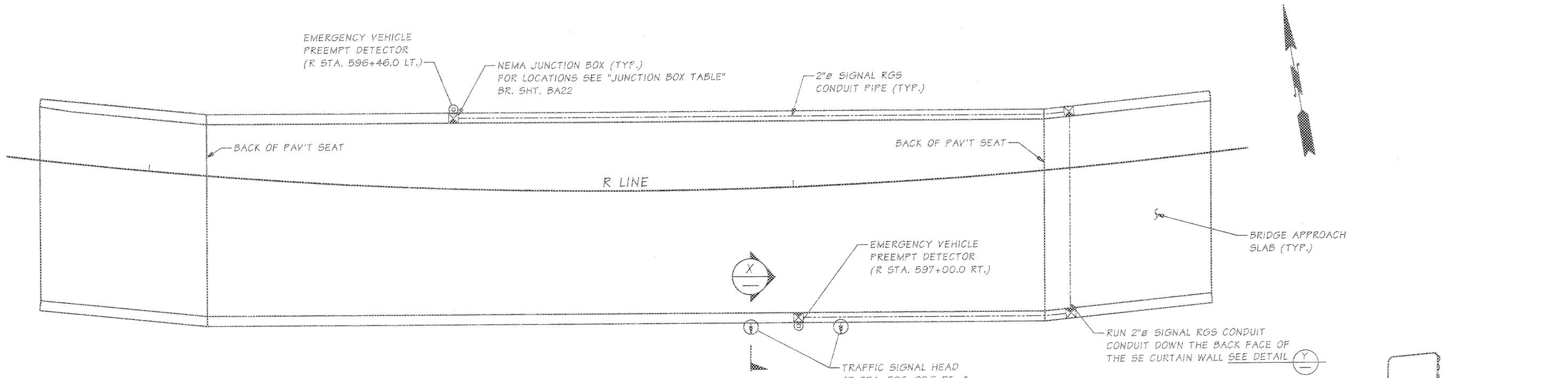
REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER				
07A043				
DATE	REVISION	BY	APP'D	

BRIDGE AND STRUCTURES OFFICE

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING

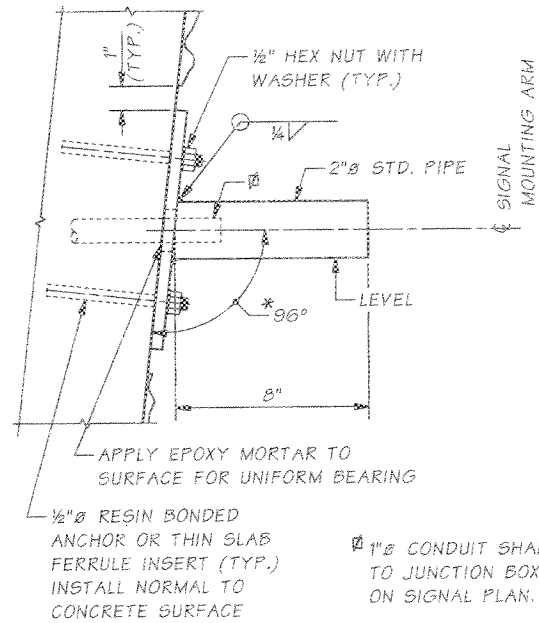
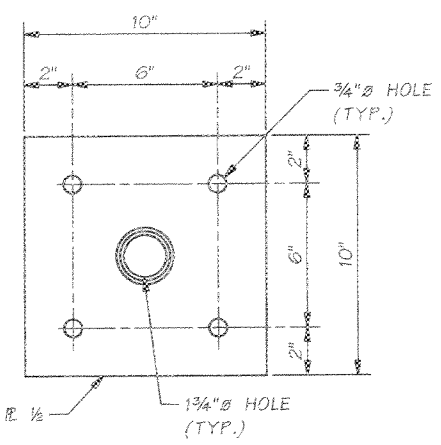
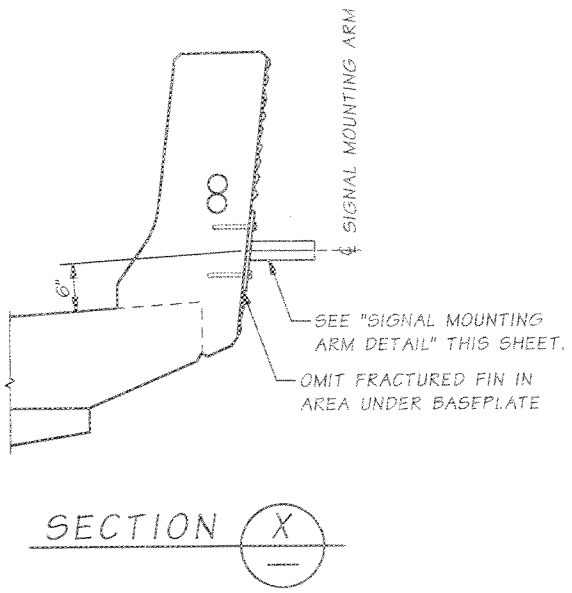
TRAFFIC BARRIER DETAILS
3 OF 4

