

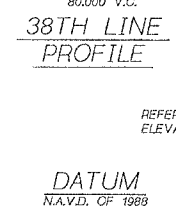
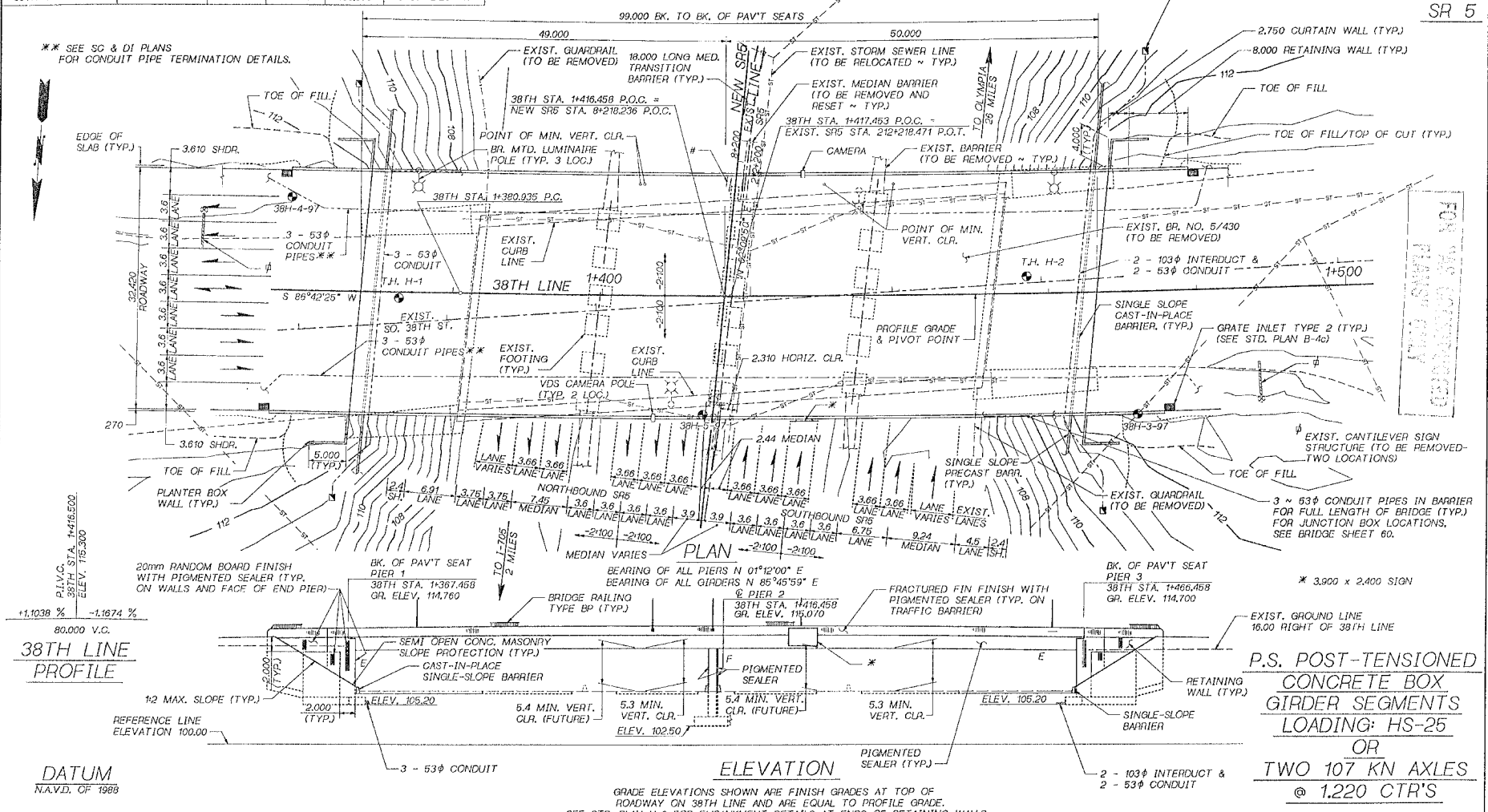
CURVE DATA						
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.	
NEW SR5 7+963.629	5°47'20" RT.	7448.487	376.600	782.559	N 3°37'30" W	
38TH 1+472.935	4°40'57" LT.	2250.199	92.000	183.898	S 86°42'25" W	

SEC. 17&18, T.20N., R.3E., W.M.
CITY OF TACOMA

PULL BOX, CABLE VAULT, AND JUNCTION BOXES SHALL NOT BE PLACED IN PAVEMENT. ALL CONDUIT UNDER ROADWAY SHALL BE GALVANIZED RIGID STEEL. ALL BENDS IN THE INTERDUCT SHALL USE FACTORY BENDS.

SR 5

** SEE SC & DI PLANS FOR CONDUIT PIPE TERMINATION DETAILS.



GRADE ELEVATIONS SHOWN ARE FINISH GRADES AT TOP OF ROADWAY ON 38TH LINE AND ARE EQUAL TO PROFILE GRADE. SEE STD. PLAN H-9 FOR EMBANKMENT DETAILS AT ENDS OF RETAINING WALLS.

Bridge Design Engr. c.c.a.	3/97	SR38TH OVERDOT 1 FGB, SR38TH TWP, SR38TH BSD, CIM FGB	10	WASH.				
Supervisor J.A. VAN LIND								
Designed by JR. MERTH								
Checked by TAM MOORE								
Detailed by G.A.T. WALDRON	2/97							
Bridge Projects Engr. K. M. KIRWER	3/97							
Proj. Mgr. A. CHU	2/97							
Architect/Specialist A. YOUNG	3/97							

BRIDGE AND STRUCTURES OFFICE



Washington State Department of Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT
LAYOUT

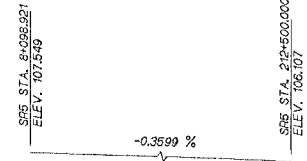
SHEET NO.	1
TOTAL SHEETS	134
DATE	3/14/00

12-J17-00
JOB NO. 7179 SHEET 1

C.S. 2799 ~ PROJ. NO. 012777 ~ OLYMPIC REGION ~ M.P. 131.44 TO M.P. 132.27 ~ SR 5 ~ S. 38TH ST. U-XING BR. NO. 57430 REPL.

GENERAL NOTES

- 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-METRIC DATED 2000, AND AMENDMENTS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES SIXTEENTH EDITION - 1996 AND INTERIMS THROUGH 1998. ALL PRESTRESSED CONCRETE ELEMENTS HAVE BEEN DESIGNED FOR SERVICE LOAD STRESSES AND CHECKED FOR THE REQUIREMENTS OF LOAD FACTOR DESIGN. ALL OTHER STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR LOAD FACTOR DESIGN. SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN DESIGNED USING AN ACCELERATION COEFFICIENT OF 0.30 AND SOIL PROFILE TYPE II.
- THE CONCRETE IN THE ROADWAY DECK, DIAPHRAGMS, CROSSBEAM & CLOSURES SHALL BE CLASS 35. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 28.
- THE MAXIMUM DESIGN SOIL PRESSURE IS 580 kPa AT PIERS 1 & 3 AND 1160 kPa AT PIER 2. THE MAXIMUM DESIGN SOIL PRESSURES NOTED HAVE A FACTOR OF SAFETY OF 2.0.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDE STRESS IN THE STRUCTURE. THE CONCRETE FOR TRAFFIC BARRIER SHALL NOT BE PLACED UNTIL THE FALSEWORK HAS BEEN RELEASED. THE TEMPORARY FALSEWORK SUPPORTS SHALL BE DESIGNED AND DETAILED TO CARRY THE ENTIRE TRIBUTARY DEAD LOAD WEIGHT OF THE BRIDGE SUPERSTRUCTURE (EXCEPT TRAFFIC BARRIERS) PLUS CONSTRUCTION LOADS.
- 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 65 mm AT THE TOP OF THE ROADWAY SLAB, 25 mm AT THE BOTTOM OF THE ROADWAY SLAB, 75 mm AT THE BOTTOM OF FOOTING, 50 mm AT THE TOP OF FOOTINGS AND 40 mm AT ALL OTHER LOCATIONS.
- ALL DIMENSIONS SHOWN WITHOUT DECIMALS ARE IN MILLIMETERS AND ALL DIMENSIONS SHOWN WITH DECIMALS ARE IN METERS.
- THE BACKFILL AT PIERS 1 AND 3 MAY BE PLACED TO THE TOP OF THE ABUTMENT WALLS PRIOR TO SETTING THE SUPERSTRUCTURE.



FUTURE SR5 PROFILE

LEGEND (BY OTHERS)

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

FOR "AS CONSTRUCTED PLANS" ONLY

EXISTING SOUTHBOUND - SR 5 ELEVATIONS

EXIST. SR5 STATION	SOUTHBOUND SR5 EDGE OF PAVEMENT		SCUTHBOUND SR5 EDGE OF PAVEMENT		SOUTHBOUND CD EDGE OF PAVEMENT		SOUTHBOUND CD EDGE OF PAVEMENT	
	LEFT OFFSET	ELEVATION	LEFT OFFSET	ELEVATION	LEFT OFFSET	ELEVATION	LEFT OFFSET	ELEVATION
212+181.000	2.511	107.401	13.368	107.401	19.710	107.482	-	-
212+184.000	2.513	107.395	13.366	107.379	19.703	107.459	32.341	107.171
212+187.000	2.513	107.388	13.362	107.364	19.698	107.433	32.051	107.174
212+190.000	2.521	107.379	13.354	107.366	19.694	107.401	31.761	107.178
212+193.000	2.529	107.371	13.346	107.369	19.691	107.370	31.545	107.181
212+196.000	2.537	107.363	13.338	107.372	19.687	107.339	31.427	107.184
212+199.000	2.536	107.363	13.337	107.361	19.685	107.320	31.309	107.187
212+202.000	2.529	107.370	13.345	107.339	19.687	107.302	31.400	107.164
212+205.000	2.522	107.363	13.348	107.323	19.692	107.279	31.502	107.139
212+208.000	2.514	107.346	13.352	107.308	19.697	107.267	31.604	107.115
212+211.000	2.507	107.329	13.356	107.293	19.702	107.234	31.706	107.091
212+214.000	2.500	107.312	13.359	107.278	19.708	107.212	31.808	107.066
212+217.000	2.492	107.298	13.363	107.263	19.713	107.189	31.910	107.042
212+220.000	2.485	107.279	13.366	107.247	19.718	107.167	32.011	107.018
212+223.000	2.477	107.262	13.370	107.232	19.723	107.144	32.113	106.993
212+226.000	2.470	107.246	13.374	107.217	19.729	107.122	32.215	106.969
212+229.000	2.462	107.229	13.377	107.202	19.734	107.099	32.317	106.945
212+232.000	2.455	107.212	13.381	107.187	19.739	107.077	32.419	106.920
212+235.000	2.448	107.196	13.394	107.171	19.744	107.054	32.521	106.893
212+238.000	2.440	107.179	13.379	107.165	19.733	107.074	32.627	106.931
212+241.000	2.442	107.166	13.369	107.164	19.718	107.101	32.823	106.938
212+244.000	2.456	107.157	13.357	107.164	19.703	107.128	32.961	106.944
212+247.000	2.469	107.149	13.350	107.163	19.695	107.139	33.111	106.938
212+250.000	2.483	107.140	13.348	107.164	19.694	107.134	33.262	106.931
212+253.000	2.496	107.131	13.346	107.165	19.693	107.128	33.412	106.924

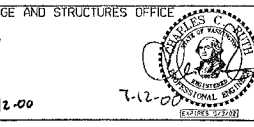
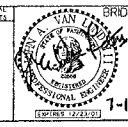
EXISTING NORTHBOUND - SR 5 ELEVATIONS

EXIST. SR5 STATION	NORTHBOUND SR5 EDGE OF PAVEMENT		NORTHBOUND SR5 EDGE OF PAVEMENT		NORTHBOUND CD EDGE OF PAVEMENT		NORTHBOUND CD EDGE OF PAVEMENT	
	RIGHT OFFSET	ELEVATION	RIGHT OFFSET	ELEVATION	RIGHT OFFSET	ELEVATION	RIGHT OFFSET	ELEVATION
212+181.000	2.440	107.383	13.331	107.466	19.601	107.303	-	-
212+184.000	2.429	107.375	13.326	107.454	19.607	107.287	33.311	107.054
212+187.000	2.425	107.369	13.321	107.443	19.614	107.270	33.176	107.052
212+190.000	2.426	107.338	13.314	107.434	19.620	107.253	33.075	107.057
212+193.000	2.428	107.316	13.306	107.427	19.627	107.237	32.973	107.062
212+196.000	2.430	107.294	13.299	107.419	19.621	107.235	32.873	107.065
212+199.000	2.444	107.280	13.291	107.411	19.612	107.237	32.774	107.065
212+202.000	2.462	107.280	13.287	107.398	19.603	107.240	32.675	107.065
212+205.000	2.476	107.285	13.283	107.384	19.594	107.242	32.576	107.065
212+208.000	2.477	107.269	13.283	107.370	19.586	107.240	32.476	107.065
212+211.000	2.478	107.253	13.285	107.355	19.580	107.221	32.387	107.064
212+214.000	2.479	107.238	13.287	107.340	19.575	107.202	32.313	107.062
212+217.000	2.480	107.222	13.288	107.326	19.569	107.183	32.239	106.998
212+220.000	2.481	107.206	13.290	107.311	19.563	107.164	32.165	106.967
212+223.000	2.482	107.190	13.291	107.296	19.558	107.146	32.091	106.938
212+226.000	2.483	107.174	13.293	107.281	19.552	107.127	32.017	106.909
212+229.000	2.484	107.158	13.295	107.267	19.547	107.108	31.943	106.880
212+232.000	2.485	107.142	13.296	107.252	19.541	107.089	31.869	106.851
212+235.000	2.486	107.126	13.298	107.237	19.535	107.070	31.795	106.822
212+238.000	2.487	107.110	13.300	107.222	19.530	107.051	31.721	106.793
212+241.000	2.487	107.102	13.301	107.209	19.525	107.033	31.647	106.764
212+244.000	2.485	107.100	13.302	107.199	19.543	107.028	31.686	106.752
212+247.000	2.484	107.098	13.303	107.189	19.560	107.024	31.923	106.768
212+250.000	2.483	107.096	13.304	107.177	19.578	107.019	32.169	106.785
212+253.000	2.481	107.095	13.305	107.168	19.595	107.015	-	-

SR 5 JOB NO. 7179 SHEET 2

Bridge Design Engr. CD. RUTH	3/97	S038TH-DNR02T (P&B, S038TH-LW0) S038TH-TABLE ELEV.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	J.A. VAN LIND		10 WASH.			
Designed by	J.R. MERTH		JOB NUMBER			
Checked by	P. D. BRAXMEYER	2/27	00C627			
Detailed by	D. A. T. WALDRON	2/97	5935			
Bridge Projects Engr. KM. KIRKER	3/97					
Prelim. Plan by	A. CHU	2/97				
Architect/ Specialist	A. YOUNG	3/97	DATE	REVISION	BY	APP'D

DATE: 7-12-00

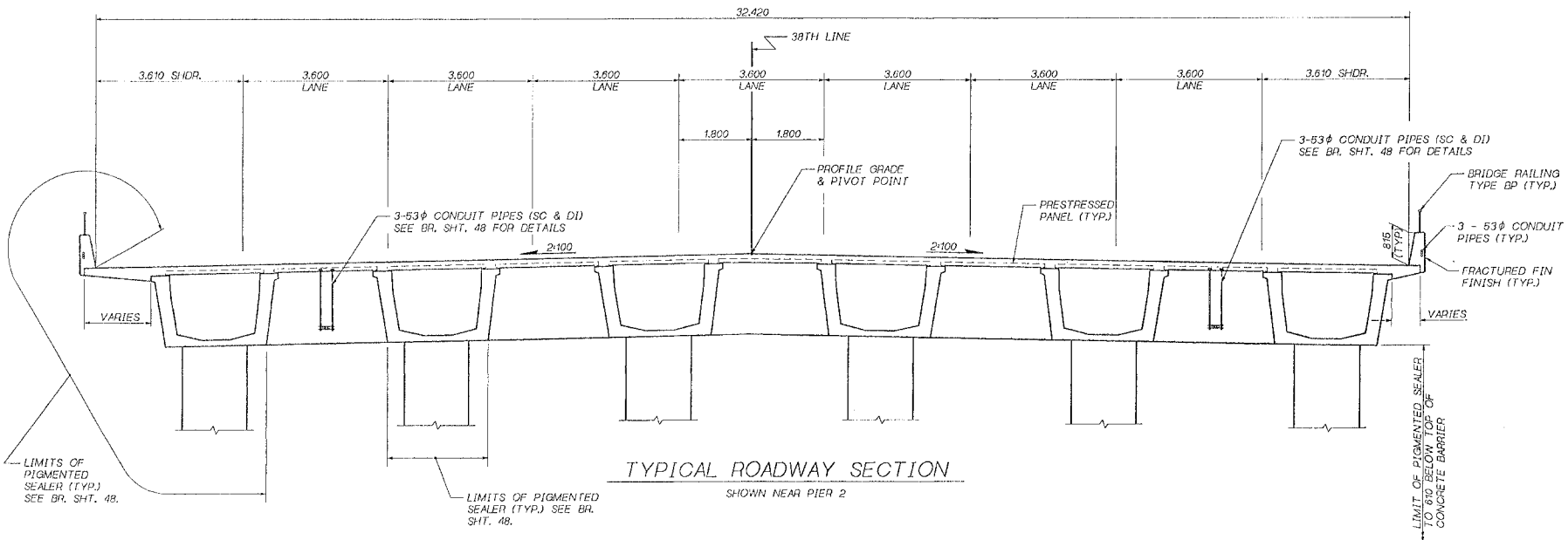


Washington State Department of Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT
GENERAL NOTES & TABLE OF ELEVATIONS

SHEET NO. 2
OF 34
SHEETS

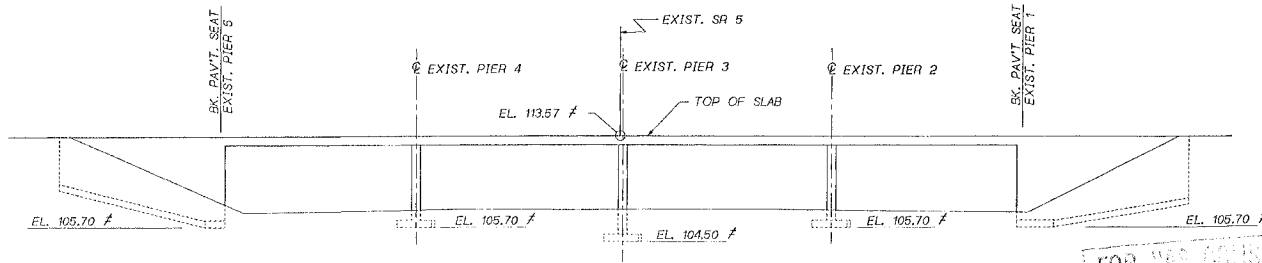
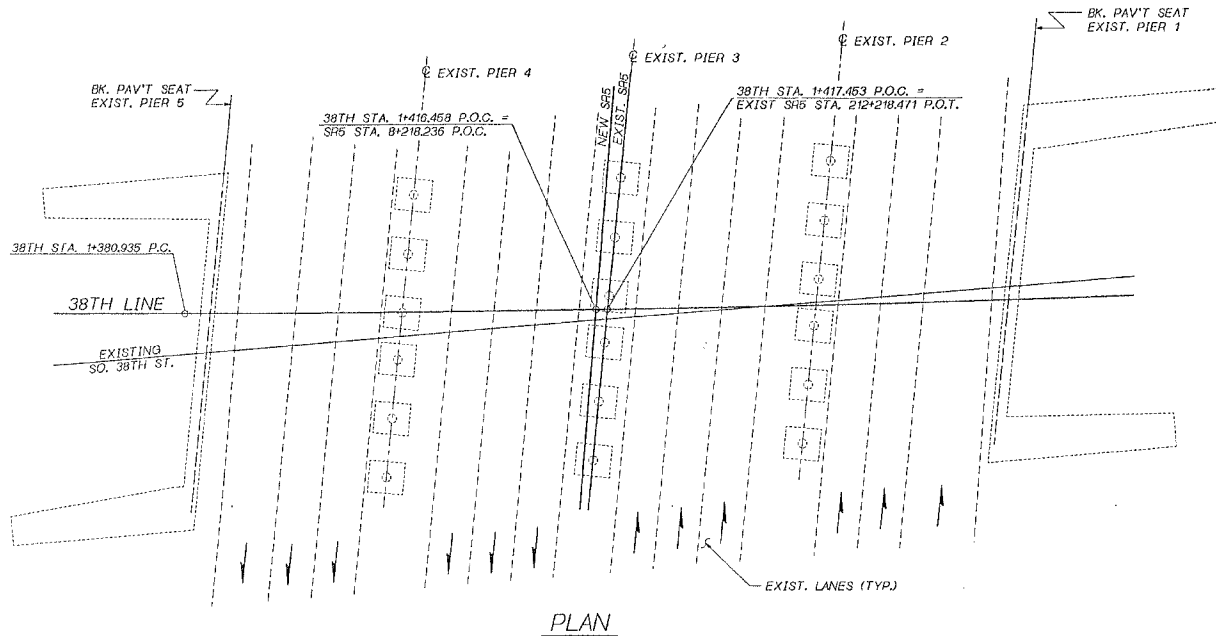
SR 5 JOB NO. 7179 SHEET 3



FOR "AS CONSTRUCTED PLANS" ONLY

Bridge Design Engr. G. G. RUTH Supervisor J. A. VAN LOND Designed by J.R. MERTH Checked by I.M. MOORE Detailed by L. ANGEOTTI Bridge Projects Engr. Prim. Pich By Architect/Speciaist	SD38TH(ENR)01-L.FGB.SD38TH(TWO)TYPICAL_SECTION.FGB	SHEET NO. 10	STATE WASH.	FED. AND PROJ. NO.	SHEET NO. 3	TOTAL SHEETS 3	BRIDGE AND STRUCTURES OFFICE 7-11-00 7-12-00	 Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT TYPICAL SECTION	SHEET NO. 3 OF 34 SHEETS	
DATE _____ REVISION _____ BY _____ APP'D _____											

72-JL-00



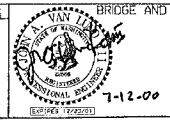
FOR "AS CONSTRUCTED PLANS" ONLY

ELEVATION
GROUNDLINE SHOWN AT EXIST. SR 5 STA. 212+200
ELEVATIONS SHOWN AT EXIST. 38TH LINE

ELEVATIONS SHOWN ARE BASED ON AS-BUILT PLANS
ADJUSTED TO DATUM DIFFERENCE OF APPROX. 3.1 METERS.

SR 5 JOB NO. 7179 SHEET 4

Bridge Design Engr. G. C. RUTH	SD38TH OVERROOT I.F.G. SR38TH TWO EXIST. 38TH.F.G. 1	RESION NO.	STATE	FED. AID PROJ. NO.	DATE	DATE
Supervisor J. A. VAN LUND			10 WASH.			
Designed By T.M. MOORE 7/97						
Checked By J. MERTH 3/98						
Detalled by V.B. SCHICCHI 8/97						
Bridge Projects Engr.						
Prelim. Plans By						
Architect/Specalist		DATE	REVISION	BY	APP'D	
					5935	



SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT		SHEET 137 OF 314 SHEETS
EXISTING FOUNDATION PLAN		

12-717-00

CONSTRUCTION SEQUENCE

STEP A

1. CONSTRUCT SUBSTRUCTURE INCLUDING FOOTINGS, WALLS AND COLUMNS.
2. BACKFILL PIER 2 FOOTING.
3. CONSTRUCT TEMPORARY FALSEWORK SUPPORTS FOR PRECAST SEGMENTS INCLUDING PIER 2.

STEP B

1. PLACE P.C. SEGMENTS ON TEMPORARY SUPPORTS AND ON FABRIC PAD BEARINGS AT PIERS 1 AND 3.
2. CAST BOTTOM SLAB AT SPAN CLOSURES.
3. CONSTRUCT GIRDER STOPS AT PIERS 1 AND 3.
4. CONSTRUCT END DIAPHRAGMS AND ANCHORAGE BLOCKS AT PIERS 1 AND 3.
5. SET PRESTRESSED DECK FORM PANELS.

STEP C

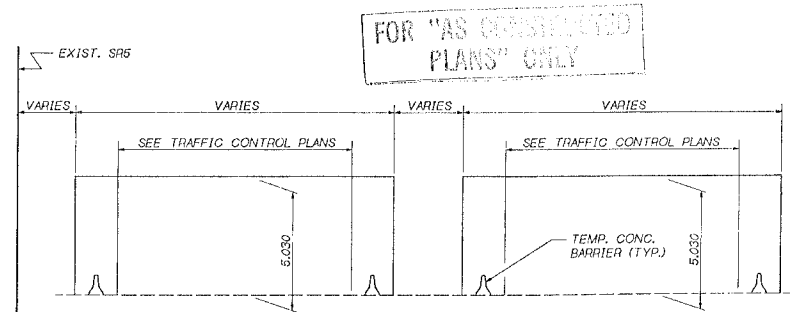
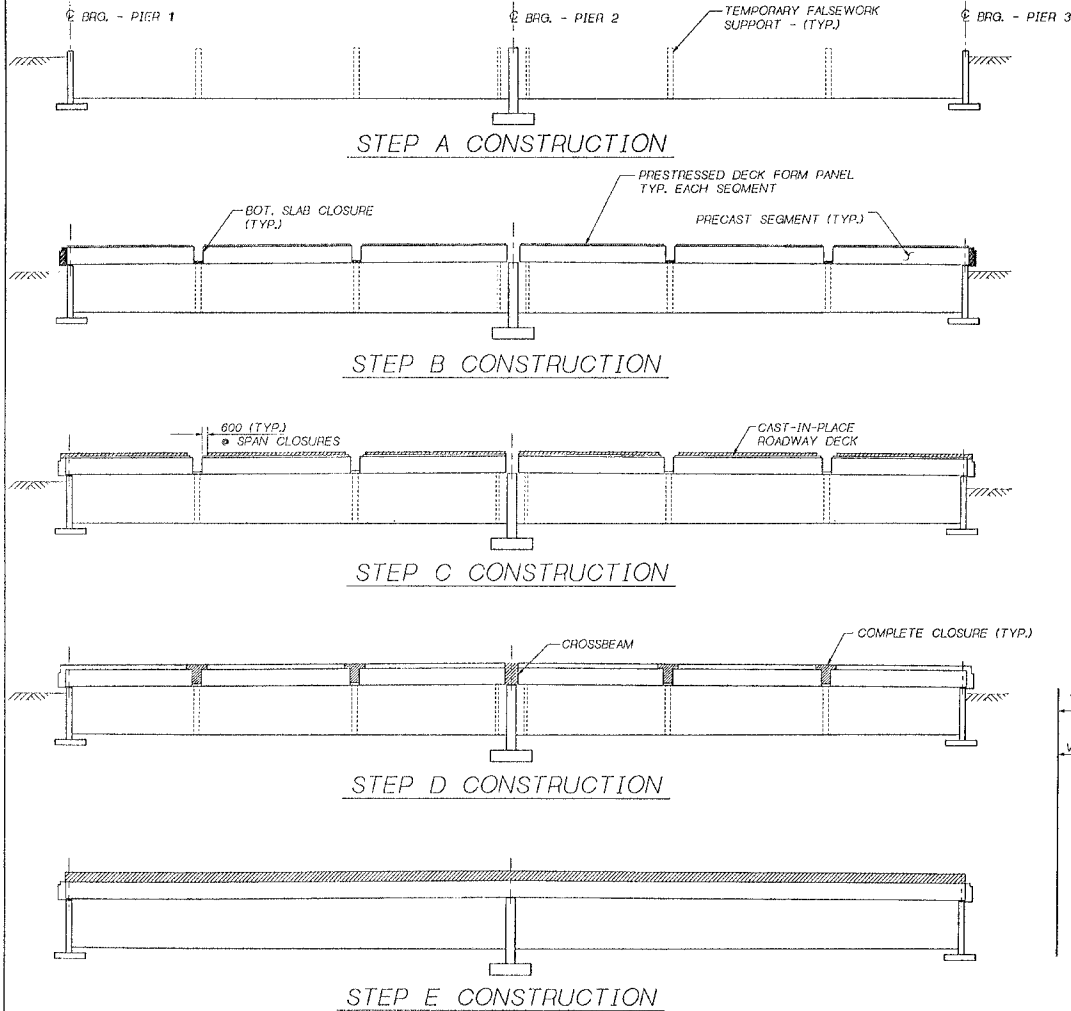
1. CAST ROADWAY SLAB EXCEPT AT PIER 2 AND SPAN CLOSURES AFTER STEP B CLOSURE CONCRETE HAS ATTAINED A STRENGTH OF 14 MPa. CAST ROADWAY SLAB TO WITHIN 600mm OF SPAN CLOSURES. ROADWAY SLAB CAMBER IS BASED ON SEGMENT DEFLECTIONS AT 120 DAYS AFTER PRESTRESSING HAS BEEN RELEASED. STD. SPEC. PROVISIONS SHALL APPLY IF SLAB IS CAST BEYOND THE 120 DAY ESTIMATE.

STEP D

1. CAST CROSSBEAM TO TOP OF P.C. SEGMENTS AS SHOWN ON CROSSBEAM DETAIL.
2. CAST WEBS AND INTERMEDIATE DIAPHRAGM AT CLOSURES.
3. CAST ROADWAY SLAB AT CLOSURES AND AT PIER 2 A MINIMUM OF 24 HOURS AFTER INITIAL CROSSBEAM PLACEMENT AND INTERMEDIATE DIAPHRAGM PLACEMENT.

STEP E

1. STRESS AND GROUT POST-TENSIONING TENDONS AFTER CLOSURE CONCRETE HAS ATTAINED A STRENGTH OF 28 MPa.
2. CAST CONCRETE COVER AT ANCHORAGE BLOCKS.
3. REMOVE TEMPORARY FALSEWORK SUPPORTS AT PIER 2 AND SPAN CLOSURES.
4. PLACE TRAFFIC BARRIER AND BRIDGE RAILING TYPE BR.



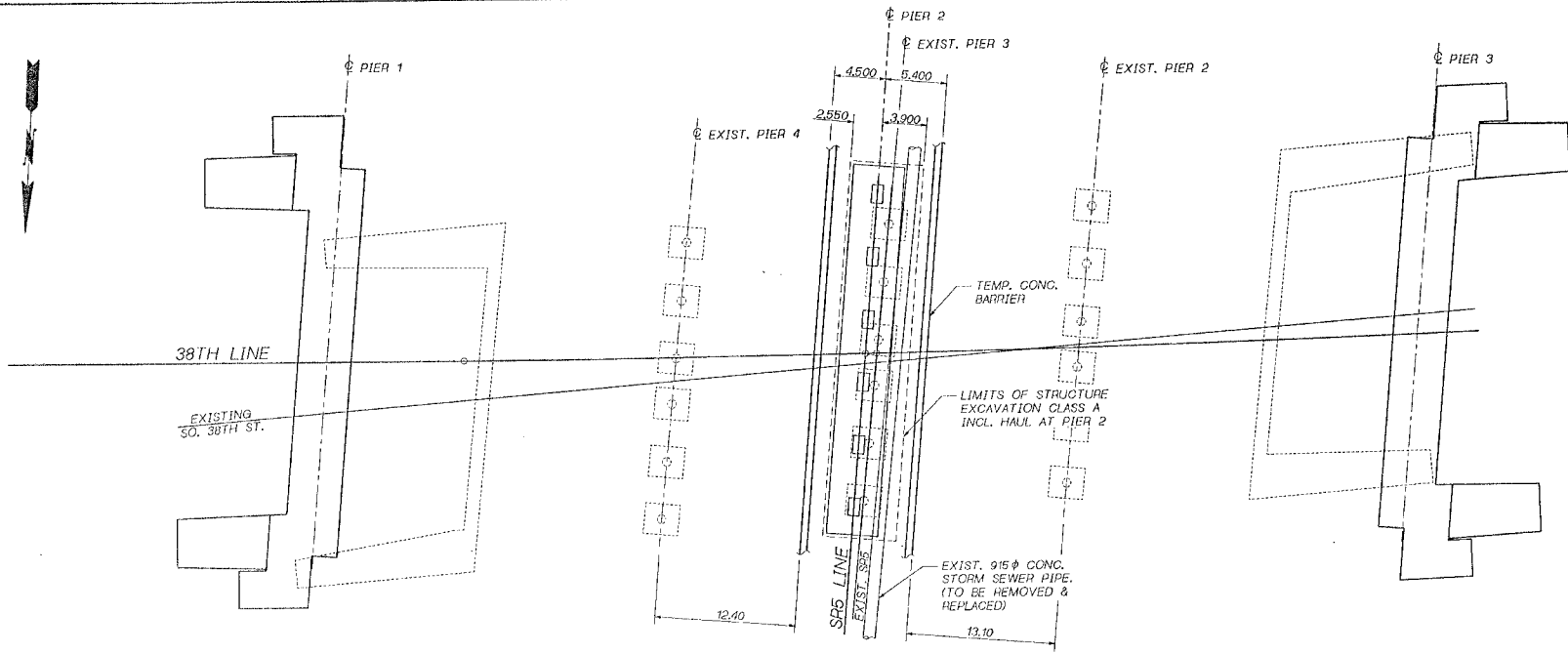
CONSTRUCTION OPENING DIAGRAM

NORTHBOUND LANES SHOWN. SOUTHBOUND LANES SIMILAR.

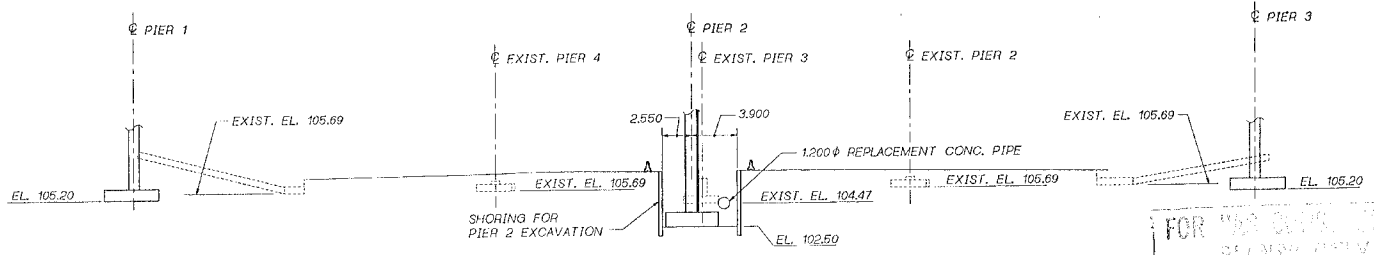
SEE BR. SHT. 8 FOR CONSTRUCTION OPENING DIMENSIONS.

SHEET NO. 7179 SHEET 6

Bridge Design Engr. GCA Supervisor J. A. VAN LUND Designed By J. MERTH 2/98 Checked By T.M. MOONE 3/98 Detailed By L. ANDREOTTI 5/99 Bridge Projects Engr. Program Plan By Architect/Supervisor	5038TH ONEROOT (FGB, 5038TH TWO) STAGE CONSTR. FGB: 1 REGION NO. STATE FED. AID PROJ. NO. DIST. NO. TOTAL SHEETS 10 WASH. 5935 JOB NUMBER 00C527 DATE REVISION BY APP'D	BRIDGE AND STRUCTURES OFFICE 7-12-00 7-12-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT CONSTRUCTION SEQUENCE	SHEET NO. 6 SHEET 309 OF 314 54133
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PLAN



ELEVATION

GROUNDLINE SHOWN AT EXIST. SR 5 STA. 212+200
ELEVATIONS SHOWN AT EXIST. 38TH LINE

FOR '98 CIVIL ENGR. BOARD PLANS' ONLY

SR 5 JOB NO. 1119 SHEET 7

Bridge Design Eng. C. C. RUTH	SR5 SR5 OVERROOT (FIB. SR5 SR5 L. TWO) FIB. REMOVAL FIB. 1	SECTION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN WARD			10 WASH			
Designed by T.M. WOOKE 7/97						
Checked by J. MERTH 3/98						
Detailled by L. MARROTTI						
Bridge Projects Eng.						
Drawn. Plan By						
Architect/Specialist	DATE	REVISION	BY	APP'D	5935	

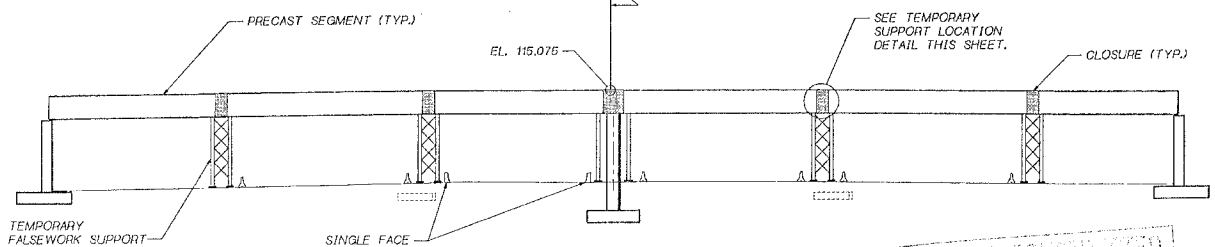
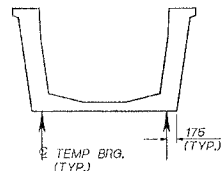
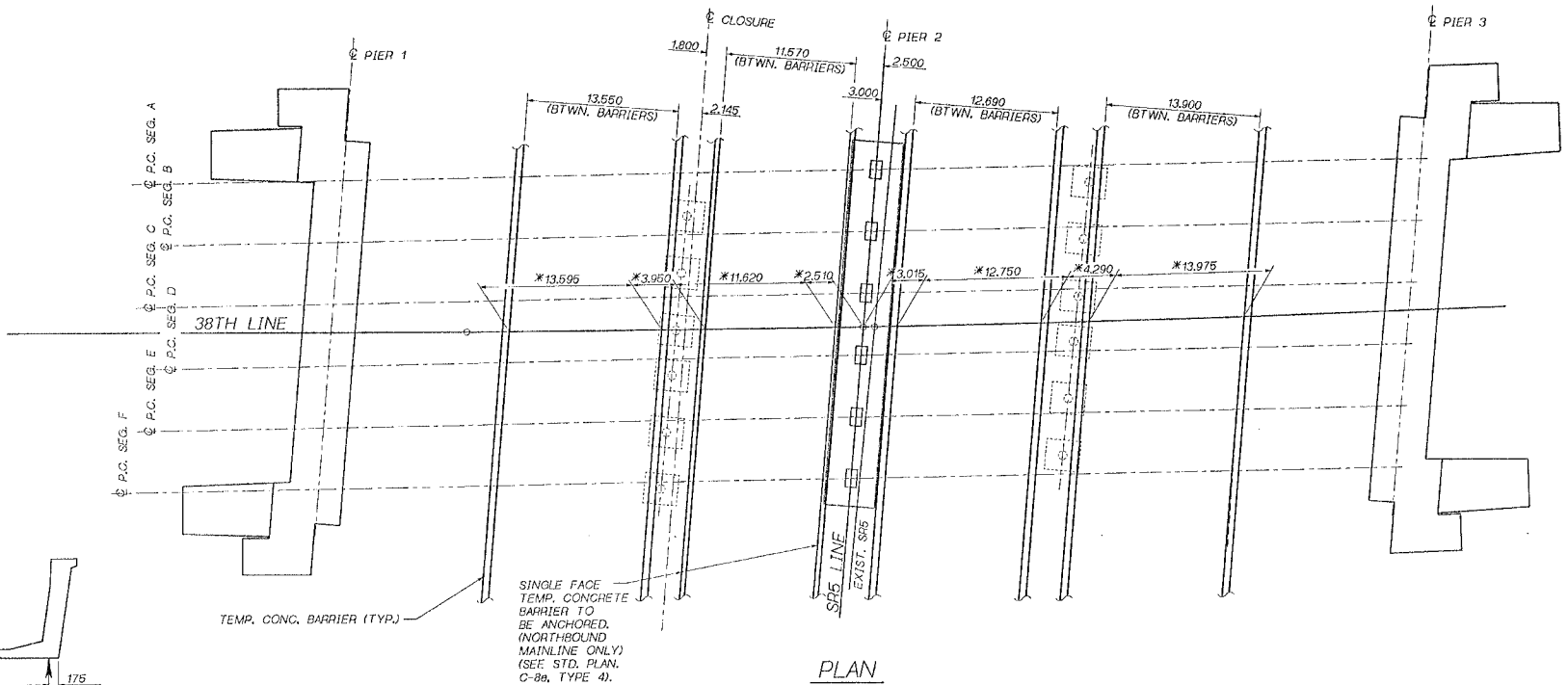
BRIDGE AND STRUCTURES OFFICE

Washington State
Department of
Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/4/30 REPLACEMENT
FOUNDATION INTERFERENCE &
PIER 2 SHORING

SHEET 7
OF 140
314 SHEETS

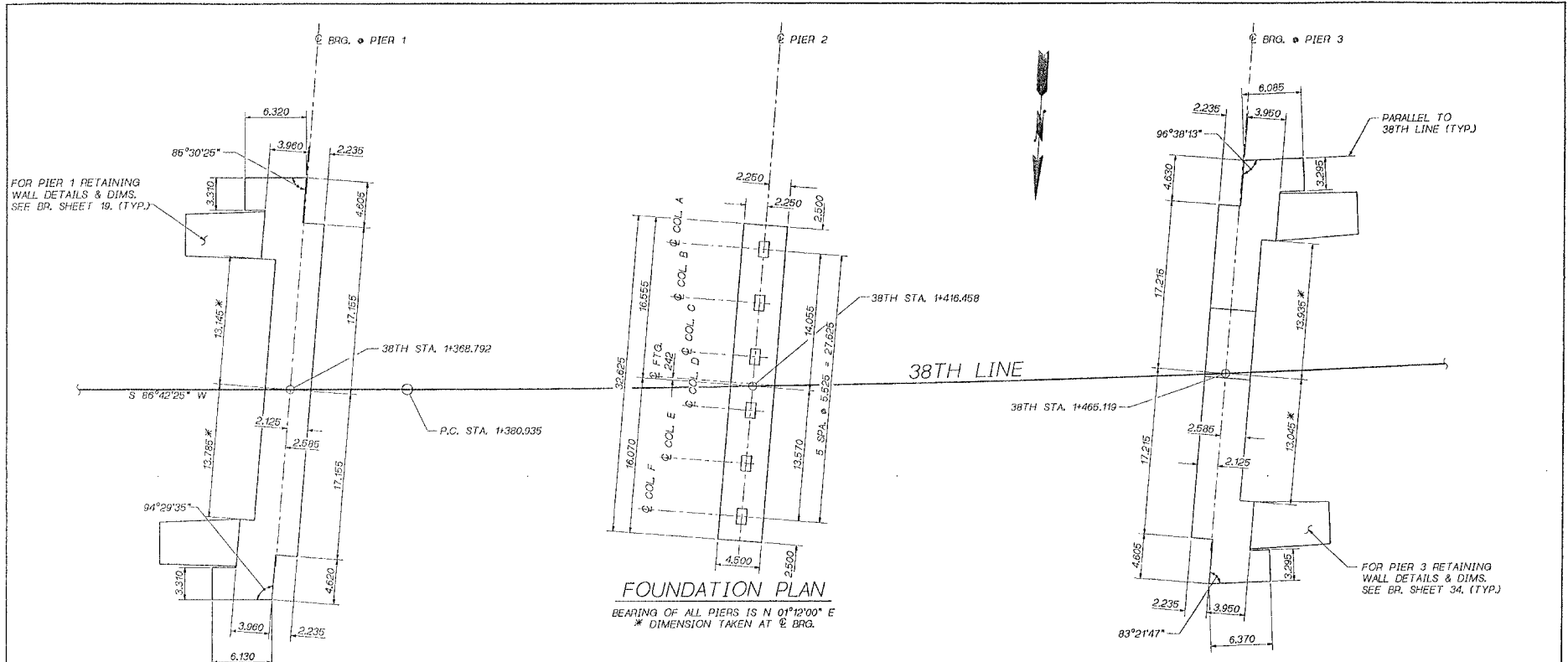
12-JULY-00



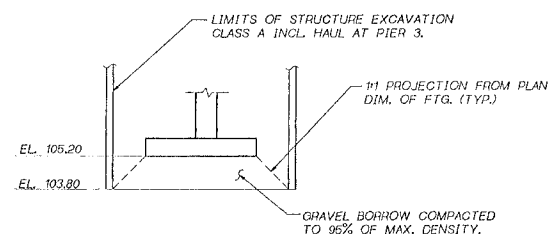
FOR "AS CONSTRUCTED PLANS" ONLY

JOB NO. 7179 SHEET 8

Bridge Design Engr. G. G. ROTH Supervisor J. A. VAN LUND Designed By T.M. MOORE 7/07 Checked By J. WERTH 3/08 Detailed By L. ANDREOTTI Bridge Projects Engr. Project Plan By Architect/Sealpoint		REGION 10 STATE WASH. JOB NUMBER 000527 DATE 7-12-00	BRIDGE AND STRUCTURES OFFICE 7-12-00 	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT SHORING LAYOUT & CONSTRUCTION OPENINGS	SHEET 8 OF 314 24413
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FOUNDATION PLAN
 BEARING OF ALL PIERS IS N 01°12'00" E
 * DIMENSION TAKEN AT ϕ BRG.



