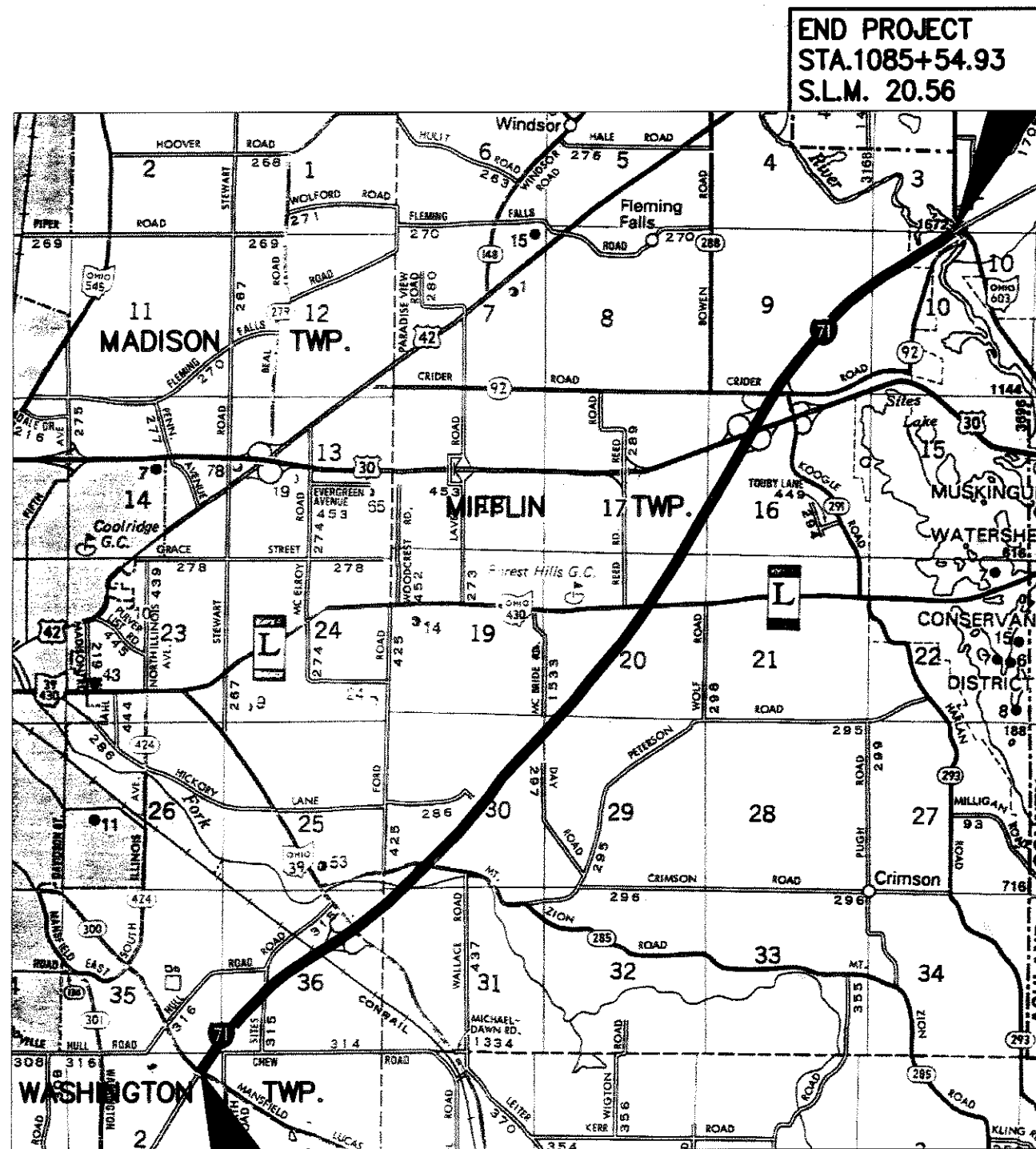


RIC - 71 - 13.66
010116 PID - 11378
Dist 3 3/7/01
User: jn81152
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URS Greiner Woodward Clyde



BEGIN PROJECT
STA. 710+00.00
S.L.M. 13.45

END PROJECT
STA. 1085+54.93
S.L.M. 20.56

LOCATION MAP

LAT. 40°46'12" LONG. 82°25'17"

SCALE IN MILES

0 1 2

Portion to be Improved
State & Federal Routes
Other Roads

DESIGN DESIGNATION

	INTERSTATE 71	S.R. 430
CURRENT A.D.T. (2004)	= 45,440	= 1,500
DESIGN YEAR A.D.T. (2024)	= 63,230	= 1,580
D.H.V.	= 6,955	= 205
D	= 56%	= 56%
T24	= 25%	= 4%
DESIGN SPEED	= 70 mph	= 55 mph
LEGAL SPEED	= 65 mph	= 55 mph
FUNCTIONAL CLASSIFICATION	= RURAL INTERSTATE	= RURAL MAJOR COLLECTOR

DESIGN EXCEPTIONS

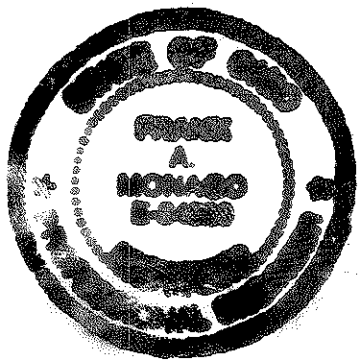
DESIGN FEATURE
NONE REQUIRED

UNDERGROUND UTILITIES

**2 WORKING DAYS
BEFORE YOU DIG**

Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS
MUST BE CALLED DIRECTLY



PLANS PREPARED BY

URS Greiner Woodward Clyde
Engineering & Architectural Services

AKRON COLUMBUS CLEVELAND

Frank A. Monago
FRANK A. MONAGO REG. ENGINEER No. 34380

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

RIC-71-13.66

WASHINGTON TOWNSHIP MADISON TOWNSHIP MIFFLIN TOWNSHIP RICHLAND COUNTY

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SOIL PROFILE (CR - 285)	