BRIDGE SHEET NO. BA22
SHEET 377 OF 436 SHEETS



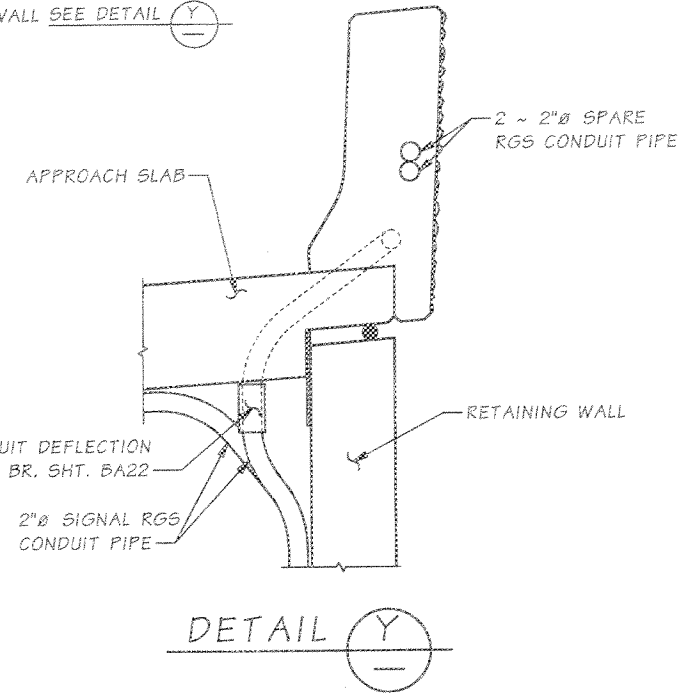
PLAN ~ TRAFFIC SYSTEM

2 ~ 2"Ø SPARE RGS CONDUIT PIPE AND ASSOCIATED JUNCTION BOXES NOT SHOWN FOR CLARITY



SIGNAL MOUNTING ARM DETAIL

2 REQUIRED



NOTES

- MATERIAL SPECIFICATIONS:

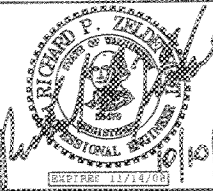
PLATES	ASTM A36
PIPES	ASTM A53 GR. B
BOLTS, NUTS & WASHERS (UNLESS OTHERWISE NOTED)	ASTM A307
RESIN BONDED ANCHORS (ALL THREAD)	ASTM F593 GROUP 1 CW2 WITH NUT F594 TYPE 304 AND WASHERS (ANSI B18.22.1) OR ASTM A193 GRADE BB AND NUT A194
EPOXY MORTAR	SEC. 9-26-3
EPOXY RESIN	SEC. 9-26.1
- ALL NON-STAINLESS STEEL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.

SR 522 JOB NO. SHEET BA23

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE>window files\TB4.WND		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP			10	WASH.			
Designed By	Ferluga, E	12/06						
Checked By	Gallagher, P	02/06						
Detailed By	Ferluga, E	02/06						
Bridge Projects Engr.								
Prelim. Plan By								
Architect/Specialist								
	DATE	REVISION	BY	APP'D				



BRIDGE AND STRUCTURES OFFICE



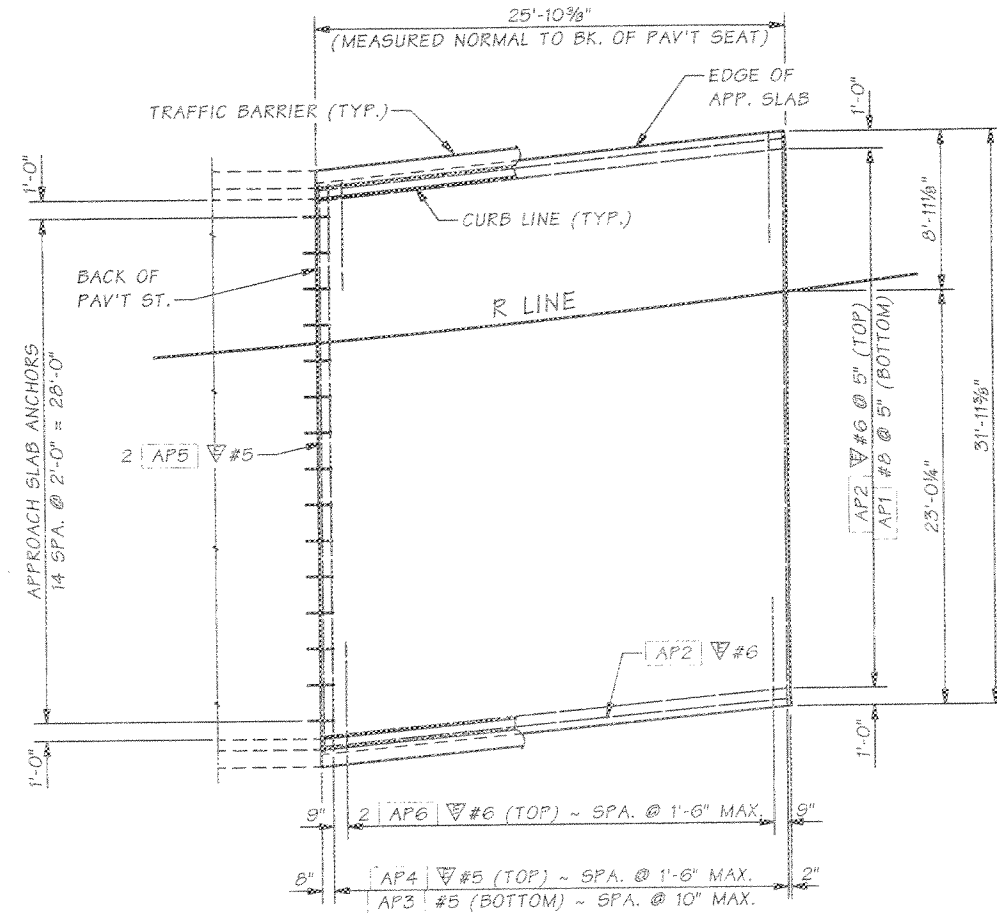
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL / CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
TRAFFIC BARRIER DETAILS
4 OF 4