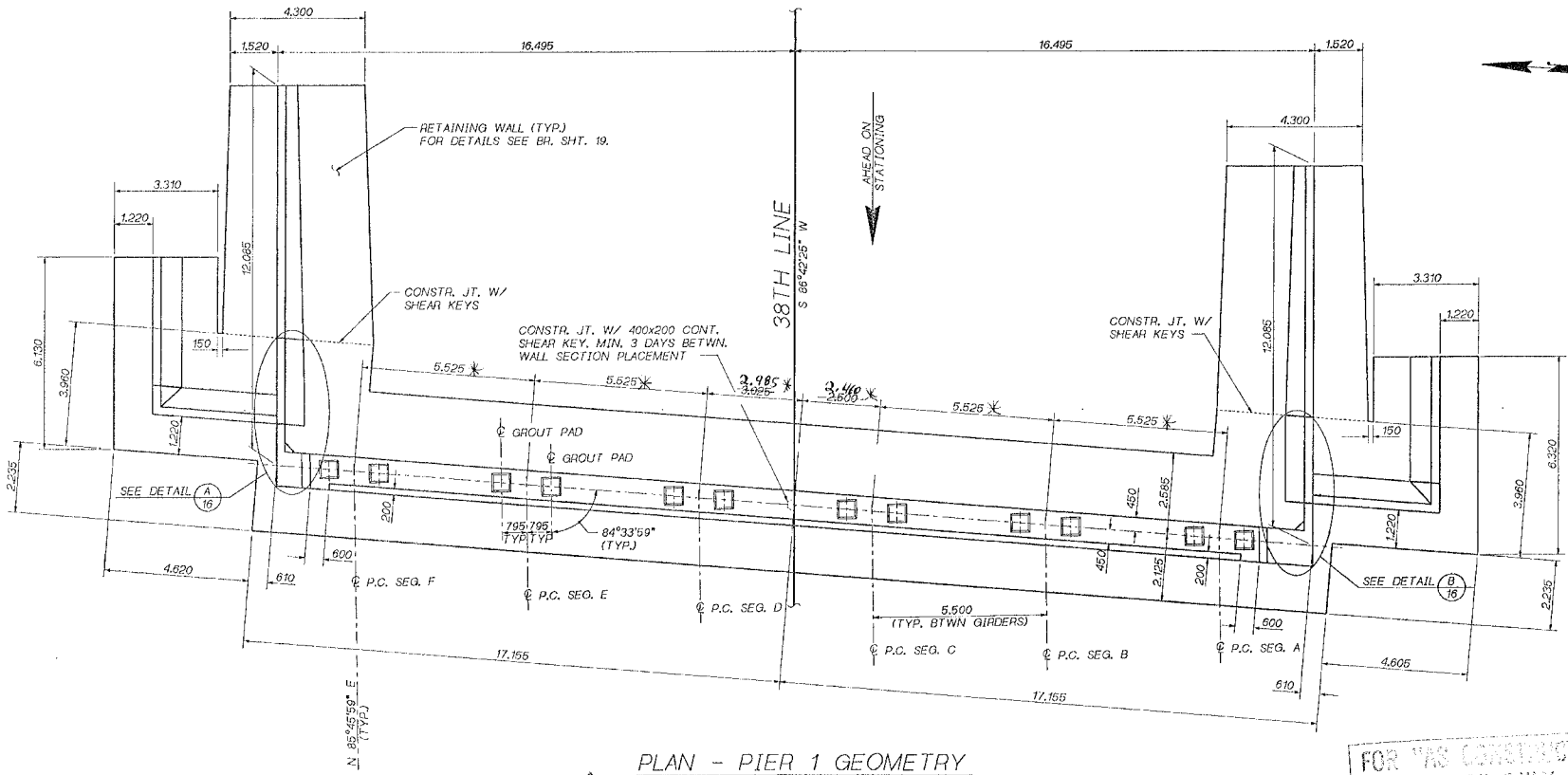
**TYPICAL OVEREXCAVATION DETAIL
 FOR PIER 3 FOOTING**

FOR "AS CONSTRUCTED
 PLANS" ONLY

SHEET NO. 9 OF 9

Bridge Design Engr. G. G. RUTH Supervisor J. A. VAN LIND Designed by MOORE/BRAKE 6/97 Checked by JMERITH 2/08 Detailed by L. ANDREOTTI Bridge Projects Engr. Prelim. Plan by Architect/Spec. Engr.	5038TH INTERCH. (FGB, S038TH IVD) FOUND. PLAN, FGB, 1	REGION NO. STATE WASH. FED. AID PROJ. NO. SHEET NO. 9 TOTAL SHEETS	 BRIDGE AND STRUCTURES OFFICE 7-12-00	 Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT FOUNDATION PLAN	PROJECT SHEET NO. 9 SHEET 142 OF 314 1-1111
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12-117-00



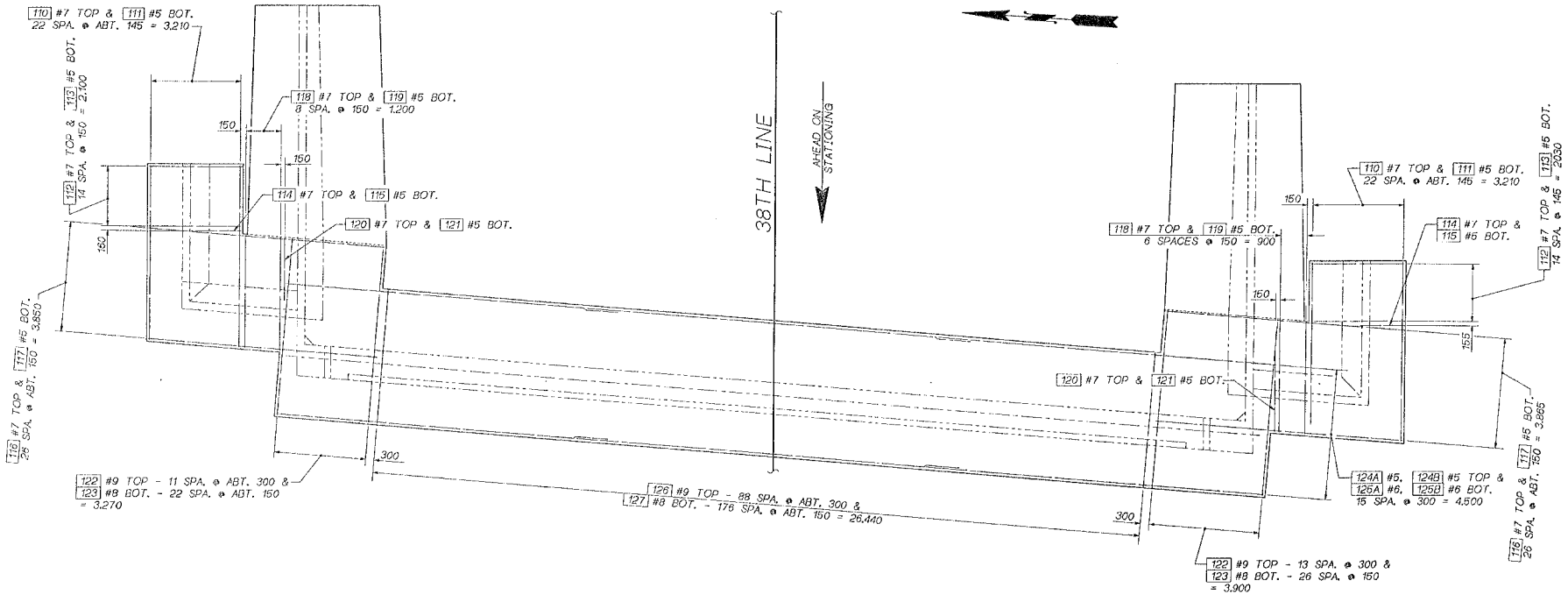
PLAN - PIER 1 GEOMETRY

* Dimensions shown are at Bottom of P.C. Segment and include Effects of Roadway Cross Slope

FOR "AS CONSTRUCTED PLANS" ONLY

SHEET 5 JOB NO. 7179 SHEET 10




Bridge Design Engr. G. RUTH Supervisor J. A. VAN LUND Designed By T. BAKE 6/97 Checked By J. MERTH 2/98 Detailed By L. ANDREOTTI Bridge Projects Engr. Prelim. Plan By Architect/Speciaist	S038TH OVERROOT 1 FGB, S038TH (W/O) PIER 1, FGB, 1 11/11/00 Revised Dimensions DATE REVISION BY APP'D 5935	REGION NO. 10 STATE WASH FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS JOB NUMBER 000527 5935	BRIDGE AND STRUCTURES OFFICE 7-12-00 7-12-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 8/430 REPLACEMENT PIER 1 GEOMETRY	SHEET NO. 10 143 OF 314 12-11-00
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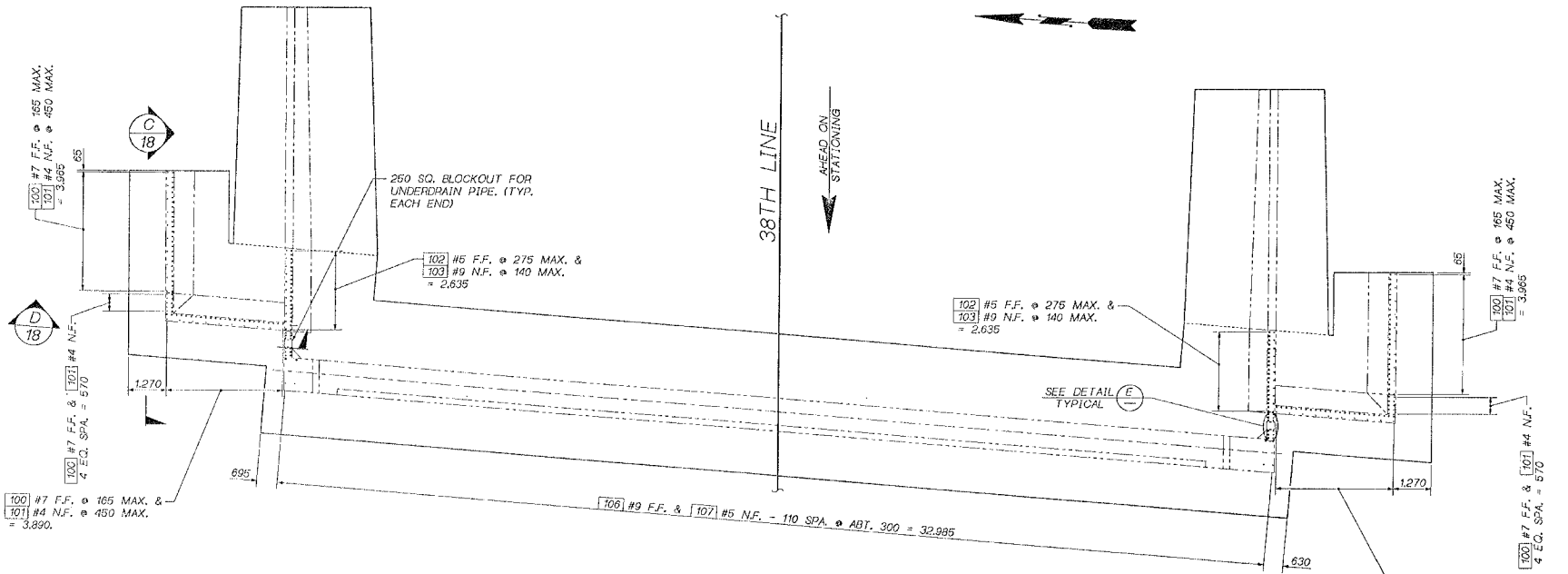


PLAN - PIER 1 FOOTING REINFORCEMENT

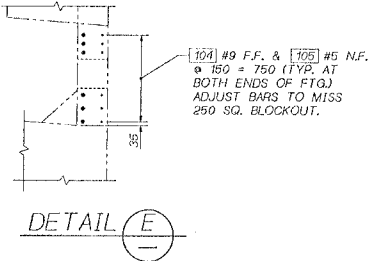
FOR "AS CONSTRUCTED PLANS" ONLY

SR 5 - JCB AC. 7179 SHEET 11

Bridge Design Engr. G. C. RUTH Supervisor J. A. VAN LIND Designed By T. BRKE 6/97 Checked By J. MERTH 2/98 Devised By L. ANDREOTTI Bridge Projects Engr. Train. from By Engineer/Specialist	5038TH OVERROOT (FCB, 5038TH, TWO) PIER, L.F.T.G. FCB. 1	REGION 10 STATE WASH. JOB NUMBER 00C527 DATE REVISION BY APP'D 5935	FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE  7-12-00	 T-12-00	 Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING S/430 REPLACEMENT PIER 1 FOOTING REINFORCEMENT	PROJECT SHEET NO. 11 SHEET 114 OF 34 SHEETS
--	--	---	---	---	--	---	--	---



PLAN - PIER 1 FOOTING DOWELS



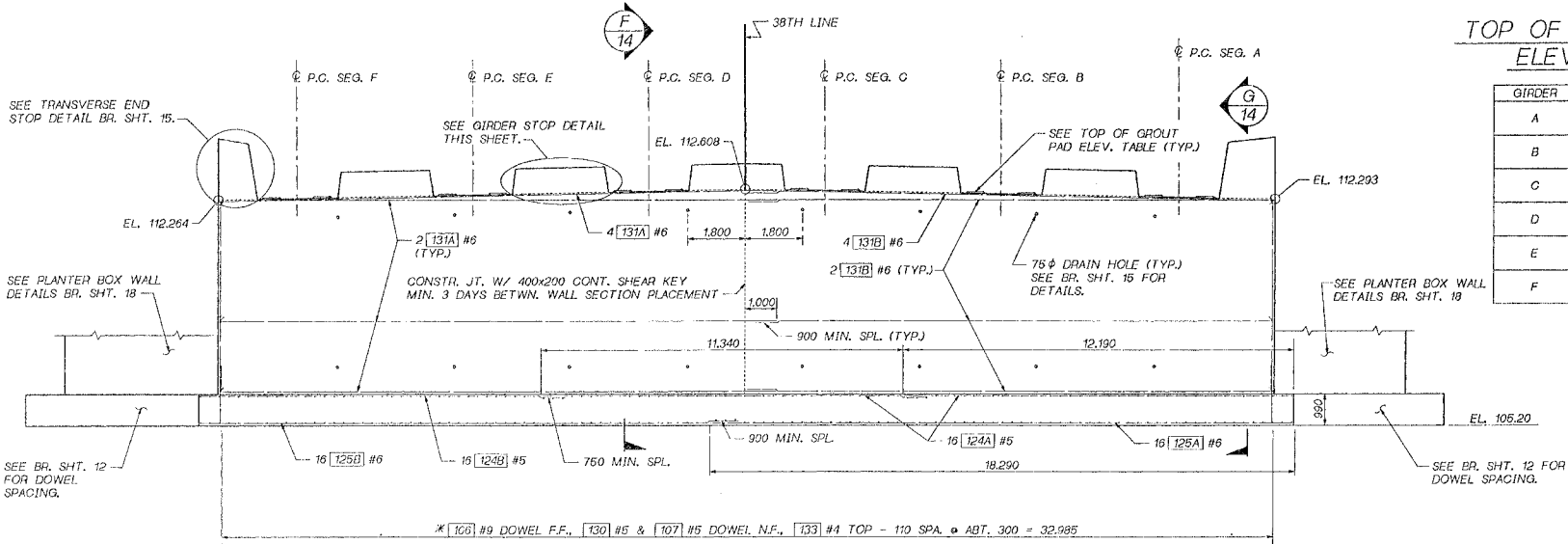
FOR "AS CONSTRUCTED PLANS" ONLY

JOB NO. Z179. SHEET 12

Bridge Design Eng. C. C. RUTH Supervisor J. A. VAN LIND Designed By F. BRAVE 6/97 Checked By J. MERTH 2/98 Detailed By L. ANDREOTTI Bridge Projects Eng. Station, Plan By Architect/ Specialist	3038TH STREET INTERCHANGE, 3038TH TWO PIER LINE INF. PGB. 1	REGION NO. 10 STATE WASH. JOB NUMBER 00C527 5935	BRIDGE AND STRUCTURES OFFICE 			SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT PIER 1 FOOTING DOWELS	SHEET NO. 12 SHEET 145 OF 394 SHEETS
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TOP OF GROUT PAD ELEVATIONS

GIRDER	ELEVATION
A	112.385 - SOUTH
	112.415 - NORTH
B	112.490 - SOUTH
	112.521 - NORTH
C	112.595 - SOUTH
	112.629 - NORTH
D	112.612 - SOUTH
	112.579 - NORTH
E	112.497 - SOUTH
	112.464 - NORTH
F	112.382 - SOUTH
	112.349 - NORTH

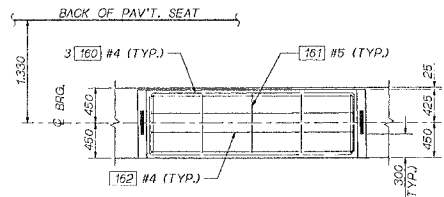
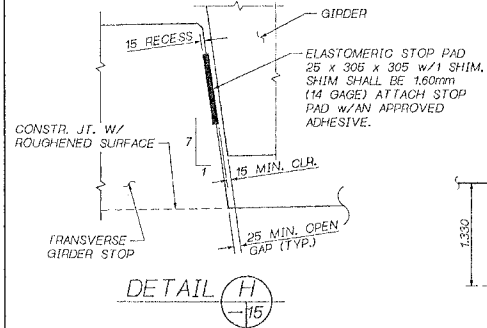


ELEVATION - PIER 1

LOOKING BACK ON STATIONING.

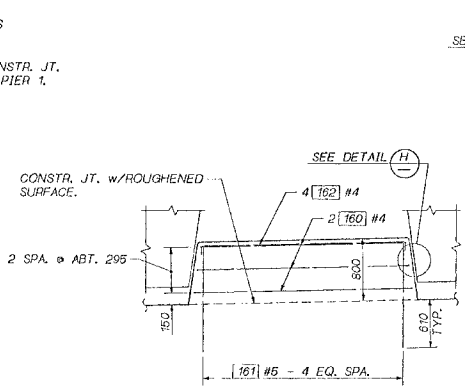
WALL SURFACE TREATMENT NOT SHOWN. FOR DETAILS SEE BR. SHEET 14.

* ADJUST BARS TO INSURE 40 CLR. FROM VERTICAL CONSTR. JT. DIMENSIONS & ELEVATIONS ARE GIVEN ALONG C/BG. PIER 1.

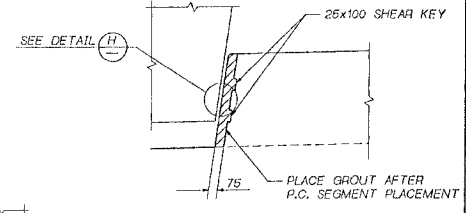


PLAN - GIRDER STOP DETAIL

SHOWN FOR GIRDER STOP ALT. CONSTRUCTED AFTER P.C. SEG. PLACEMENT



ELEVATION - GIRDER STOP DETAIL



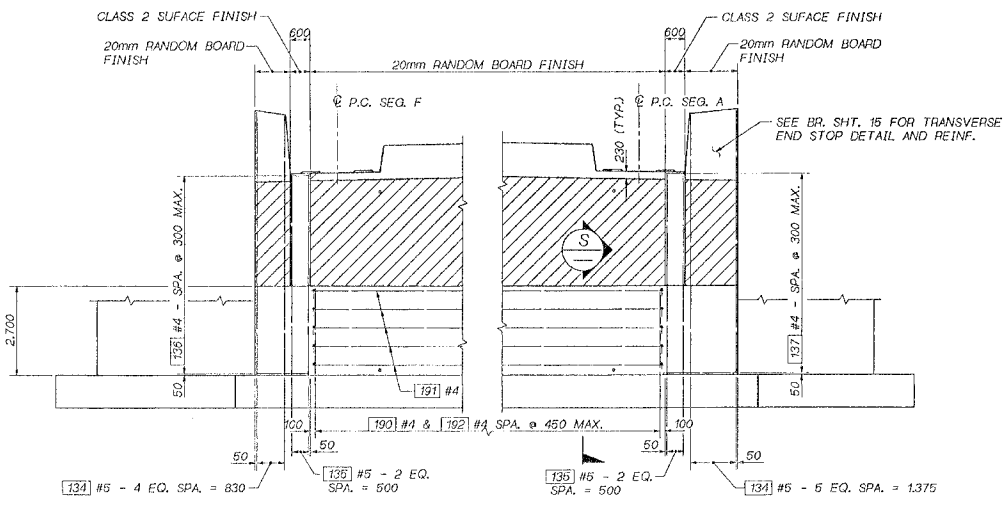
GIRDER STOP ALT.

FOR GIRDER STOPS CONSTRUCTED PRIOR TO P.C. SEGMENT PLACEMENT

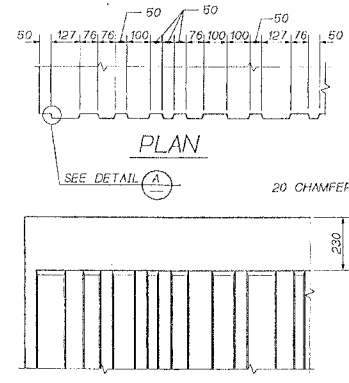
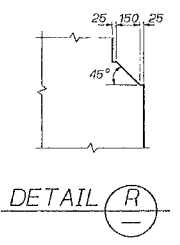
FOR "AS CONSTRUCTED PLANS" ONLY

JOB NO. 1119 SHEET 13

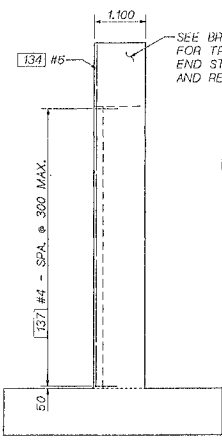
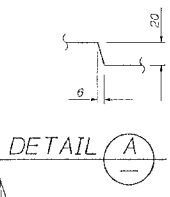
Bridge Design Engr. C. C. RUTH Supervisor: J. A. VAN LUND Designed By: T. BRANK 6/97 Checked By: J. MERTH 2/98 Drawn By: L. MEREDITH Bridge Projects Eng. Prelim Plan By: Architect/Specialis* 12-J1Y-00	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT PIER 1 ELEVATION	BRIDGE AND STRUCTURES OFFICE Washington State Department of Transportation 7-11-00 7-12-00	SHEET NO. 13 OF 146 DATE 3/4
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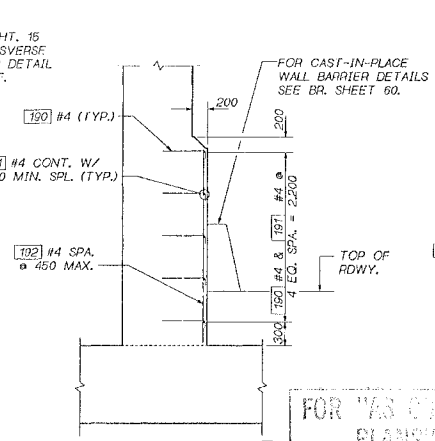
PIER 1 - SURFACE TREATMENT DETAIL



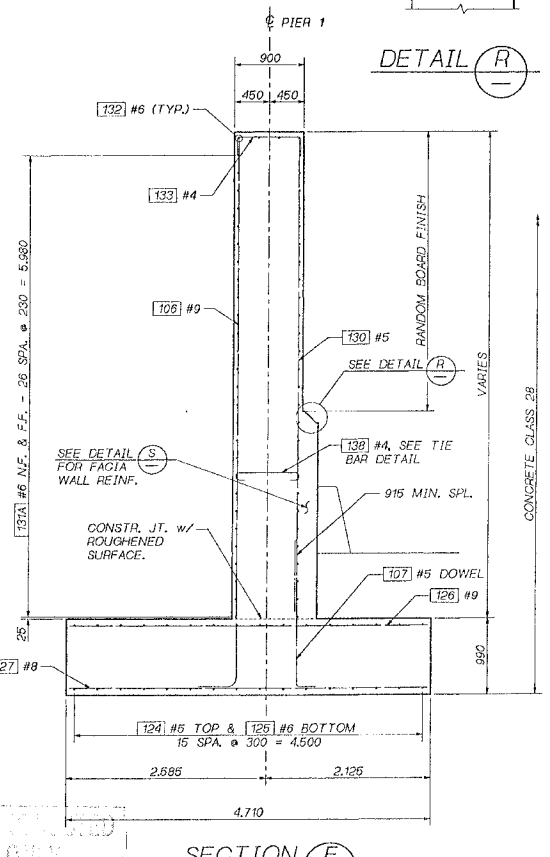
ELEVATION
20MM RANDOM BOARD TEXTURE



SECTION G
13



SECTION S
13



SECTION F
13

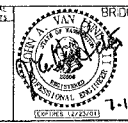
MAIN WALL REINF. NOT SHOWN FOR CLARITY.

SEE BRIDGE SHT. 15 FOR DRAINAGE DETAILS.

SR 5 JOB NO. 7119 SHEET 14

Bridge Design Engr. C. G. ROTH	SO 38TH OVERCROSSING (FGB, SO 38TH, TWOPIER, 1 SECT, FGB, 1	RECORD NO.	STATE	FED. AID PROJ. NO.	PREP. NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND			10 WASH.			
Designed by T. BRICE 5/97						
Checked by L. NERTH 2/98						
Designed by L. ANDREOTTI						
Bridge Projects Eng.						
Train. Plan. by						
Architect/Specifier	DATE	REVISION	BY	APP'D		
					5935	

SOUTH SIDE SHOWN, NORTH SIDE SIMILAR.



BRIDGE AND STRUCTURES OFFICE
7-11-00

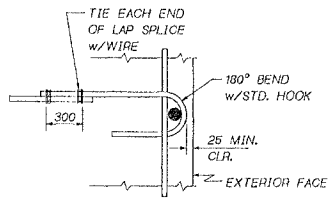


7-12-00

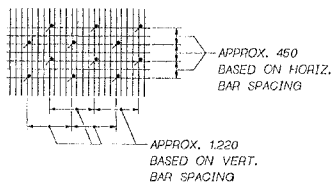


Washington State
Department of
Transportation

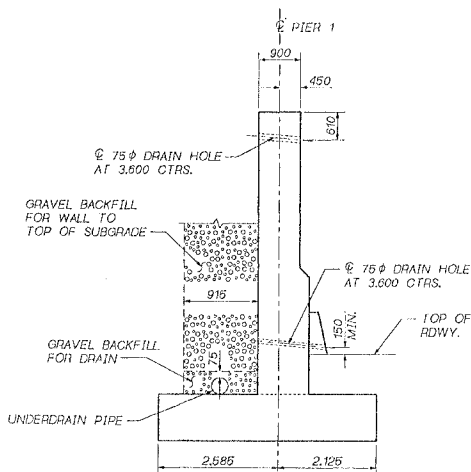
SR5	BRIDGE NO.	14
38TH STREET INTERCHANGE	SHEET	147
S 38TH STREET USING 5/430 REPLACEMENT	OF	314
PIER 1 DETAILS	SHEETS	



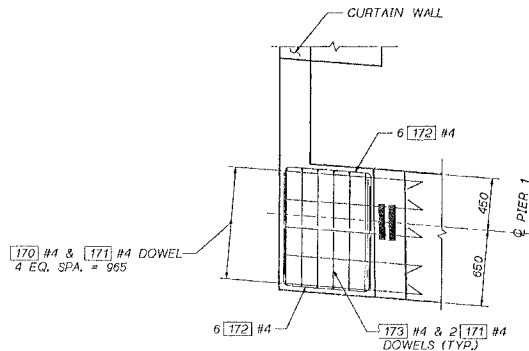
TIE BAR DETAIL



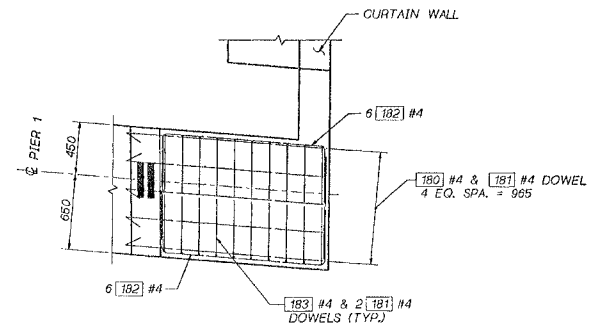
TIE SPACING DETAIL



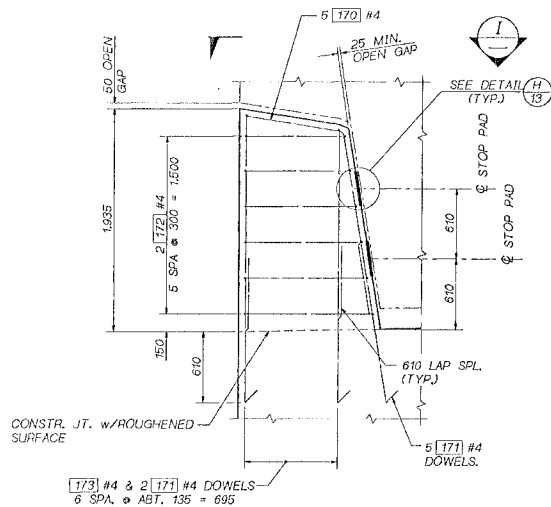
DRAINAGE DETAIL



VIEW I

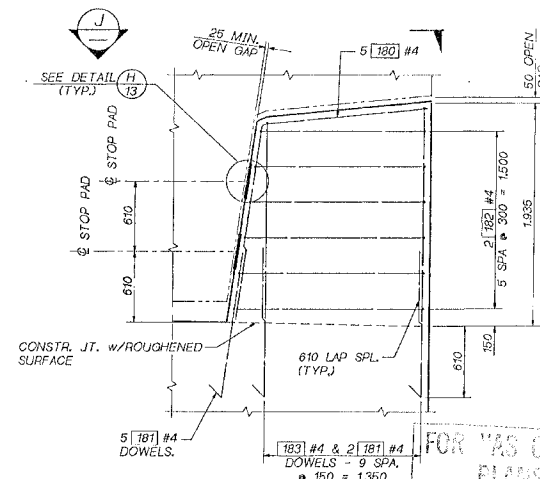


VIEW J



TRANSVERSE END STOP
NORTH SIDE @ PIER 1

PLACE AFTER P.C. SEGMENT IS SET AND SLAB IS CAST.



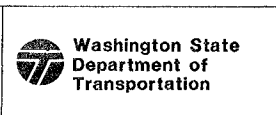
TRANSVERSE END STOP
SOUTH SIDE PIER 1

PLACE AFTER P.C. SEGMENT IS SET AND SLAB IS CAST.

FOR WAS CONNECTION
PLANS ONLY

JCB NO. 7179 - SHEET 15

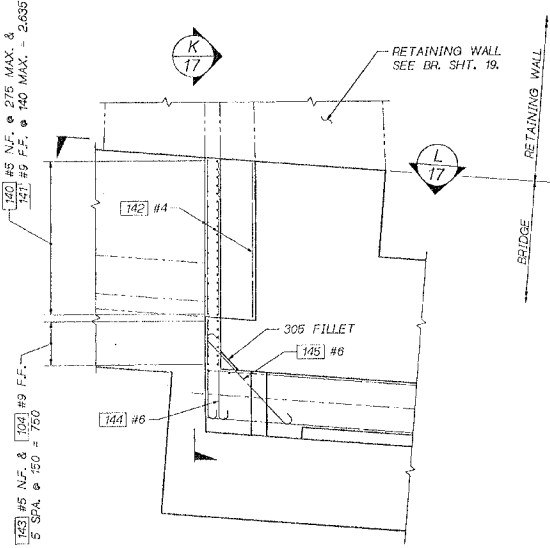
Bridge Design Eng. G. C. RUTH	3038TH INTERCHANGE (FGB, 3038TH, TWO) PIER 1 STOPS, FGB, 1	CDOR NO.	STATE	FEED. AND PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH.			
Designed by T. BRAKE 9/97						
Checked by J. MERTH 11/97						
Delivered by L. ANGELOTTI						
Bridge Project Eng.				JOB NUMBER		
Drawn Plan by				000527		
Architect/Specifier	DATE	REVISION	BY	APP'D	5935	



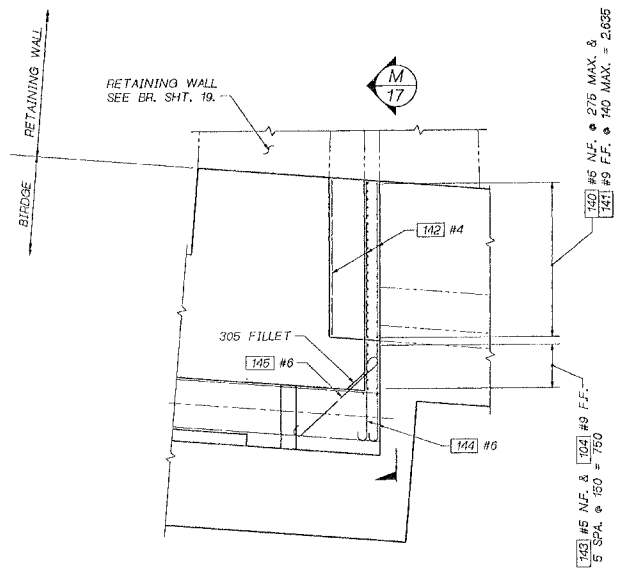
SR5	REVISION SHEET NO.
38TH STREET INTERCHANGE	15
S 38TH STREET UXING 5/430 REPLACEMENT	48
PIER 1 DETAILS	34
	1113

12-JLY-00

SR 5 JOB NO. 7179 SHEET 19



DETAIL A
10

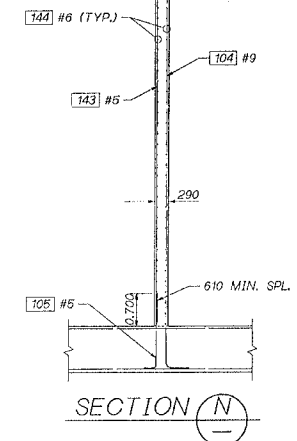
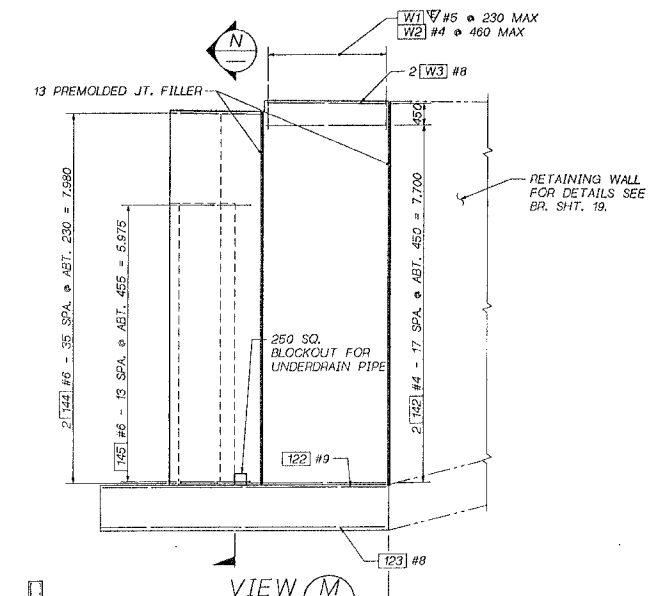
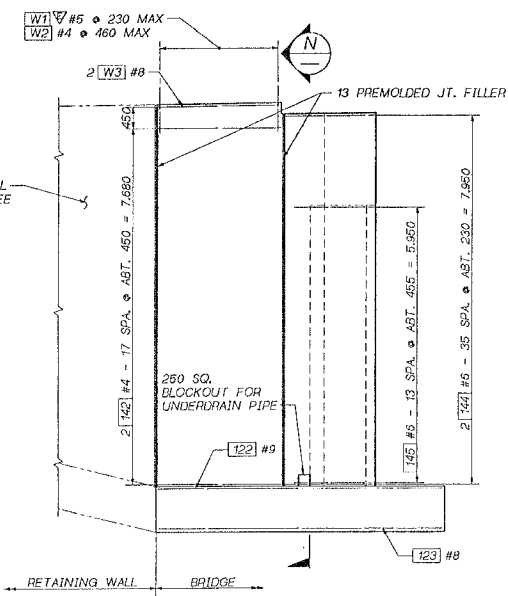
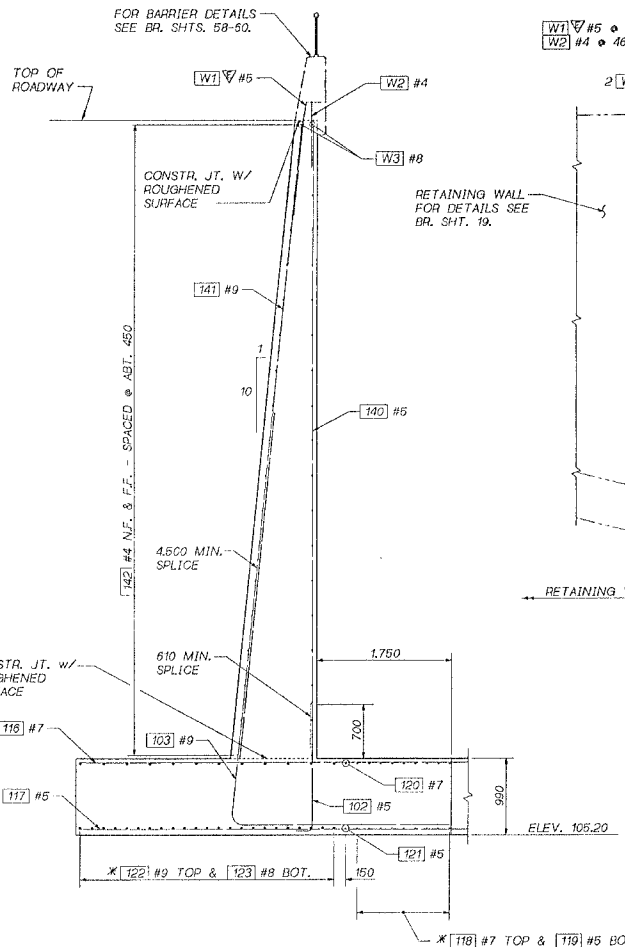