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		
BP-1.1 07-28-00	DM-1.1M 10-21-97	GR-1.1M 10-21-97	GR-5.1M 04-21-95	RM-4.3M 10-21-97	TC-51.11 9-30-94	HL-10.12M 5-01-95	HL-30.31M 5-01-95	DM-1.1M 10-21-97	816 04-21-97	905 04-01-98		
BP-2.1 07-28-00	DM-1.2M 10-21-97	GR-1.2M 01-03-96	GR-5.2M 11-30-94	RM-4.5M 10-21-97	TC-51.12 1-03-94	HL-10.31M 3-31-95	HL-30.32M 8-14-96	GSD-1-96 2-12-97	830 10-21-97	907 10-21-98		
BP-2.2 07-28-00	DM-2.1M 06-30-95	GR-1.3M 11-30-94	GR-5.3M 11-30-94	TC-12.30 1-20-84	TC-52.10 4-03-79	HL-20.11M 3-31-95	HL-40.10M 3-31-95	PCB-91 7-6-99	837 03-09-99	911 07-10-97		
BP-2.5 07-28-00	DM-4.1M 06-30-95	GR-2.1M 10-21-97	GR-6.1M 01-03-96	TC-21.20 9-01-92	TC-52.20 4-03-79	HL-20.21M 8-31-94	HL-50.11M 3-31-95	SICD-1-96M 2-12-97	842 01-06-99	937 03-09-99		
BP-3.1 07-28-00	DM-4.2M 06-30-95	GR-3.1M 10-21-97	GR-6.2M 01-03-96	TC-35.10 8-29-84	TC-61.10 4-05-82	HL-20.22M 3-31-95	HL-50.21M 8-31-94	SBR-1-99 1-12-99	844 01-06-99	954 09-09-97		
BP-5.1 07-28-00	DM-4.3 04-29-99	GR-3.2M 10-21-97	HW-2.1M 07-12-95	TC-41.10 8-29-84	TC-65.10 7-07-95	HL-20.23M 3-31-95	HL-60.11M 5-01-95	VPF-1-90 3-20-95	855 06-30-98	880 06-15-99		
BP-9.1 07-28-00	F-2.1 07-28-00	GR-4.2M 10-21-97	HW-2.2M 07-12-95	TC-41.20 6-21-94	TC-65.11 7-07-95	HL-60.21M 3-31-95	HL-60.21M 3-31-95		863 09-09-97	894 10-12-99		
CB-3.1M 07-12-95	F-3.1 07-28-00	GR-4.3M 10-21-97	RM-1.1 04-29-99	TC-41.50 6-21-94	TC-71.10 9-10-91	HL-30.11M 3-31-95	HL-60.31M 3-31-95	LA-1.2 7-28-00	870 08-10-99			
CB-3.2M 07-12-95	F-3.3 07-28-00	GR-4.4M 11-30-94	RM-3.1M 10-21-97	TC-42.10 8-19-77	TC-72.20 2-26-82	HL-30.21M 5-01-95	AS-1-81 9-15-94		877 04-13-99			
CB-1.2M 07-12-95	F-3.4 07-28-00	GR-4.5 04-29-99	RM-4.2M 10-21-97	TC-42.20 3-26-79	HL-10.11M 5-01-95	HL-30.22M 3-31-95	BS-1-93 12-19-94		899 10-21-98			

PROJECT DESCRIPTION

WIDENING AND RECONSTRUCTION OF 7.11 MILES OF INTERSTATE 71 TO PROVIDE A THIRD INSIDE LANE INCLUDING STRUCTURES, DRAINAGE, LIGHTING, SIGNING, AND PAVEMENT MARKINGS.

1997 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF INTERSTATE 71 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES. THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF S.R. 430, AND THE INTERMITTENT CLOSING OF C.R. 92 AND C.R. 285. DETOURS WILL BE PROVIDED AS INDICATED ON SHEET ~~81 & 82~~.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (I) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVEN NOTICE THEREOF ARE ERECTED.

APPROVED *Thomas M. O'Leary*
DATE 11-6-00 DISTRICT DEPUTY DIRECTOR

APPROVED *Jordan Proctor*
DATE 12-12-00 DIRECTOR, DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISIONS

WATERWAY PERMIT NWP # 3 & 14 DATE 11-24-99

FEDERAL PROJECT NO.
TE 21-GO10 (65)