BRIDGE SHEET NO. BA23
SHEET 378 OF 436 SHEETS

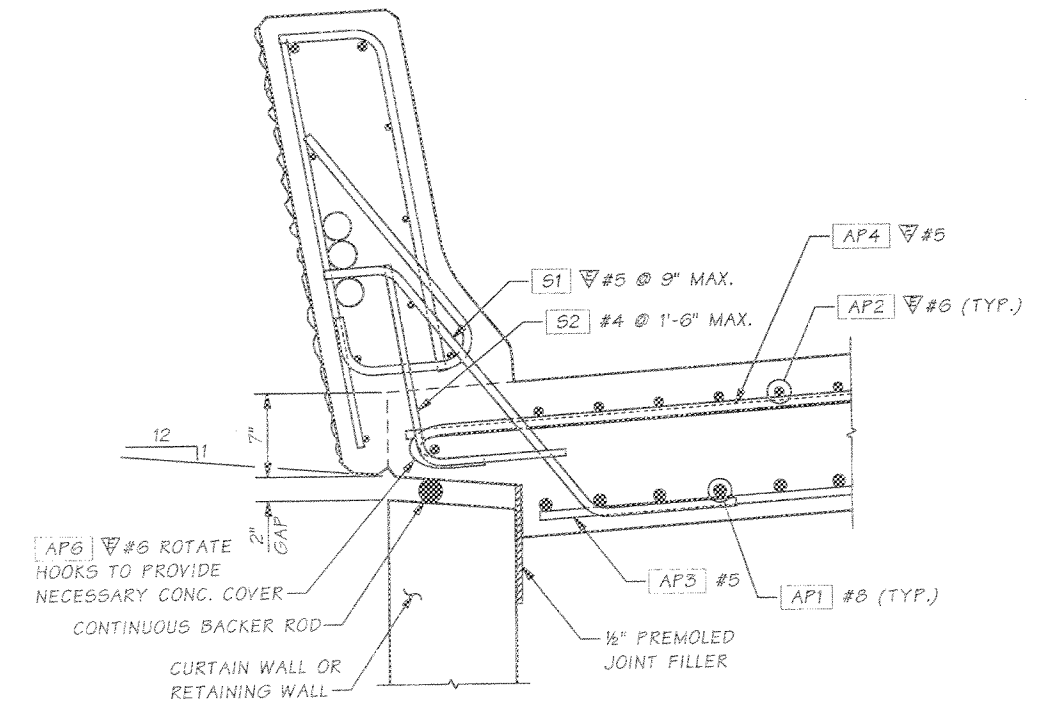
NOTES

1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE 1/8" RADIUS.



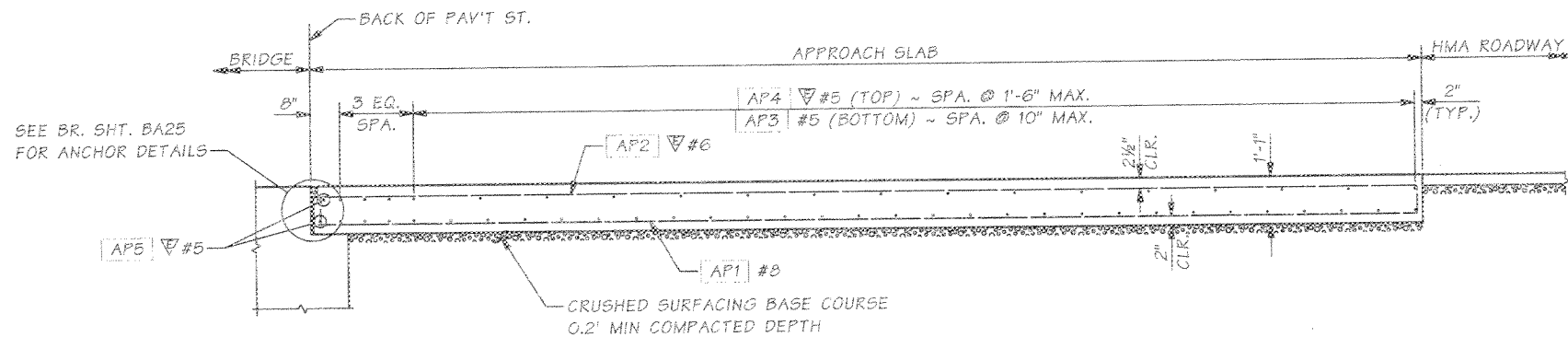
PLAN

APPROACH SLAB AT PIER 2 SHOWN, PIER 1 SIMILAR
END OF APPROACH SLAB IS PARALLEL TO BACK OF PAV'T SEAT.