DETAIL B
10

FOR "AS CONSTRUCTED PLANS" ONLY

Bridge Design Engr. G. C. RUTH Supervisor J. A. VAN LIND Designed by T. BAKE 8/97 Checked by J. MERTH 2/98 Detailed by V.B. SCHICCH 9/97 Bridge Projects Engr. Prelim. Plan by Architect/Specialist	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 6/430 REPLACEMENT PIER 1 DETAILS	PROJECT NO. 5935 STATE 10 WASH. FEDERAL AID PROJ. NO. SHEET NO. 16 TOTAL SHEETS 149 OF 314 SHEETS	BRIDGE AND STRUCTURES OFFICE 7-11-00 7-12-00	 Washington State Department of Transportation	BRIDGE SHEET NO. 16 SHEET 149 OF 314 SHEETS
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12-117-07

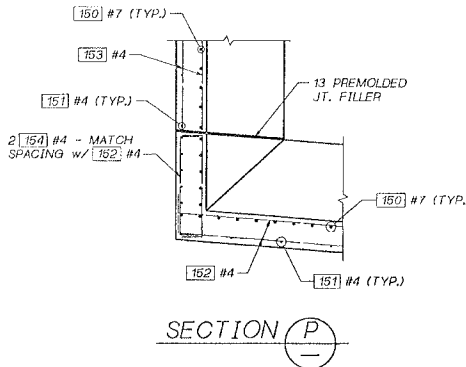
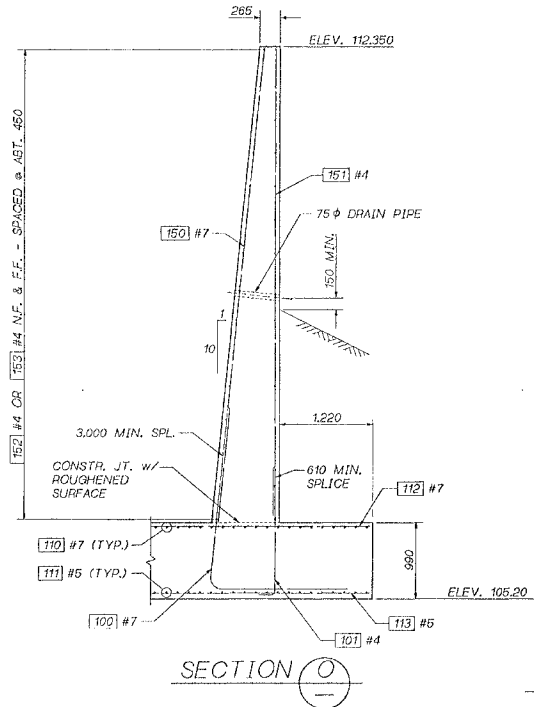


FOR 'AS SHOWN' PLOT ONLY

SHEET 5 JOB NO. 7179, SHEET 17 12-JLY-00

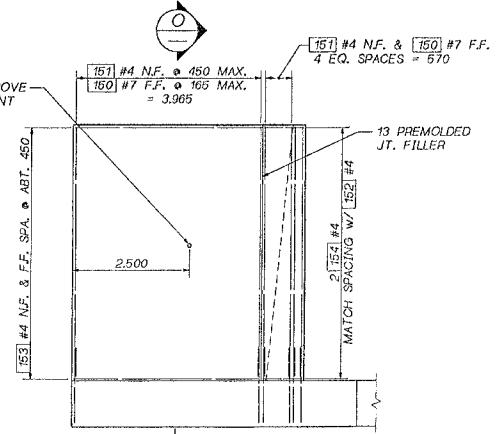
Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LIND Designed By T. BAKE 8/97 Checked By J. MEITH 2/98 Detailed By V.B. SCHICCHI 9/97 Bridge Projects Engr. Prelim Plan By Architect/Specialist	3038TH ONE ROAD INTERCHG. 3038TH AND PIER 1 CURTAIN WALL	PERSON NO. STATE 10 WASH. JOB NUMBER 00C527 5935	FED. AID PROJ. NO. DIST. NO. TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 7-11-00 7-12-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT PIER 1 CURTAIN WALLS	17854 SHEET NO. 17 5421 OF 314 54443
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SR 5 JOB NO. 7179 SHEET 18

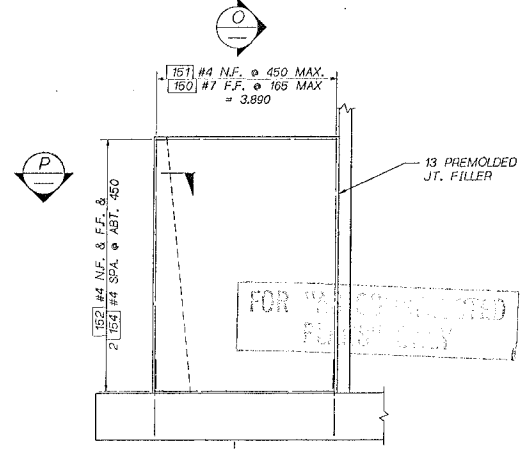


PIER 1 PLANTER BOX WALLS
 NORTH PLANTER BOX WALL SHOWN.
 SOUTH PLANTER BOX WALL SIMILAR EXCEPT FOR SKEW.

75 φ DRAIN - LOCATE 150 ABOVE FINAL GROUND LINE AT FRONT FACE OF WALL.



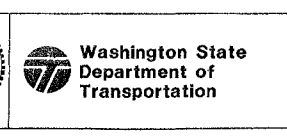
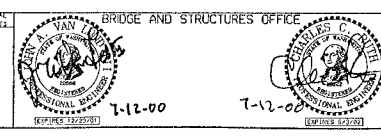
VIEW C
 12



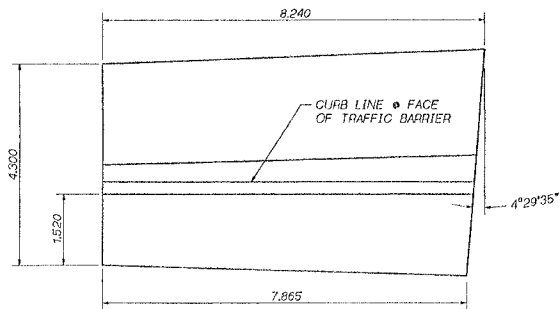
VIEW D
 12

Bridge Design Engr. C. C. RUTH	SD38TH_LANEROOT_LFBB, SD38TH_LANDPIER_LPLANTER_FBB	SECTION NO.	STATE	FED. AND PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND			10 WASH.			
Designed By J. MERTH 2/98						
Checked By I.M. MOORE 3/98						
Detailed By V.B. SCHICCHI 3/98						
Bridge Projects Engr.						
Pratim, Plan By						
Architect/ Specialist	DATE	REVISION	BY	APP'D		
					5935	

BRIDGE AND STRUCTURES OFFICE	7-12-00
7-12-00	



SR5	BRIDGE SHEET NO. 18
38TH STREET INTERCHANGE	SHEET 151
S 38TH STREET LIXING 5/4/90 REPLACEMENT	OF 314
PIER 1 PLANTER BOX WALL	SUBLET

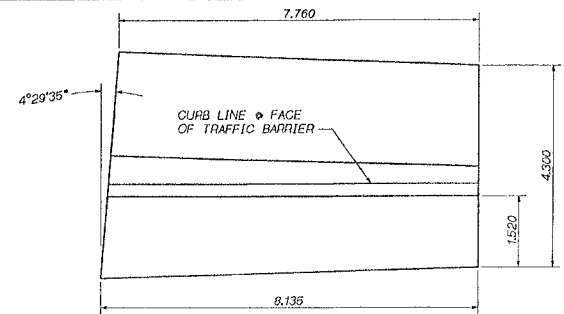


WALL PLAN - PIER 1 (NORTH)

TRAFFIC BARRIER NOT SHOWN FOR CLARITY

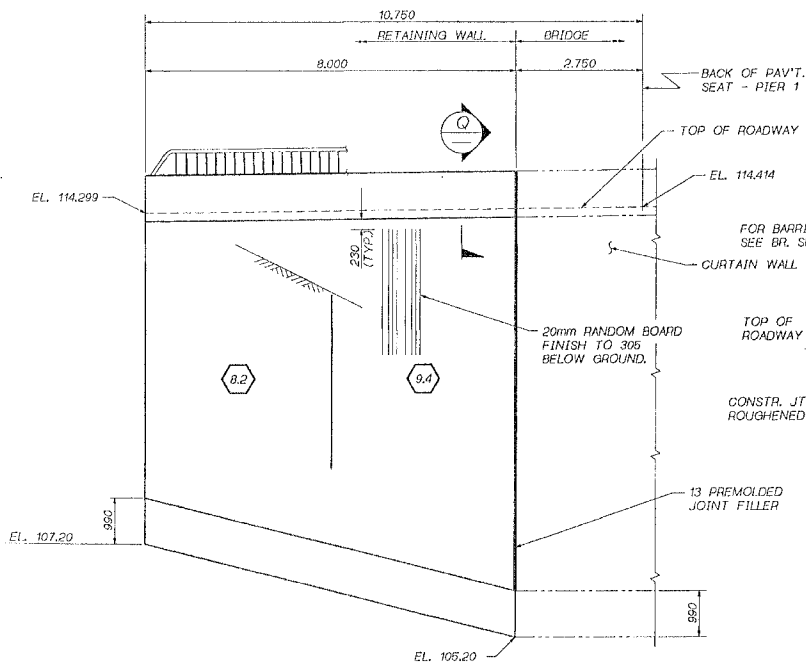
NOTES:

1. SEE STD. PLAN D-1a FOR TYPE 1 RETAINING WALL DETAILS.
2. INDICATES THE "H" DIMENSION TO BE USED IN STD. PLAN D-1a FOR REINFORCING DETAILS.



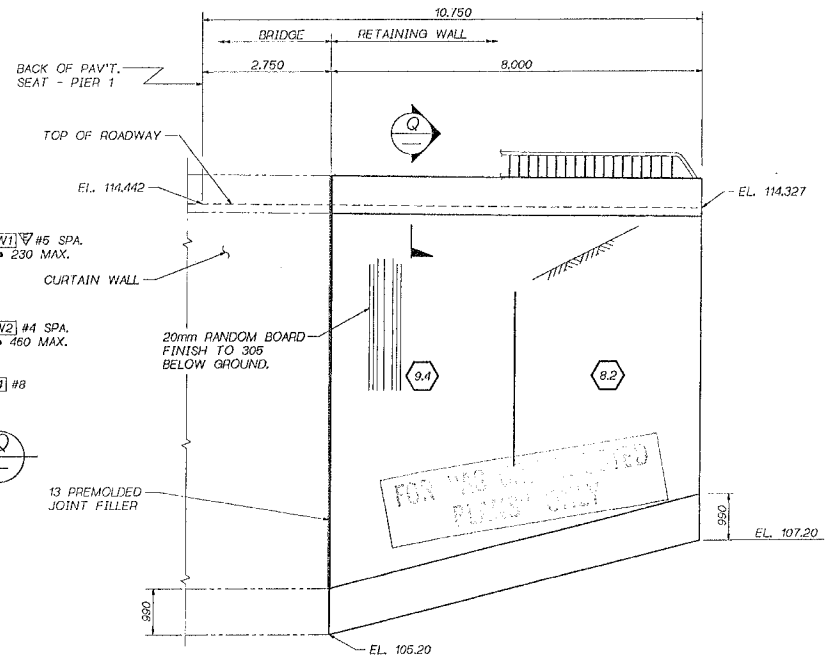
WALL PLAN - PIER 1 (SOUTH)

TRAFFIC BARRIER NOT SHOWN FOR CLARITY



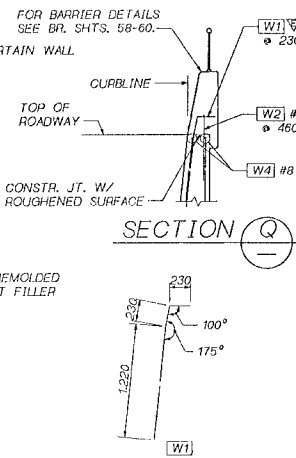
WALL ELEVATION - PIER 1 (NORTH)

TOP OF ROADWAY ELEVATIONS ARE GIVEN AT FACE OF BARRIER



WALL ELEVATION - PIER 1 (SOUTH)

TOP OF ROADWAY ELEVATIONS ARE GIVEN AT FACE OF BARRIER

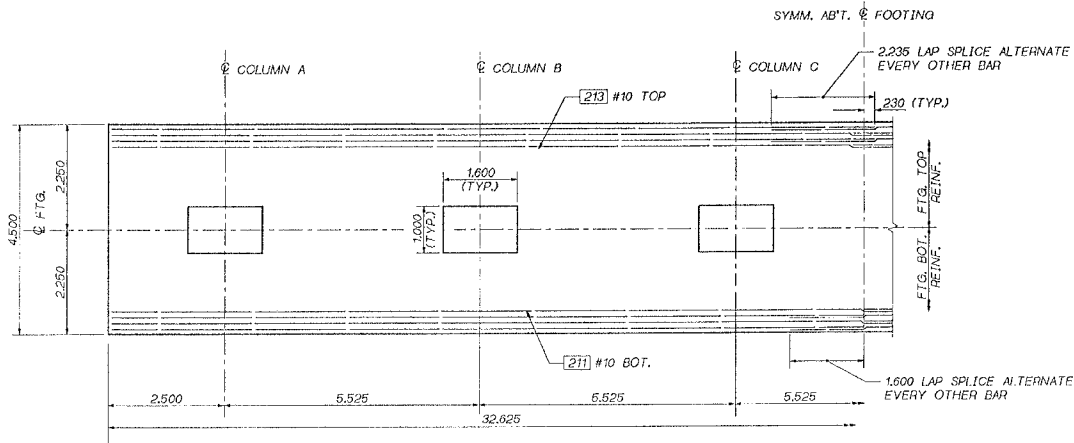


FOR USE BY FIELD PERSONNEL ONLY

JOB NO. 7119 SHEET 19

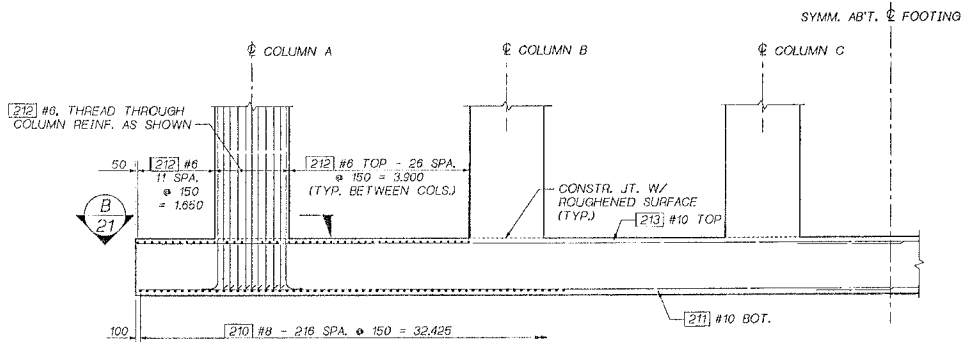
Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LIND Designed by T. BRWE 8/97 Checked by J. MERTH 10/97 Detailed by V.L. SCHICCH 10/97 Bridge Projects Engr. Prelim. Plan by Architect/Specifier	38TH STREET (L.F.B.) 38TH STREET INTERCHANGE RETAINING WALLS, PIER 1	STATE WASH. JOB NUMBER 000527 5935	BRIDGE AND STRUCTURES OFFICE 		SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT PIER 1 - RETAINING WALLS	31454 SHEET NO. 19 152 OF 314 SHEETS
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12-JY-00

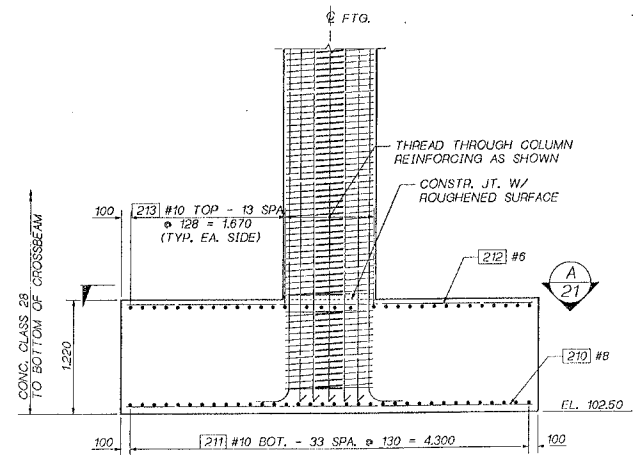


HALF FOOTING PLAN

FOR "NO CORROSIONED PLANS" ONLY



HALF FOOTING ELEVATION



TYPICAL SECTION

SR 5 JOB NO. 7119 SHEET 20

Bridge Design Engr. C. G. RUTH	SO38TH INTERCH. (FCB, SO38TH TWP) PR. 2 FOOTING, FCB. 1	REGION NO.	STATE	FED. AID PROJ. NO.	PREL. NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH.			
Designed By T.M. MOORE						
Checked By J.L. MERIH						
Detailed By L. ANDREOTTI						
Bridge Projects Engr.						
Printed Plan By						
Architect/Specifier	DATE	REVISION	BY	APP'D		
					5935	

BRIDGE AND STRUCTURES OFFICE

7-11-00

7-12-00

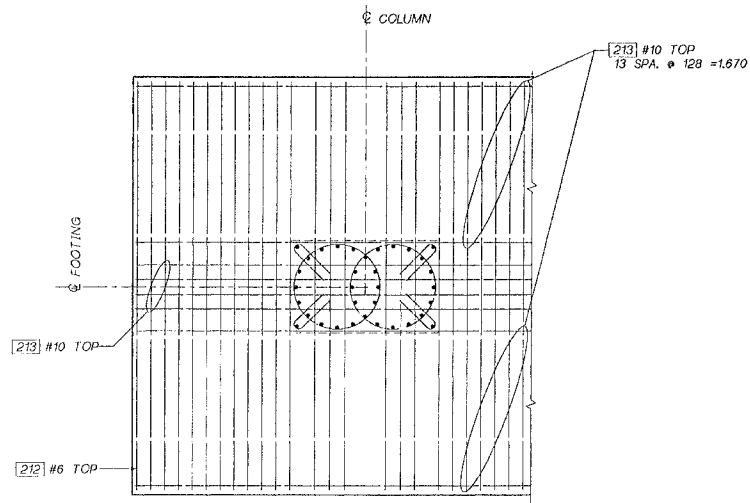
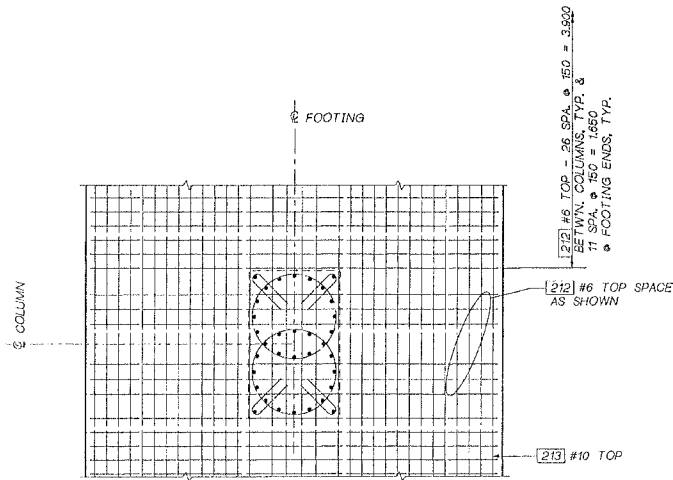


SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT

PIER 2 FOOTING

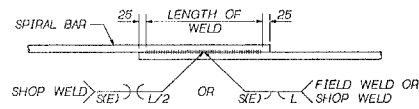
SHEET NO. 20
SHEET 153 OF 314 SHEETS

12-117-00



SECTION (A) 20

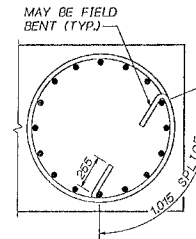
SECTION (B) 20



WELDED LAP SPLICE DETAIL

WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 5-02.3.241E FOR WELD DIMENSIONS. SEE TABLE BELOW.

FOR SPIRAL TERMINUS OR BREAK IN SPIRAL WELD SPIRAL BACK ONTO ITSELF.



LAP SPLICE DETAIL

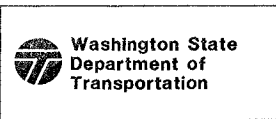
COLUMN SPIRAL OPTIONS

DEFORMED BAR	PLAIN STEEL BAR	COLD DRAWN WIRE	DEFORMED WIRE	WELD DIMENSIONS
AASHTO M 31 GR. 60	AASHTO M 31 GR. 60	AASHTO M 32	AASHTO M225	S E LENGTH (L)
#4	13 φ	W20	D20	6 3 100
#5	16 φ	W31	D31	8 5 150
#6	19 φ	W44	D44	10 5 150

FOR "AS CONSTRUCTED PLANS" ONLY

SR 5 JOB NO. 1119 SHEET 21

Bridge Design Engr. C. G. RUTH	5038TH STREET (FGR, 5038TH INTERCHG. 2 SECTIONS, FGR)	SECTION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH			
Designed By TAM MOORE						
Checked By JR. MERTH						
Detailed By L. ANDREOTTI						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Engineer	DATE	REVISION	BY	APP'D	5935	

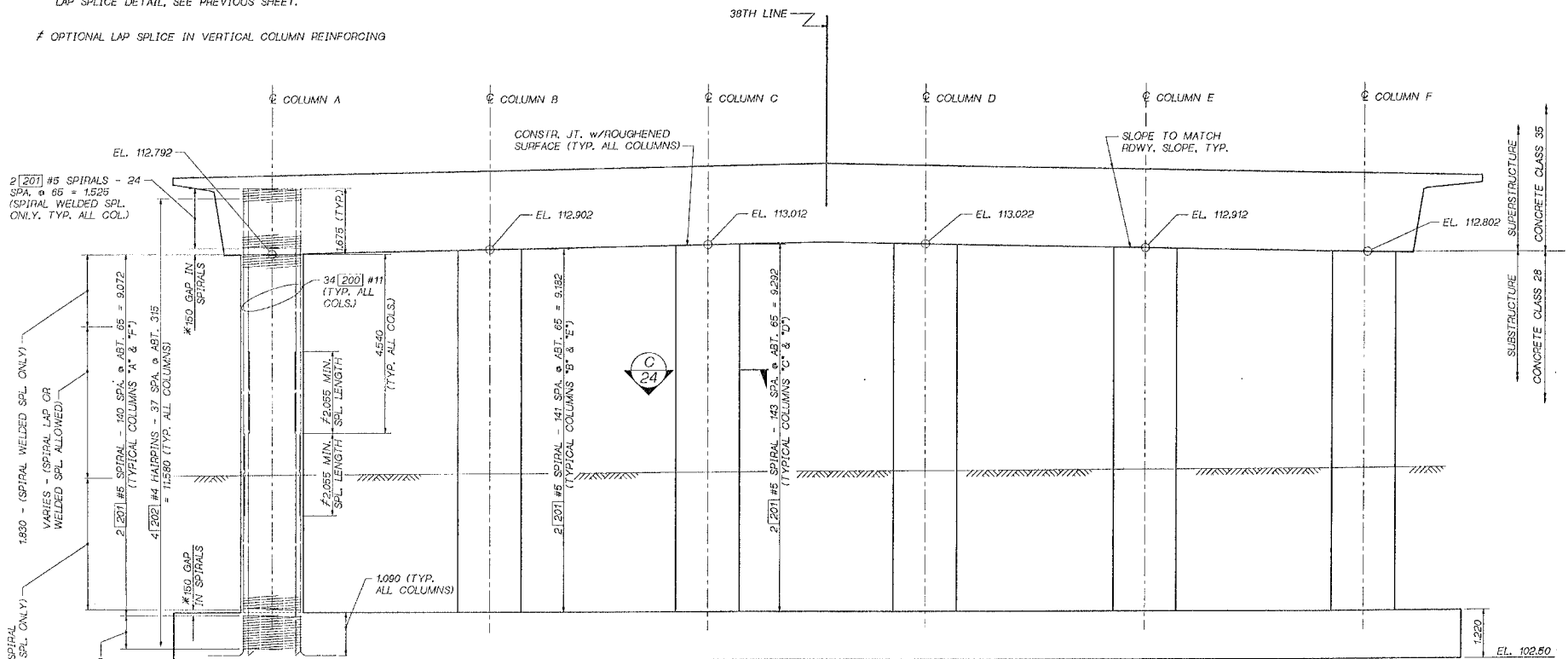


SR5	38TH STREET INTERCHANGE	PIER 2 FOOTING DETAILS
	S 38TH STREET USING 5/430 REPLACEMENT	
		21
		154
		OF
		344
		SHEET

12-JL-00

* TERMINATE ENDS OF SPIRALS WITH WELDS - USE WELDED LAP SPLICE DETAIL, SEE PREVIOUS SHEET.

OPTIONAL LAP SPLICE IN VERTICAL COLUMN REINFORCING



COLUMN ELEVATION - PIER 2

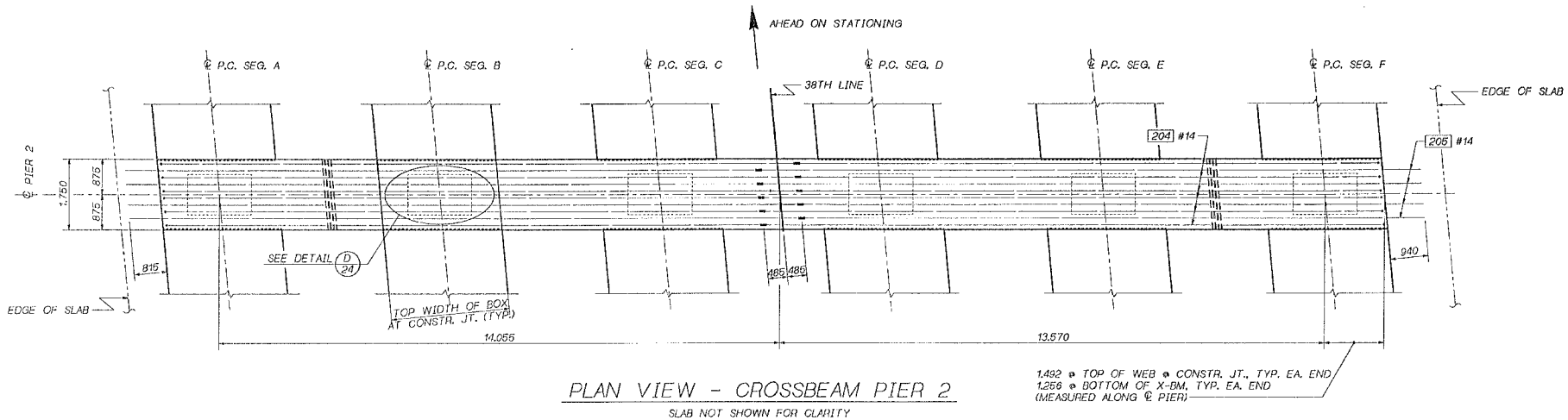
SHOWN LOOKING NORMAL TO @ PIER 2
REINFORCEMENT TYPICAL FOR ALL COLUMNS.
ELEVATIONS SHOWN @ @ PIER & @ COLUMN.

FOR "AS CONSTRUCTED PLANS" ONLY

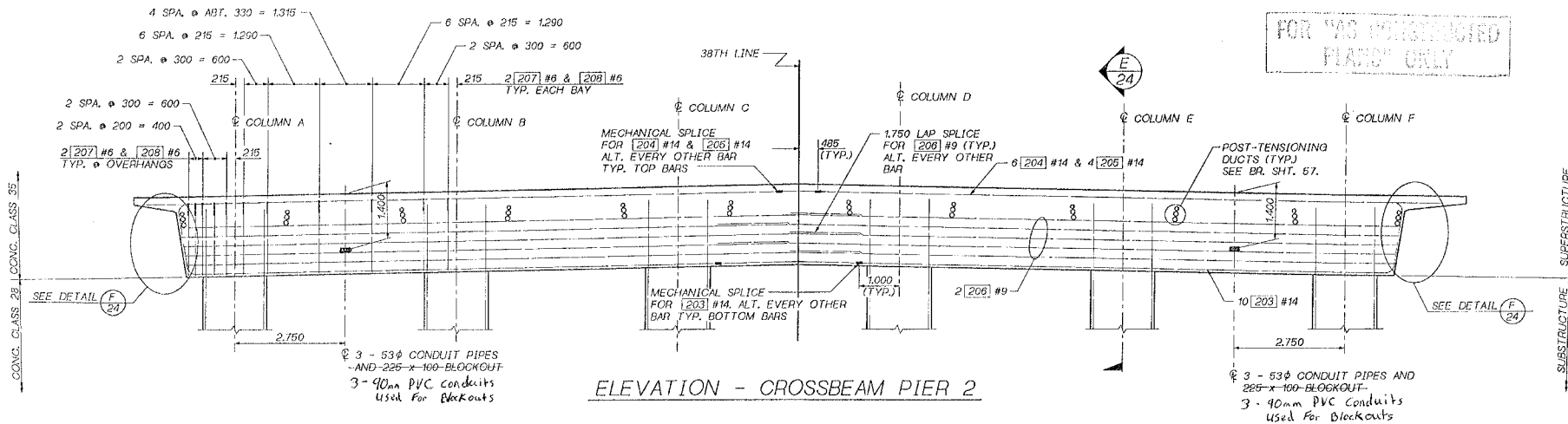
SD 5 JOB NO. 7179 SHEET 22

Bridge Design Engr. C. RUTH	SD 78711.01R0201 (F88, SD 38TH TRM) PR 2 COLUMN FOR 1	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	 BRIDGE AND STRUCTURES OFFICE	 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT PIER 2 COLUMN ELEVATION	Sheet No.
Supervisor J. A. VAN LUND		10	WASH.							22
Designed by T.M. MOORE 6/97		JOB NUMBER							Sheet	
Checked by J. MERTH 3/28		000527							158	
Detailed by L. ANDREOTTI		5935							OF	
Bridge Projects Engr.									314	
Prelin. Plan By									SHEETS	
Architect/Specifier										

12-JLY-00



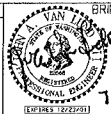
PLAN VIEW - CROSSBEAM PIER 2
SLAB NOT SHOWN FOR CLARITY



ELEVATION - CROSSBEAM PIER 2

SR 5 - JOB NO. 717B SHEET - 23

Bridge Design Engr. G. G. RUTH	SR38TH INTERCHG (FOR SR38TH IWB) PIER 2 XB, FEB. 1	REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUNG			10 WASH			
Designed by T.M. MOORE 6/97						
Checked by J.MERTH 3/98						
Drafted by L. ANDREOTTI						
Bridge Projects Engr.						
Drawn by						
Architect/ Specialist						
DATE	REVISION	BY	APP'D	5935		



BRIDGE AND STRUCTURES OFFICE



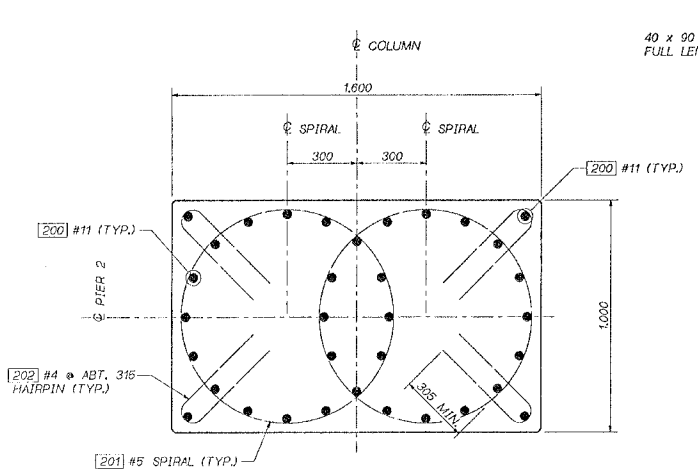
Washington State
Department of
Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT

CROSSBEAM - PIER 2

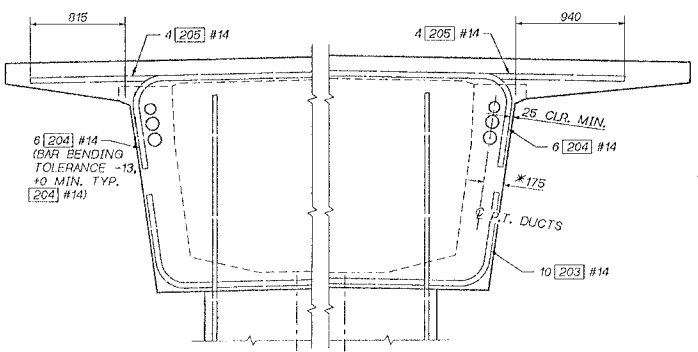
BRIDGE SHEET NO.	23
SHEET	156
OF	314
DATE	8/11/13

12-JLY-00



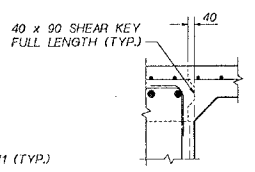
SECTION C
22

ORIENT COLUMN VERTICAL REINFORCING AS SHOWN TO THREAD CROSSBEAM BARS THROUGH OPENING AS SHOWN IN DETAIL D

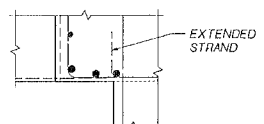


DETAIL F
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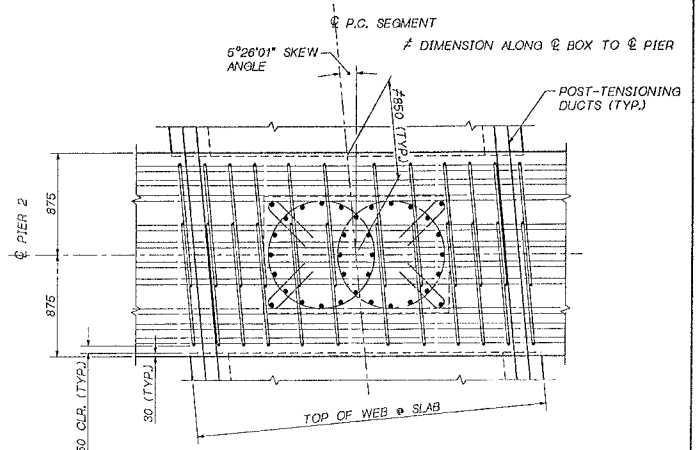
* DIM. AT END OF PRECAST SEGMENT FOR EXTERIOR WEB ONLY (TYP. 2 PLACES)



DETAIL G

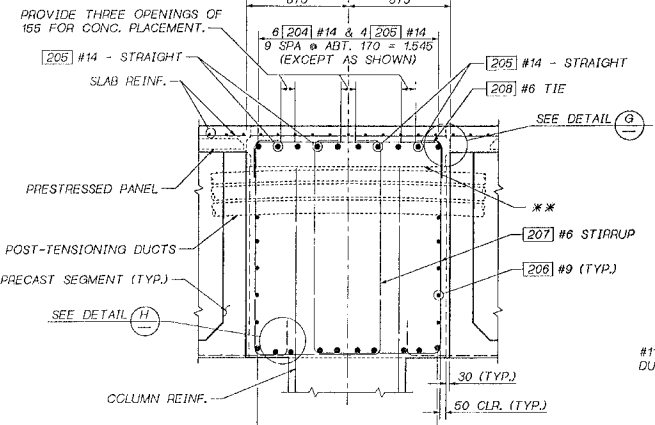


DETAIL H



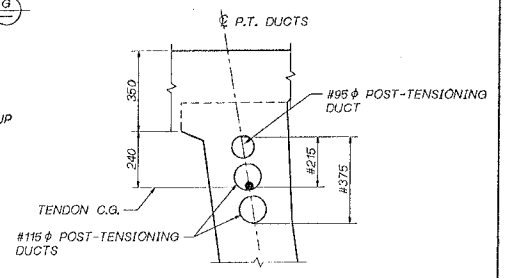
DETAIL D
23

FOR "YES COMPLETED PLANS" ONLY



SECTION E
23

** CONSTR. JT. w/ROUGHENED SURFACE

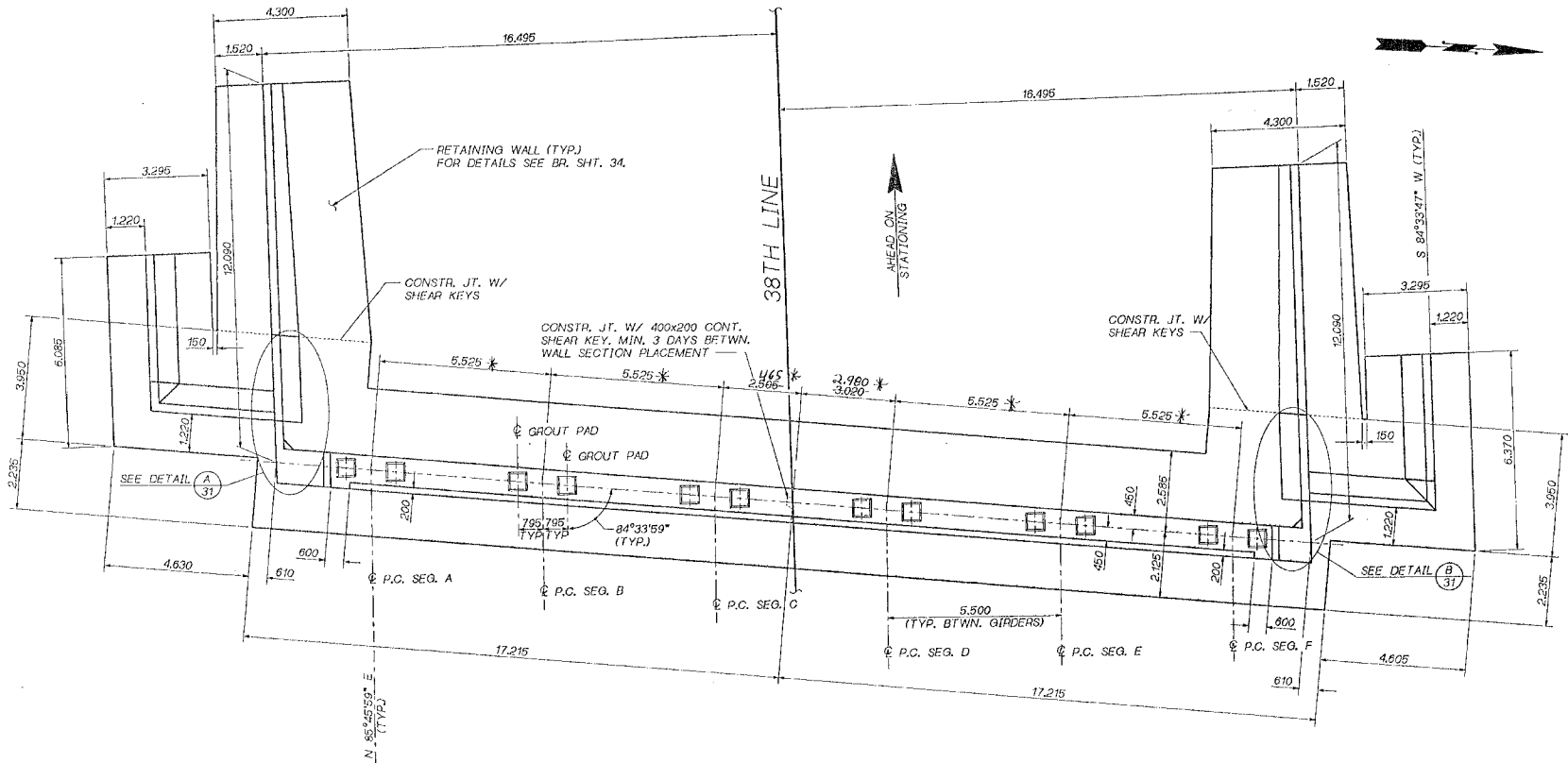


POST-TENSIONING DUCTS DETAIL

SHOWN @ PIER 2
- DUCT DIAMETER VARIABLE DEPENDING ON P.T. SUPPLIER, TENDON DUCT SIZE & ARRANGEMENT.