PID NO.
11378

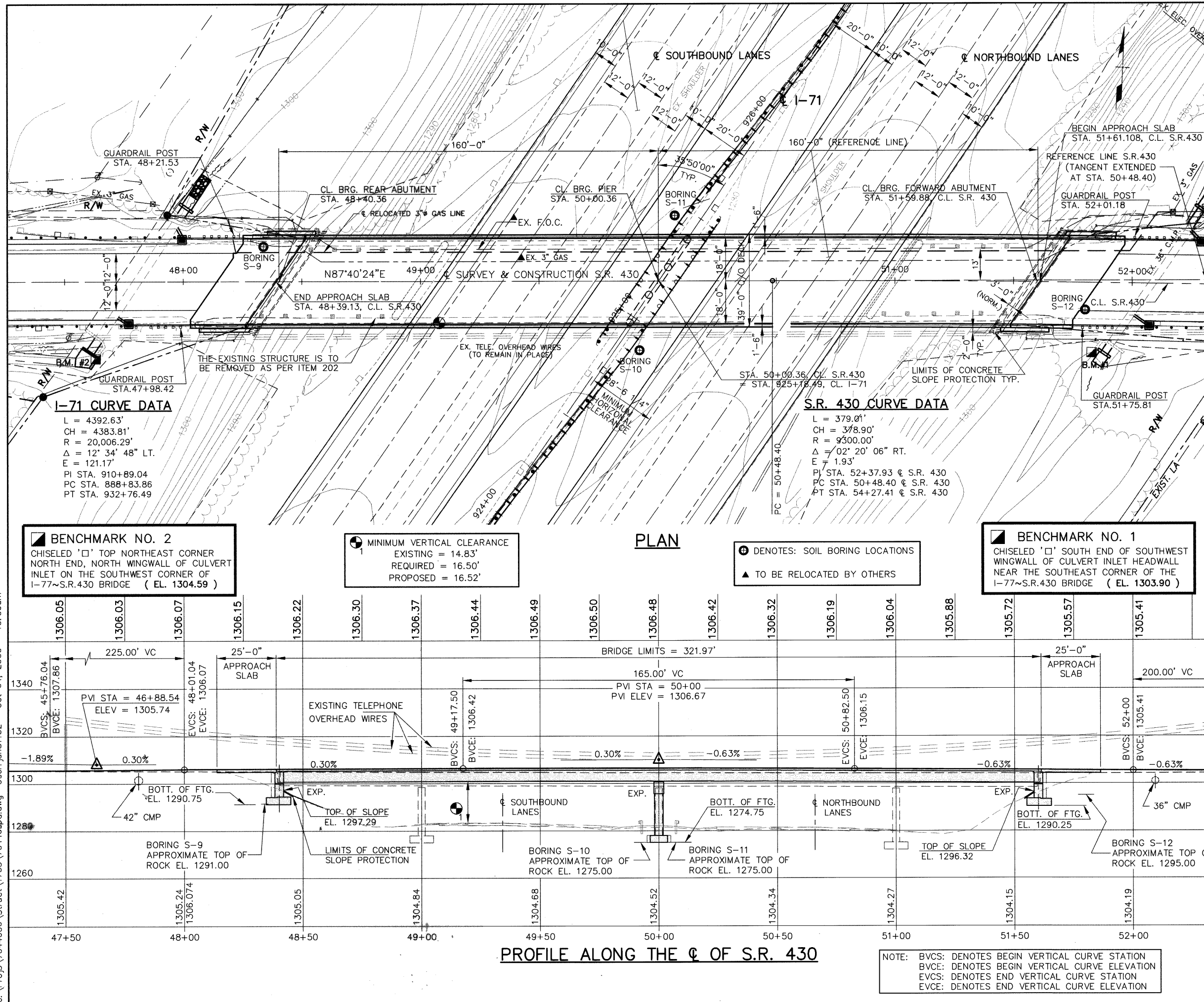
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

RIC - 71 - 13.66

1
633

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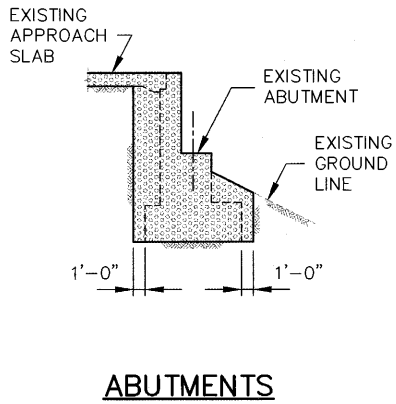
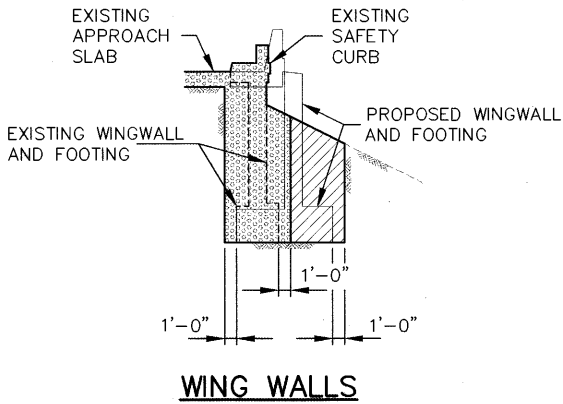
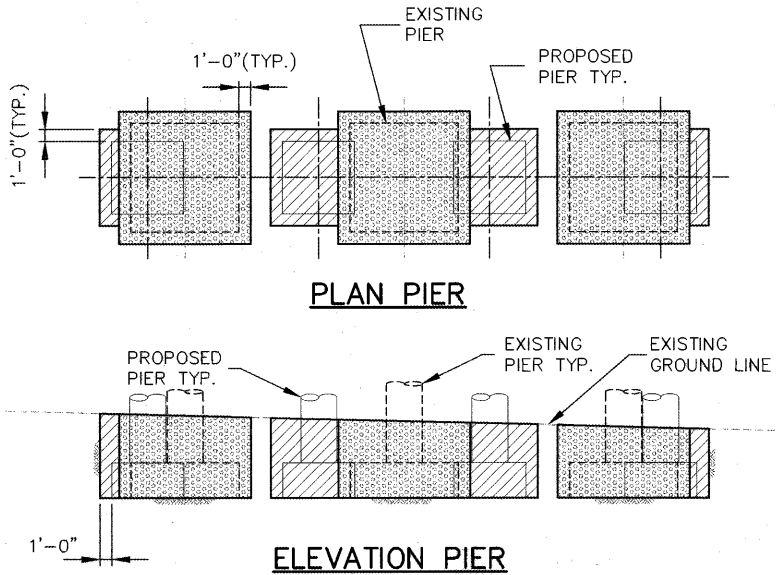
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ESTIMATED QUANTITIES