**TRAFFIC BARRIER ON
APPROACH SLAB DETAIL**

FOR TRAFFIC BARRIER DETAILS SEE BR, SHT. BA20



LONGITUDINAL SECTION

APPROACH SLAB BAR LIST

MARK	LOCATION	SIZE	NO.	LENGTH	BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)
AP1	LONGITUDINAL BOTTOM	8	73	25'-9"	
AP2	LONGITUDINAL TOP	6	75	26'-8"	
AP3	TRANSVERSE BOTTOM	5	31	29'-8"	
AP4	TRANSVERSE TOP	5	18	31'-6"	
AP5	TRANSVERSE END BAR	5	2	31'-6"	
AP6	TRANSVERSE EDGE BAR	6	34	6'-11"	
S1	BARRIER BAR	5	70	3'-6"	
S2	BARRIER BAR	4	36	2'-4"	

APPROXIMATE QUANTITIES (PER SY) FOR SLAB

STEEL REINFORCING BARS	66.4 LBS/SY
EPOXY-COATED STEEL REINFORCING BARS	45.5 LBS/SY
CONCRETE	0.36 CY/SY
APPROACH ANCHORS	AS REQ'D

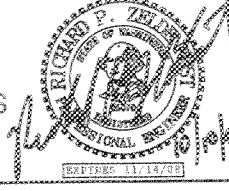
▽ = EPOXY-COATED STEEL REINFORCING BARS

SR 522 JOB NO. SHEET BA24

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\Window Files\APPR. SLAB1.WND
Supervisor	Zeidenrust, RP	
Designed By	Ferluga, E	12/05
Checked By	Gallagher, P	02/06
Detailed By	Ferluga, E	01/06
Bridge Projects Engr.		
Prelim. Plan By		
Architect/Specialist		



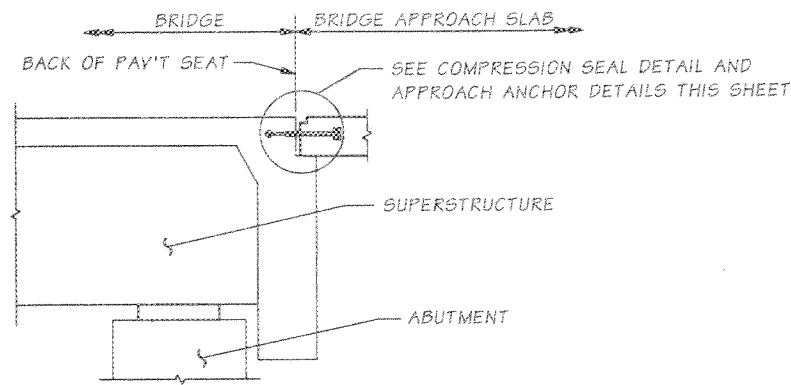
BRIDGE AND STRUCTURES OFFICE



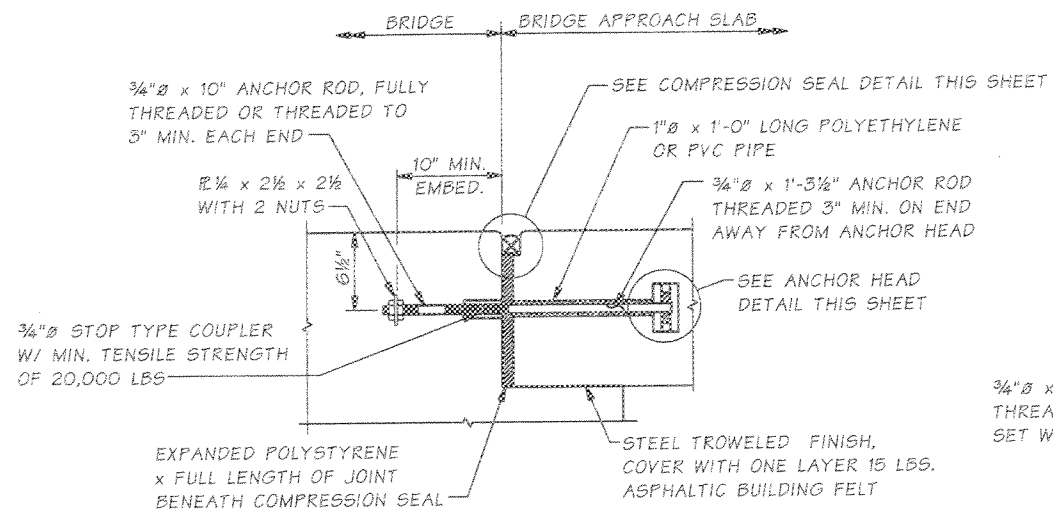
Washington State Department of Transportation

SR 522
UNIVERSITY OF WASHINGTON BOTHELL /
CASCADIA CC CAMPUS SOUTH ACCESS
SOUTH CAMPUS WAY OVERCROSSING
APPROACH SLAB DETAILS
1 OF 2