SP 5 JOB NO. 7179 SHEET 24

Bridge Design Eng: G.C.R. Supervisor: J. A. VAN LIND Designed By: T.M. MOORE 4/97 Checked By: J.MERTH 3/98 Detailed By: L. ANDREOTTI Bridge Projects Eng. Print. Plan By: Architect/Specalls:	SD38TH OVERDOT (F&B, SD38TH, TWO) PR2, COL, JB, SECTS, PIER DATE: REVISION: BY: APP'D:	STATE: WA JOB NUMBER: 00C527 5935	FEDERAL AID PROJ. NO.: SHEET NO.: TOTAL SHEETS:		Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT PIER 2 COLUMN & CROSSBEAM DETAILS	SHEET NO. 24 SHEET 157 OF 314 12-17-00
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PLAN - PIER 3 GEOMETRY

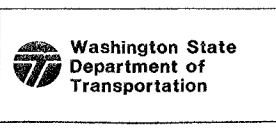
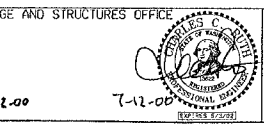
* Dimensions shown are at Bottom of P.C. Segments and include Effects of Roadway Cross Slope.

FOR "AS CONSTRUCTED PLANS" ONLY

SHEET NO. 7179, SHEET 25

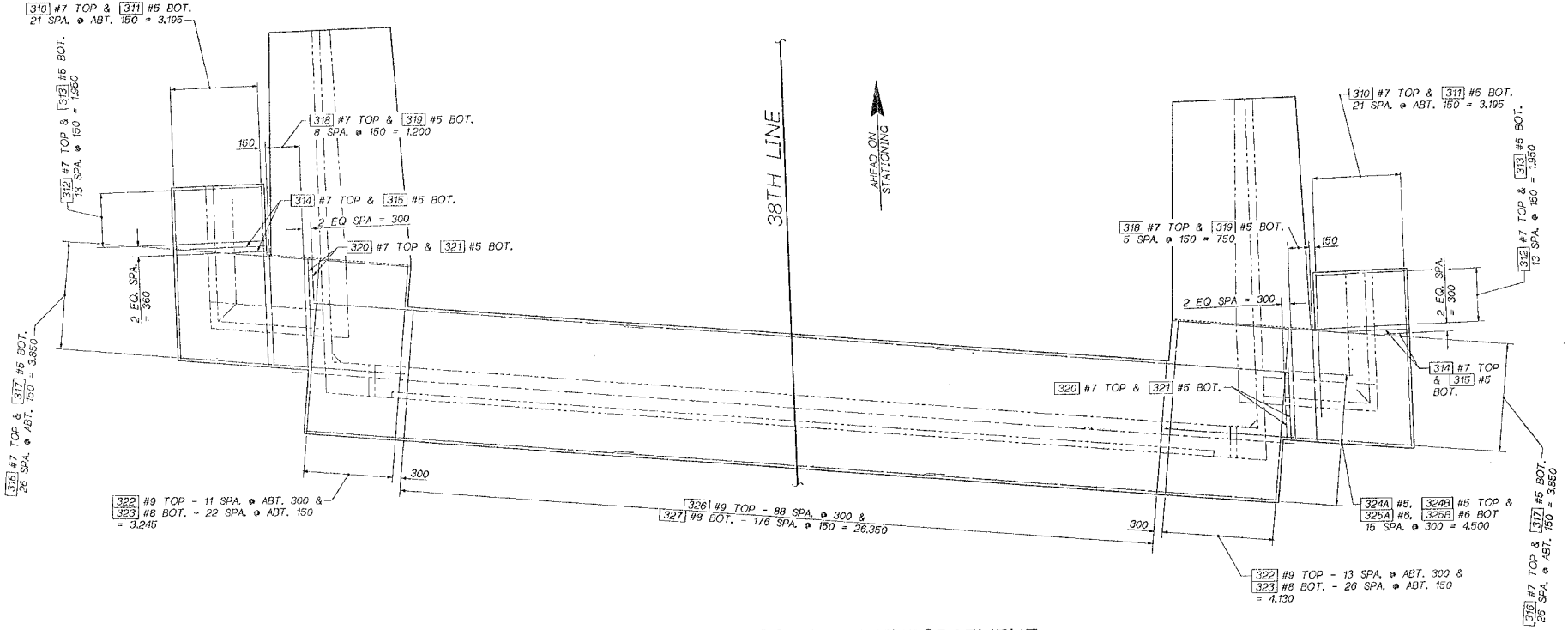
Bridge Design Engr. G. C. RUTH	5038TH STREET INTERCHANGE, 38TH STREET PIER 3, P&B-1	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND	1/15/00 Revisal Dimensions	10	WASH.			
Designed By T. DRAKE 6/97						
Checked By JMERITH 3/98						
Detailed By L. ANDREOTTI						
Bridge Projects Eng.						
Prelim. Plan By						
Architect/ Specialist	DATE	REVISION	BY	APP'D		
					5935	

BRIDGE AND STRUCTURES OFFICE	DATE	7-12-00
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION	DATE	7-12-00



SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT
PIER 3 GEOMETRY

SHEET NO.	25
SHEET OF	34
DRAWN BY	12-11-00



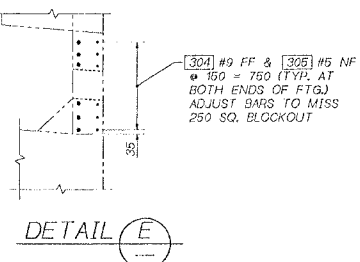
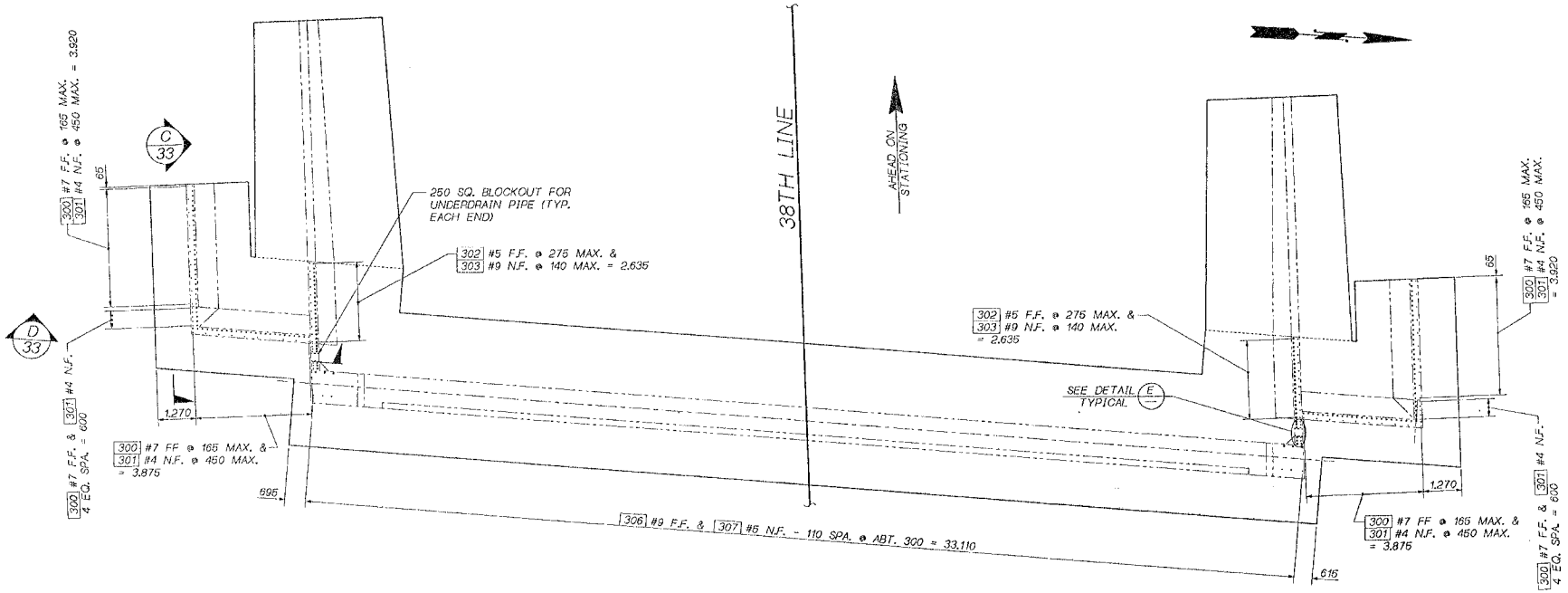
PLAN - PIER 3 FOOTING REINFORCEMENT

FOR WAS CONSTRUCTED
PLANS ONLY

SR 5 JOB NO. 7179 SHEET 26

Bridge Design Engr. C. C. RUTH Supervisor J. A. VAN LUND Designed by T. BRANE 2/97 Checked by J. MERTH 3/98 Detailed by L. ANDREOTTI Bridge Projects Eng. Prelim. Plan By Architect/Specialist	5038TH LINE ROOT (FGB, 5038TH LINE PIER 1, FIG. FGB. 1)	REGION NO. STATE FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS	10 WASH JOB NUMBER 00C627 5935	BRIDGE AND STRUCTURES OFFICE 7-11-00	7-12-00 (REVISION 10/02)	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 6/450 REPLACEMENT PIER 3 FOOTING REINFORCEMENT	PROJECT SHEET NO. 26 SHEET 169 OF 314 SHEETS
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72-JY-00



PLAN - PIER 3 FOOTING DOWELS

SR 5 - JOB NO. 7179 SHEET 27

Bridge Design Eng. D. G. RUTH	SO 38TH STREET INT. (Pier 3) PIER 3 DOWEL FEB. 1	DESIGN NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH.			
Designed By T. BRKE 6/97						
Checked By J. MERTH 3/98						
Detailed By L. ANDREOTTI						
Bridge Projects Eng.						
Drawn: Plan By				JOB NUMBER		
Checked By				000527		
DATE	REVISION	BY	APP'D	5935		

BRIDGE AND STRUCTURES OFFICE

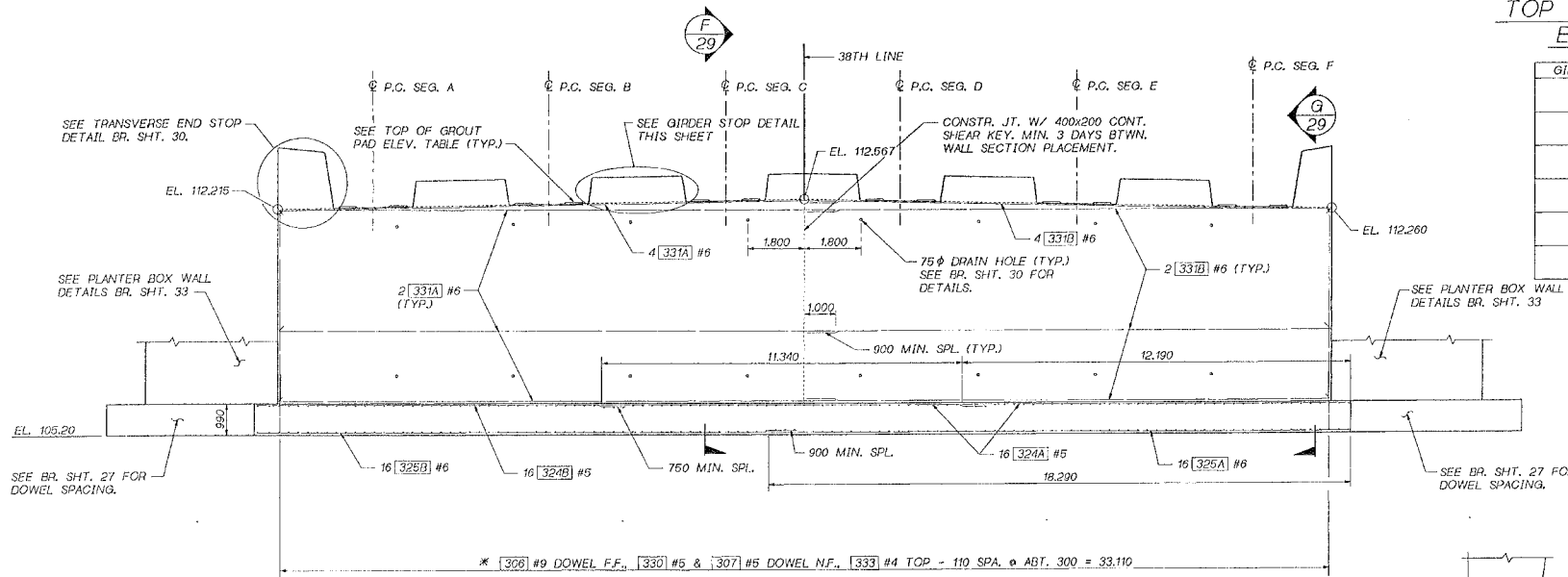
Washington State Department of Transportation

SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/480 REPLACEMENT	PIER 3 FOOTING DOWELS	27 160 314
---	--------------------------	------------------

12-JUL-00

TOP OF GROUT PAD
ELEVATIONS

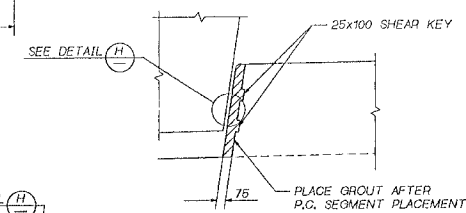
GIRDER	ELEVATION
A	112.313 - SOUTH 112.347 - NORTH
B	112.430 - SOUTH 112.464 - NORTH
C	112.547 - SOUTH 112.581 - NORTH
D	112.576 - SOUTH 112.547 - NORTH
E	112.474 - SOUTH 112.444 - NORTH
F	112.372 - SOUTH 112.342 - NORTH



ELEVATION - PIER 3

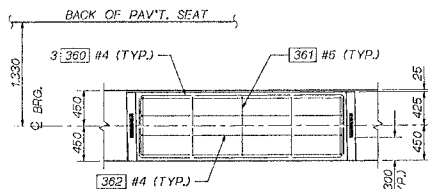
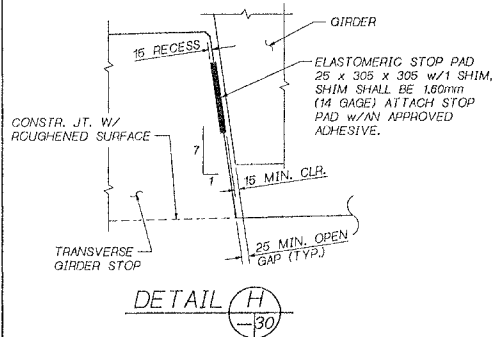
WALL SURFACE TREATMENT NOT SHOWN. FOR DETAILS
SEE BR. SHEET 29.

* ADJUST BARS TO INSURE 40 CLR. FROM VERTICAL CONSTR. JT.
DIMENSIONS & ELEVATIONS ARE GIVEN ALONG C/BRG. PIER 3



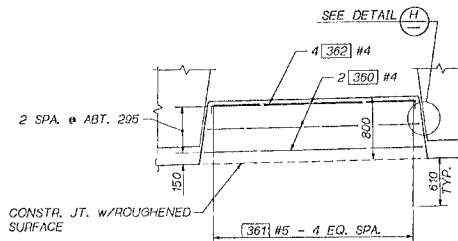
GIRDER STOP ALT.

FOR GIRDER STOPS CONSTRUCTED PRIOR
TO P.C. SEGMENT PLACEMENT.



PLAN - GIRDER STOP DETAIL

SHOWN FOR GIRDER STOP ALT. CONSTRUCTED AFTER
PRECAST SEGMENT PLACEMENT.

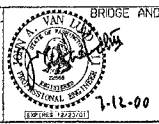


ELEVATION - GIRDER STOP DETAIL

FOR 'V.C. PILES' WITH
'PLANS' USE.

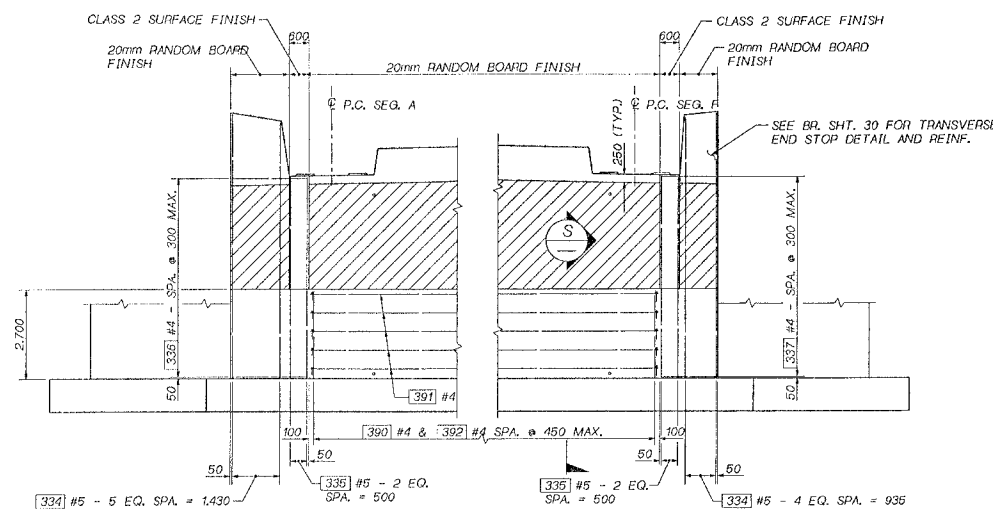
JOB NO. 7179 SHEET 28

Bridge Design Engr. G. C. RUTH	SO.38TH ST. INTERCH. (P&B, SO.38TH, IAD) PIER 3 EL. P&B:1	REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND		10	WASH.			
Designed by T. BRAKE 6/97						
Checked by J. MERTH 3/98						
Detailed by L. ANDREOTTI						
Bridge Projects Eng.						
Draft. Plan by						
Architect/Specifier	DATE	REVISION	BY	APP'D		
					5935	

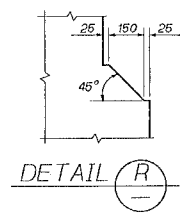


SR5	BRIDGE AND STRUCTURES OFFICE	TRUCK SHEET NO.
38TH STREET INTERCHANGE		28
& 38TH STREET UXING 6/430 REPLACEMENT		161
PIER 3 ELEVATION		OF 314
		SHEET

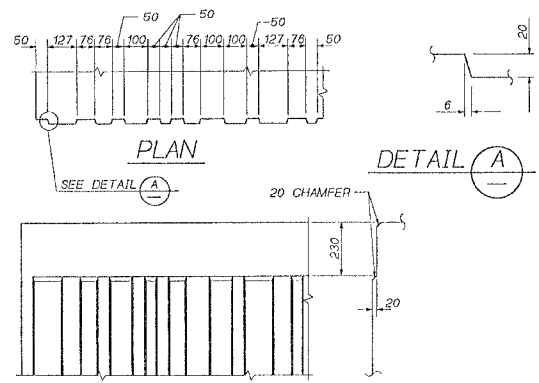
12-JY-00



PIER 3 - SURFACE TREATMENT DETAIL

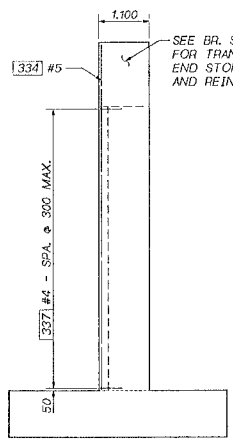


DETAIL R

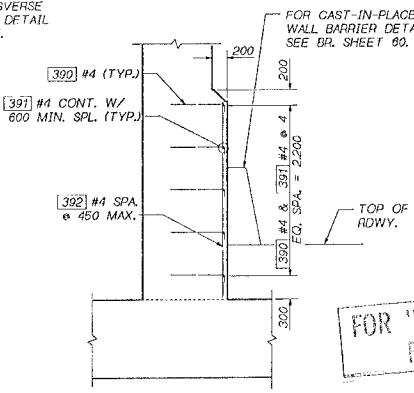


ELEVATION

20MM RANDOM BOARD TEXTURE

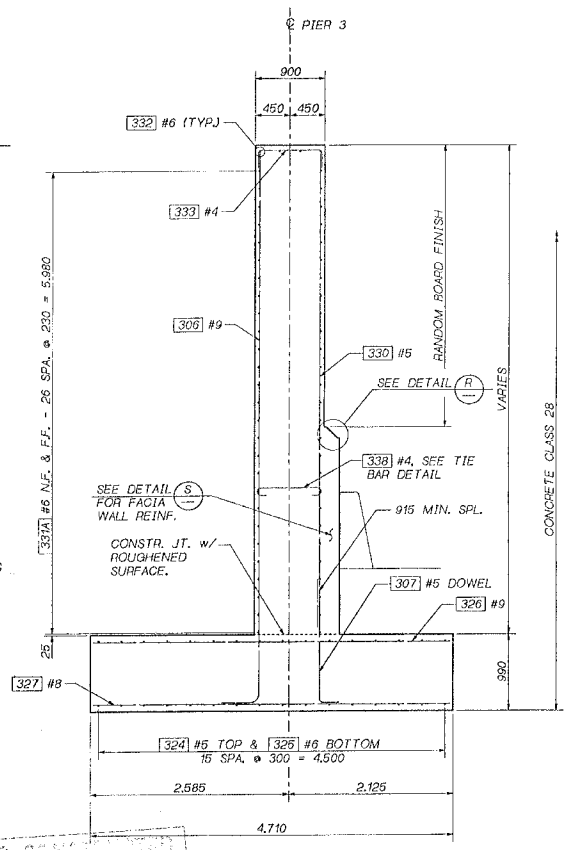


SECTION G



SECTION S

MAIN WALL REINF. NOT SHOWN FOR CLARITY.



SECTION F

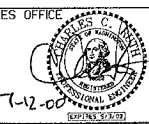
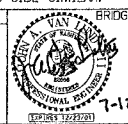
SEE BRIDGE SHT. 30 FOR DRAINAGE DETAILS.

FOR "AS CONSTRUCTED PLANS" ONLY

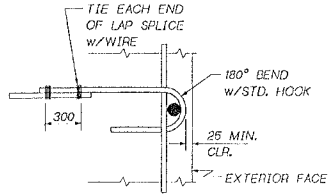
SR 5 JOB NO. 7179 SHEET 29

Bridge Design/Check/Drawn	5038TH INTERCHG. UFG. 3038TH IXP/PIER 3 SECT. F68. 7	PROJECT NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	J. A. VAN LIND	10	WASH.		5935	
Designed by	T. BRANE 8/97	JOB NUMBER				
Checked by	JMERITH 3/99	000527				
Detailed by	V.B. SCHLOCH 1/99					
Bridge Projects Engr.						
Printed, Plotted by						
Architect/Specifier		DATE	REVISION	BY	APP'D	

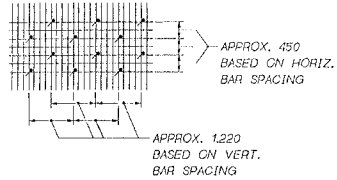
NORTH SIDE SHOWN, SOUTH SIDE SIMILAR.



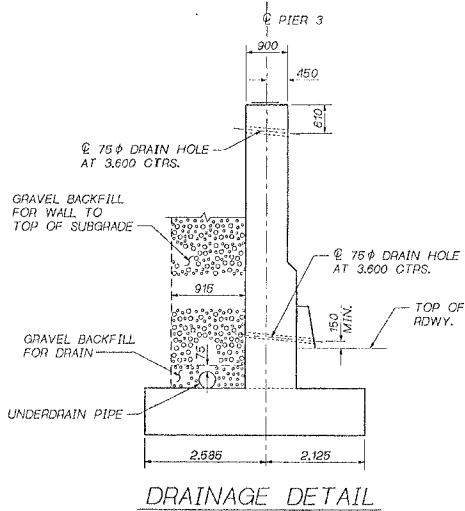
SR5	PIER 3 DETAILS	PIER NO.	29
38TH STREET INTERCHANGE		SHEET	152
S 38TH STREET UFGING 5/430 REPLACEMENT		OF	314
		SHEETS	



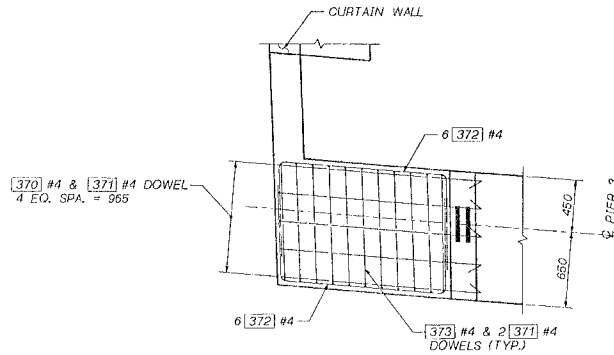
TIE BAR DETAIL



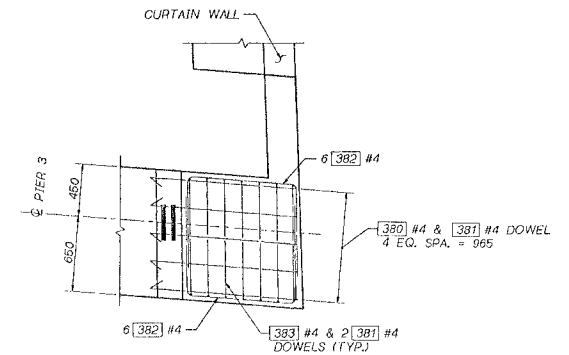
TIE SPACING DETAIL



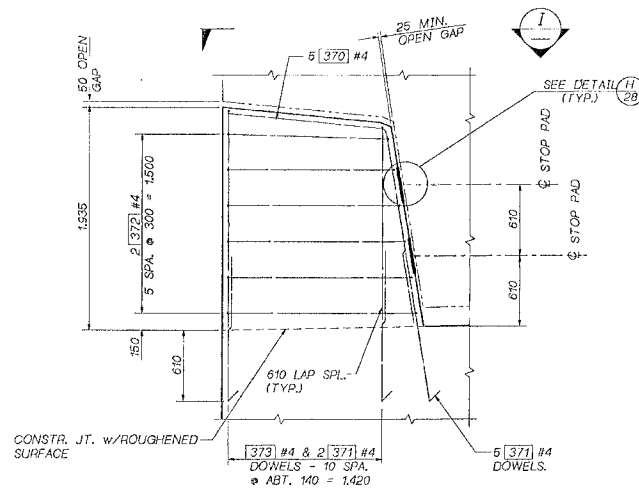
DRAINAGE DETAIL



VIEW I

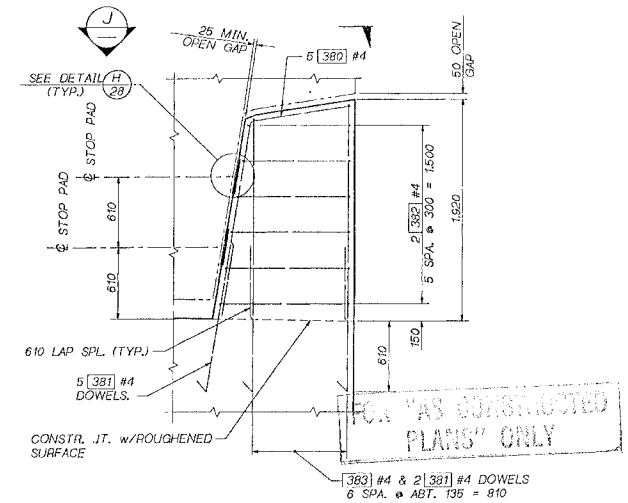


VIEW J



TRANSVERSE END STOP SOUTH SIDE @ PIER 3

PLACE AFTER P.C. SEGMENT IS SET AND SLAB IS CAST.

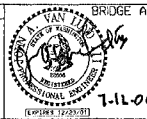


TRANSVERSE END STOP NORTH SIDE @ PIER 3

PLACE AFTER P.C. SEGMENT IS SET AND SLAB IS CAST.

SR 5 JOB NO. 7179 SHEET 30

Bridge Design Engr. CCR	5038TH OVERROOT (1.FCB, 5038TH, PAV) PIER 3 STOPS, FCB. 1	SECTION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH.			
Designed by T. BRANE 6/97						
Checked by JMERTH 3/98						
Detailed by V.B. SCHLOGLI 2/99						
Bridge Projects Engr.						
Pretrn. Plan by						
Architect/Specifier	DATE	REVISION	BY	APPD		
					5935	

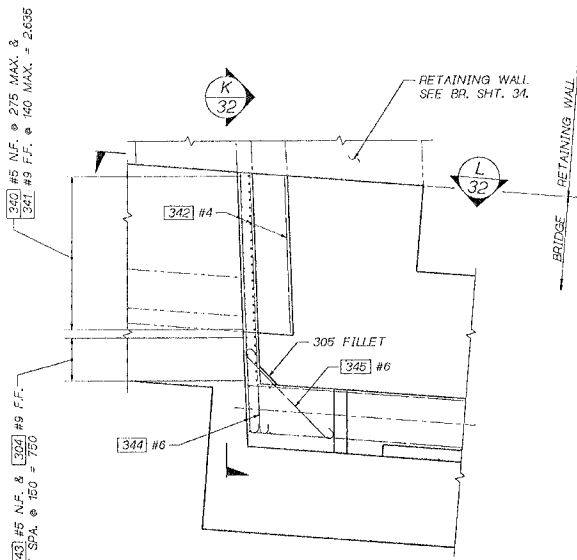


SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT

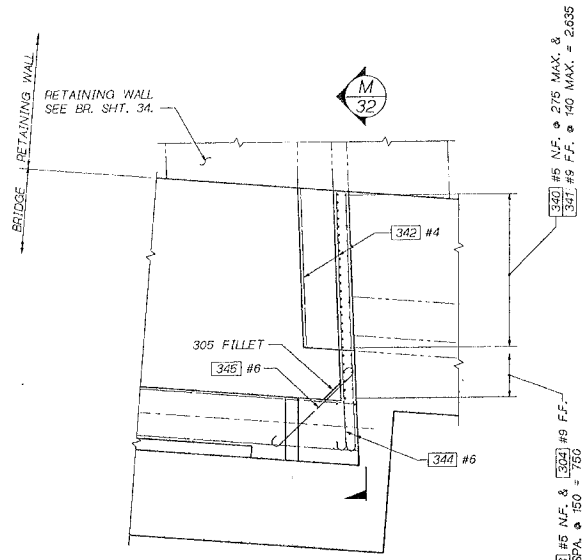
PIER 3 DETAILS

SCALE SHEET NO. 30
SHEET 463 OF 314 SHEETS

SR 5 JOB NO. 1179 SHEET 31



DETAIL A
25





DETAIL B
25


FOR "AS CONSTRUCTED" PLANS ONLY

Bridge Design Engr. C. RUTH	SO38TH.ONRROOT LF68.S038TH.TWOPIER.3.DETLS.F68.7	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND			10 WASH			
Designed By T. BRAKE 6/97						
Checked By JMERTH 3/98						
Detailed By V.B. SCHICCHI 1/98						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specifier	DATE	REVISION	BY	APP'D	5935	

BRIDGE AND STRUCTURES OFFICE

7-11-00 7-12-00



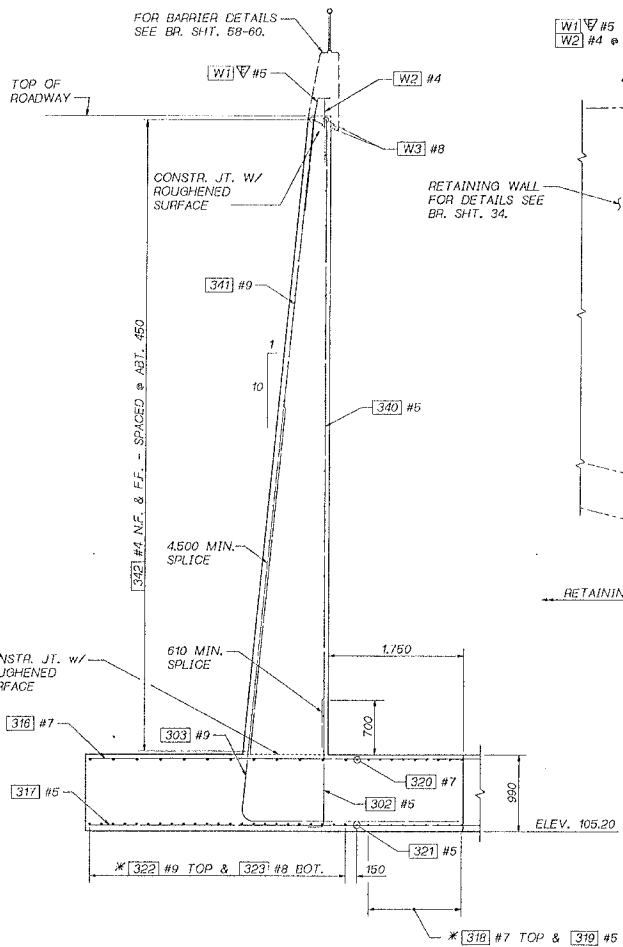
**Washington State
Department of
Transportation**

SR5
38TH STREET INTERCHANGE
S 38TH STREET U/XING 6/430 REPLACEMENT

PIER 3 DETAILS

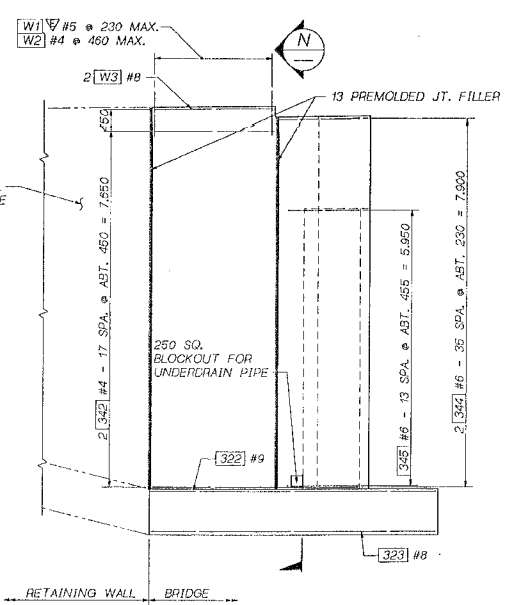
BRIDGE SHEET NO.	31
SHEET OF	164 OF 344 SHEETS

12-11-00



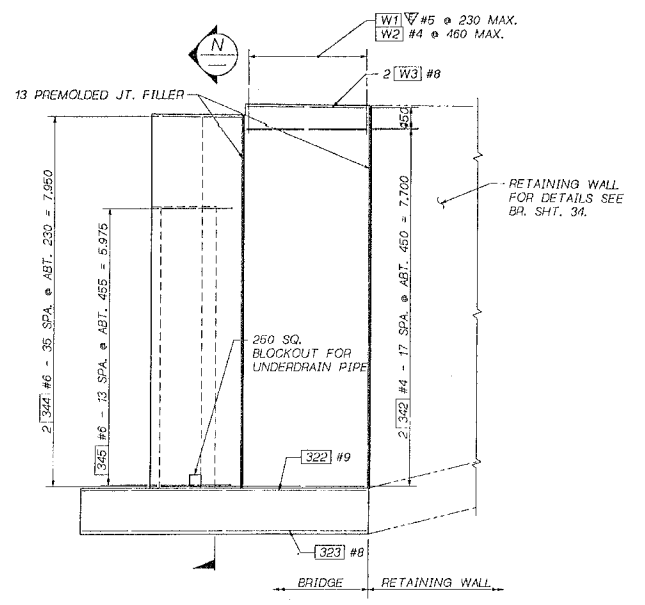
VIEW (L) 31

SOUTH CURTAIN WALL SHOWN. NORTH CURTAIN WALL SIMILAR.
* FOR SPACING SEE DR. SHT. 26.



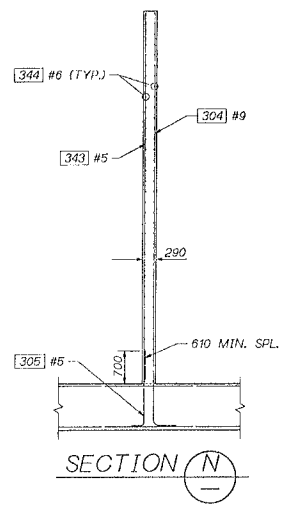
VIEW (K) 31

BARRIER NOT SHOWN FOR CLARITY



VIEW (M) 31

BARRIER NOT SHOWN FOR CLARITY



SECTION (N)

FOR "AS SUBMITTED PLANS" ONLY

SR 5 JOCS NO. 1179 SHEET 32

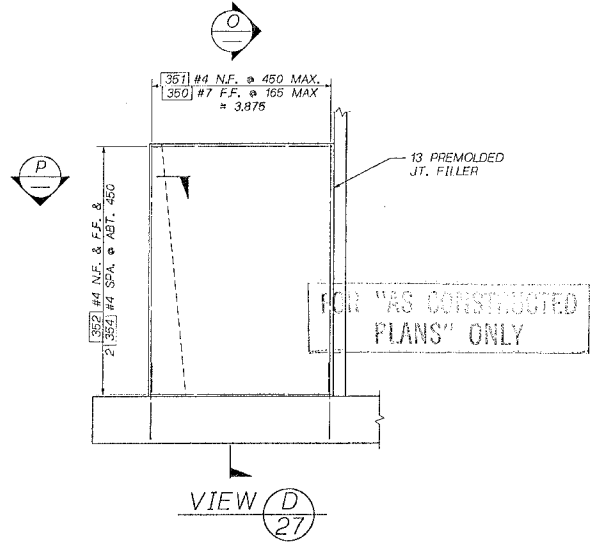
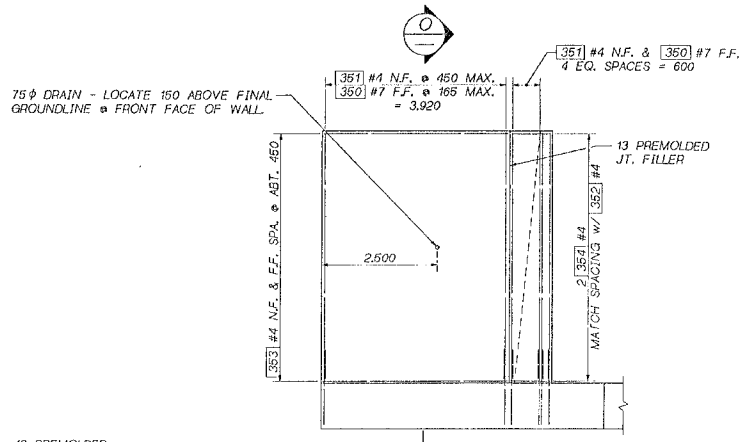
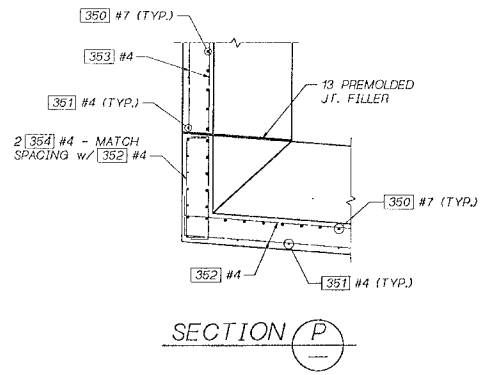
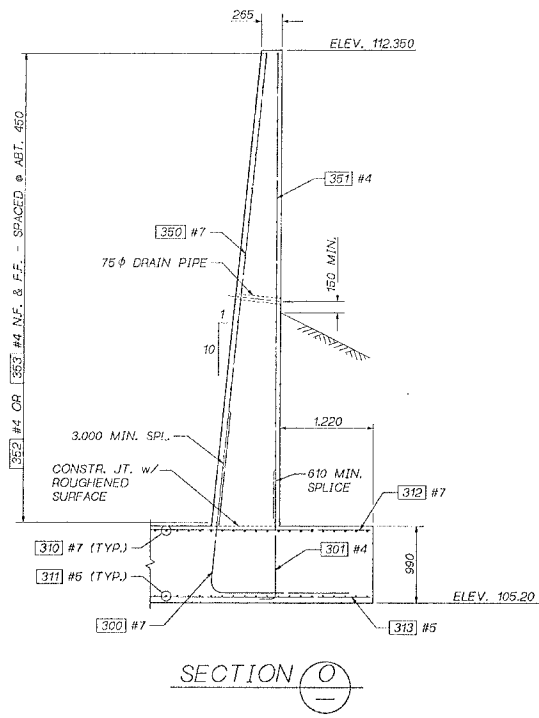
Bridge Design Engr. C. G. RUTH	3038TH OVERROOT (FED. 3038TH TWO) PIER 3 CURTAIN WALL	PIER 3	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor: J. A. WAY LUND			10 WASH.			
Designed by: T. BRAKE 8/97						
Checked by: J. MERTH 2/98						
Detailed by: VA. SHIGUCHI 2/98						
Bridge Projects Eng.						
Prelim. Plan by						
Architect/Specifier	DATE	REVISION	BY	APP'D	5935	
12-JLT-00						

BRIDGE AND STRUCTURES OFFICE

Washington State
Department of
Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT
PIER 3 CURTAIN WALLS

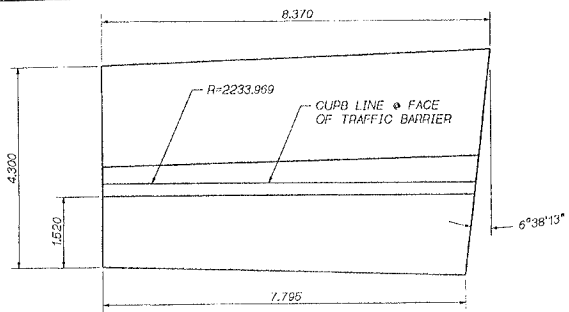
PROJECT NO.	32
SHEET NO.	65
OF	54
SHEETS	



PIER 3 PLANTER BOX WALL
 SOUTH PLANTER BOX WALL SHOWN. NORTH PLANTER BOX WALL SIMILAR EXCEPT FOR SKEW.