CAL'D BY: A.L.H. DATE: 11/17/99
CHK'D BY: A.Y.Z. DATE: 12/10/99

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTMENT		PIER	SUPER STRU.	GEN'L	REF. SHEET
					REAR	FORW'D				
202	11002	LUMP		STRUCTURE REMOVED, OVER 20 FOOT SPAN					LUMP	
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING					LUMP	
503	21321	LUMP		UNCLASSIFIED EXCAVATION, INCLUDING ROCK, AS PER PLAN					LUMP	473
SPECIAL	51267510	1183	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	65	68	131	821	98	
516	13900	179	SQ. FT.	2" PREFORMED EXPANSION JOINT FILLER	89	90				
516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16 x 16 x 2.98" PAD, 17" x 17" LOAD PLATE)	5	5				11/16
516	44101	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (20 x 26 x 2.47" PAD, 21" x 27" LOAD PLATE)			5			11/16
518	21231	LUMP		POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN					LUMP	473
518	40000	114	LIN. FT.	6" PERFORATED CORRUGATED PLASTIC PIPE	57	57				
518	40010	51.2	LIN. FT.	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	22.2	29				
SPECIAL	53013000	1390	SQ. FT.	FORM LINER	698	692				
601	21000	560	SQ. YD.	CONCRETE SLOPE PROTECTION	280	280				
SPECIAL	60739900	640	LIN. FT.	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				640		
816	00610	674,100	LB.	FIELD PAINTING OF NEW STEEL, INTERMEDIATE & FINISH COAT, SYSTEM IZEU				674,100		
842	41001	49	CU. YD.	CLASS C CONCRETE, PIER ABOVE FOOTINGS, AS PER PLAN			49			473
842	43501	225	CU. YD.	CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN	115	110				473
842	46501	16	CU. YD.	CLASS C CONCRETE, FOOTING, AS PER PLAN			16			473
894	10001	536	CU. YD.	HIGH PERFORMANCE CONCRETE, FOR BRIDGE DECK WITH WARRANTY, AS PER PLAN (MIX 4)				536		473
863	10080	LUMP		STRUCTURAL STEEL MEMBERS, LEVEL (4) FABRICATION (ASTM A709, GRADE 50)				LUMP		
863	20000	3585	EACH	WELDED STUD SHEAR CONNECTORS				3585		
863	95020	LUMP		STRUCTURAL STEEL, MISC.: GAS LINE SUPPORT *				LUMP		9/16

* COST TO BE PAID FOR BY COLUMBIA GAS OF OHIO



LEGEND



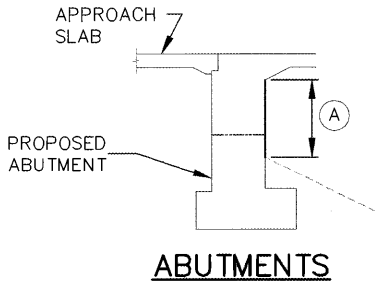
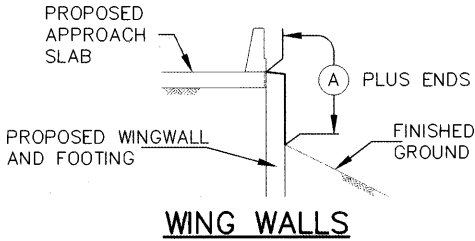
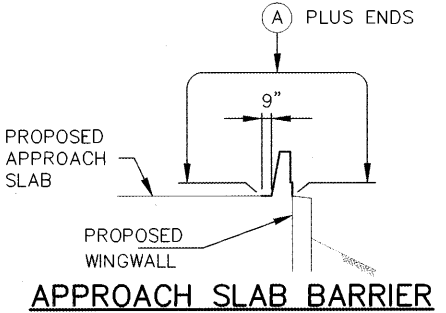
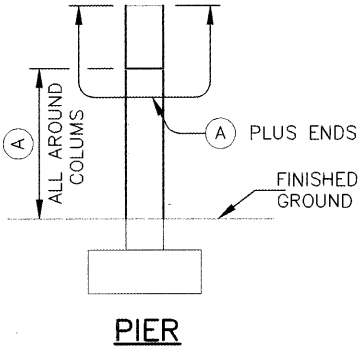
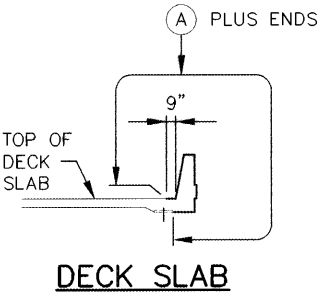
DENOTES EXCAVATION INCLUDED WITH ITEM 202, STRUCTURES REMOVED, OVER 20 FOOT SPAN FOR PAYMENT.



DENOTES EXCAVATION INCLUDED WITH ITEM 503, UNCLASSIFIED EXCAVATION, INCLUDING ROCK, AS PER PLAN FOR PAYMENT.