BRIDGE SHEET NO. BA24
SHEET 378 OF 436

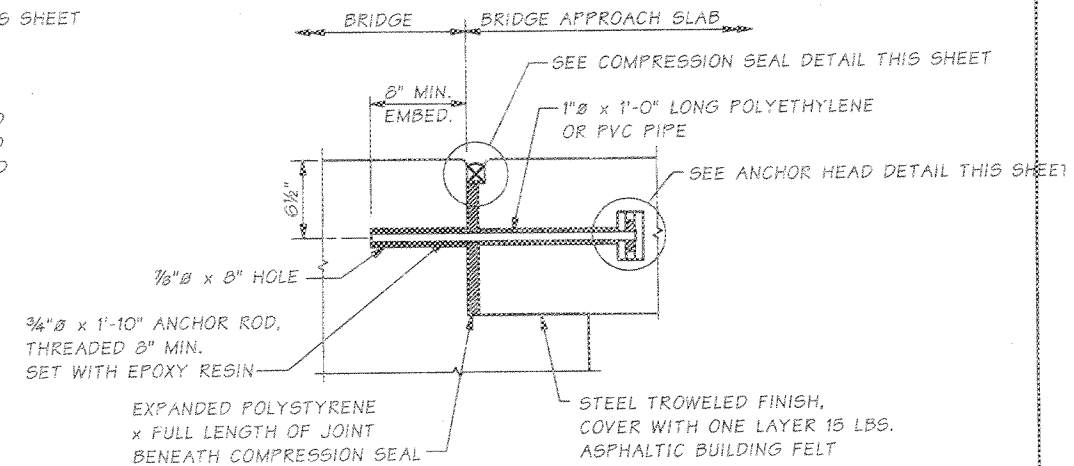


SEMI-INTEGRAL TYPE ABUTMENT



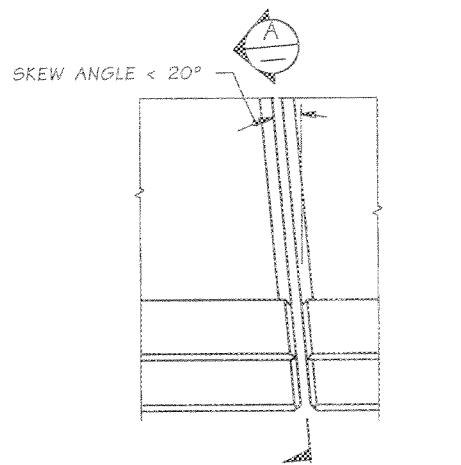
APPROACH ANCHOR - METHOD A

APPROACH ANCHORS SHALL BE INSTALLED PARALLEL TO FINISHED ROADWAY SURFACE AND PARALLEL TO CENTERLINE OF BRIDGE

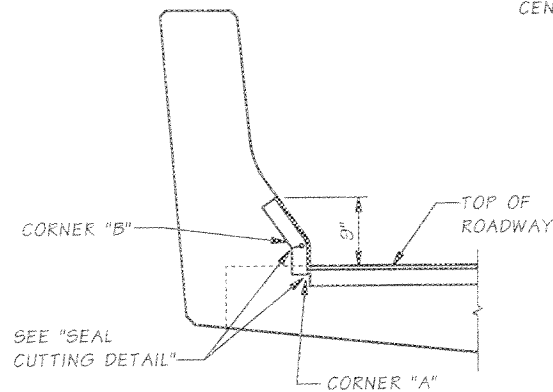


APPROACH ANCHOR - METHOD B

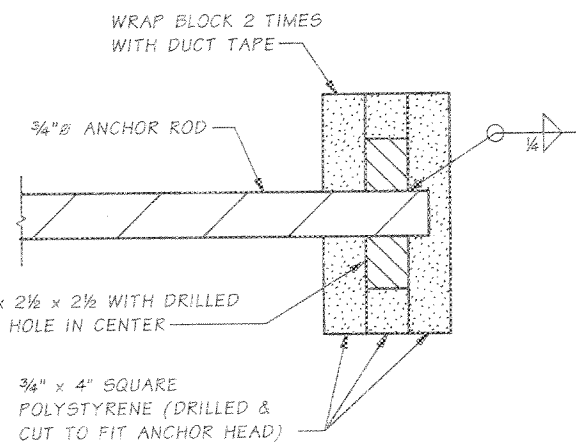
APPROACH ANCHORS SHALL BE INSTALLED PARALLEL TO FINISHED ROADWAY SURFACE AND PARALLEL TO CENTERLINE OF BRIDGE