SR 5 - JOB NO. 1179 - SHEET 33

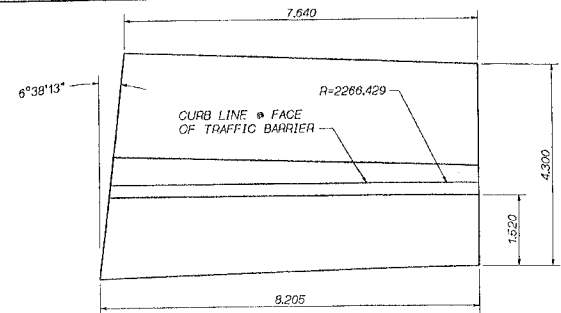
Bridge Design Engr. O. C. RUTH	SD38TH_INTERCHG (FOR SD38TH TWP) PIER 3 PLANTER BOX WALL	10	WASH	FED. AID PROJ. NO.	NO.	TOTAL	3,921.00	BRIDGE AND STRUCTURES OFFICE		SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT PIER 3 PLANTER BOX WALL	33
Supervisor J. A. VAN LIND											12-JULY-00
Designed By J. MERTH 2/98											
Checked By T.M. MOORE 3/98											
Checked By V.A. SCHICCHI 3/98											
Bridge Projects Engr.											
Prelim. Pion By											
Architect/Specialist											
DATE	REVISION	BY	APP'D.								



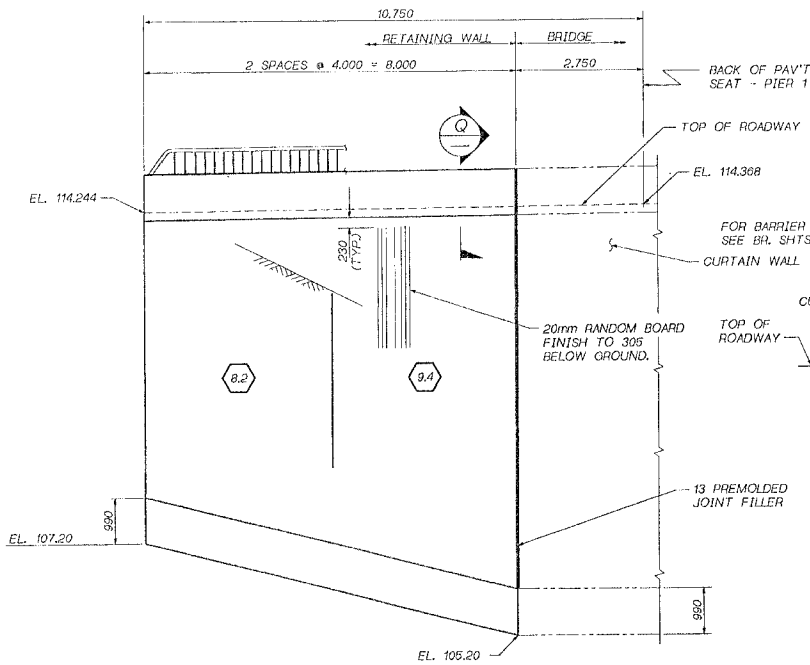
WALL PLAN - PIER 3 (SOUTH)
TRAFFIC BARRIER NOT SHOWN FOR CLARITY

NOTES:

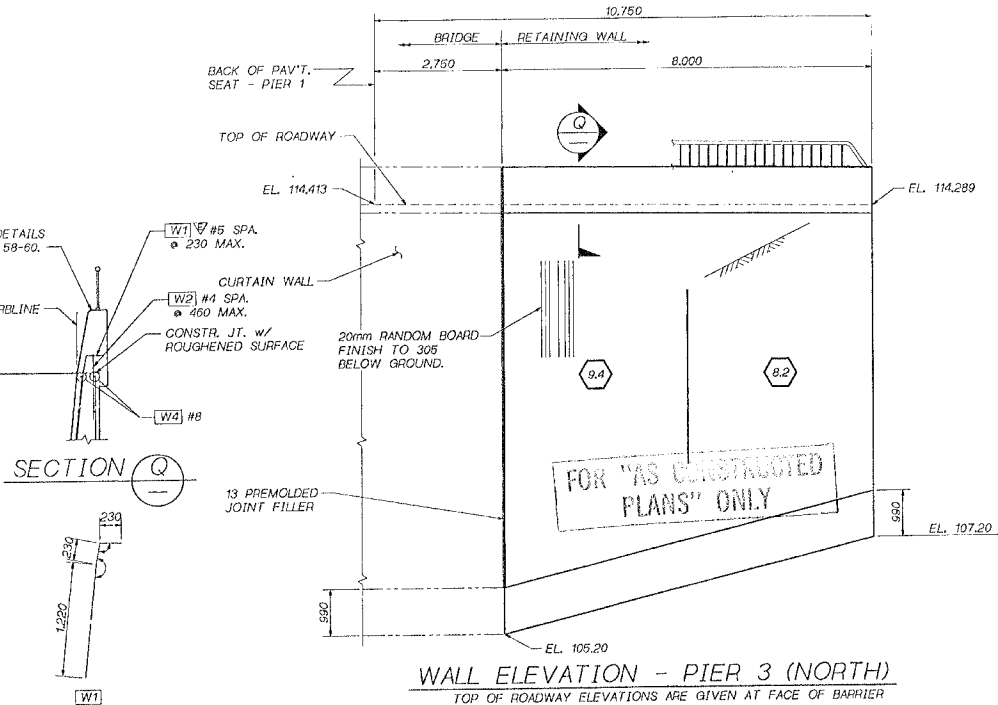
1. SEE STD. PLAN D-1a FOR TYPE 1 RETAINING WALL DETAILS.
2. INDICATES THE "H" DIMENSION TO BE USED IN STD. PLAN D-1a FOR REINFORCING DETAILS.



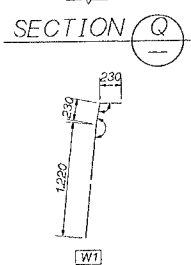
WALL PLAN - PIER 3 (NORTH)
TRAFFIC BARRIER NOT SHOWN FOR CLARITY



WALL ELEVATION - PIER 3 (SOUTH)
TOP OF ROADWAY ELEVATIONS ARE GIVEN AT FACE OF BARRIER

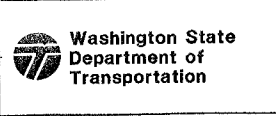


WALL ELEVATION - PIER 3 (NORTH)
TOP OF ROADWAY ELEVATIONS ARE GIVEN AT FACE OF BARRIER



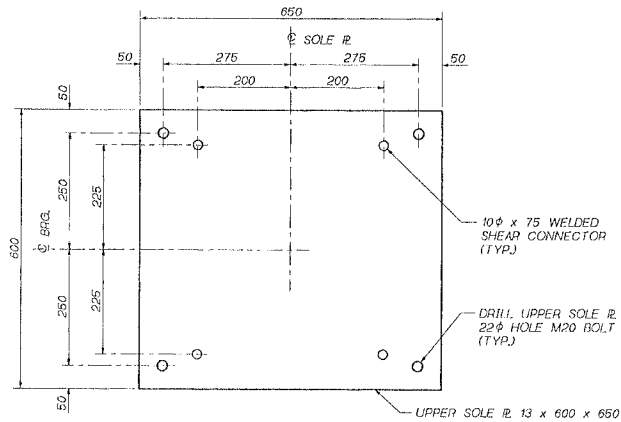
SHEET NO. 34 OF 34

Bridge Design Engr. G. C. RUTH	38TH STREET INTERCHANGE FOR SOUTH AND PIER 3 RET WALLS FOR SR5	STATE	WASH.	FED. AID PROJ. NO.		SHEET NO.	34	TOTAL SHEETS	34
Supervisor J. A. VAN LUND									
Designed By T. BRAKE 6/97									
Checked By J. MERTH 2/98									
Detailed By V.B. SCHIOCHI 2/98									
Bridge Projects Eng.									
Prelim. Plan By									
Architect/ Specialist									
DATE	REVISION	BY	APP'D	5935					

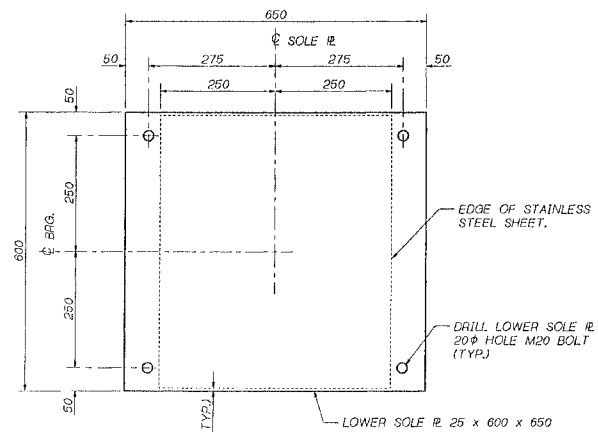


SR5	38TH STREET INTERCHANGE	34
	S 38TH STREET USING 5/430 REPLACEMENT	157
	PIER 3 - RETAINING WALLS	314

12-17-00



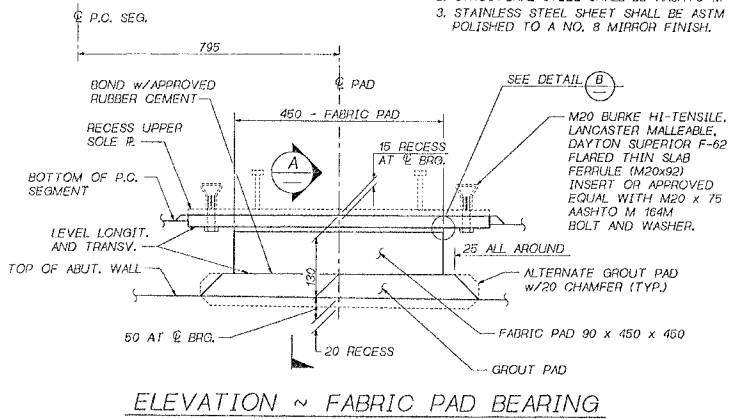
PLAN - UPPER SOLE PL.



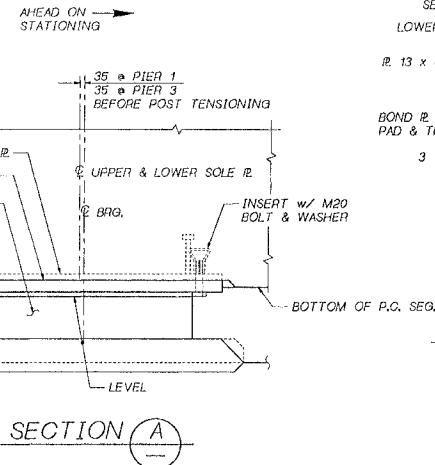
PLAN - LOWER SOLE PL.

BEARING NOTES

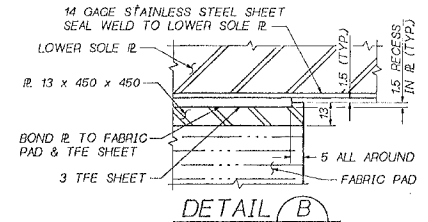
1. BEARING ELEMENTS SHALL BE REMOVABLE AND REPLACEABLE.
2. STRUCTURAL STEEL SHALL BE AASHTO M 183M.
3. STAINLESS STEEL SHEET SHALL BE ASTM A 240 TYPE 304L POLISHED TO A NO. 8 MIRROR FINISH.



ELEVATION ~ FABRIC PAD BEARING



SECTION (A)



DETAIL (B)

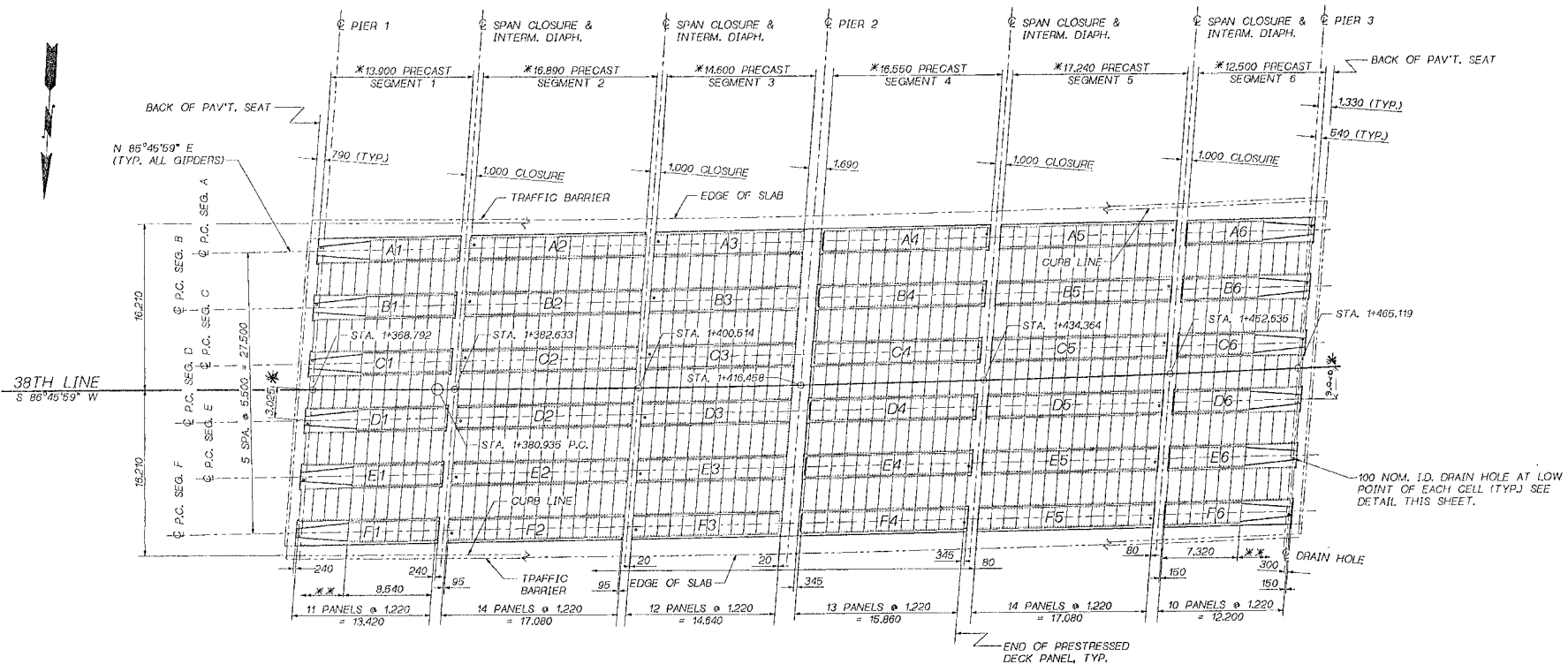
FOR "AS CONSTRUCTED PLANS" ONLY

SUGGESTED INSTALLATION SEQUENCE

1. FORM GROUT PAD.
2. BOND FABRIC PAD TO GROUT PAD.
3. FABRICATE P.C. SEG. WITH UPPER AND LOWER SOLE PL.'S & STAINLESS STEEL SHEET IN PLACE.
4. ERECT P.C. SEGMENTS ON FABRIC PAD WITH BACKING PL. AND PTFE.

SHEET NO. 35

Bridge Design Engr. G. RUTH Supervisor J. A. VAN LUND Designed by T. BRAKE 6/97 Checked by J. MERTH 2/98 Dated by V.B. SCHICHT 5/07 Bridge Projects Engr. Drawn by Architect/Specifier R.L. DENNISE	3038TH OVERDOT - (FEB. 3038TH TWO BEARING, FIG. 1)	RESCH. NO. STATE FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS 10 WASH. 5935		BRIDGE AND STRUCTURES OFFICE 	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT BEARING DETAILS	BRIDGE SHEET NO. 35 SHEET 168 OF 314
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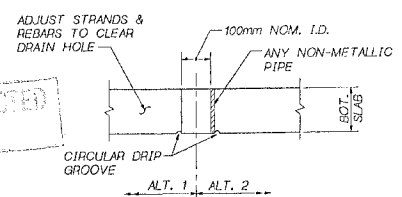


FRAMING PLAN

BEARING OF ALL PIERS IS N 1°12'00" E
 ** OMIT PRESTRESSED DECK PANEL WITHIN PRECAST SEGMENT SECTION, TYP. NEAR PIERS 1 & 3 WEB WIDENING.

* DISTANCE FROM 38TH LINE TO C. OF P.C. SEGMENT AT TOP OF ROADWAY SLAB

FOR "AS CONSTRUCTED PLANS" ONLY



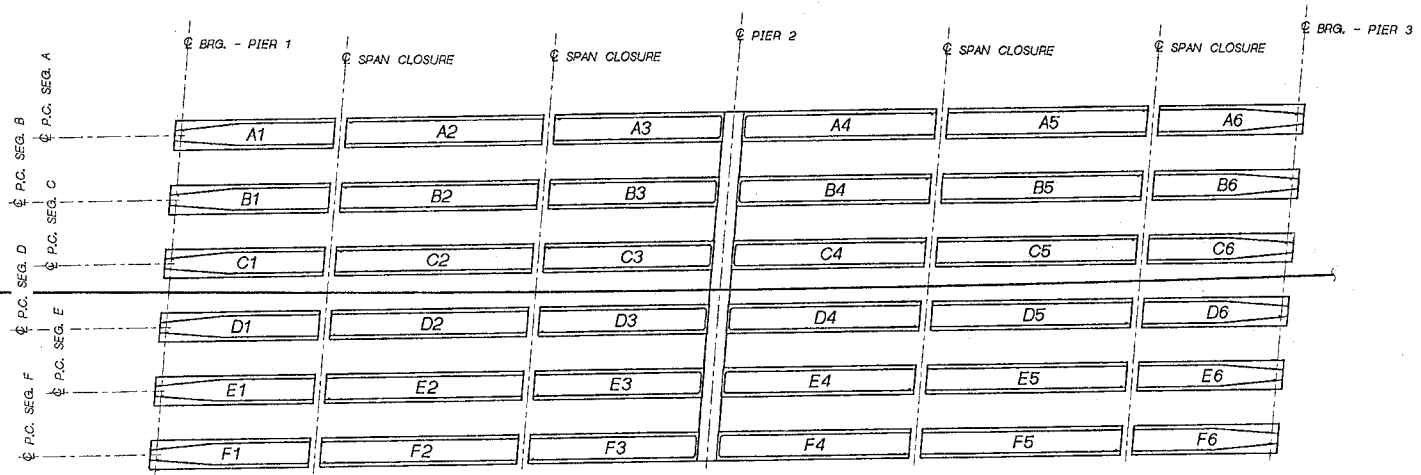
BOTTOM SLAB DRAIN HOLE

JOB NO. 7172, SHEET 36

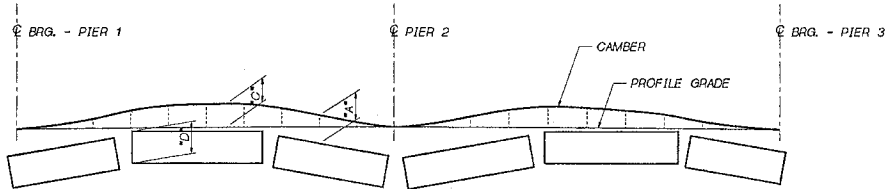
Bridge Design Engr. C.G.R.	3038TH INTERCH. (FOR 3038TH TWIN FRAM. FEB. 1	DESIGN NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS					BRIDGE AND STRUCTURES OFFICE 7-11-00 7-12-00 7-13-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT FRAMING PLAN	36
Supervisor J. A. VAN LUND			10 WASH.											36 37 38 39 40 41 42
Designed By J. MERTH 1/98	includes ADDED Note													
Checked By T.M. MOORE 3/98														
Detailled By L. ANDREOTTI														
Bridge Projects Eng.														
Prelim. Plan by														
Architect/ Specialist	DATE	REV	SIGN	BY	APP'D									
					5935									

12-117-00

38TH LINE
S 85°42'25" W

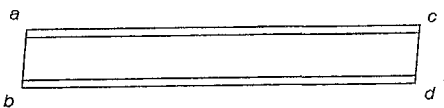


△ "A" = 225 (TYP.) = TOP OF PC SEGMENT TO TOP OF SLAB.
(INCLUDES NOMINAL 25mm GROUT PAD FOR PRESTRESSED DECK PANELS)
SEE BR. SHT. 48 FOR TYPICAL SECTION.
"D" = 1,775 (TYP.) = DEPTH OF PC SEGMENT.
"C" = CAMBER



CAMBER (mm)	TENTH POINTS - SPAN 1									TENTH POINTS - SPAN 2								
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	3	8	15	19	20	20	16	10	4	3	9	15	18	17	15	12	6	2

CAMBER DIAGRAM



P.C. SEGMENT
ELEVATION POINTS
SEE BR. SHT. 38 FOR ELEVATION TABLES

NOTES:

THE ELEVATIONS GIVEN ARE TEMPORARY FALSEWORK SUPPORT ELEVATIONS FOR THE BOTTOM CORNERS OF THE PRECAST SEGMENTS. THE EFFECTS OF FINAL CAMBER DUE TO DEAD LOAD AND POST-TENSIONING ARE INCLUDED.
THE CONTRACTOR SHALL ADJUST THE ELEVATIONS AT TEMPORARY FALSEWORK SUPPORTS FOR THE ANTICIPATED TAKE-UP IN THE FALSEWORK.

FOR "AS CONSTRUCTED
PLANS" ONLY

JOB NO. 7179 - SHEET 37

Bridge Design Engr. C. G. RUTH	SO38TH LINE ROOT-1 FOR SO38TH TWO PC ELEVATION FOR 1	NO. 10	STATE	FED. AND PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE		SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT P.C. SEGMENT LAYOUT AND CAMBER	SHEET NO. 37 OF 170 SHEETS 314
Supervisor J. A. VAN LUND	3/7/2011	10	WASH							
Designed By J. MERTH 3/98	△ ADVISED BEARING & REVISED NOTE							Washington State Department of Transportation		
Checked By T.M. MOORE 3/98							3/7/11			
Distibled By L. ANDREOTTI										
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist	DATE	REVISION	BY	APP'D	5935					

07-MR-01

SEGMENT	CORNER	STATION	OFFSET	ELEV.
A1	a	*	*	*
	b	*	*	*
	c	1+383.324	14.977	112.642
	d	1+383.124	12.474	112.690
A2	a	1+384.335	14.993	112.651
	b	1+384.134	12.489	112.699
	c	1+401.344	15.181	112.758
	d	1+401.123	12.679	112.807
A3	a	1+402.355	15.189	112.762
	b	1+402.133	12.686	112.811
	c	1+417.052	15.241	112.767
	d	1+416.814	12.741	112.817
A4	a	1+418.764	15.241	112.766
	b	1+418.524	12.741	112.816
	c	1+435.424	15.173	112.729
	d	1+435.165	12.675	112.781
A5	a	1+436.436	15.165	112.723
	b	1+436.175	12.667	112.775
	c	1+453.796	14.966	112.574
	d	1+453.516	12.460	112.627
A6	a	1+454.807	14.940	112.563
	b	1+454.526	12.444	112.616
	c	**	**	**
	d	**	**	**

SEGMENT	CORNER	STATION	OFFSET	ELEV.
B1	a	*	*	*
	b	*	*	*
	c	1+382.844	9.470	112.748
	d	1+382.684	6.967	112.796
B2	a	1+383.892	9.485	112.757
	b	1+383.692	6.982	112.805
	c	1+400.859	9.677	112.866
	d	1+400.639	7.175	112.915
B3	a	1+401.868	9.684	112.870
	b	1+401.647	7.183	112.919
	c	1+416.529	9.741	112.878
	d	1+416.292	7.240	112.928
B4	a	1+418.236	9.741	112.877
	b	1+417.997	7.241	112.927
	c	1+433.885	9.677	112.847
	d	1+434.599	7.179	112.894
B5	a	1+435.864	9.669	112.837
	b	1+435.606	7.171	112.888
	c	1+453.182	9.465	112.690
	d	1+452.904	6.969	112.743
B6	a	1+454.191	9.449	112.680
	b	1+453.912	6.953	112.733
	c	**	**	**
	d	**	**	**

SEGMENT	CORNER	STATION	OFFSET	ELEV.
C1	a	*	*	*
	b	*	*	*
	c	1+382.445	3.963	112.854
	d	1+382.247	1.459	112.903
C2	a	1+383.451	3.978	112.863
	b	1+383.252	1.475	112.912
	c	1+400.316	4.173	112.974
	d	1+400.158	1.671	113.023
C3	a	1+401.383	4.181	112.978
	b	1+401.163	1.679	113.027
	c	1+416.008	4.240	112.988
	d	1+415.772	1.740	113.038
C4	a	1+417.705	4.180	112.989
	b	1+417.473	1.741	113.037
	c	1+434.290	4.191	112.995
	d	1+434.034	1.683	113.007
C5	a	1+436.296	4.174	112.950
	b	1+435.039	1.676	113.001
	c	1+452.572	3.974	112.807
	d	1+452.295	1.478	112.860
C6	a	1+453.578	3.958	112.796
	b	1+453.300	1.462	112.849
	c	**	**	**
	d	**	**	**

** FOR PIER 1 TOP OF GROUT
PAD ELEVATIONS SEE BRIDGE
SHEET 13.

** FOR PIER 3 TOP OF GROUT
PAD ELEVATIONS SEE BRIDGE
SHEET 28.




SEGMENT	CORNER	STATION	OFFSET	ELEV.
D1	a	*	*	*
	b	*	*	*
	c	1+382.009	1.545	112.899
	d	1+381.813	4.048	112.847
D2	a	1+383.013	1.529	112.908
	b	1+382.814	4.033	112.856
	c	1+399.896	1.331	113.029
	d	1+399.679	3.833	112.978
D3	a	1+400.900	1.323	113.033
	b	1+400.682	3.825	112.982
	c	1+415.490	1.280	113.047
	d	1+415.265	3.761	112.997
D4	a	1+417.189	1.269	113.047
	b	1+416.952	3.759	112.997
	c	1+433.727	1.315	113.015
	d	1+433.472	3.813	112.967
D5	a	1+434.731	1.322	113.010
	b	1+434.475	3.820	112.961
	c	1+451.964	1.517	112.892
	d	1+451.689	4.014	112.815
D6	a	1+452.988	1.533	112.851
	b	1+452.692	4.029	112.804
	c	**	**	**
	d	**	**	**

SEGMENT	CORNER	STATION	OFFSET	ELEV.
E1	a	*	*	*
	b	*	*	*
	c	1+381.577	7.053	112.784
	d	1+381.390	9.556	112.732
E2	a	1+382.576	7.037	112.794
	b	1+382.379	9.540	112.742
	c	1+399.419	6.835	112.917
	d	1+399.202	9.337	112.866
E3	a	1+400.420	6.827	112.921
	b	1+400.203	9.329	112.870
	c	1+414.974	6.761	112.937
	d	1+414.740	9.261	112.887
E4	a	1+416.669	6.759	112.937
	b	1+416.433	9.260	112.887
	c	1+433.167	6.811	112.908
	d	1+432.913	9.310	112.860
E5	a	1+434.168	6.818	112.903
	b	1+433.913	9.316	112.855
	c	1+451.360	7.009	112.759
	d	1+451.086	9.505	112.712
E6	a	1+452.361	7.024	112.748
	b	1+452.086	9.520	112.701
	c	**	**	**
	d	**	**	**

SEGMENT	CORNER	STATION	OFFSET	ELEV.
F1	a	*	*	*
	b	*	*	*
	c	1+381.144	12.661	112.670
	d	1+380.935	15.064	112.618
F2	a	1+382.142	12.544	112.680
	b	1+381.945	15.048	112.628
	c	1+398.943	12.339	112.804
	d	1+398.728	14.841	112.753
F3	a	1+399.942	12.331	112.809
	b	1+399.726	14.833	112.758
	c	1+414.460	12.262	112.827
	d	1+414.236	14.679	112.779
F4	a	1+416.151	12.260	112.827
	b	1+415.917	14.760	112.777
	c	1+432.809	12.308	112.801
	d	1+432.357	14.805	112.753
F5	a	1+433.608	12.314	112.796
	b	1+433.355	14.813	112.747
	c	1+450.758	12.501	112.655
	d	1+450.486	14.997	112.608
F6	a	1+451.757	12.516	112.644
	b	1+451.483	15.012	112.597
	c	**	**	**
	d	**	**	**

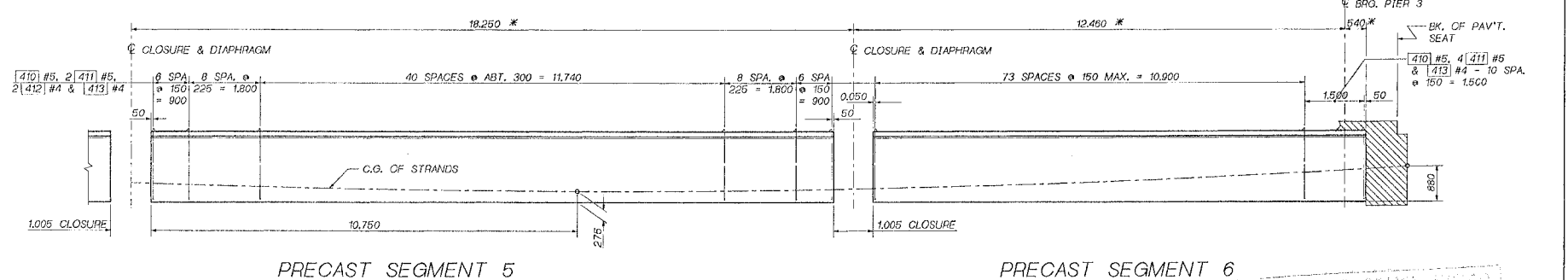
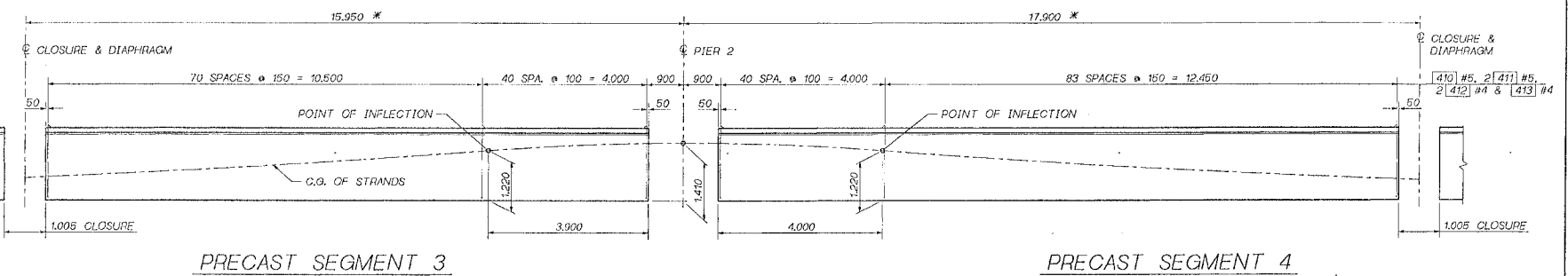
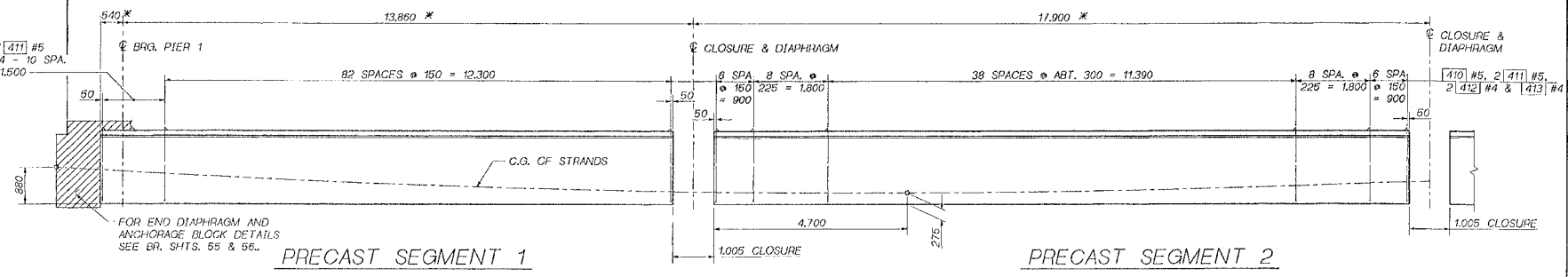
FOR 'AS CONSTRUCTED
PLANS' ONLY

SR 5 JOB NO. 7179 SHEET 38

Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LUND Designed by J. MERTH 3/98 Checked by T.M. MOORE 3/98 Detailed by V.B. SCHIOCHI 3/98 Bridge Projects Engr. Plotted By Architect/Specifier	SO38TH ONE FOOT (FGP, SO38TH TWO) PC ELEV. TABLES, FGP	PERSON NO. STATE 10 WASH. JOB NUMBER 000527	FED. AID PROJ. NO. BRIT. NO. TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE  	 Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT P.C. SEGMENT TABLES OF ELEVATIONS	SHEET 38 OF 171 SHEETS
DATE REVISION BY APP'D 5935 7-12-00							

BK. OF PAV'T. SEAT

[410] #5, 4 [411] #5 & [413] #4 - 10 SPA. @ 150 = 1,500

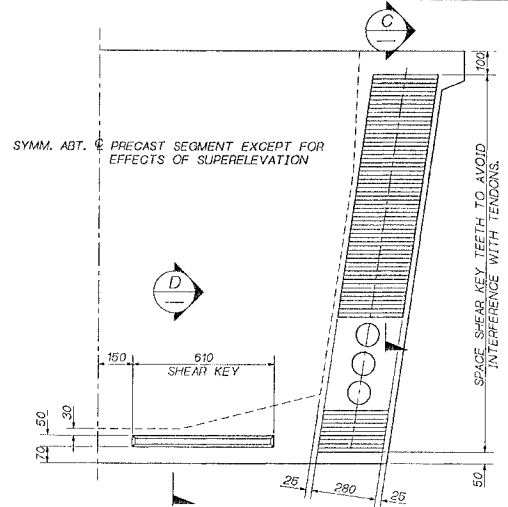
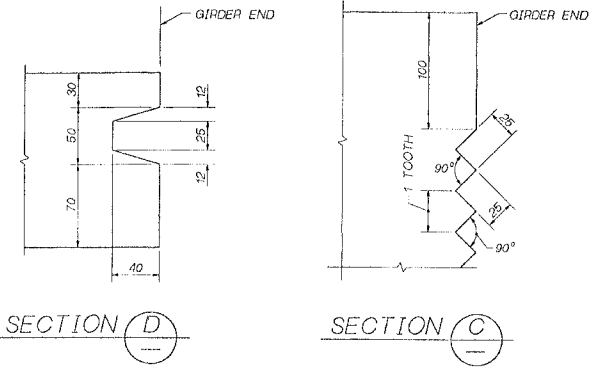


* DIMENSIONS MEASURED ALONG C GIRDER

FOR "AS CONSTRUCTED PLANS" ONLY

SR 5 JOB NO. 1179 SHEET 39

Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LUND Designed by J. MERIH 1/98 Checked by T.M. MOORE 3/98 Detailed by V.B. SCHROCKE 1/98 Bridge Projects Eng. Preim. Plan by Architect/Specifier 12-JUL-00	38TH STREET INTERCHANGE (FOR 38TH STREET) LONGITUDINAL P.C.	REGION STATE 10 WASH.	FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS 5935	BRIDGE AND STRUCTURES OFFICE 7-12-01	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET U/XING 5/430 REPLACEMENT LONGITUDINAL P.C. SEGMENT SECTIONS	PROJECT NO. SHEET NO. OF SHEETS 39 172 814
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P.C. SEGMENT - END DETAIL
TYPICAL BOTH ENDS OF P.C. SEGMENTS

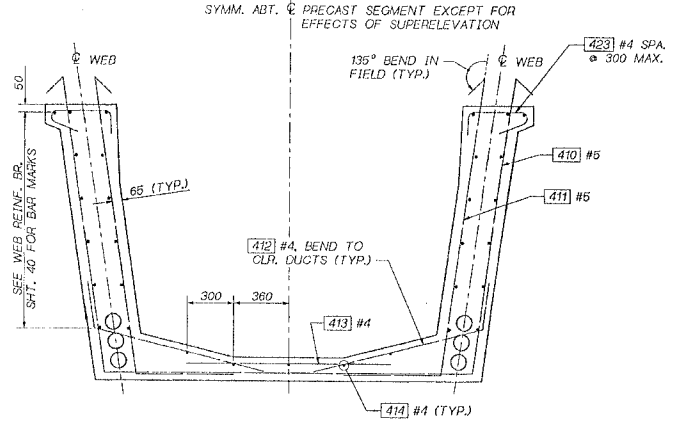
PRECAST SEGMENT NOTES

- A TOTAL OF 36 PRECAST SEGMENTS ARE REQUIRED, 18 PRECAST SEGMENTS PER SPAN.
- MINIMUM COMPRESSIVE STRENGTH OF PRECAST CONCRETE SHALL BE:
AT RELEASE = 35.0 MPa
AT 28 DAYS = 43.0 MPa
- TOTAL PRETENSION STRANDS AND JACKING FORCE PER SEGMENT:

SPAN	SEGMENT	No. OF STRANDS	JACKING FORCE
1	1	18	2480 kN
1	2	26	3580 kN
1	3	20	2760 kN
2	4	25	3450 kN
2	5	27	3720 kN
2	6	15	2070 kN

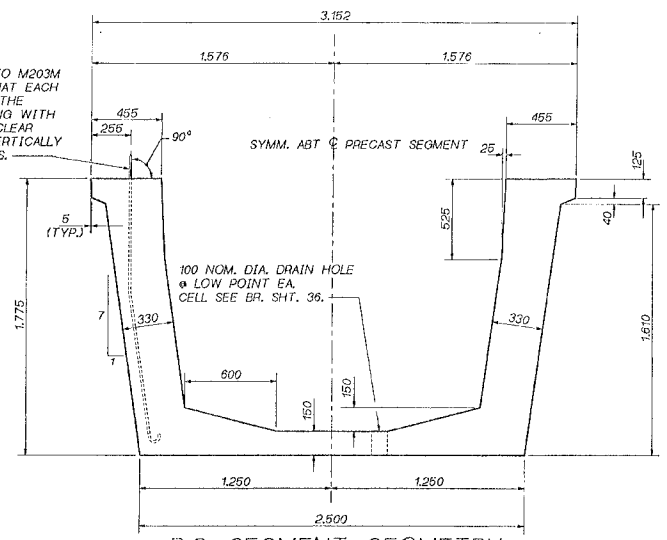
- ALL STRANDS SHALL BE 12.70mm LOW RELAXATION STRANDS (AASHTO M203M GRADE 1860)
- PRECAST SEGMENT PLAN LENGTHS SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRETENSIONING AND SHRINKAGE.

FOR "AS CONSTRUCTED PLANS" ONLY



P.C. SEGMENT REINFORCING

LIFTING LOOP 6 - 12.70mm STRANDS (AASHTO M203M GRADE 1860) WRAP LIFTING STRANDS SO THAT EACH STRAND WILL CARRY ITS EQUAL SHARE OF THE TOTAL LOAD. EXTEND LIFTING LOOPS ENDING WITH 230mm LONG 90° HOOK TO WITHIN 75mm CLEAR OF BOTTOM OF THE SEGMENT. PICK UP VERTICALLY USING SPREADER PARS IN BOTH DIRECTIONS.