LIMITS OF EXCAVATION

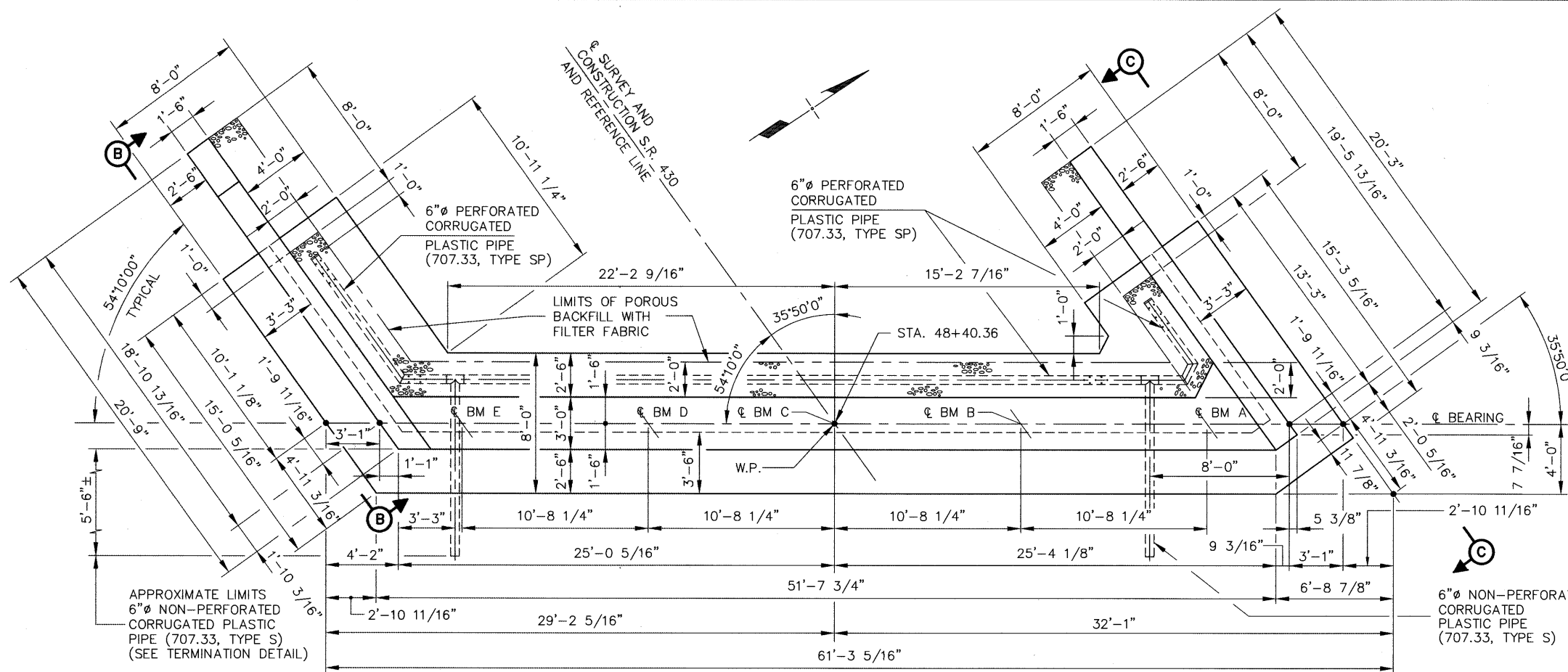
FOR ADDITIONAL INFORMATION REFER TO STRUCTURAL GENERAL NOTES



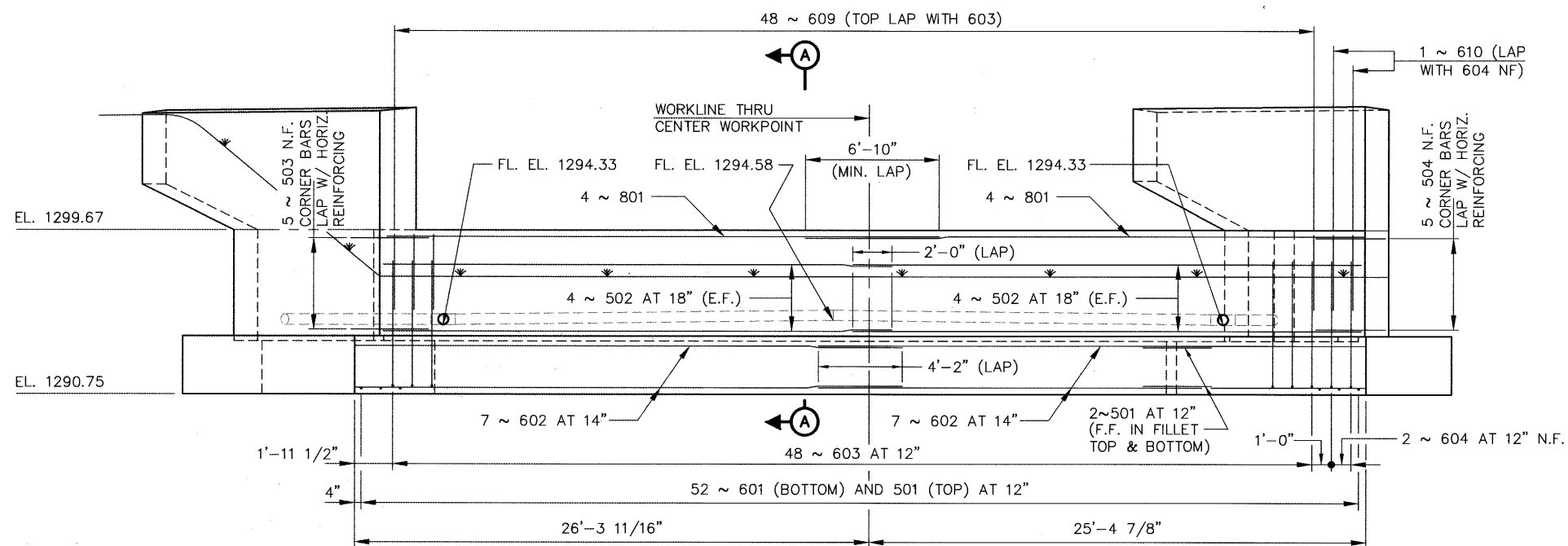
LIMITS OF SEALING OF CONCRETE SURFACES

LEGEND FOR SEALING OF CONCRETE SURFACES

(A) SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



PLAN REAR ABUTMENT



ELEVATION REAR ABUTMENT

NOTES:

THE PREFIX (1 A) SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE REAR ABUTMENT AND REAR ABUTMENT WINGWALLS RESPECTIVELY.

POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND Laterally TO THE ENDS OF THE WINGWALLS.

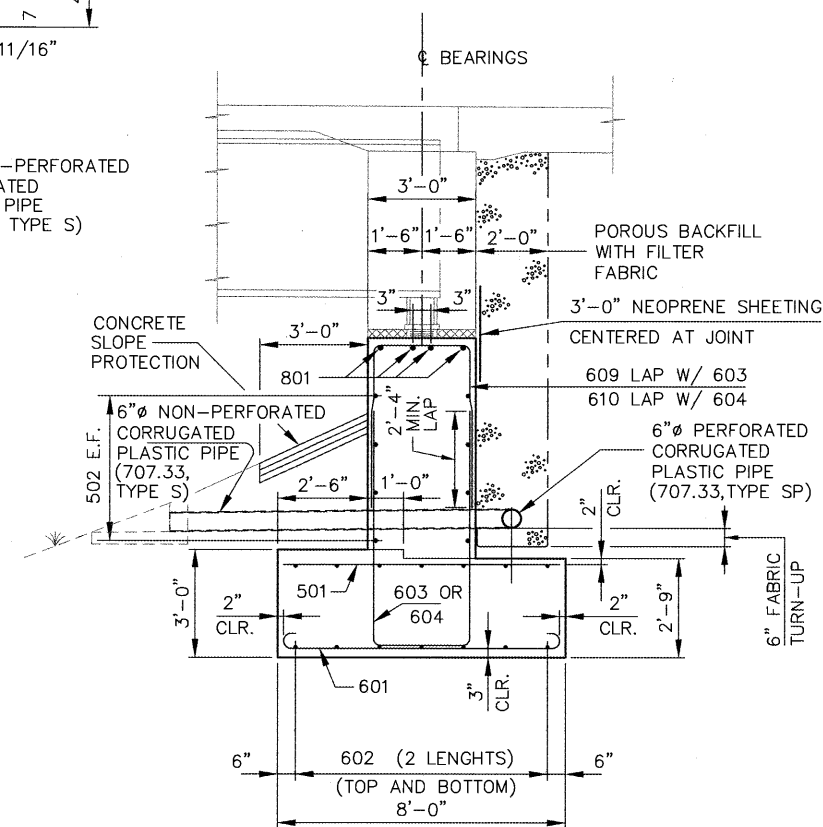
MINIMUM BAR LAPS SHALL BE AS FOLLOWS:
#5 BARS (2'-0"), #6 BARS (2'-4"), AND #8 BARS (3'-9")
UNLESS OTHERWISE NOTED.