PLAN EXPANSION JOINT

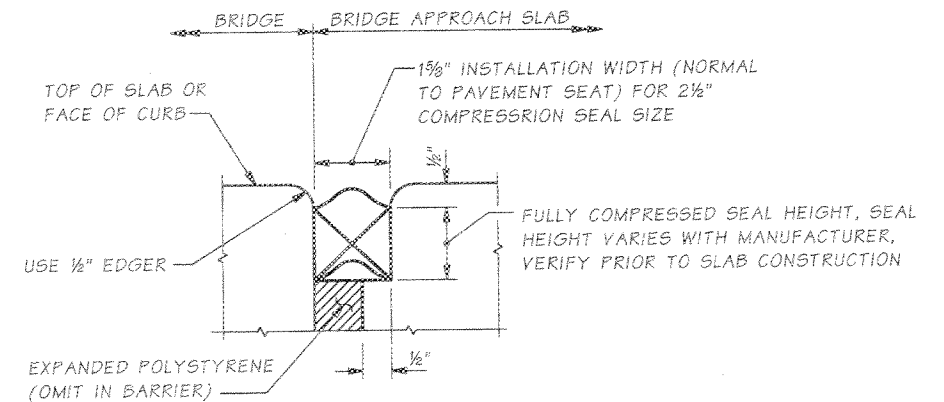


SECTION A

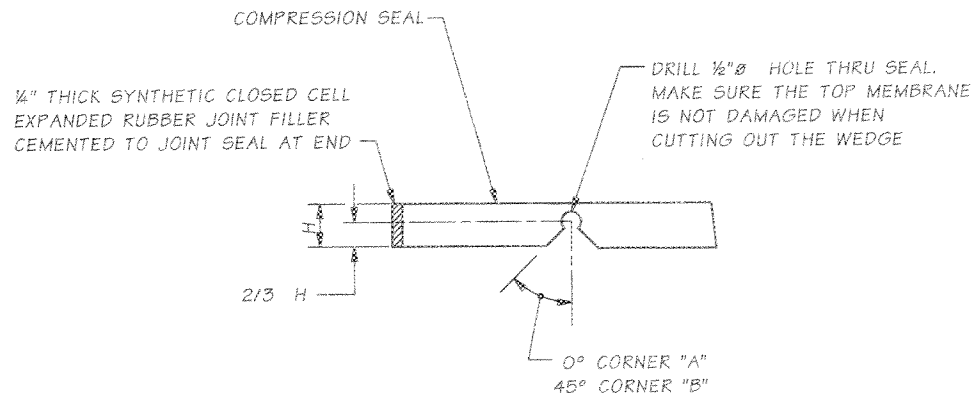


ANCHOR HEAD DETAIL

PAINT METAL COMPONENTS OF APPROACH ANCHOR WITH ONE COAT OF INORGANIC ZINC OR FORMULA A-11-99 PAINT IN ACCORDANCE WITH STD. SPEC. 9-08.2.



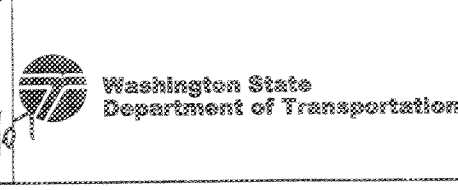
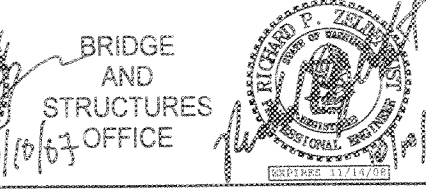
COMPRESSION SEAL DETAIL



SEAL CUTTING DETAIL

SR 522 JOB NO. SHEET BA25

Bridge Design Engr.	Stoddard, RB	M:\Z-Team\522 UWB-CCC\NEW BRIDGE\window files\APPR SLAB2.WND	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP		10	WASH.			
Designed By	Ferluga, E	12/05	JOB NUMBER				
Checked By	Gallagher, P	02/06	07A043				
Detailed By	Andreotti, L.M.	12/05					
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist		DATE	REVISION	BY	APP'D		



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SOUTH CAMPUS WAY OVERCROSSING
APPROACH SLAB DETAILS
2 OF 2

BRIDGE SHEET NO. BA25
SHEET 380 OF 436
DATE

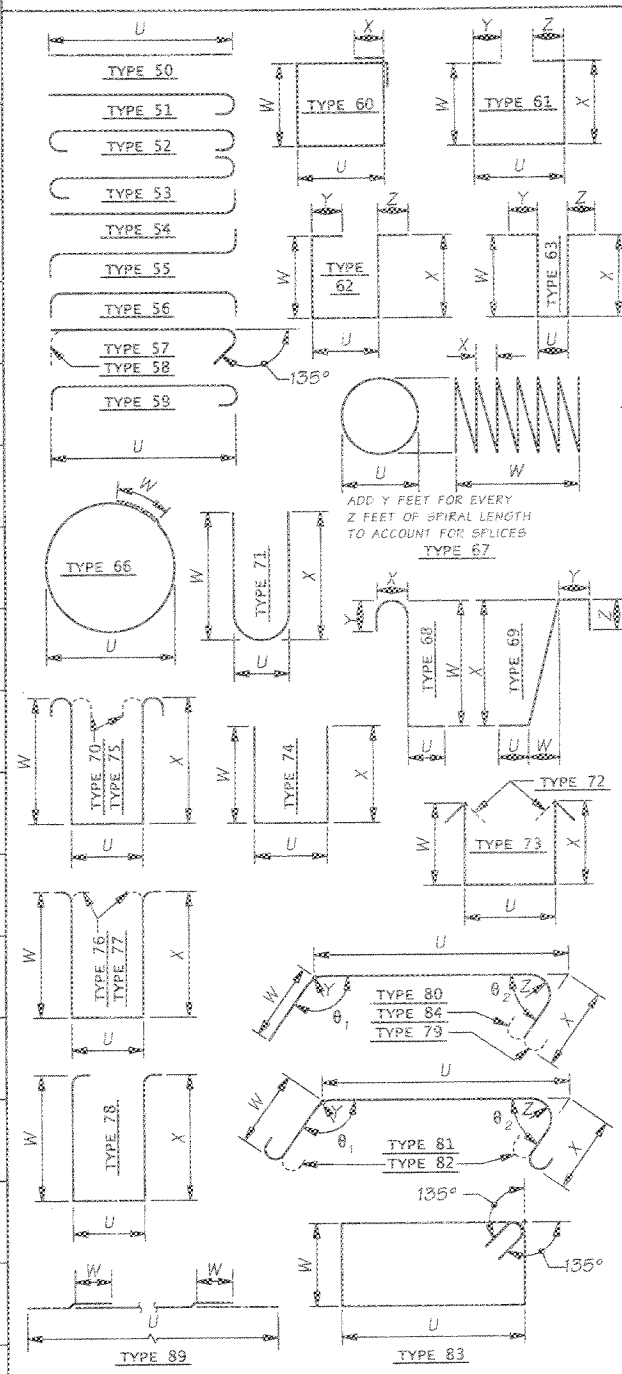
S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic

E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

S = Bar is included in substructure quantities.
L = Lump sum quantity.
T = Transverse or S = Seismic

E = Bar is to be epoxy coated.
V = Bar dimensions vary between dimensions shown on this line and the following line.