P.C. SEGMENT GEOMETRY

SR 5 JOB NO. 117B SHEET 41

Bridge Design Engr. C.C.R.	3038TH ONEROOT 1 FEB, 3038TH TWO PC, 1 FEB, 1	REGION NO.	STATE	FED AID PROJ. NO.	WICK NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND			10 WASH.			
Designed By J. MERTH 1/98						
Checked By T.M. MOORE 3/98						
Cancelled By V.B. SCHIOCHI 2/06						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specifier						
DATE	REVISION	BY	APPD.	5935		

BRIDGE AND STRUCTURES OFFICE

1-12-00

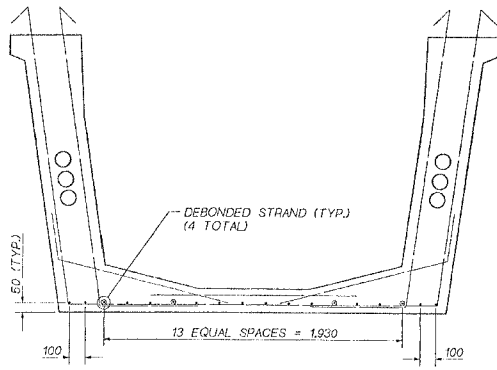
1-12-00

Washington State
Department of
Transportation

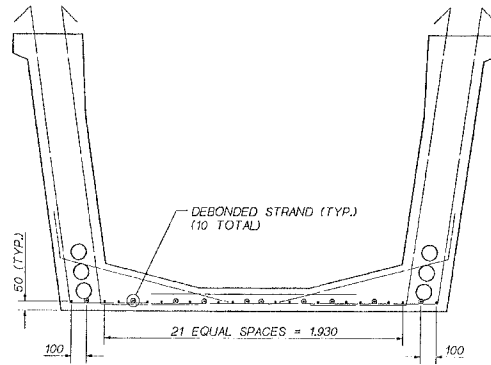
SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT

PRECAST SEGMENT TYP. DETAILS

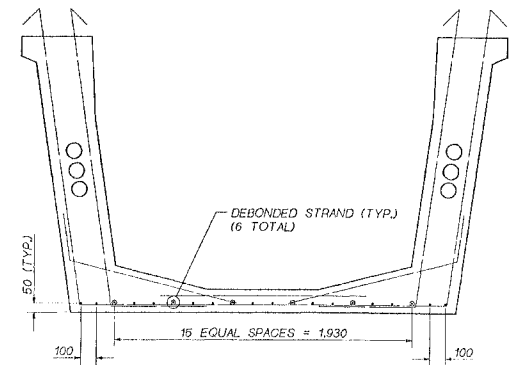
41
174
314
18414



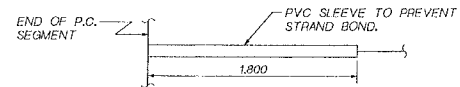
P.C. SEGMENT 1
LENGTH = 13,900



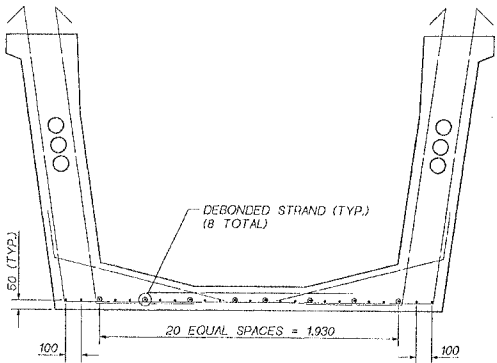
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LENGTH = 16,890



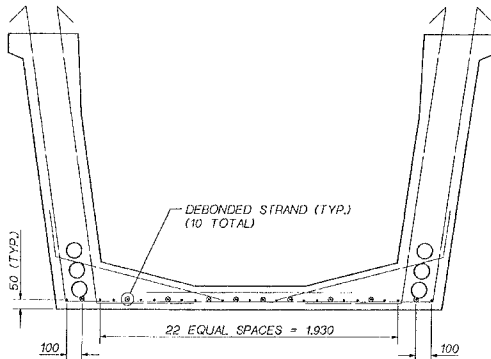
P.C. SEGMENT 3
LENGTH = 14,800



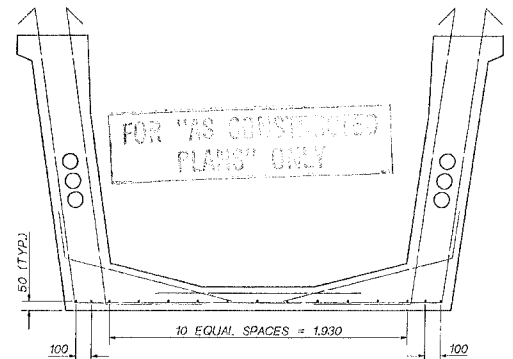
DEBONDED STRAND DETAIL



P.C. SEGMENT 4
LENGTH = 16,560



P.C. SEGMENT 5
LENGTH = 17,240



P.C. SEGMENT 6
(NO DEBONDED STRANDS)
LENGTH = 12,500

STRAND & DEBONDING PATTERNS

LONGITUDINAL REINFORCEMENT NOT SHOWN.
ADJUST STRAND LOCATION FOR DRAIN HOLES.

SR 15 JOB NO. 1179 SHEET 42

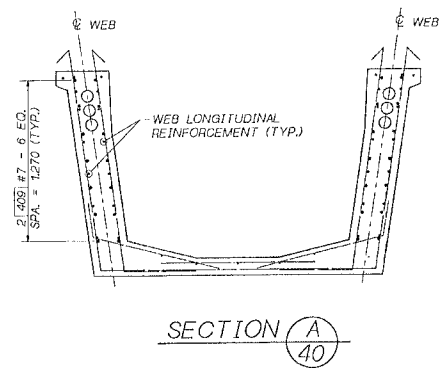
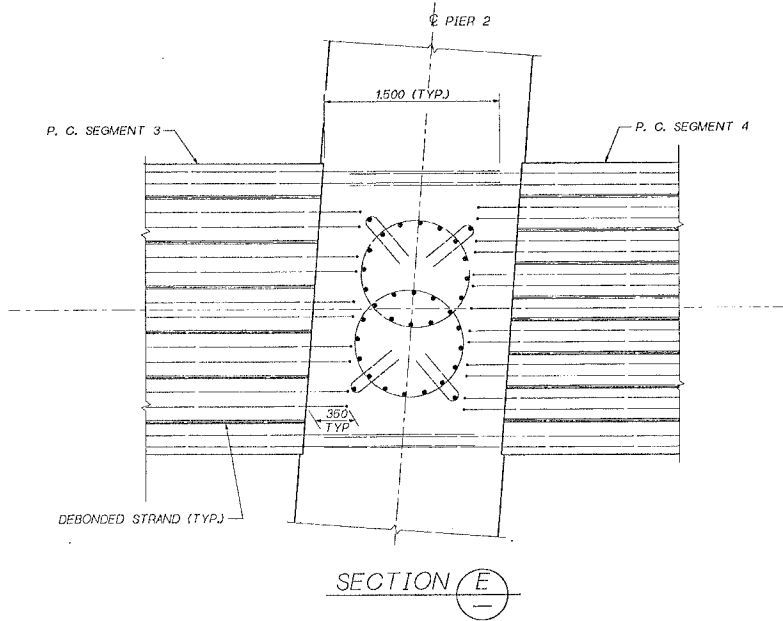
Bridge Design Engr. G.C.P.	SO38TH_01E2001-1.FEB. SO38TH_1MO.PC_4.F60.1	NO. 10	STATE WASH.	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND						
Designed by J. MERTH 1/28						
Checked by T.M. MOORE 3/28						
Detailed by V.B. SCHICCHI 2/28						
Bridge Projects, Eng.						
Rein. Plan by						
Architect/Specialist	DATE	REVISION	BY	APP'D		
12-JLY-00					5935	

BRIDGE AND STRUCTURES OFFICE

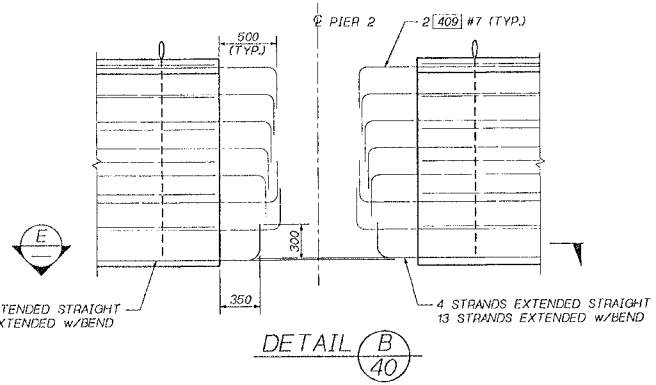
Washington State
Department of
Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 6/430 REPLACEMENT
PRECAST SEGMENT PRESTRESSING
STRAND LOCATIONS

PROJECT SHEET NO.	42
SHEET OF	175 OF 314
DATE	8-11-11



SEGMENT 3 SHOWN, SEGMENT 4 NEAR PIER 2 SIMILAR EXCEPT FOR LOCATION OF P.T. DUCTS.

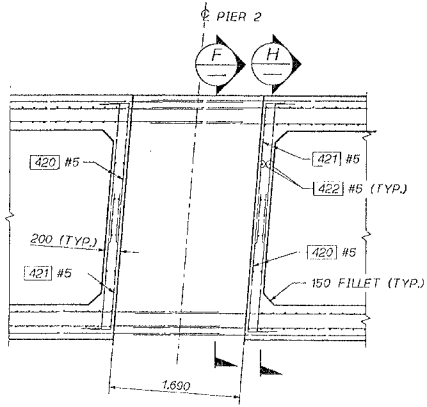


FOR "AS CONSTRUCTED PLANS" ONLY

SR 5 - JOB NO. 7779 - SHEET 43

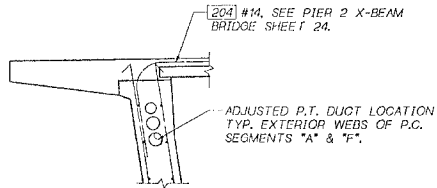
Bridge Design Engr. G.C. RUTH Supervisor J. A. VAN LUND Designed By J. MERTH 3/98 Checked By T.M. MOORE 3/98 Detailed By L. ANDREOTTI Bridge Projects Engr. Plenum. Print By Architect/ Specialist	SO38TH OVERROOT 1. FGB. SO38TH TWO LONGIT. DETAILS. FGB.	SHEET NO. 5935 STATE 10 WASH. JOB NUMBER 000527	BRIDGE AND STRUCTURES OFFICE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 7-11-00 7-12-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT SEGMENT 3 & 4 DETAILS AT PIER 2	43 176 34 SHEETS
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12-27-00

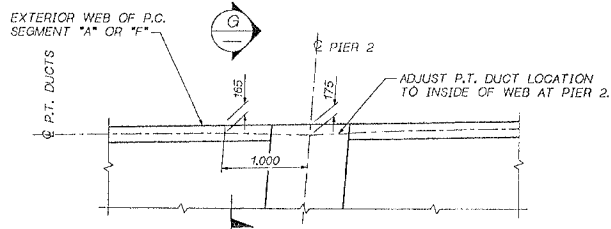


P.C. SEGMENT END DIAPHRAGM

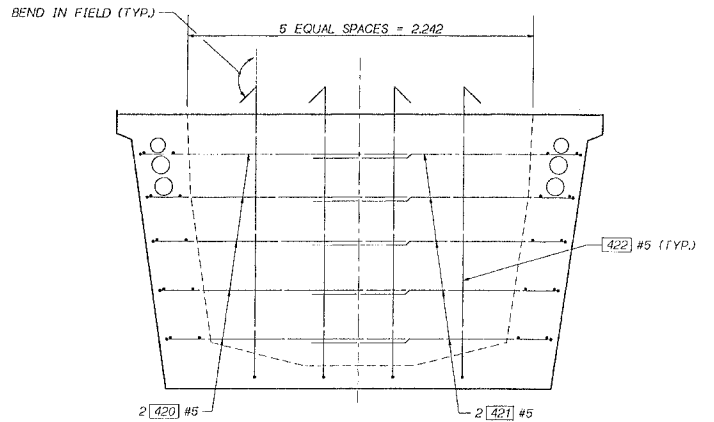
CONSTRUCT DIAPHRAGMS FOR P.C. SEGMENTS 3 & 4 AT PIER 2 END ONLY.



SECTION G

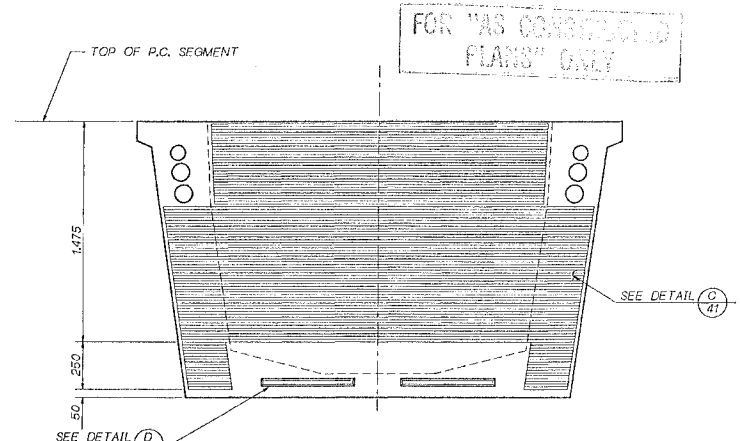


PLAN VIEW P.T. DUCTS @ PIER 2



VIEW H REINFORCEMENT

BOTTOM STRANDS NOT SHOWN.
FOR WEB REINF. NOT CALLED OUT SEE BR. SHT. 40.

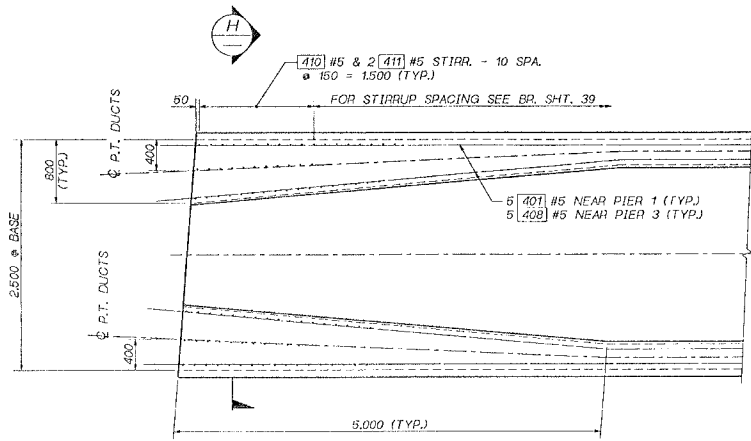


VIEW F SHEAR KEYS

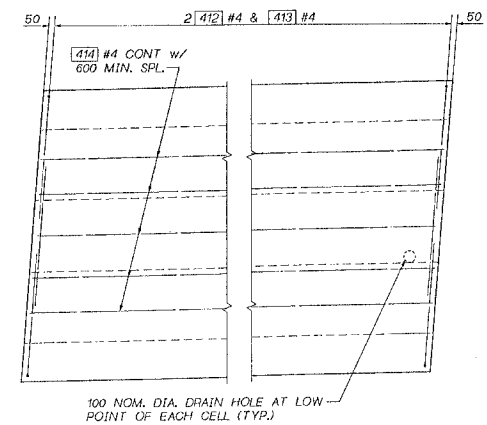
FOR P.C. SEGMENTS 3 & 4 AT PIER 2 END ONLY.

SR 15 JOB NO. 7179 SHEET 44

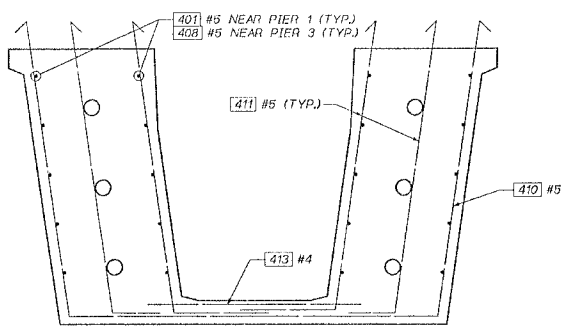
Bridge Design Engr. G.A.	SD38TH LNEROOT (FEB. SD38TH TMO) PC 2 FEB. 1	NOON	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE		SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT P.C. SEGMENT 3 & 4 DETAILS AT PIER 2	SHEET NO. 44
Supervisor J. A. VAN LUND			IO WASH							SHEET OF 344
Designed By J. MERTH 1/98								Washington State Department of Transportation	12-JULY-00	SHEET 177 OF 344 SHEETS
Checked By TAM MOORE 3/98							7-12-00 (EXPIRES 7/2008)			
Drafted By L. ANDREOTTI										
Bridge Projects Engr										
Drawn. Pion By										
Architect/Specifier	DATE	REVISION	BY	APP'D.	5935					



PLAN P.C. SEGMENT @ PIERS 1 & 3

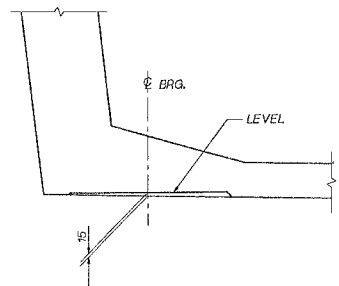


TYPICAL P.C. SEGMENT
BOTTOM SLAB REINFORCEMENT

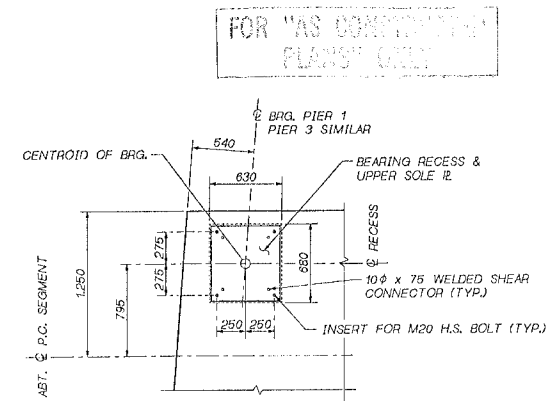


VIEW H

P.C. SEGMENT END DIAPHRAGM - PIERS 1 & 3
PRETENSIONING STRANDS NOT SHOWN



BEARING RECESS SECTION



BEARING RECESS DETAIL

FOR BEARING DETAIL SEE BR. SHT. 35.
RECESS DEPTH SHALL BE 15mm AT THE
CENTROID OF BEARING. SURFACE
SHALL BE FLAT AND LEVEL IN FINAL
POSITION.

SP. 5 JOB NO. 7179 SHEET 45

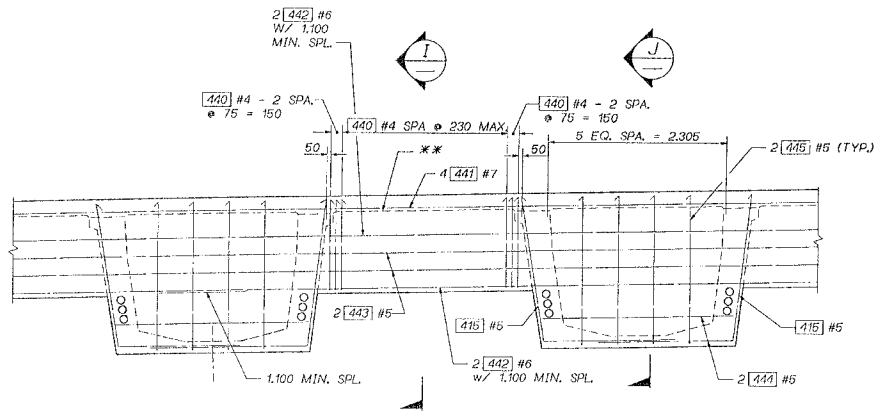
Bridge Design Engr. D.C.R.	SO38TH OVERROOT L.F. BR. SO38TH IWO PC 3, PEG. 1	REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND		10	WASH			
Designed By J. MERTH 1/98						
Checked By T.M. MOORE 3/98						
Detailled By V.B. SCHUCHT 2/98						
Bridge Projects Engr.						
Draft. Plan by						
Architect/Inspector	DATE	REVISION	BY	APP'D	5935	



SR5
38TH STREET INTERCHANGE
S 38TH STREET W/ING 8/430 REPLACEMENT
PRECAST SEGMENT DETAILS

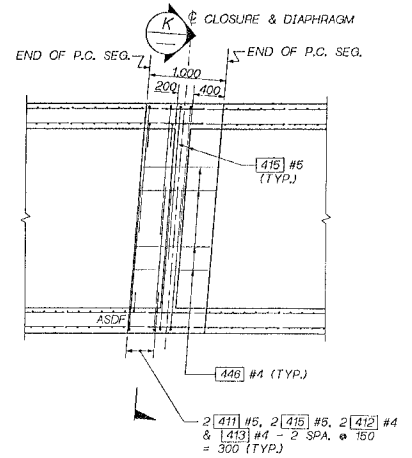
SHEET NO. 45
SHEET 178 OF 314 SHEETS

12-11-00

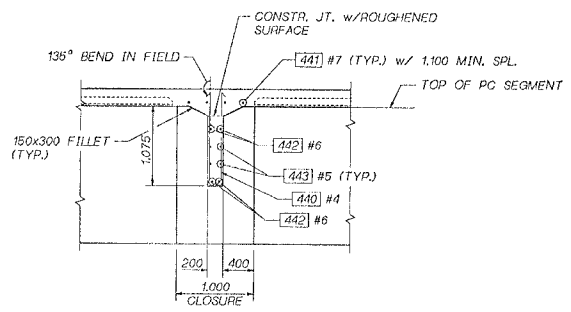


INTERMEDIATE DIAPHRAGM

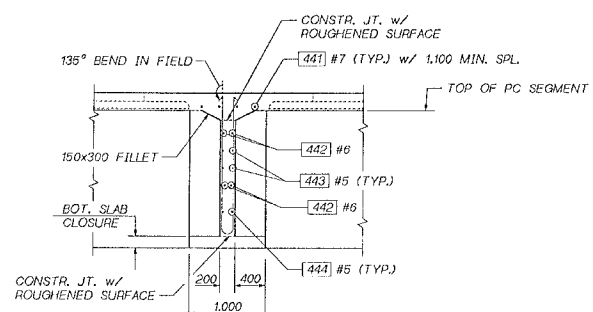
** CONSTR. JT. w/ROUGHENED SURFACE



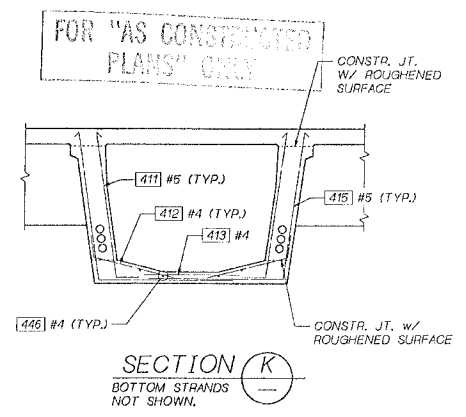
CLOSURE PLAN VIEW



SECTION I



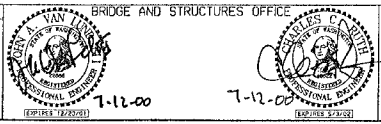
SECTION J



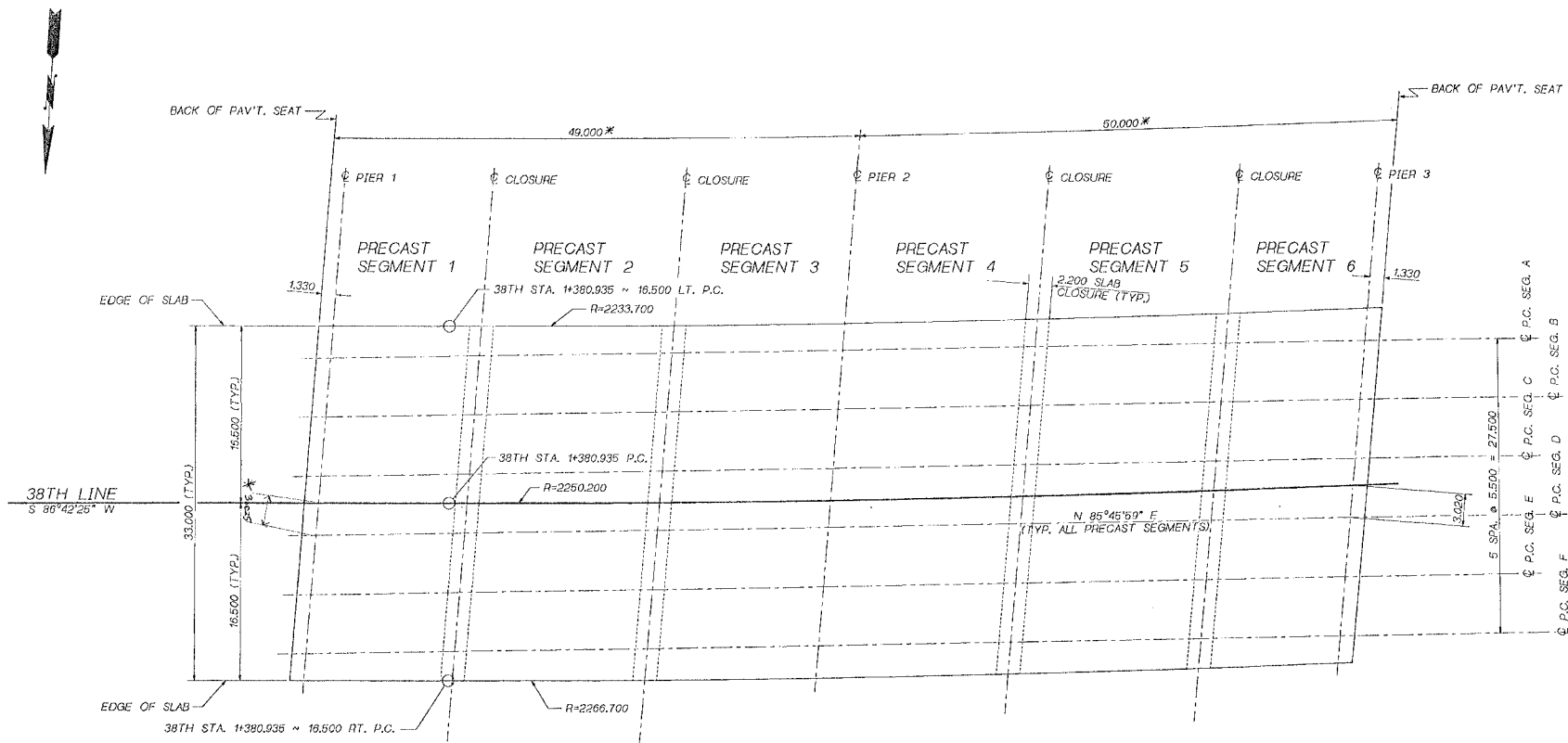
SECTION K
BOTTOM STRANDS NOT SHOWN.

SR 15 JOB NO. 7179 SHEET 46

Bridge Design Engr.	G. C. RUTH	S038TH INTERCHG. (FGB, S038TH TWO) INTERM DIAPH. FGB. I	REGION	STATE	FED. AID PROJ. NO.	SHEET	TOTAL SHEETS
Supervisor	J. A. VAN LIND			TO WASH.			
Designed by	J. A. WERTH			JOB NUMBER	000827		
Checked by	T. MOORE			DATE	5/935		
Detailled by	L. ANGELOTTI			REVISION			
Bridge Projects Engr.				BY	APP'D		
Prehm. Plan by							
Architect/Speciailst							
12-JULY-00							



SR5	SR5	SR501
38TH STREET INTERCHANGE	38TH STREET INTERCHANGE	46
S 38TH STREET USING 5/430 REPLACEMENT	S 38TH STREET USING 5/430 REPLACEMENT	179
INTERMEDIATE DIAPHRAGMS	INTERMEDIATE DIAPHRAGMS	314
		04-0013



SLAB GEOMETRY

BEARING OF ALL PIERS IS N 1°12'00\"/>

FOR "AS CONSTRUCTED"
FLANS' ONLY

SR 5 JOB NO. 1779 SHEET 47

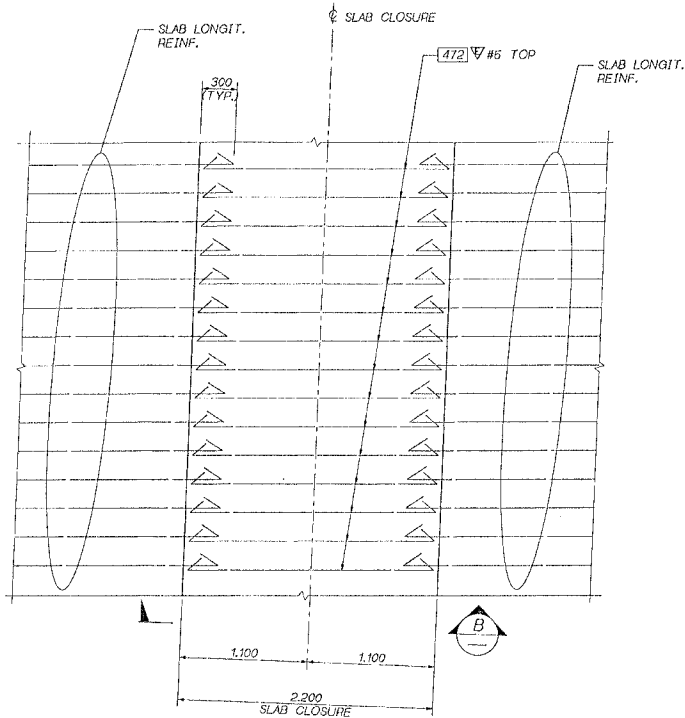
Bridge Design Engr. C. G. RUTH	3038TH ONE ROAD (FEB. 3038TH TWO) SLAB GEOM. FOR: 1	MOON	STATE	FED. AID PROJ. NO.	PROJ. NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND		10	WASH			
Designed By J. MERTH 1/98	11/13/00 ADDED NOTE					
Checked By T.M. MOORE 3/98						
Designed By L. ANDREOTTI						
Bridge Projects Eng.						
Pratim, Plan By						
Architect/Specialist	DATE	REVISION	BY	APP'D	5935	
12-JULY-00						

BRIDGE AND STRUCTURES OFFICE

7-12-00

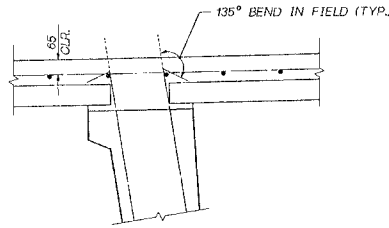
Washington State
Department of
Transportation

SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT	47
SLAB GEOMETRY	180 OF 314 SHEETS

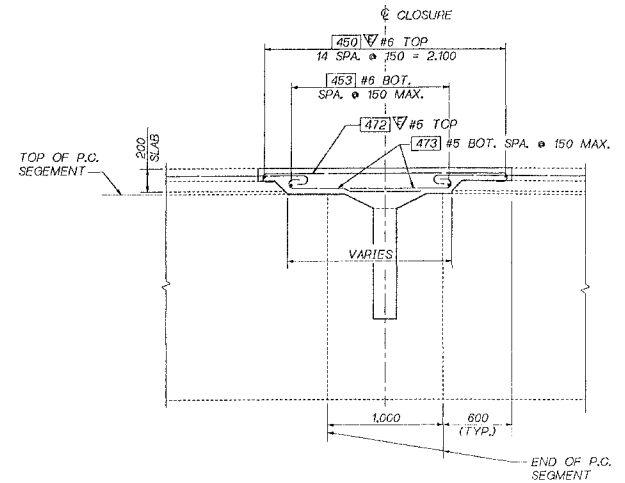


SLAB CLOSURE PLAN
@ INTERM. DIAPH. - TOP MAT

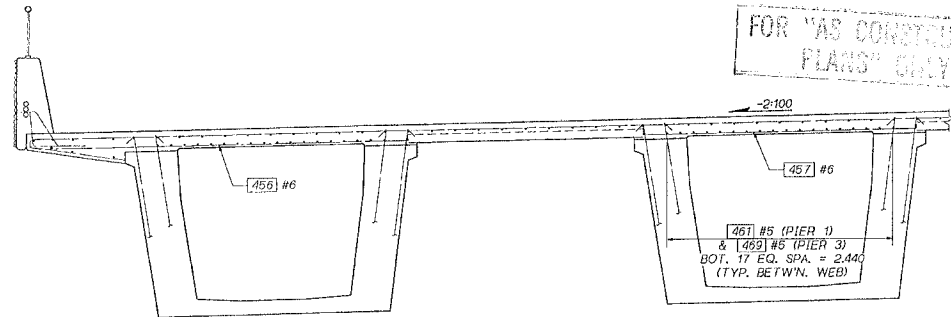
SLAB CLOSURE BAR SPACING SAME AS SLAB
LONGITUDINAL BARS @ TOP.
SLAB TRANSVERSE BARS NOT SHOWN.



STIRRUP HOOK DETAIL



SECTION B SLAB CLOSURE AT
INTERM. DIAPH.

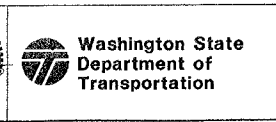
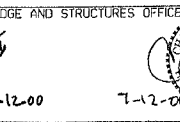


SLAB REINF. NEAR PIERS 1 & 3

OMIT PRESTRESSED PANEL BETWEEN PRECAST
WEBS NEAR END PIERS. SEE BR. SHEET 36.

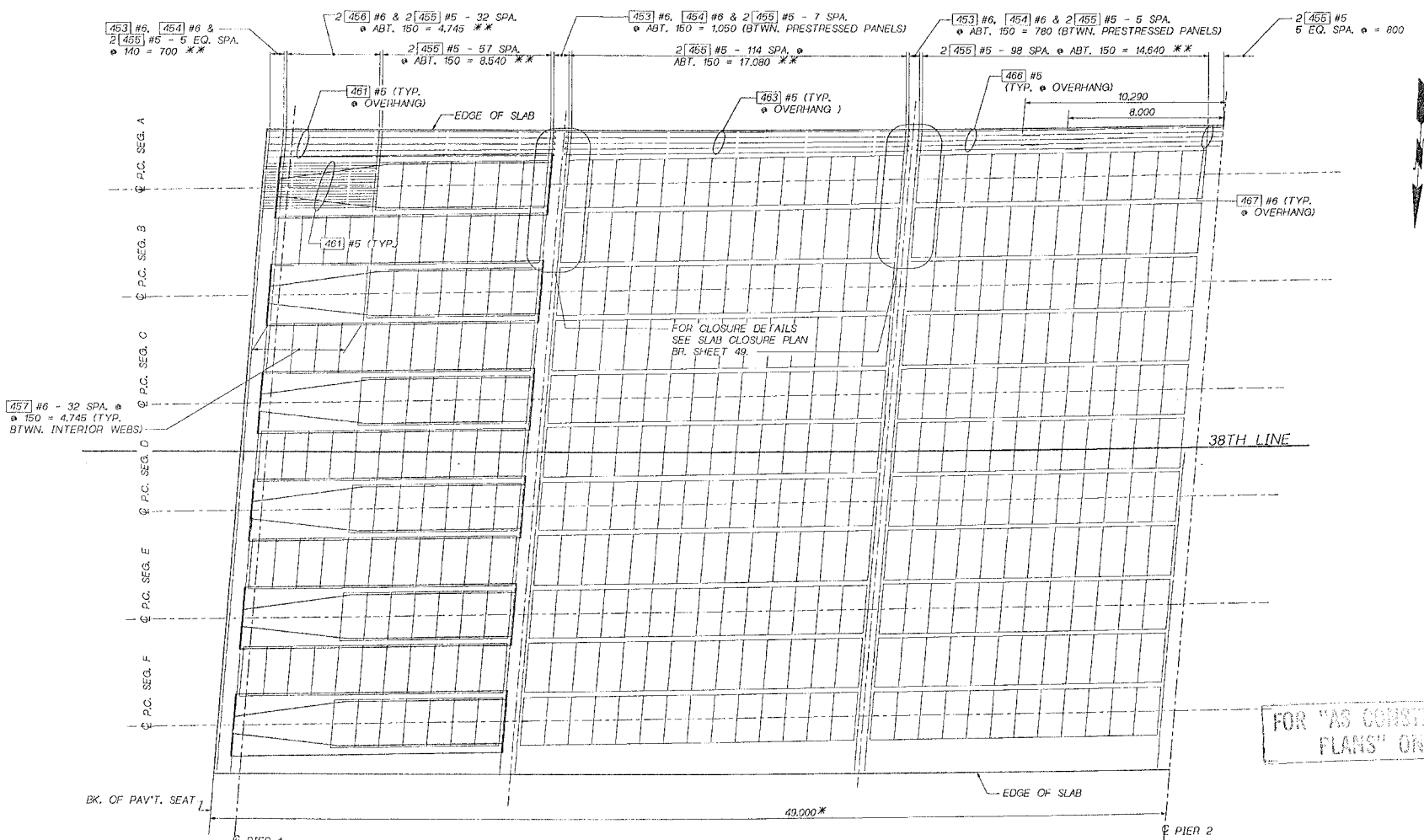
SR 15 JOB NO. 7179 SHEET 49

Bridge Design Engr	C. C. RUTH	38TH STREET (P.C.B. 38TH T.M.) SLAB CLOSURE (P.B. 1)	REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	J. A. VAN LIND		10	WASH			
Designed By	J. MERTH						
Checked By	T. MOORE						
Detailed By	L. ANDREOTTI						
Bridge Projects Engr							
Drawn By							
Machine Specialist							
DATE	REVISION	BY	APP'D.	5935			



BRIDGE SHEET NO.	49
SHEET OF	49
SLAB CLOSURE DETAILS	

12-JULY-00



SLAB REINFORCEMENT - BOTTOM MAT

* MEASURED ALONG ϕ BRIDGE
 ** MEASURED ALONG EDGE OF SLAB.