FOR REINFORCING SCHEDULE AND BAR BENDING DIAGRAMS SEE SHEETS 15 & 16 OF 16.

FOOTINGS SHALL EXTEND A MINIMUM OF 3" INTO BEDROCK, SANDSTONE OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.

FOR VIEWS B-B & C-C AND ADDITIONAL SECTIONS AND DETAILS FOR THE REAR ABUTMENT SEE SHEET 4 OF 16.

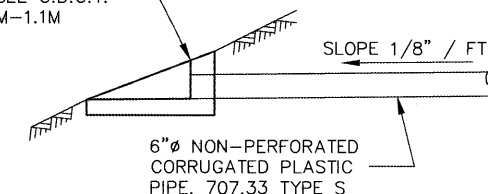
FOR ADDITIONAL NOTES AND REFERENCES SEE STRUCTURAL GENERAL NOTES SHEETS 389, 390 & 391.



SECTION A-A

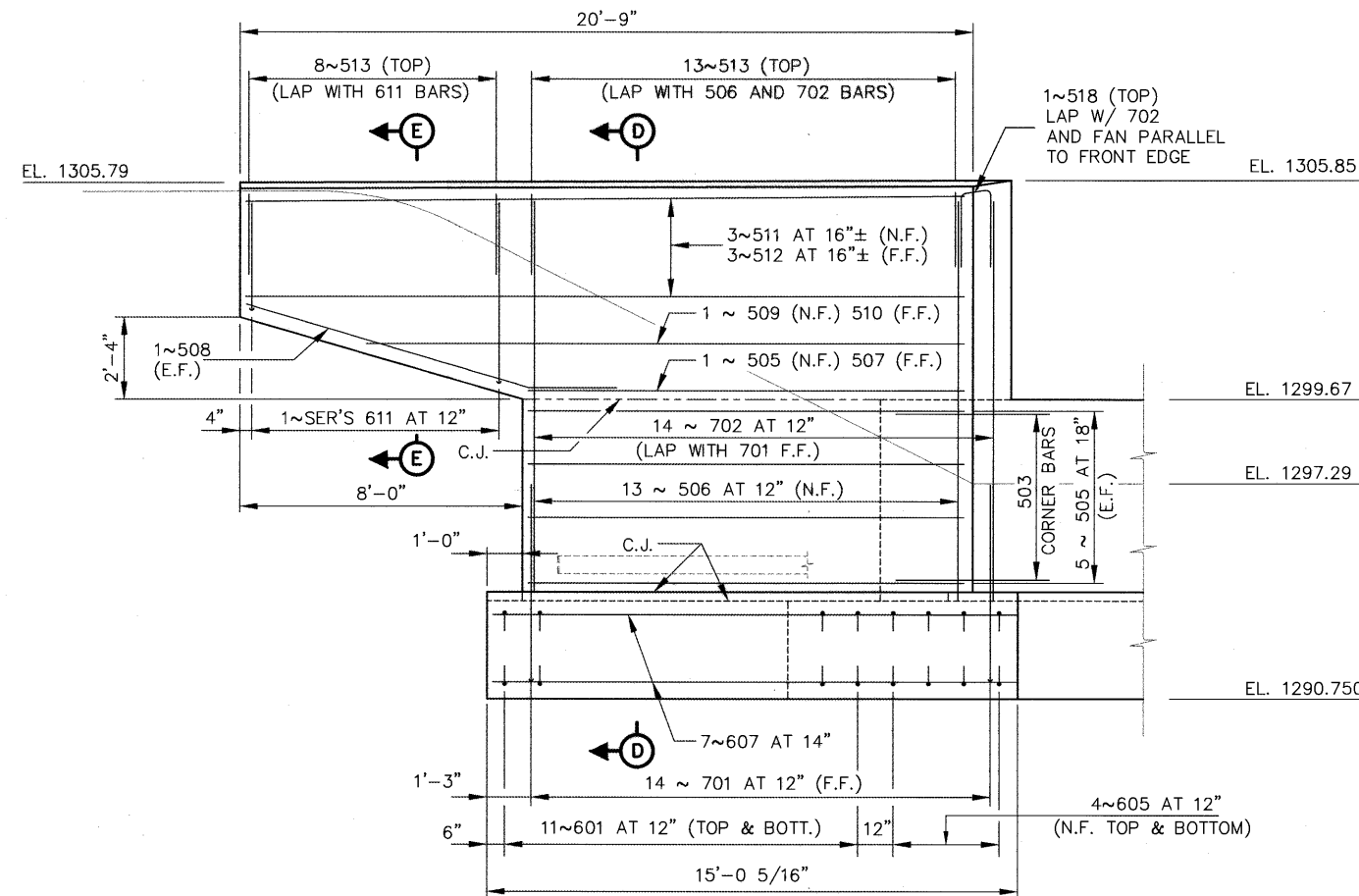
REINFORCING BARS IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF THE RETAINER ANCHORS FOR RETAINER ANCHOR LOCATIONS, SEE RETAINER LOCATION PLAN, SHEET 13 OF 16.