BENDING DIAGRAMS



- NOTE:
- ALL REINFORCING BARS ON THIS SHEET SHALL BE ASTM A 706 UNLESS SHOWN OTHERWISE.
 - REINFORCING FOR TRAFFIC BARRIERS NOT SHOWN IN THE BAR LIST, SEE TRAFFIC BARRIER SHEET.
 - BEND FOR TRANSVERSE BARS DUE TO ROADWAY CROWN CONDITIONS HAS NOT BEEN SHOWN. THESE BARS SHALL BE BENT AS REQUIRED TO CONFORM TO THE CONFIGURATION OF THE STRUCTURE.
 - SIZE, NUMBER AND LENGTH OF BARS TO BE DETERMINED BY THE CONTRACTOR FROM PLANS.

MARK NO.	LOCATION	SIZE	NO. REQ'D	BEND TYPE	TIE OR SPLICING	LUMP SUM	EPOXY COAT	VARIES	DIMENSIONS (Out to Out)										LENGTH	WEIGHT					
									U		W		X		Y		Z				θ ₁	θ ₂	Ft.	In.	Lbs.
									Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.							
SUBSTRUCTURE																									
PIER 1																									
-- PIER 1 FOOTING																									
1	BOTTOM - LONGITUDINAL	9	42	50	S				11	9.0						11	9	1678							
2	TOP - LONGITUDINAL	7	42	50	S				11	9.0						11	9	1009							
3	TOP & BOTTOM - TRANSVERSE	6	26	50	S				33	9.0						33	9	1318							
-- PIER 1 STEM																									
10	FAR FACE - VERTICAL	9	40	54	S				10	0.0						11	4	1540							
11	FAR FACE - VERTICAL	6	40	50	S			V 1	12	5.0						12	5	681							
12	NEAR FACE - VERTICAL	5	40	54	S				10	3.0						10	3	473							
13	NEAR FACE - VERTICAL	5	40	50	S			V 1	12	5.0						12	5	526							
15	NEAR FACE - HORIZONTAL	5	16	50	S				16	6.0						16	6	49							
16	FAR FACE - HORIZONTAL	5	16	52	S				31	6.0						31	6	545							
17	FAR FACE - HORIZONTAL	5	2	52	S			V 1	15	8.0						15	8	51							
18	ABUT. SEAT - HORIZONTAL	5	3	50	S				31	7.0						31	7	99							
19	WALL - TIE	4	172	58	S				2	2.0	0	6.0	0	6.0		2	4	382							
20	ABUT. SEAT - TIE	5	40	74	T				2	1.0						2	10	120							
21	GIRDER STOP - HORIZONTAL	5	18	74	T				2	1.0	2	4.0	2	4.0		2	9	123							
-- PIER 1 RT. CURTAIN WALL																									
30	FAR FACE - HORIZONTAL	7	31	81	S				5	10.5	3	9.0		0	3.5	175	10	5	660						
31	NEAR FACE - HORIZONTAL	5	31	80	S				5	10.5	3	9.0		3	0.0	175	9	8	311						
32	FAR FACE - VERTICAL	7	8	50	S				18	0.0						18	0	294							
33	NEAR FACE - VERTICAL	5	8	50	S				18	0.0						18	0	150							
34	FAR FACE - VERT. HOOK	7	8	54	S				10	0.0						10	12	180							
35	NEAR FACE - VERT. HOOK	5	8	50	S				10	0.0						10	0	83							
37	CORNER	5	25	80	S				3	3.0	1	9.0	1	9.0	0	3.0	135	135	174						
39	BOTH FACE - VERTICAL	5	6	50	S				23	0.0						23	0	144							
-- PIER 1 LT. CURTAIN WALL																									
30	FAR FACE - HORIZONTAL	7	29	82	S				5	10.5	3	9.0		0	3.5	175	10	5	618						
31	NEAR FACE - HORIZONTAL	5	29	80	S				5	10.5	3	9.0		3	0.0	175	9	8	291						
32	FAR FACE - VERTICAL	7	8	50	S				15	9.0						15	9	258							
33	NEAR FACE - VERTICAL	5	8	50	S				15	9.0						15	9	131							
34	FAR FACE - VERT. HOOK	7	5	54	S				10	0.0						10	12	112							
35	NEAR FACE - DOWELS	5	8	50	S				10	0.0						10	0	83							
37	CORNER	5	23	80	S				3	3.0	1	0.0	1	0.0	0	3.0	135	135	124						
39	BOTH FACE - VERTICAL	5	6	50	S				23	0.0						23	0	144							
PIER 2																									
-- PIER 2 FOOTING																									
1	BOTTOM - LONGITUDINAL	10	42	50	S				16	9.0						16	9	3027							
2	TOP - LONGITUDINAL	8	42	50	S				16	9.0						16	9	1878							
3	TOP & BOTTOM - TRANSVERSE	6	26	50	S				33	9.0						33	9	1318							
-- PIER 2 STEM																									
10	FAR FACE - VERTICAL	11	40	54	S				10	0.0						11	8	2476							
11	FAR FACE - VERTICAL	7	40	54	S			V 1	15	6.0						16	6	1552							
12	FAR FACE - VERTICAL	5	40	54	S				20	6.0						21	6	447							
13	NEAR FACE - VERTICAL	5	40	50	S			V 1	15	6.0						15	6	751							
15	NEAR FACE - HORIZONTAL	5	21	50	S				31	6.0						31	6	690							
16	FAR FACE - HORIZONTAL	5	2	50	S			V 1	12	10.0						12	10	42							
16	FAR FACE - HORIZONTAL	5	21	52	S				27	7.0						27	7	715							
17	ABUT. SEAT - HORIZONTAL	5	3	50	S				31	7.0						31	7	99							
18	WALL - TIE	4	219	58	S				2	2.0	0	6.0	0	6.0		2	4	486							
19	ABUT. SEAT - TIE	5	40	74	T				2	1.0						2	10	120							
20	GIRDER STOP - TIE	5	18	74	T				2	1.0	2	0.0	2	0.0		2	10	110							
21	GIRDER STOP - HORIZONTAL	5	12	50	S				2	9.0						2	9	34							
-- PIER 2 RT. CURTAIN WALL																									
30	FAR FACE - HORIZONTAL	7	35	81	S				5	10.5	3	9.0		0	3.5	175	10	5	746						
31	NEAR FACE - HORIZONTAL	5	35	80	S				5	10.5	3	9.0		3	0.0	175	9	8	351						
32	FAR FACE - VERTICAL	7	11	50	S				22	11.0						22	11	515							
33	NEAR FACE - VERTICAL	5	11	50	S				22	11.0						22	11	263							