SR 5, JOB NO. 1179 SHEET 50

Bridge Design Engr. C.C.A.	S038TH LNEROOT (F&B, S038TH, TW) SLAB 1 PLAN, PGB:1	REGION	STATE	FED. AID PROJ. NO.	FY15	TOTAL SECT.
Supervisor J. A. VAN LUND		10	WASH.			
Designed By J. MERTH 1/98						
Checked By T.M. MOORE 3/98						
Drawn/Title By L. MIREOTTI						
Bridge Projects Engr.						
Prepared by						
Architect/Specialist						
12-JUL-00						

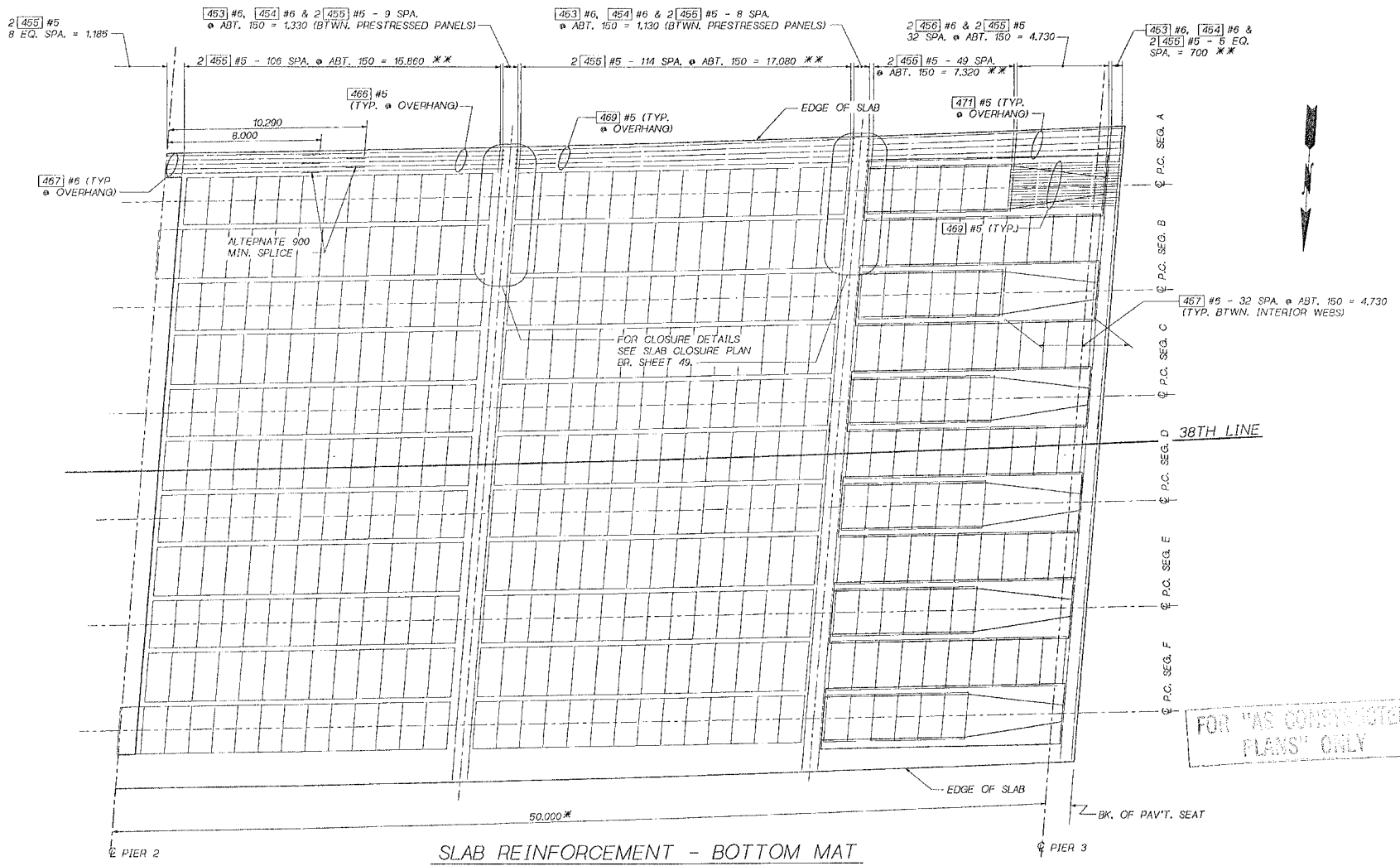
JOB NUMBER	5935
DATE	1-12-00
REVISION	
BY	
APP'D	

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

SR5
 38TH STREET INTERCHANGE
 S 38TH STREET U/XING 5/430 REPLACEMENT
SLAB REINFORCEMENT
 BOTTOM MAT - SPAN 1

Sheet 50
 of 83
 of 314
 sheets



FOR "AS CONSTRUCTED PLANS" ONLY

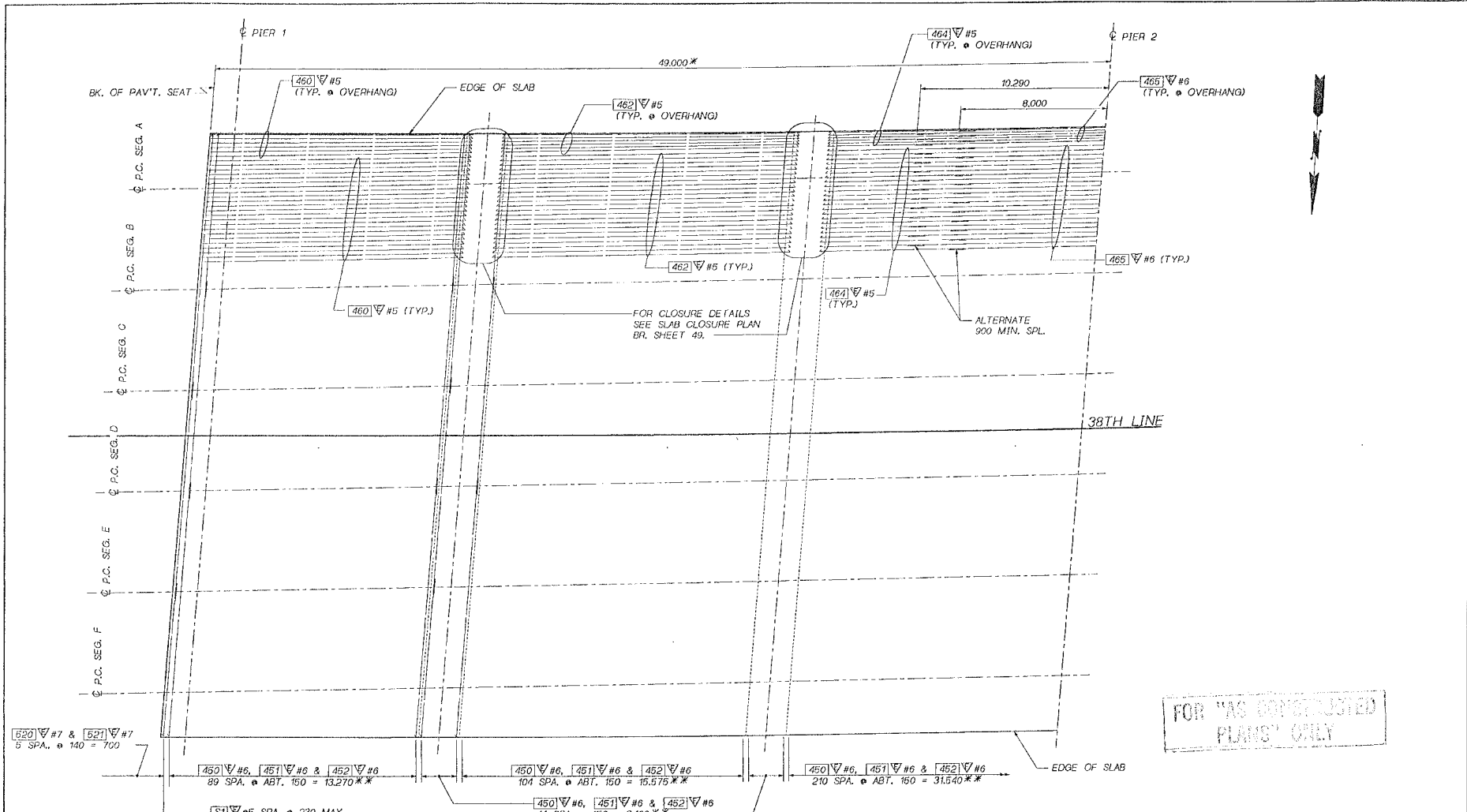
SLAB REINFORCEMENT - BOTTOM MAT

* MEASURED ALONG ϕ BRIDGE.
 ** MEASURED ALONG EDGE OF SLAB.

SP. 5 - JOB NO. 7179 - SHEET 51

Bridge Design Engr. G.C.R.	SR 5 38TH STREET INTERCHANGE - F.G.B. 38TH STREET SLAB & PLAN F.G.B. 1	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	 BRIDGE AND STRUCTURES OFFICE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 7-11-00 (EXPIRES 12/31/00)	 Washington State Department of Transportation SR5 38TH STREET INTERCHANGE S 38TH STREET USING 5/430 REPLACEMENT SLAB REINFORCEMENT BOTTOM MAT - SPAN 2	51 OF 344 SHEETS
Supervisor J. A. VAN LUND		10	WASH.						
Designed By J. MERTH 1/98									
Checked By T.M. MOORE 3/98									
Detailed By L. ANDREOTTI									
Bridge Projects Engr.									
Printed: PLEN BY									
Architect/Specifier	DATE	REVISION	BY	APP'D	5935				

12-117-00



FOR "AS CONSTRUCTED PLANS" ONLY

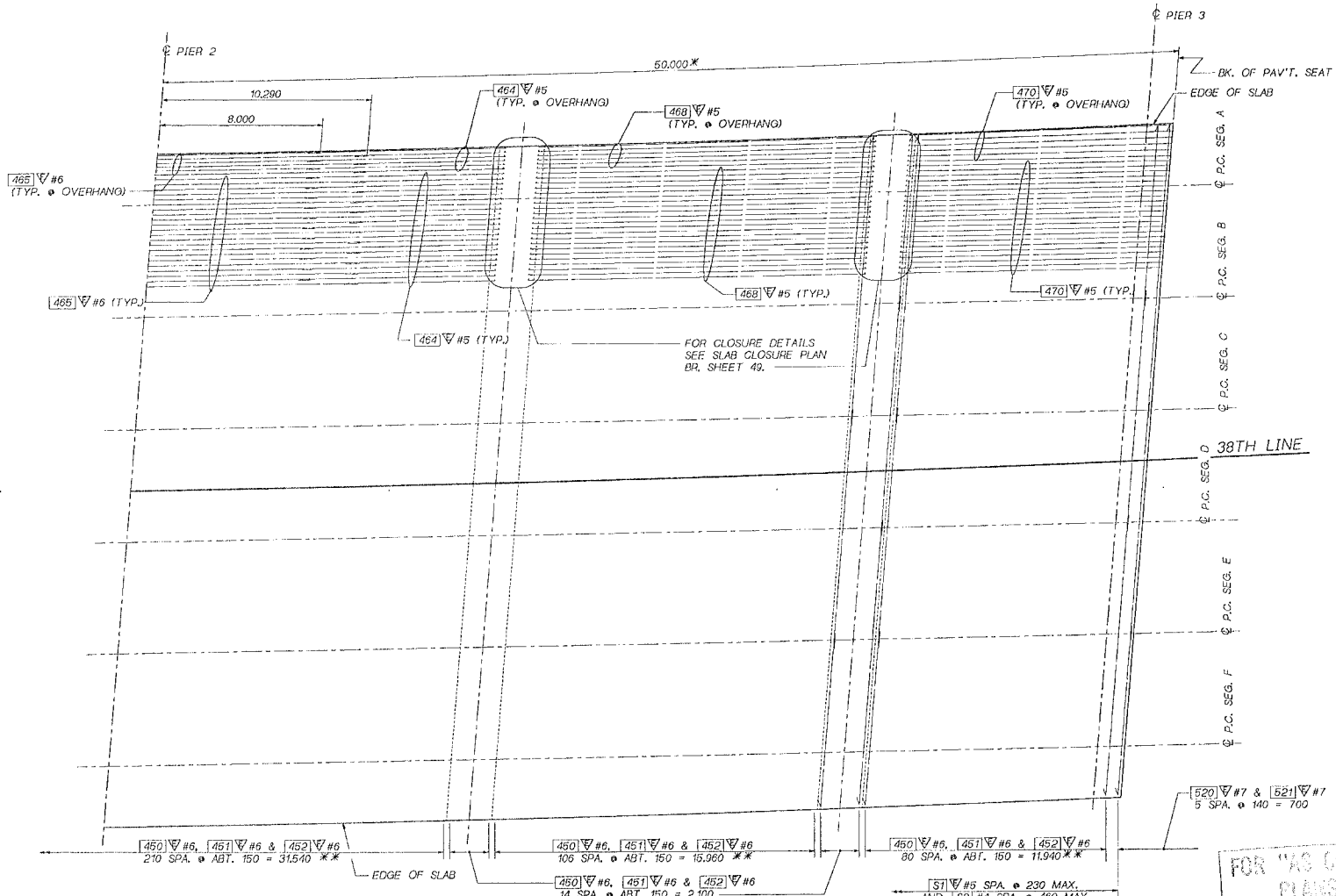
SLAB REINFORCEMENT - TOP MAT

* MEASURED ALONG \hat{C} BRIDGE
 ** MEASURED ALONG EDGE OF SLAB.

[520] #7 & [521] #7 5 SPA. @ 140 = 700	[450] #6, [451] #6 & [452] #6 89 SPA. @ ABT. 150 = 13,270**	[450] #6, [451] #6 & [452] #6 104 SPA. @ ABT. 150 = 15,576**	[450] #6, [451] #6 & [452] #6 210 SPA. @ ABT. 150 = 31,540**
[51] #6 SPA. @ 230 MAX. & [52] #4 SPA. @ 460 MAX.	[450] #6, [451] #6 & [452] #6 14 SPA. @ 150 = 2,100**	EDGE OF SLAB	

SR 5 JOB NO. 1179 SHEET 52

Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LUND Designed By J. WERTH 12/97 Checked By T.M. MOORE 3/98 Detailed By L. ANKRETTI Bridge Projects Eng. Drawn: Plan 97 Architecture/Specs/ist 12-JLY-00	S 38TH STREET INTERCHANGE S 38TH STREET W/ XING 5/430 REPLACEMENT SLAB REINFORCEMENT TOP MAT - SPAN 1	REGION STATE FED. AID PROJ. NO. SHEET TOTAL 10 WASH. 000627 7-12-00 BRIDGE AND STRUCTURES OFFICE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 7-12-00	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION SR5 38TH STREET INTERCHANGE S 38TH STREET W/ XING 5/430 REPLACEMENT SLAB REINFORCEMENT TOP MAT - SPAN 1	52 185 OF 314 SHEETS
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SLAB REINFORCEMENT - TOP MAT

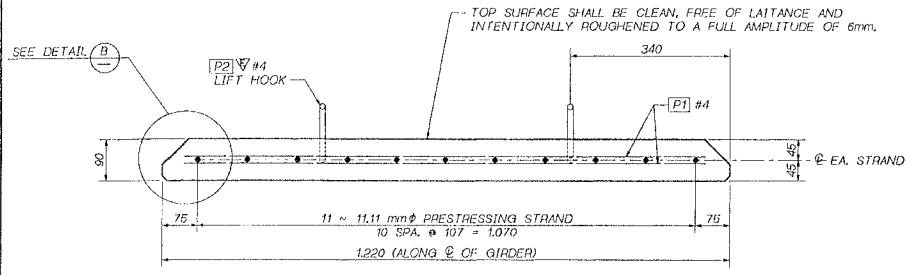
* MEASURED ALONG C BRIDGE
 ** MEASURED ALONG EDGE OF SLAB

FOR "AS CONSTRUCTED PLANS" ONLY

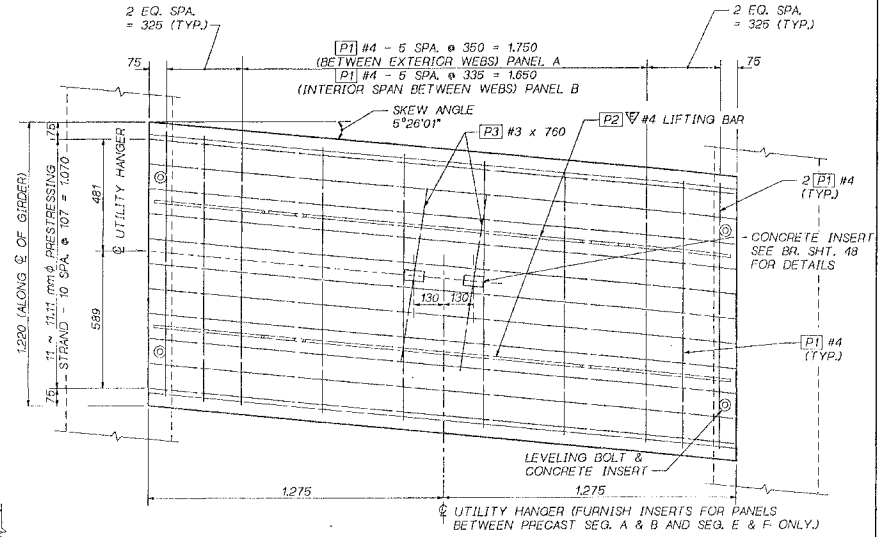
SR 5 JOB NO. 7119 SHEET 53

Bridge Design Engr. G. C. RUTH Supervisor J. A. VAN LIND Designed By J. MERTH 12/97 Checked By T.M. MOORE 3/98 Detailed By L. ANDREOTTI Bridge Projects Eng. Profiled Plan By Architect/Specifier	5038TH LNR001.V.FGB. 5038TH TWO SLAB 2.PLAN.FGB.1 DATE REVISION BY APP'D 5935	REGION NO. STATE FED. AID PROJ. NO. PREL. NO. TOTAL SHEETS 10 WASH. JOB NUMBER 000521 5935	BRIDGE AND STRUCTURES OFFICE 7-12-00 7-12-00	Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET USING 6/430 REPLACEMENT SLAB REINFORCEMENT TOP MAT - SPAN 2	SHEET NO. 53 SHEET 86 OF 314 SHEETS
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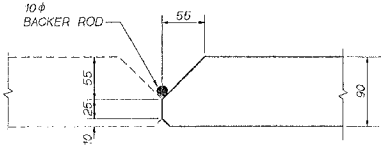
12-JLY-00



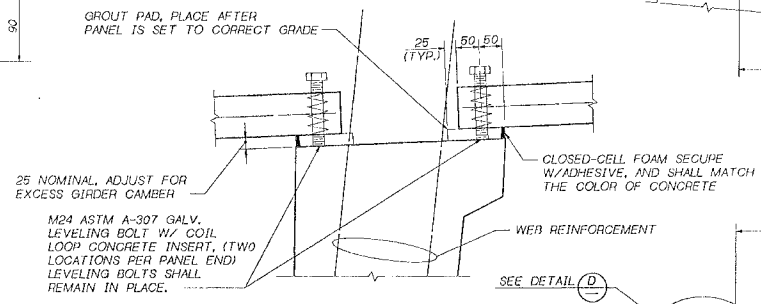
TYPICAL SECTION ~ PRESTRESSED DECK PANEL



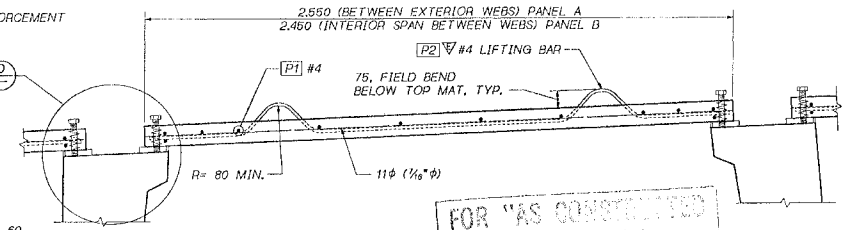
PLAN VIEW ~ PRESTRESSED DECK PANEL



DETAIL B



DETAIL D



ELEVATION ~ PRESTRESSED DECK PANEL

NOTES:

- CONCRETE IN THE PRESTRESSED DECK PANELS SHALL BE CLASS 35. THE CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 28.0 MPA BEFORE RELEASING THE PRETENSIONING STRANDS.
- THE PRETENSION STRANDS SHALL BE 7 WIRE 11.11 mm ϕ LOW RELAXATION PRESTRESSING STRANDS CONFORMING TO AASHTO M203M GRADE 1860. THE JACKING FORCE SHALL BE 104 KN PER STRAND.
- GROUT PAD FOR PRESTRESSED DECK PANELS SHALL CONFORM TO THE SPECIAL PROVISIONS.

ALL REINFORCEMENT SHALL BE AASHTO M31, GR. 60.

= EPOXY COATED		BAR LIST				
MARK #	BAR SIZE	# of BARS/PANEL	LENGTH	BEND TYPE	WT. (Kg/PANEL)	
P-1	4	12	1,080	STRAIGHT	12.9	
P-2 PANEL A	4 ∇	2	3,080	AS SHOWN	6.1	
P-2 PANEL B	4 ∇	2	2,980	AS SHOWN	5.9	
P-3	3	2	760	FIELD BEND	.9	

SR 5 JOB NO. 1179 SHEET 54

Bridge Design Engr. C. G. RUTH	SO38TH OVERROOT (FEB. SO38TH TWO RESTRE PANEL FCB. T)	10	WASH	5935
Supervisor J. A. VAN LUND				
Designed By T. MOORE				
Checked By J. WERTH				
Designed By L. WIKROTTI				
Bridge Projects Engr.				
Drawn Plan By				
Architect/Specialist				
DATE	REVISION	BY	APPD	

BRIDGE AND STRUCTURES OFFICE

7-12-00

7-12-00

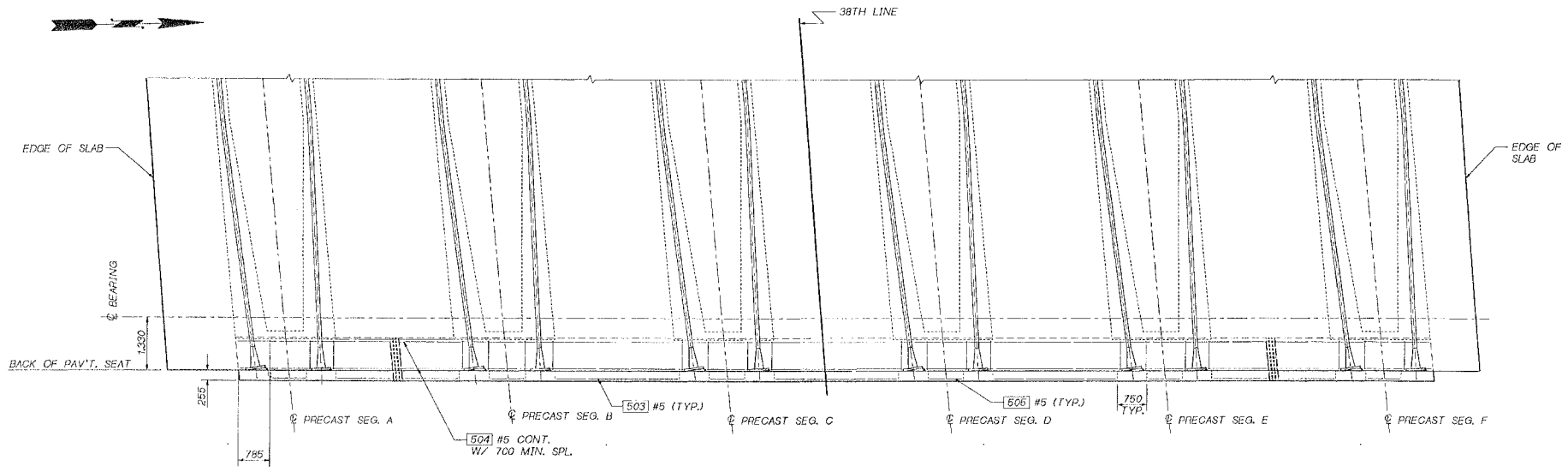
Washington State Department of Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT

PRESTRESSED DECK PANEL DETAILS

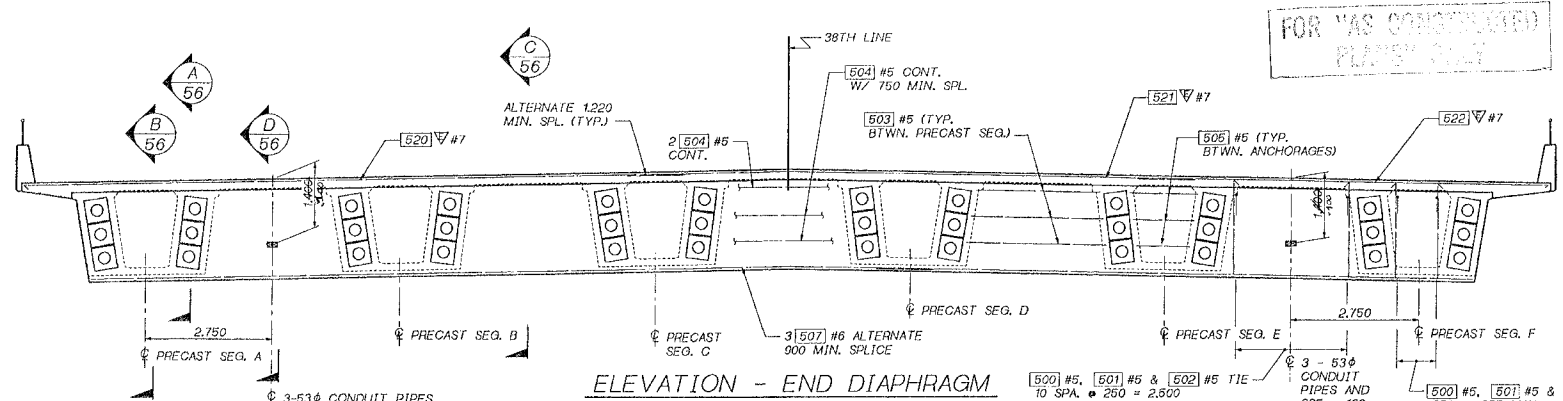
54
87
314

12-JLY-00



PLAN - END DIAPHRAGM

PIER 1 SHOWN, PIER 3 SIMILAR
SLAB REINFORCEMENT NOT SHOWN.



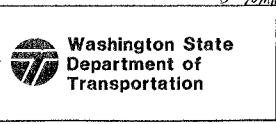
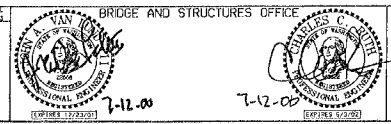
ELEVATION - END DIAPHRAGM

FOR 'AS CONSTRUCTED' PLACE SLAB

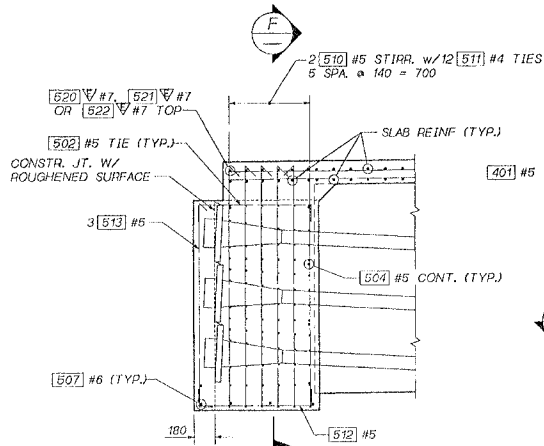
[500] #5, [501] #5 & [502] #5 TIE TO SPA. @ 250 = 2,500 (TYP. BETWEEN PRECAST SEGMENTS)
 [500] #5, [501] #5 & [502] #5 TIE BTWN. ANCHORAGES @ P.C. SEG.

SR 5 JOB NO. 7179 SHEET 55

Bridge Design Engr. C.G.A.	SO38TH OVERROOT (F.G.B. SO38TH END) DIAPHR. T.F.G.P. 1	PROJECT NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND			TO WASH			
Designed by J. MERTH 1/99						
Checked by T.M. MOORE 3/99						
Detailled by L. ANDREOTTI						
Bridge Projects Eng.						
Print. Plan by						
Architect/Specifier	DATE	REVISION	BY	APP'D	5935	

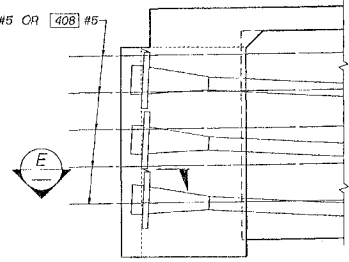


SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/430 REPLACEMENT	BRIDGE SHEET NO. 55
END DIAPHRAGM	SHEET OF 188 OF 314 2/24/03

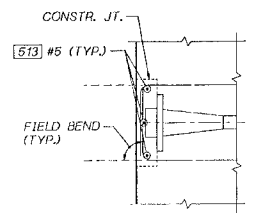


P.C. SEGMENT WEB REINFORCEMENT
NOT SHOWN FOR CLARITY.

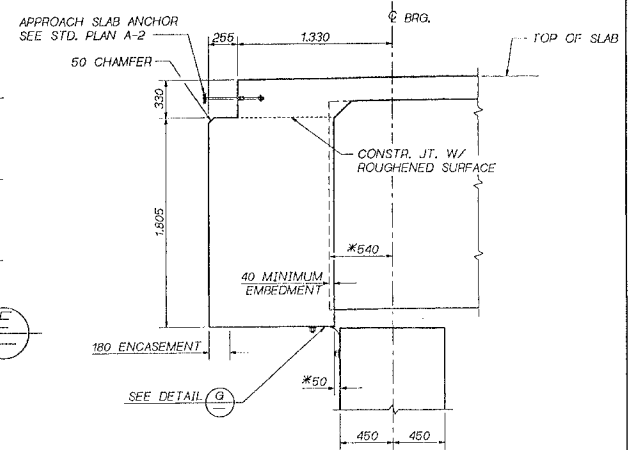
SECTION A
55



P.C. SEGMENT WEB REINFORCEMENT SHOWN.

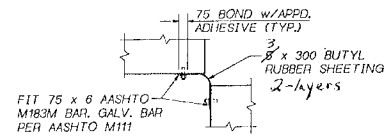


SECTION E



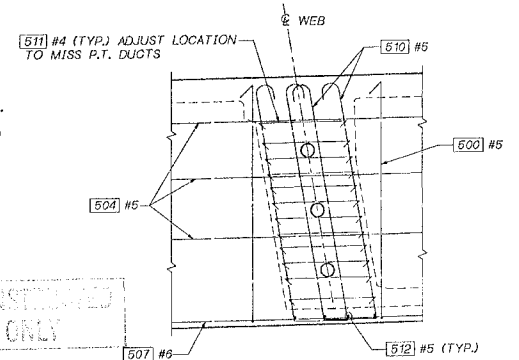
SECTION C GEOMETRY
55

* BEFORE POST-TENSIONING

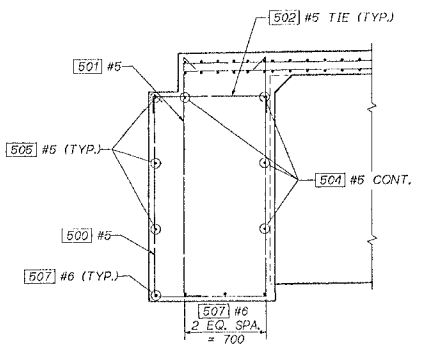


DETAIL G

ATTACH w/RED HEAD WS-5880G, U.S.E. DIAMOND 26-58312, HILTI 1-538 GALV. WEDGE ANCHORS OR APPROVED EQUAL AT 450 O.C. MAXIMUM (TYP.)

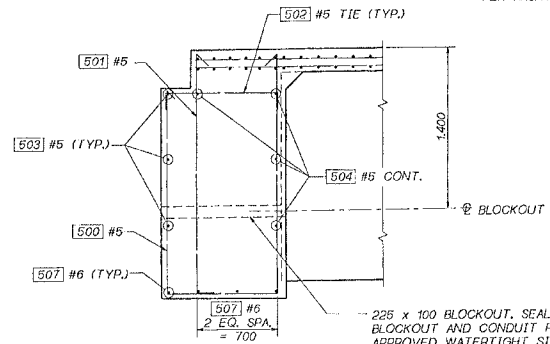


SECTION F



SECTION B
55

SECTION BETWEEN WEBS.



SECTION D
55

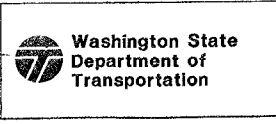
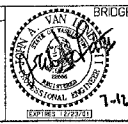
SECTION BETWEEN PRECAST SEGMENTS.

225 x 100 BLOCKOUT. SEAL GAP BETWEEN BLOCKOUT AND CONDUIT PIPES WITH AN APPROVED WATERTIGHT SILICONE SEALANT. SEE SC & DI PLANS FOR CONDUIT PIPE TERMINATION DETAILS.

FOR 'AS CONSTRUCTED PLANS' ONLY

JOB NO. 7179, SHEET 56

Bridge Design Engr. GOR	5030TH OVERPASS, FEB. 5030TH TWO-LEVEL DIAPHR. 2, FEB. 1	REGION 10	STATE WASH.	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND						
Designed By J. MERTH 1/98						
Checked By T.M. MOORE 3/98						
Detailled By L. ANDREOTTI						
Bridge Projects Engr.						
Drawn By						
Architect/Designer						
DATE	REVISION	BY	APP'D	5935		



SR5
38TH STREET INTERCHANGE
S 38TH STREET LIXING 5/430 REPLACEMENT
END DIAPHRAGM DETAILS

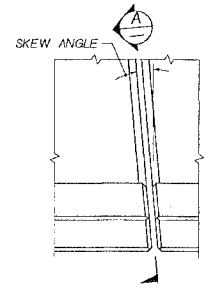
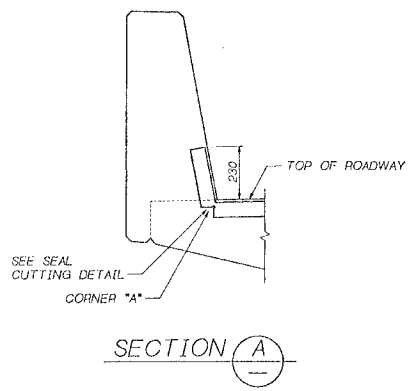
SHEET 56
OF 314

12-JEY-00

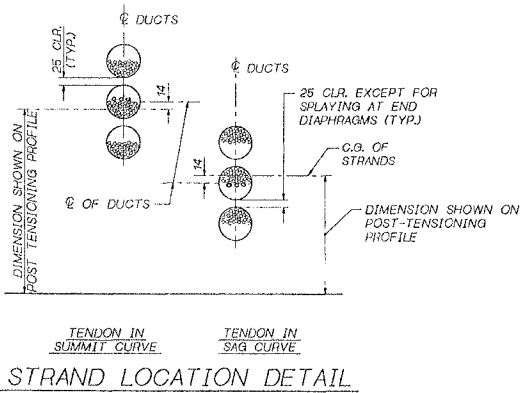
POST-TENSIONING NOTES

1. THE CAST-IN-PLACE CONCRETE IN SUPERSTRUCTURE SHALL BE CLASS 35, THE MINIMUM COMPRESSIVE STRENGTH OF THE CAST-IN-PLACE CONCRETE AT THE TIME OF POST-TENSIONING SHALL BE 28 MPa. ** Class 28D was poured on East Side (P1 to P2 closures) CO # 32*
2. THE PRESTRESSING LOAD AFTER SEATING FOR EACH WEB SHALL BE 10,480 KN. EACH WEB SHALL HAVE A MIN. OF 82 STRANDS. *All additional 3 post tensioning strands shall be added in the middle duct of each web*
3. THE DESIGN IS BASED ON 12.70 mm DIAMETER LOW RELAXATION STRANDS WITH A JACKING LOAD OF 44,800 KN EACH WEB, AN ANCHOR SET OF 9.5 mm. A FRICTION CURVATURE COEFFICIENT: $\mu=0.2$ AND A FRICTION WOBBLE COEFFICIENT: $k=0.0002$. THE ACTUAL ANCHOR SET USED BY THE CONTRACTOR SHALL BE SPECIFIED IN THE SHOP PLANS AND INCLUDED IN THE TRANSFER FORCE CALCULATIONS.
4. THE DESIGN IS BASED ON LOSS OF STRESS CALCULATIONS IN POST-TENSIONED PRESTRESSING STRANDS DUE TO STEEL RELAXATION, ELASTIC SHORTENING, CREEP AND SHRINKAGE OF CONCRETE IS ESTIMATED TO BE 228 MPa.
5. THE CONTRACTOR SHALL SUBMIT THE STRESSING SEQUENCE AND ELONGATION CALCULATIONS TO THE ENGINEER FOR APPROVAL. ALL LOSSES DUE TO TENDON VERTICAL AND HORIZONTAL CURVATURE MUST BE INCLUDED IN ELONGATION CALCULATIONS. THE STRESSING SEQUENCE SHALL MEET THE FOLLOWING CRITERIA:
 - A. THE PRESTRESSING FORCE SHALL BE DISTRIBUTED WITH AN APPROXIMATELY EQUAL AMOUNT IN EACH WEB AND SHALL BE PLACED SYMMETRICALLY ABOUT THE CENTER LINE OF BRIDGE.
 - B. NO MORE THAN ONE-HALF OF THE PRESTRESSING FORCE IN ANY WEB MAY BE STRESSED BEFORE AN EQUAL FORCE IS STRESSED IN THE ADJACENT WEBS. AT NO TIME DURING STRESSING OPERATIONS WILL MORE THAN ONE-SIXTH OF THE TOTAL PRESTRESSING FORCE BE APPLIED ECCENTRICALLY ABOUT THE CENTER LINE OF BRIDGE.
6. THE MAXIMUM OUTER DIAMETER OF THE DUCT SHALL BE 115 mm. THE AREA OF THE DUCT SHALL BE AT LEAST 2.5 TIMES THE NET AREA OF THE PRESTRESSING STEEL IN THE DUCT.
7. ALL TENDONS SHALL BE STRESSED FROM PIER 3.

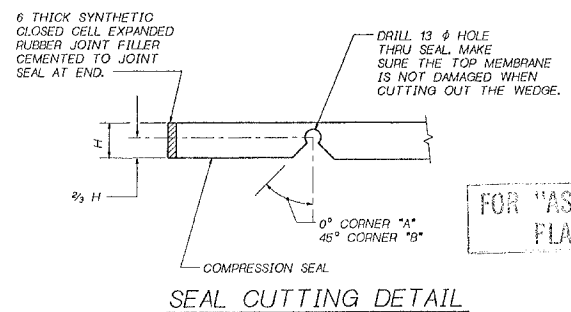
*
11,875 KN



PLAN - EXPANSION JOINT AT APPROACH SLAB



STRAND LOCATION DETAIL

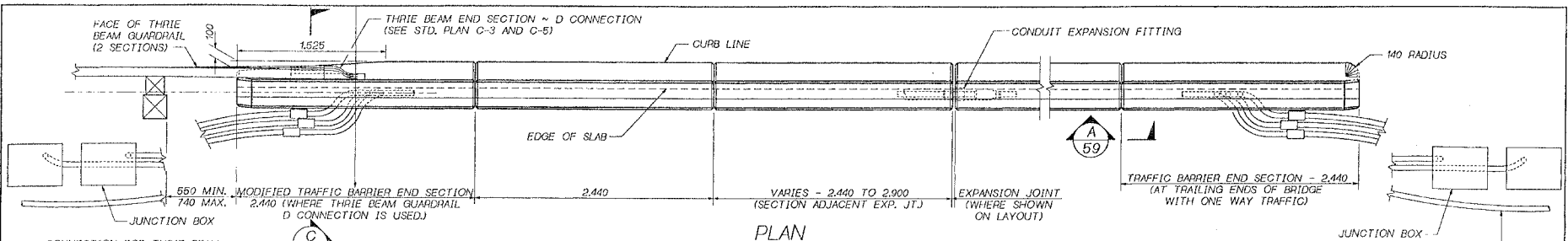


SEAL CUTTING DETAIL

FOR "AS CONSTRUCTED PLANS" ONLY

SR 5 JOB NO. 7179 SHEET 57

Bridge Design Eng. G. O. RUTH	SO38TH OVERPASS FOR SO38TH INTERCHANGE POST-TENSIONING	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS				SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 6/430 REPLACEMENT POST-TENSIONING NOTES AND EXP. JOINT DETAILS	57
Supervisor J. A. VAN LUND	* <i>ADD'D Note CO # 32</i>	10 WASH								190 OF 314
Designed By J. MERTH 1/98										
Checked By T.M. MOORE 3/98										
Detained By M.E. SCHIGCH 1/98										
Bridge Designer's Eng.										
Prelim. Plan By										
Architect/Planner										
12-JLY-00	DATE	REVISION	BY	APP'D	5935					



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.

** HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE.

α CONSTRUCTION JOINT WITH ROUGHENED SURFACE

SEE SC & D1 PLANS FOR SC & D1 CONDUIT TERMINATION (TYP.)

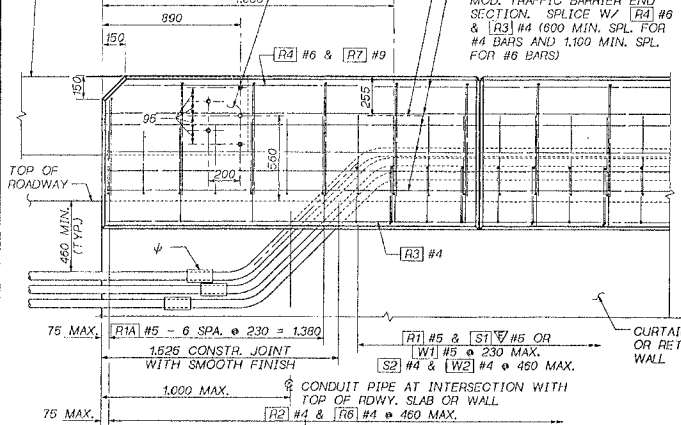
CONNECTION FOR THRIE BEAM GUARDRAIL D CONNECTION, FAH SIDE. (WHERE SHOWN ON LAYOUT) PROVIDE 5 - M22 GALV. LANCASTER MALLEABLE INSERTS OR APPROVED EQUAL. (RESIN BONDED ANCHORS MAY BE SUBSTITUTED)

DATE NUMERALS (INSIDE FACE) (SEE STD. PLAN E-1)

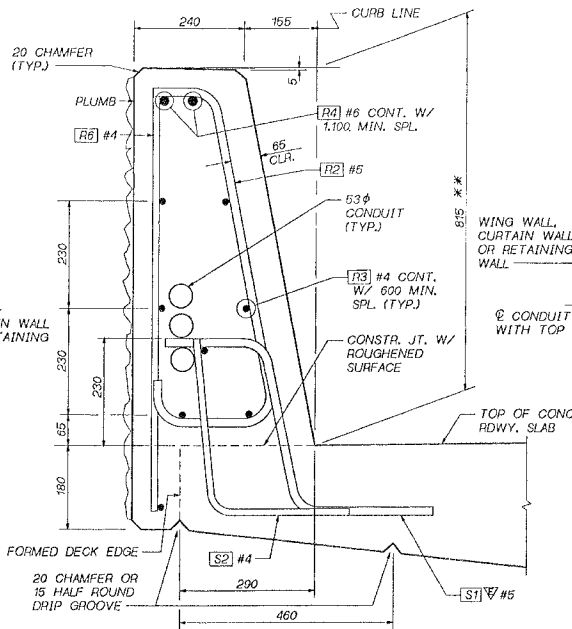
DATE NUMERALS (INSIDE FACE) (SEE STD. PLAN E-1)

BEAM GUARDRAIL TYPE 10 (THRIE BEAM) (2 SECTIONS)

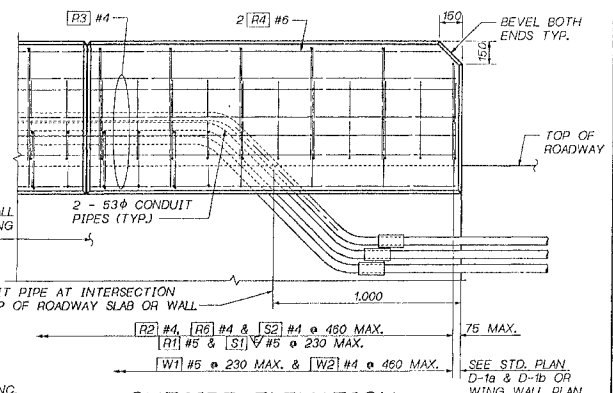
[R7] #9 EXTEND 1,830 BEYOND MOD. TRAFFIC BARRIER END SECTION. SPLICE W/ [R4] #6 & [R3] #4 (600 MIN. SPL. FOR #4 BARS AND 1,100 MIN. SPL. FOR #6 BARS)



OUTSIDE ELEVATION END OF MODIFIED TRAFFIC BARRIER FOR THRIE BEAM D CONNECTION



TYPICAL SECTION - TRAFFIC BARRIER

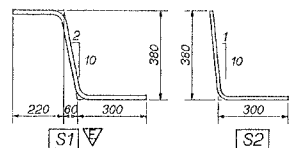


OUTSIDE ELEVATION TRAFFIC BARRIER AT TRAILING END OF BRIDGE

SEE STD. PLAN D-1a & D-1b OR WING WALL PLAN

FOR "AS CONSTRUCTED PLANS" ONLY

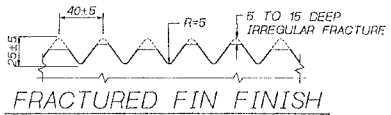
ψ CONDUIT DEFLECTION FITTING. SEE BRIDGE SHEET 60.