CONCRETE OUTLET PAD FOR DETAIL SEE O.D.O.T. STANDARD DM-1.1M

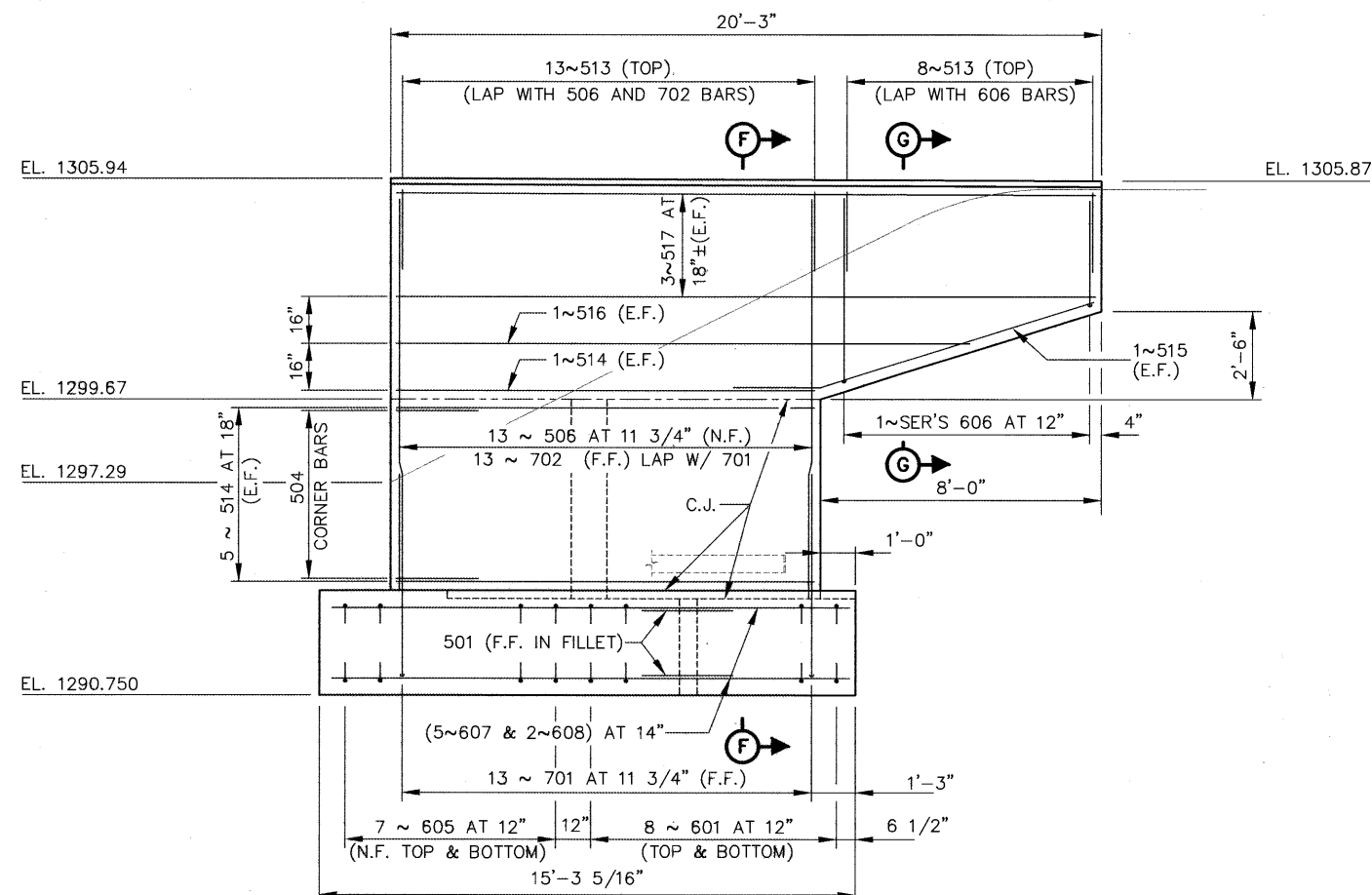


DRAINAGE TERMINATION DETAIL

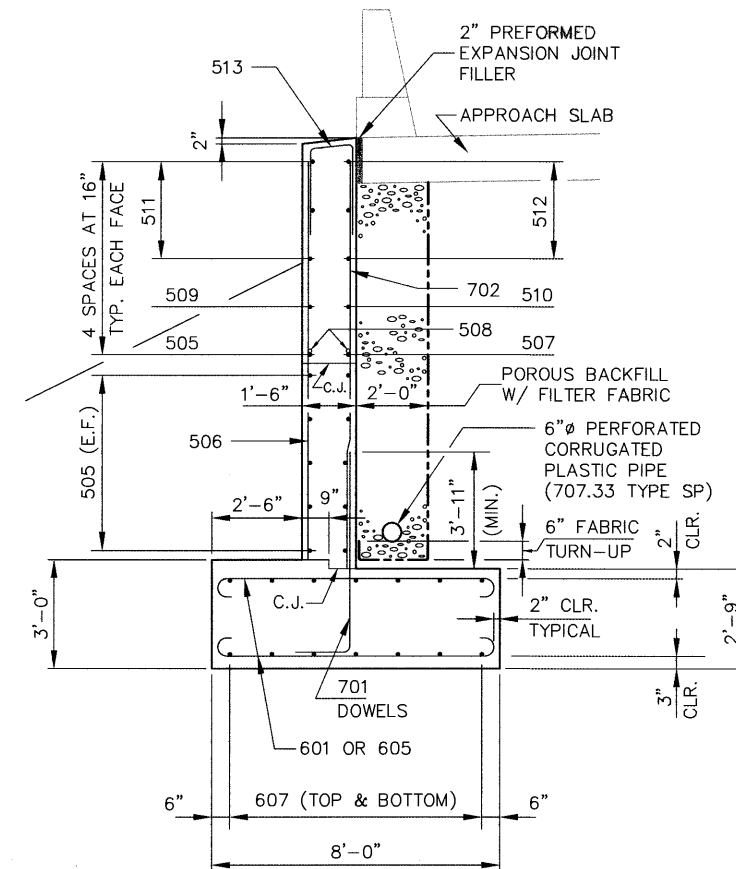
CONCRETE OUTLET PAD SHALL BE INCLUDED WITH ITEM 518 ~ 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, 707.33 TYPE S FOR PAYMENT.