MARK NO.	LOCATION	SIZE	NO. REQ'D	BEND TYPE	TIE OR SPLICING	LUMP SUM	EPOXY COAT	VARIES	DIMENSIONS (Out to Out)										LENGTH	WEIGHT					
									U		W		X		Y		Z				θ ₁	θ ₂	Ft.	In.	Lbs.
									Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.							
SUBSTRUCTURE																									
-- PIER 2 LT. CURTAIN WALL																									
30	FAR FACE - HORIZONTAL	7	33	82	S				5	10.5	3	9.0		0	3.5	175	10	5	703						
31	NEAR FACE - HORIZONTAL	5	33	80	S				5	10.5	3	9.0		3	0.0	175	9	8	331						
32	FAR FACE - VERTICAL	7	11	50	S				20	11.0						20	11	470							
33	NEAR FACE - VERTICAL	5	11	50	S				20	11.0						20	11	240							
34	FAR FACE - VERT. HOOK	7	11	54	S				10	6.0						11	6	258							
35	NEAR FACE - VERT. HOOK	5	11	54	S				10	6.0						11	2	129							
37	CORNER	5	27	80	S				3	3.0	1	9.0	1	9.0	0	3.0	135	135	188						
SUPERSTRUCTURE																									
-- END DIAPHRAGMS (2)																									
101	LONGITUDINAL - TOP	6	4	52	E				31	6.0						32	10	198							
102	LONGITUDINAL - BOTH FACES	4	20	50	E				29	5.0						29	5	393							
103	LONGITUDINAL - BOTTOM	6	4	50	E				29	5.0						29	5	177							
105	TIE - TOP	4	48	56	T				2	0.0						2	7	83							
106	STIRRUP - FRONT FACE	4	48	74	T				4	10.0	6	0.0	2	0.0		12	8	406							
107	STIRRUP - BACK FACE	4	96	54	T				6	4.0						6	8	425							
-- INTERMEDIATE DIAPHRAGMS (3)																									
201	LONGITUDINAL - TOP	6	6	50	E				26	4.0						26	4	237							
202	LONGITUDINAL - BOTH FACES	4	48	50	E				5	6.0						5	6	176							
203	LONGIT. - BOT. (BTWN. GIR.)	6	24	50	E				5	6.0						5	6	198							
203	LONGIT. - BOT. (THRU GIR.)	6	18	50	E				5	10.0						5	10	158							
204	TIE	4	56	71	T				0	5.0	1	9.0	1	9.0		5	8	137							
205	STIRRUP	4	84	71	T				0	5.0	3	8.0	3	8.0		7	6	421							
-- BOTTOM MAT ROADWAY SLAB																									
301	LONGITUDINAL	4	40	89	E				129	4.0	2	0.0				135	4	3616							
302	TRANSVERSE	5	170	50	E				30	0.0						30	0	5319							
-- TOP MAT ROADWAY SLAB																									
401	LONGITUDINAL	4	40	89	E				129	4.0	2	6.0				136	10	3656							
402	TRANSVERSE	5	171	52	E				31	3.0						32	3	3778							
403	TRANSVERSE - OVERHANG	5	171	51	E				6	0.0						6	7	1172							
S1	BARRIER BARS	5	346	69	E				1	0.0	0	11.0	1	5.0	6	3.0	8	7	3192						
S2	BARRIER BARS	4	174	69	E				1	0.0	0	2.0	1	5.0		2	4	272							