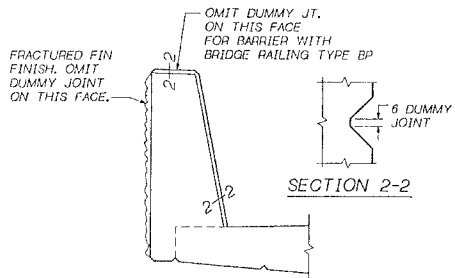
Bridge Design Engr. C. G. RUTH Supervisor J. A. VAN LUND Designed by J. MERTH 12/97 Checked by FM MOORE 3/98 Detalled by L. MORETTI Bridge Projects Engr. Drafted by Architect/Specifier	13038111 ON ROAD 1 (FGS, 50 TO 111, TWO) BARRIER, 1 (FGS, 1	REGION NO. STATE 10 WASH.	FED. AID PROJ. NO. JOB NUMBER 00C527 5935	SHEET NO. TOTAL SHEETS 11-00 7-17-06	BRIDGE AND STRUCTURES OFFICE Washington State Department of Transportation	SR5 38TH STREET INTERCHANGE S 38TH STREET UXING 5/490 REPLACEMENT TRAFFIC BARRIER SHEET 1 OF 3	PROJECT SHEET NO. 58 SHEET 191 OF 314 SHEETS
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SR 5 JCB NO. 7179 SHEET 58

12-11-00



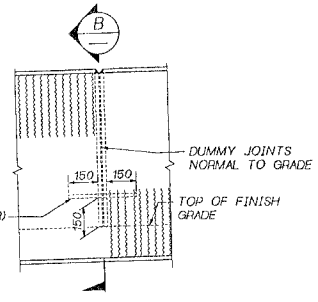
FRAGMENTED FIN FINISH



SECTION 2-2

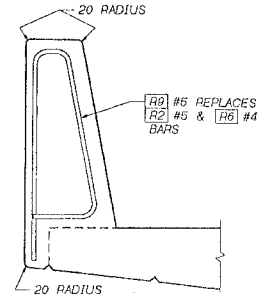
SECTION (B)

20 DEEP x 20 WIDE SAWCUT GROOVE. REQ'D. AT FIRST DUMMY JOINT FROM END OF BRIDGE AT 4 CORNERS (INSIDE FACE OF BARRIER)



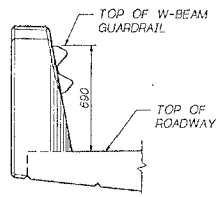
VIEW A

ALL CHAMFERE 20. 58
NOTE: CONCRETE SURFACE CONSTRUCTION TOLERANCE OF 1 IN 1000 MAX. IS REQ'D. FOR TRAFFIC SIDE OF BARRIER.

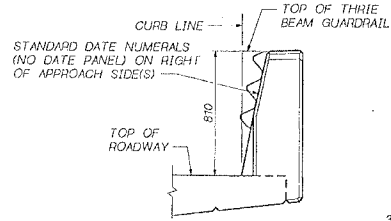


SLIPFORM ALTERNATE

SEE TYPICAL SECTION - TRAFFIC BARRIER FOR ADDITIONAL DETAILS.

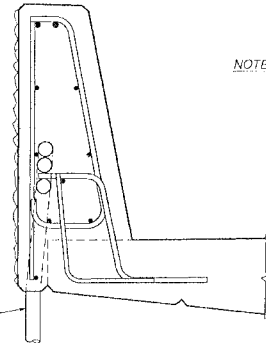


END VIEW WITH F CONNECTION



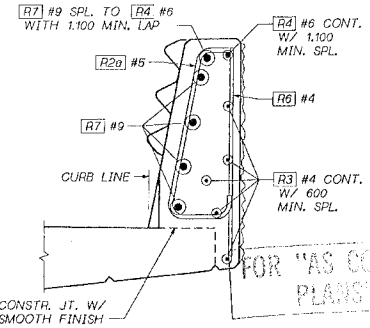
END VIEW WITH D CONNECTION

3-63# CONDUITS PIPES



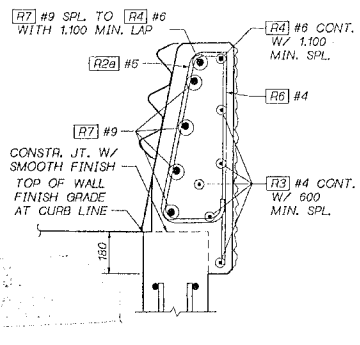
SECTION E

FOR CALLOUTS NOT SHOWN SEE "TYPICAL SECTION"



SECTION C BRIDGE

DETAIL FOR BRIDGE FOR DETAILS NOT SHOWN SEE "OUTSIDE ELEVATION" AND "TYPICAL SECTION - TRAFFIC BARRIER."



SECTION C WALL

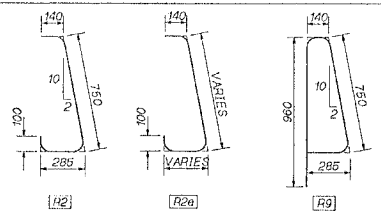
DETAILS FOR RETAINING WALL FOR REINFORCING NOT SHOWN SEE STD. PLAN D-1a & D-1b OR RETAINING WALL PLAN.

∇ : EPOXY COATED ... Δ DIMENSIONS TO POINTS OF INTERSECTION.

TRAFFIC BARRIER BAR LIST
ALL REINFORCING SHALL BE AASHTO M31, GR. 60.

MARK	SIZE	LENGTH
R2	5	1,230
R20	5	(A)
R3	4	(A) STR.
R4	6	(A) STR.
R5	4	915 STR.
R7	9	4,265 STR.
R9	5	2,160

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)



(A) DETERMINE FROM PLANS

FOR [W1] & [W2] BARS SEE WINGWALL OR RETAINING WALL PLANS. FOR [S1] & [S2] BARS SEE BARLIST.

SR 5 - JOB NO. 7179 - SHEET 59

Bridge Design Engr. C. G. RUTH	5038TH OVERROOT (L.F.B. 3038TH TWO) BARRIER 2 FIB. 1	SECTION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor J. A. VAN LUND			10 WASH			
Designed by J. MERTH 2/98						
Checked by T.M. MOORE 3/28						
Detailled by L. NIKREOTTI						
Bridge Projects Eng.						
Architect/Specialist		DATE	REVISION	BY	APP'D	5935
12-JUL-00						

BRIDGE AND STRUCTURES OFFICE

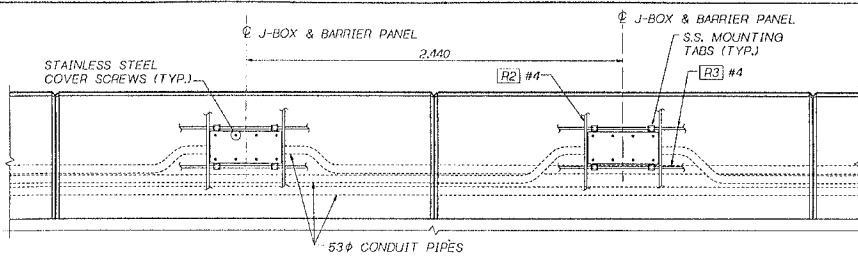
7-12-00

Washington State Department of Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 6/430 REPLACEMENT

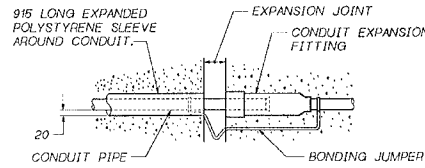
TRAFFIC BARRIER
SHEET 2 OF 2

59
58
34
SHEETS



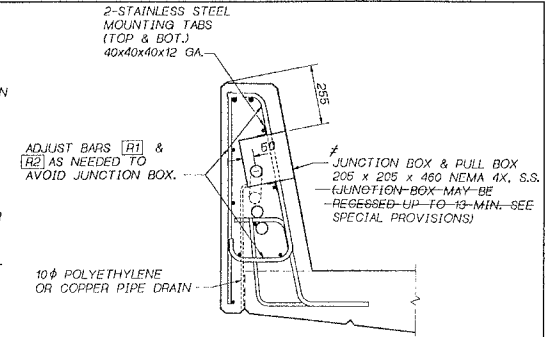
ELEVATION - CONDUITS & J-BOX IN TRAFFIC BARRIER

LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD PLAN J-11a AND SPECIAL PROVISIONS.



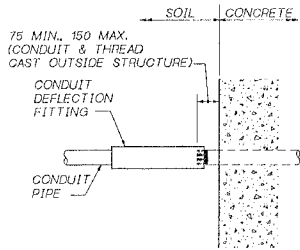
CONDUIT EXPANSION FITTING

CONDUIT FITTING - TYPE AX FOR MOVEMENT OF ± 60 MM FOR BRIDGE EXPANSION JOINTS AT PIERS 1 & 3.



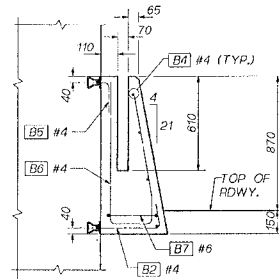
TYPICAL SECTION

SECURE THE JUNCTION BOX TO THE REINFORCING STEEL BAR CAGE USING THE TABS. SECURE CONDUIT TO REINFORCING STEEL BAR CAGE.



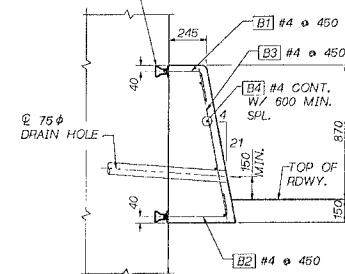
CONDUIT DEFLECTION FITTING

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30° AND 20 MM MOVEMENT. PLACE AT CONDUIT PIPE EXIT FROM STRUCTURE.

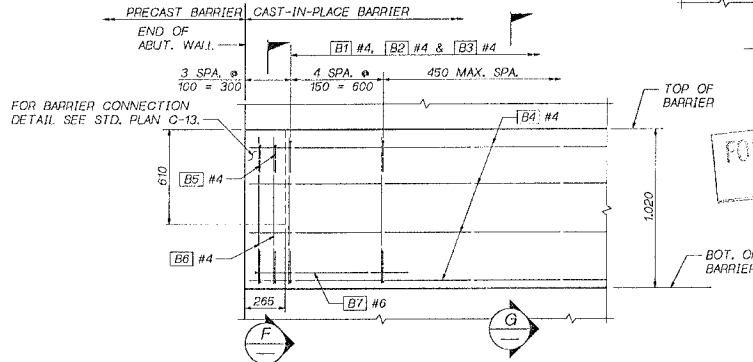


SECTION F
END CONNECTION DETAIL

M25 BURKE HI-TENSILE, LANCASTOR MALLEABLE, DAYTON SUPERIOR F-62 FLAPED THIN SLAB FERRULE (M25x117) INSERT OR APPROVED EQUAL



SECTION G



CAST-IN-PLACE WALL BARRIER DETAIL

JUNCTION BOX LOCATIONS

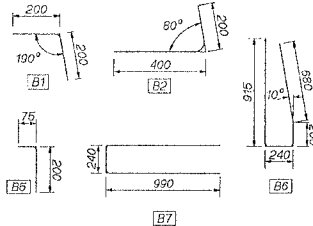
STATION	LOCATION
1+376.0	LT.
1+388.0	LT.
1+408.0	RT.
1+412.0	LT.
1+416.0	RT.
1+419.0	LT.
1+421.0	RT.
1+427.0	RT.
1+430.0	LT.
1+435.0	RT.
1+462.0	LT.

WALL BARRIER BAR LIST

ALL REINFORCING SHALL BE AASHTO M31, GR. 60.

MARK	SIZE	LENGTH	
B1	4	400	
B2	4	600	
B3	4	940	STR.
B4	4	(A)	STR.
B5	4	275	
B6	4	1,990	
B7	6	2,140	

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)



(A) DETERMINE FROM PLANS

SR 5 - JOB NO. 7179 - SHEET 60

Bridge Design Engr. C. RUTH	SO.38TH INTERCHANGE (F&B, SO.38TH, TW) BARRIER, J. F&B-1	REGION	STATE	FED. AID PROJ. NO.	FED. AID PROJ. NO.	TOTAL SHEETS
Supervisor J. A. VAN LIND		10	WASH.			
Designed By J. MERTH 2/98						
Checked By T.M. MOORE 3/98						
Detailled By L. ANDREOTTI						
Bridge Projects Engr. Brian Rich 5/00						
Architect/Specialist	DATE	REVISION	BY	APPD	5935	

BRIDGE AND STRUCTURES OFFICE

7-1-00

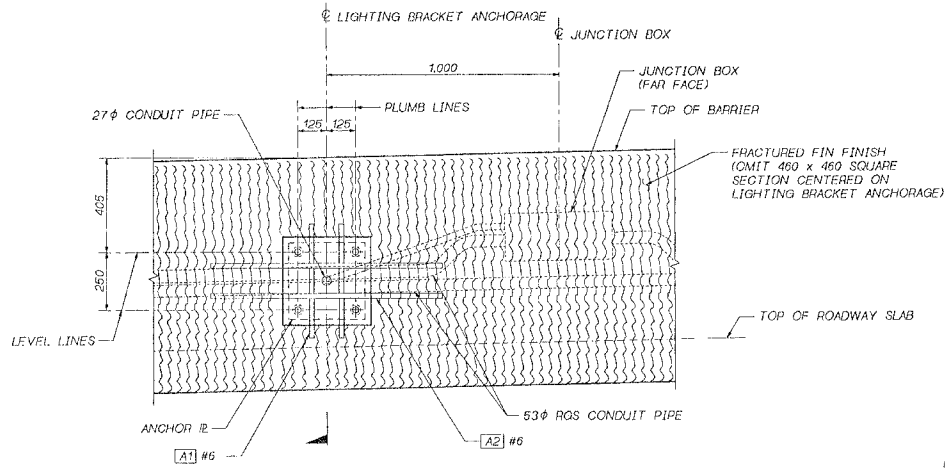
7-12-00

Washington State Department of Transportation

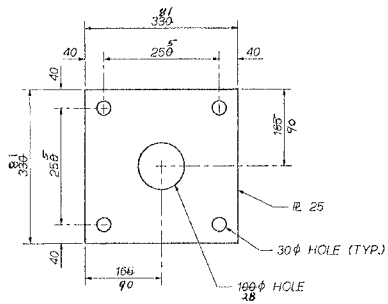
SR5
38TH STREET INTERCHANGE
S 38TH STREET USING 5/430 REPLACEMENT

TRAFFIC BARRIER
3 OF 3

SHEET NO. 60
OF 193
314 SHEETS



ELEVATION



ANCHOR PLATE

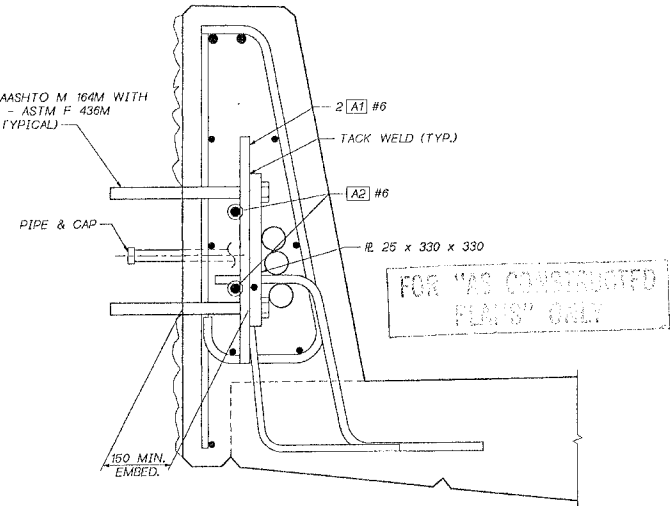
GALVANIZE PER AASHTO M 111.

ANCHORAGE BARLIST			
ALL REINF. SHALL BE AASHTO M31, GRADE 60.			
MARK #	SIZE	LENGTH	BEND TYPE
A1	6	500	STRAIGHT
A2	6	1,250	STRAIGHT

LIGHTING BRACKET ANCHORAGE LOCATIONS	
STATION	LOCATION
1+375.0	LT.
1+415.0	RT.
1+461.0	LT.

CAMERA BRACKET ANCHORAGE LOCATIONS	
STATION	LOCATION
1+407.0	RT.
1+431.0	LT.

M24 H.S. BOLTS - AASHTO M 164M WITH HARDENED WASHER - ASTM F 436M INSTALLED LEVEL (TYPICAL)

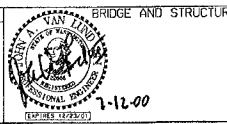


SECTION A

ALL CONDUIT SHALL BE GALVANIZED RIGID CONDUIT. INSTALL ALL CONDUIT RUNS TO DRAIN TO A BRIDGE END OR PROVIDE DRAIN AT ALL LOW POINTS WITHIN A CONDUIT RUN ON BRIDGE.

SHEET 5 JOB NO. 7179 SHEET 61

Bridge Design Engr. C. C. RUTH	S038TH LNEROOT (P&B, S038TH, IWO) LUMIN, P&B-1	REGION	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor: J. A. VAN LUND		10	WASH			
Designed By: J. MERTH						
Checked By: J.M. MOORE						
Detailled By: L. ANDREOTTI						
Bridge Projects Engr.						
Proj. Plan By						
Architect/ Specialist	DATE	REVISION	BY	APP'D	5935	



SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT
LUMINAIRE & CAMERA ANCHORAGE

ISSUE SHEET NO. 61
SHEET 134 OF 314
SUBSET

PART	MATERIAL SPECIFICATION
PIPES	ASTM A 53 GRADE B SCHEDULE 40 (STD. PIPE) GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
RESIN BONDED ANCHORS, NUTS & WASHERS	ASTM A 193M GRADE B7M OR ASTM A 449 GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
ANCHOR BOLTS, NUTS & WASHERS	AASHTO M 1634M GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
PLATES/BAR CHANNELS	AASHTO M 1633M GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
DRIVE PINS	ASTM A 276 TYPE 304 STAINLESS STEEL

NOTES

PIPE RAILING, PIPE RAILING SPICES, AND CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 60,000 ft.

SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION, GALVANIZING AND INCLUDING AN ERECTION DIAGRAM. MATERIAL BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.

THE BRIDGE RAILING SHALL BE HOT DIP GALVANIZED AFTER FABRICATION PER AASHTO M 111. ALL COMPONENTS OF RAIL PANEL, POSTS, AND SPLICE SLEEVES SHALL HAVE ALL SURFACES HOT DIP GALVANIZED PRIOR TO ASSEMBLY.

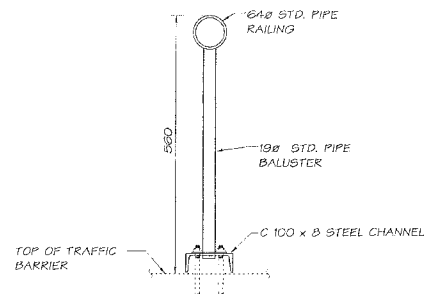
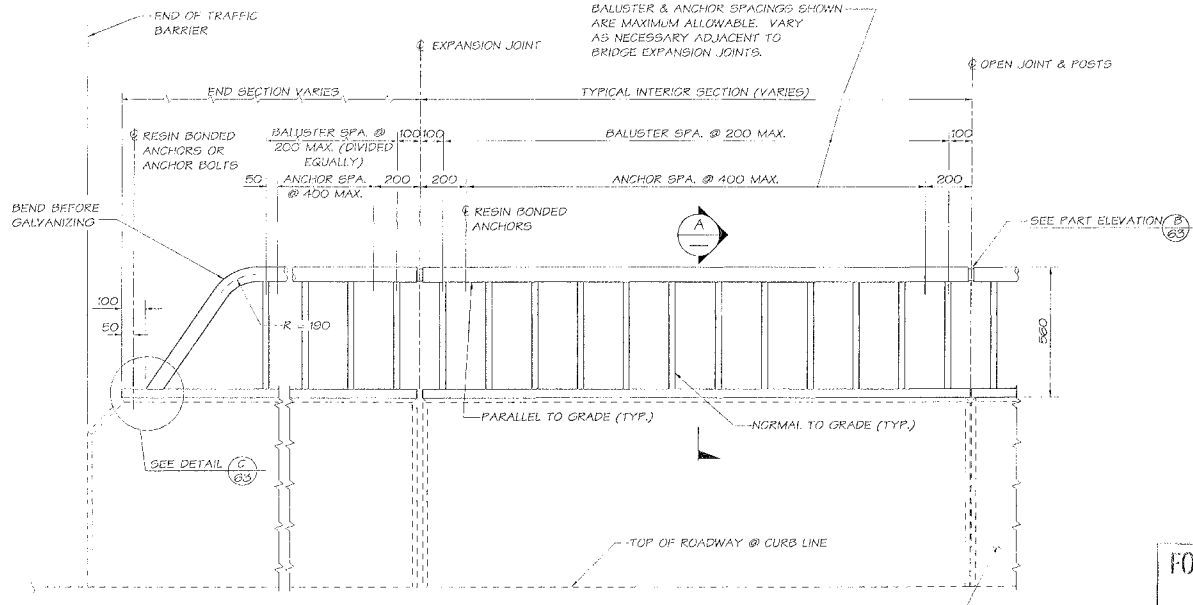
CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH.

PIPE RAILING, PIPE BALUSTERS, RAILING SPLICE AND CHANNELS SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.

WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D11.

PIPE RAILING AND SPLICES MAY BE HEATED TO FACILITATE FORMING OR BENDING.

THE CONTRACTOR SHALL PAINT THE EXPOSED GALVANIZED RAILING SURFACES AFTER INSTALLATION IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



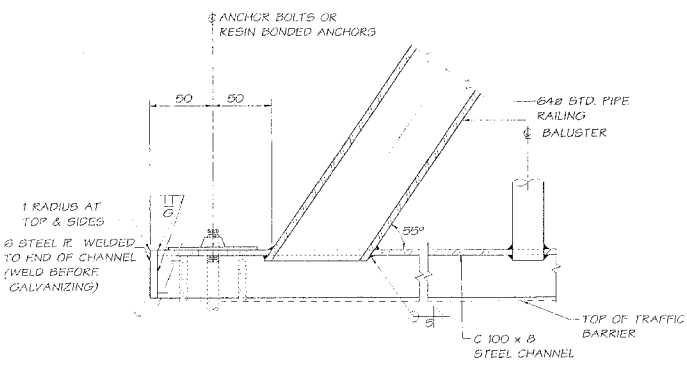
FOR "AS CONSTRUCTED PLANS" ONLY SECTION A

ELEVATION
BALUSTER ATTACHMENT DETAILS NOT SHOWN.

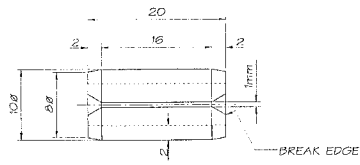
SR 5 JOB NO. 7179 SHEET 62

Bridge Design Engr. Charles C. Bahr Supervisor Van Emst, JR. Designer By Maura, JK 07/10 Checked By Maura, EM 07/10 Detailed By Antareski, I 07/10 Bridge Projects Engr. Pre-Em. Plan By Architect/Specialist	DATE REVISION BY APPR.	PROJECT NO. STATE FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS ID WASH. 5935 162 162 JOB NUMBER 59359		BRIDGE AND STRUCTURES OFFICE 9-11-00 7-11-00 		SR5 38TH STREET INTERCHANGE INTERCHANGE RECONSTRUCTION S38TH STREET U/XING 5430 REPLACEMENT BRIDGE RAILING TYPE BP 1 OF 2	DESIGN SHEET NO. 62 SHEET 195 OF 314 SHEETS
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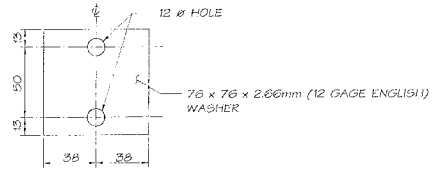
WSP 2012 09/26/27 2009



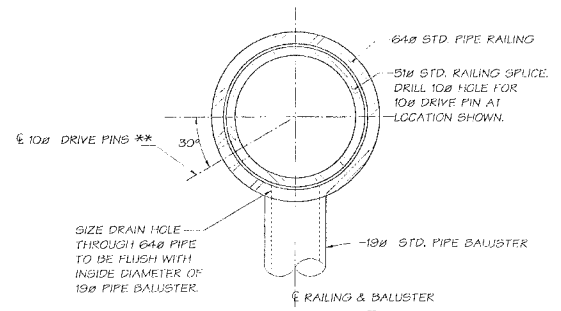
DETAIL C
62



DRIVE PIN DETAIL
SLOTTED TYPE SPRING PIN (ANSI B18.8.2)

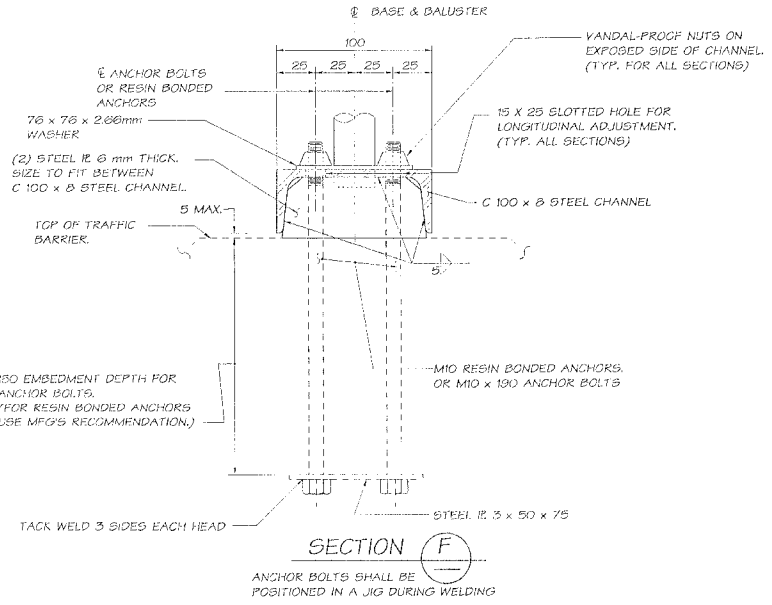


WASHER DETAIL
GALVANIZE AFTER FABRICATION

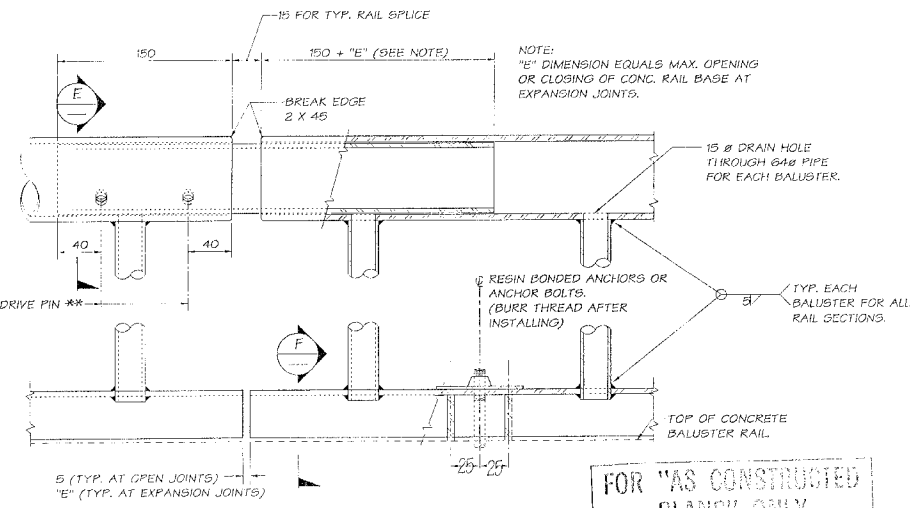


SECTION E

** LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.



SECTION F



PART ELEVATION

FOR "AS CONSTRUCTED PLANS" ONLY

B
62

SR 5 JOB NO. 7779 SHEET 63

Bridge Design Engr. Charles C. Ruth	11/10/2000	BOOK NO.	STATE	FED. AID PROJ. NO.	DATE	TOTAL SHEETS
Supervisor Vahn Lund, JA			50	WASH		
Designed By Merrell, JR 07/89						
Checked By Moore, TM 07/89						
Detailed By Andrepohl, I. 07/89						
Bridge Projects Engr.						
Prints Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD	5935	



BRIDGE AND STRUCTURES OFFICE

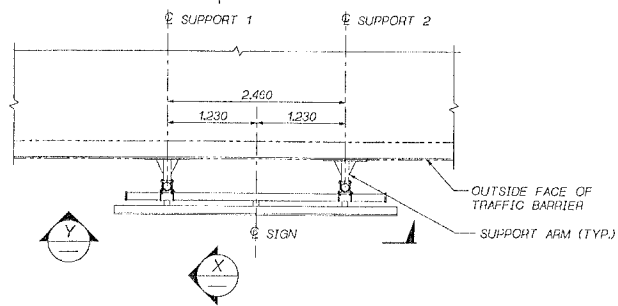


Washington State Department of Transportation

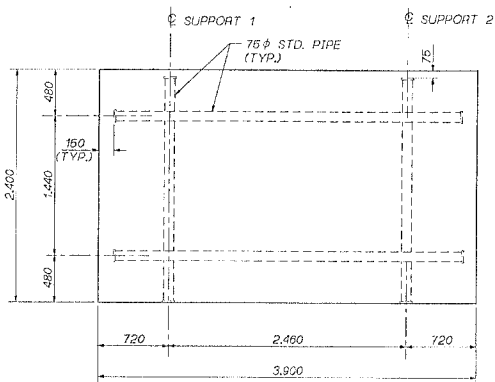
SR5
38TH STREET INTERCHANGE
INTERCHANGE RECONSTRUCTION
S38TH STREET U/XING 5/430 REPLACEMENT

BRIDGE RAILING TYPE BF
2 OF 2

BRIDGE SHEET NO.	63
SHEET	196
OF	314
SHEETS	



PLAN
BRIDGE NO. 5/430



VIEW Y
SIGN NO. B

GENERAL NOTES

1. MATERIAL SPECIFICATIONS:

PLATES & BARS AASHTO M 183M
PIPES ASTM A53 GRADE B OR ASTM A500 GRADE B
BOLTS, NUTS & WASHERS ASTM A307
UNLESS OTHERWISE NOTED
RESIN BONDED ANCHORS ASTM A193M GRADE B7M OR ASTM A449
(ALL THREAD)

2. ALL PARTS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
3. ALL U-BOLTS SHALL BE FABRICATED HOT BEFORE GALVANIZING.
4. SIZE OF FILLET WELDS SHALL BE 6mm MINIMUM EXCEPT WHERE NOTED.
5. B AND D DIMENSIONS ARE BASED ON PLANS AND SHALL BE FIELD MEASURED PRIOR TO FABRICATION OF BRACKET ARMS.

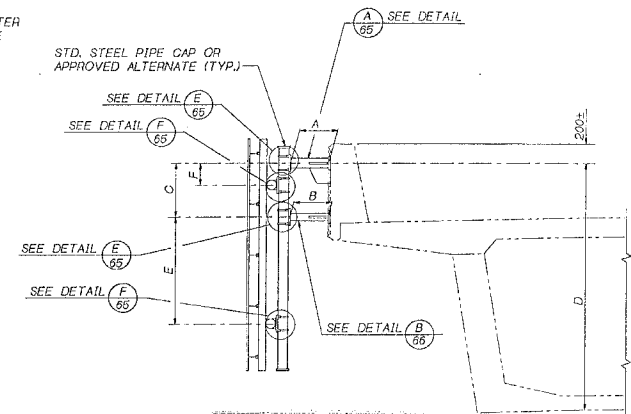
TABLE OF DIMENSIONS

SIGN BRACKET	LOCATION (STA. AT ϕ SIGN)	SIGN SKEW	SIGN LENGTH	SIGN HEIGHT
1	SEE LAYOUT	0°	3,900	2,400

PIPE SIZE	TOP ARM LENGTHS		BOT. ARM LENGTHS	
	A	B	C	D
75 ϕ	305	305		

CANTILEVER LENGTHS		C	D	G
E	F			
1,155	275	560	2,700	-

(ADJUST E & F DIMENSIONS TO PLACE SIGN HORIZONTALLY)



VIEW X

JOB NO. 7119 SHEET 64

Design Engineer: C. C. PUTI	3038TH INTERCHANGE (FOR 3038TH RD) SIGN LAYOUT, FIG. 1	REGION NO.	STATE	FED. AID PROJ. NO.	DATE	TOTAL SHEETS
Supervisor: J. A. VAN LUND			10 WASH.			
Designed by: Q.E.C. HARRIS	1/99					
Checked by: Q. KEDI	1/99					
Detailed by: L. ANDREOTTI	1/99					
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist						
DATE	REVISION	BY	APP'D	5935		

BRIDGE AND STRUCTURES OFFICE

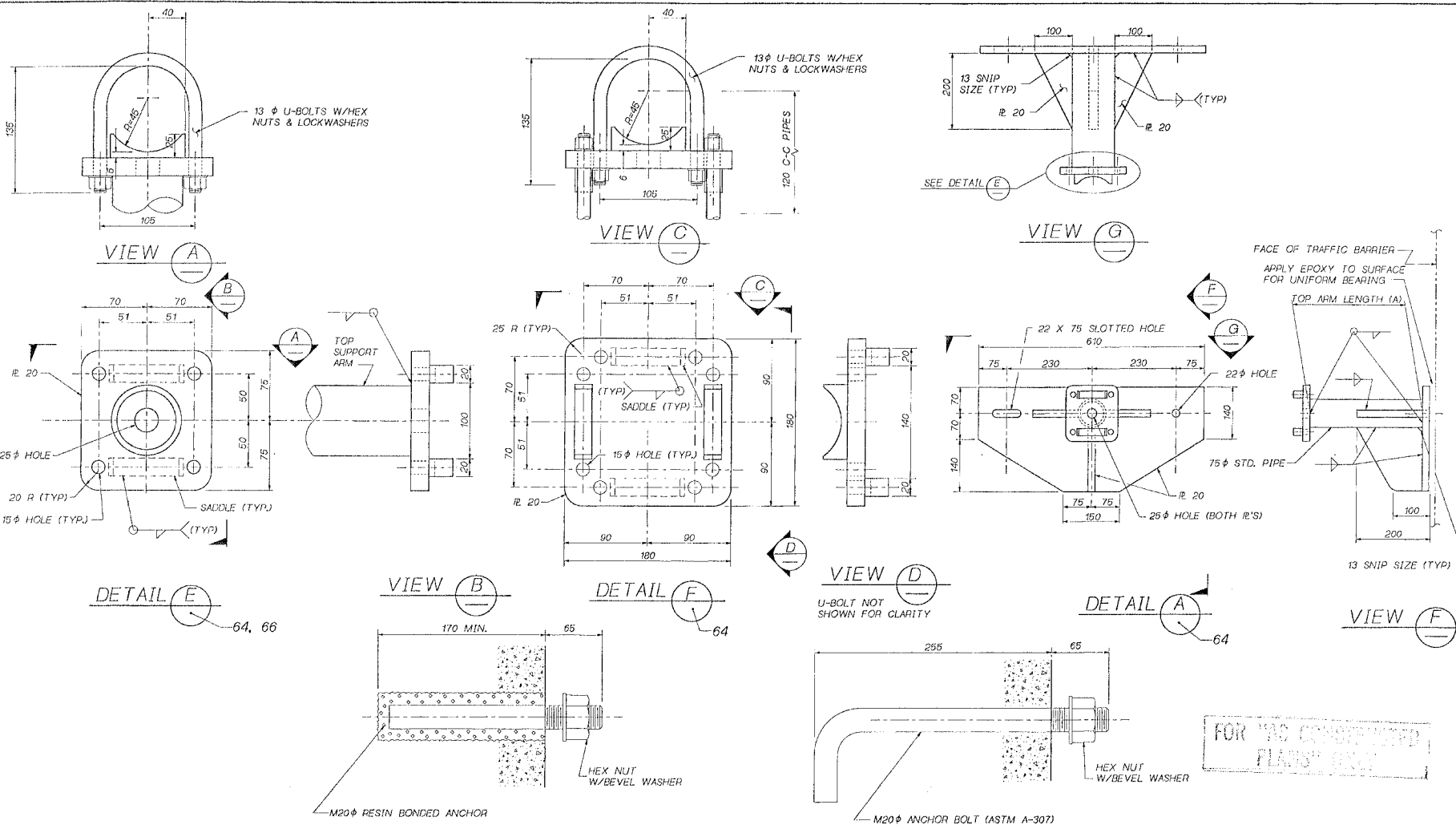
Washington State Department of Transportation

SR5
S 38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT
SIGN BRACKET LAYOUT

64
197 OF 514
34113

11-JLY-00

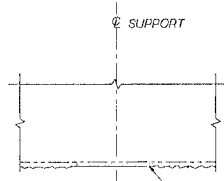
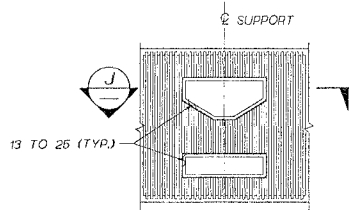
SR 5 JOB NO. 1179 SHEET 65



ANCHOR BOLT DETAIL

ALTERNATE ANCHOR BOLT DETAIL

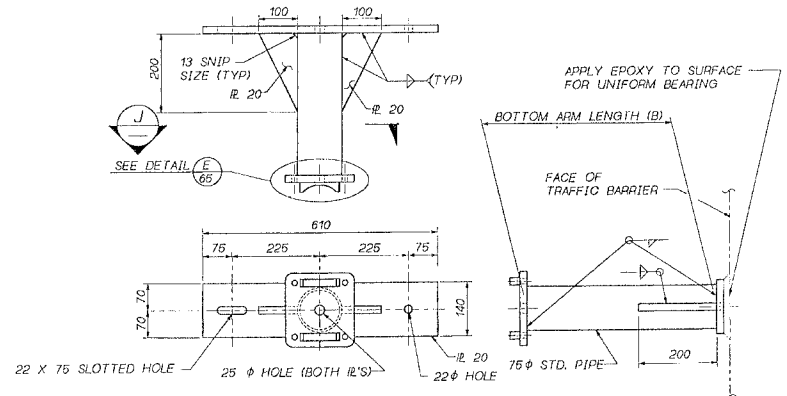
Bridge Design Engr. C. C. RUTH	3038TH LAMER ROOT (P&B, S&B) (11/01) BKT. DET. 1	BRIDGE NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	BRIDGE AND STRUCTURES OFFICE	<p>Washington State Department of Transportation</p>	<p>SR5</p> <p>38TH STREET INTERCHANGE</p> <p>S 38TH STREET USING 5/430 REPLACEMENT</p> <p>SIGN BRACKET</p> <p>DETAIL I</p>	<p>11-JULY-00</p>	<p>65</p>
Supervisor J. A. VAN LIND		10	WASH.				<p>7-11-2000</p>			<p>138</p>	
Designed by O.E.C. MINNS	7/99						<p>7-12-00</p>	<p>314</p>			
Checked by G. BEOI	7/99							<p>6815</p>			
Detailed by L. ANDREOTTI	7/99										
Bridge Projects Eng											
Project Mgr. By											
Architect/Specialist											
DATE	REVISION	BY	APP'D	5935							



BLOCKOUT FRACTURED FIN FINISH FORM PRIOR TO CASTING TO PROVIDE UNIFORM SMOOTH SURFACE, OR CHIP FACE OF BARRIER FLUSH UNDER BRACKET SUPPORT ARM BASE PLATE AFTER CASTING. APPLY EPOXY RESIN TO SURFACE TO ASSURE UNIFORM BEARING SURFACE.

SECTION J

ANCHORAGE IN FRACTURE FIN AREA



DETAIL B

FOR "AS CONSTRUCTED PLANS" ONLY

SR 15 JOB NO. 7179 SHEET 66

Bridge Design Engr. C. C. RUTH	3038TH OVERDOT (FGR, 3038TH, IWO) DRKT DET2 FEB. 1	MOJOT	STATE	FED. AID PROJ. NO.	SHEET	TOTAL
Supervisor J. A. VAN LUND			TO WASH.			
Designed by G.E.O. MINNS	7/99					
Checked by G. BEDI	7/99					
Designed by L. INGHEDOTTI	7/99					
Bridge Projects Eng.						
Trkln. Plan by						
Architect/Speciailst						
17-JY-00	DATE	REVISION	BY	APP'D	5935	

BRIDGE AND STRUCTURES OFFICE

7-11-2000

7-12-00

Washington State
Department of
Transportation

SR5
38TH STREET INTERCHANGE
S 38TH STREET UXING 5/430 REPLACEMENT
SIGN BRACKET
DETAIL II

66
199
314
64111