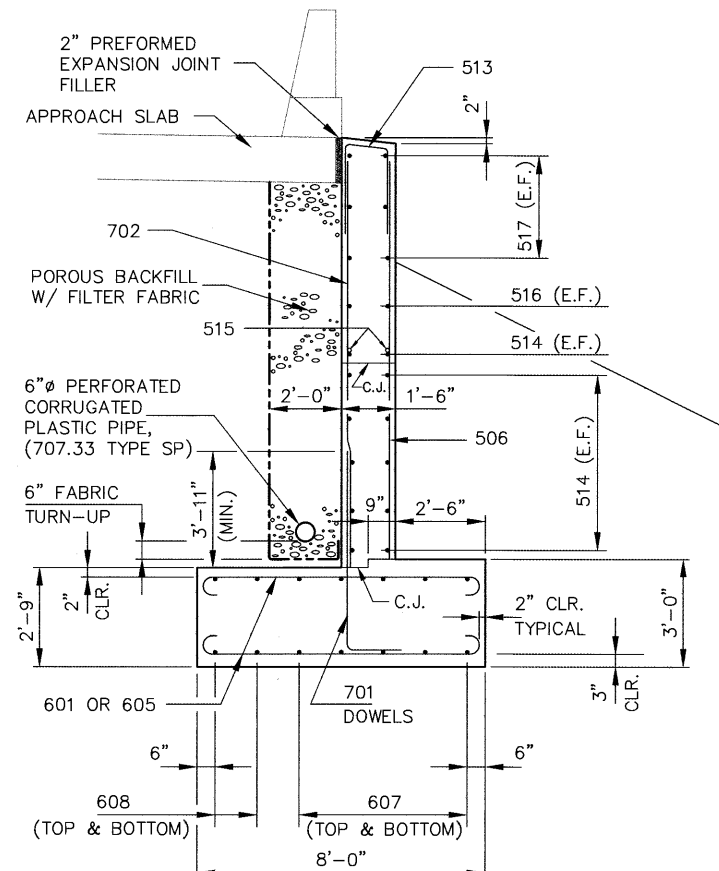
ELEVATION VIEW B-B



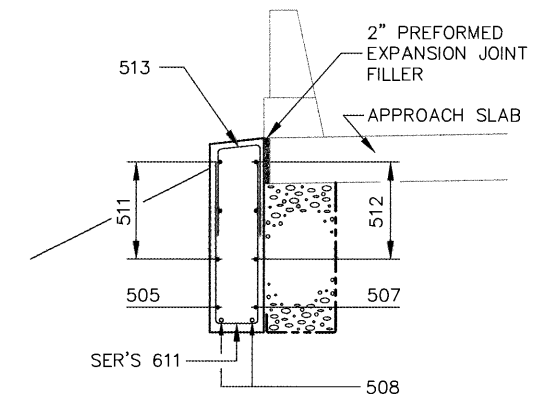
ELEVATION VIEW C-C



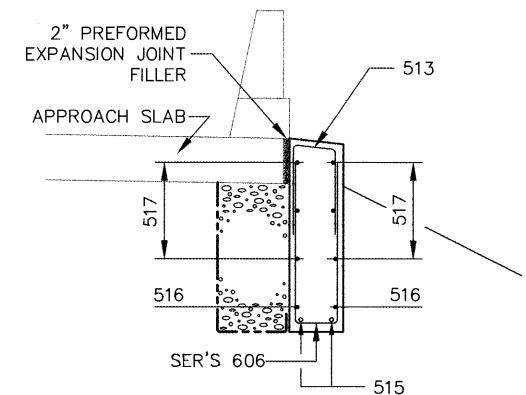
SECTION D-D



SECTION F-F



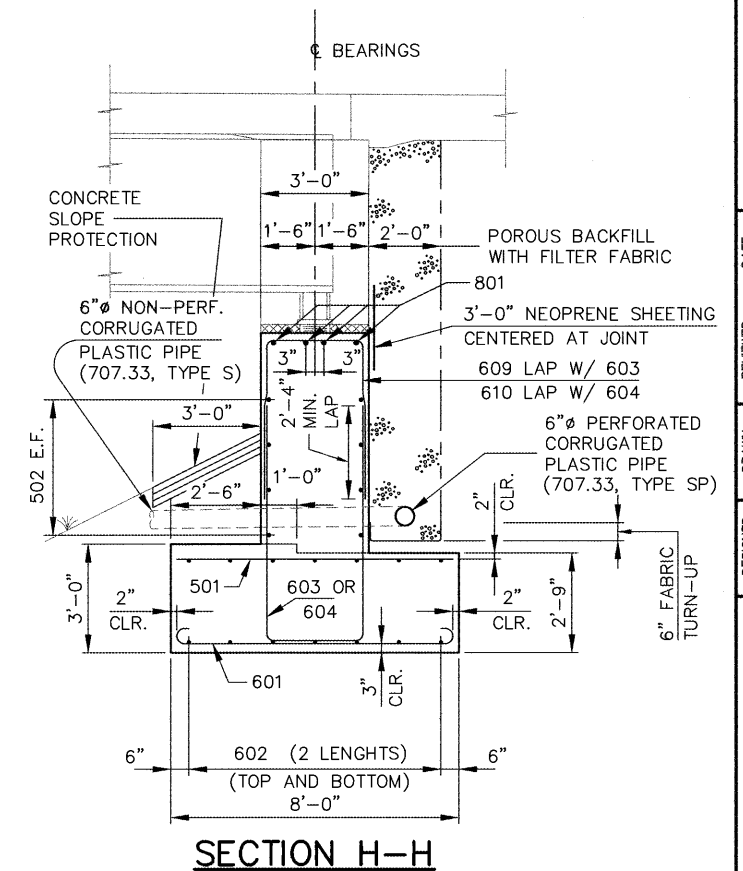
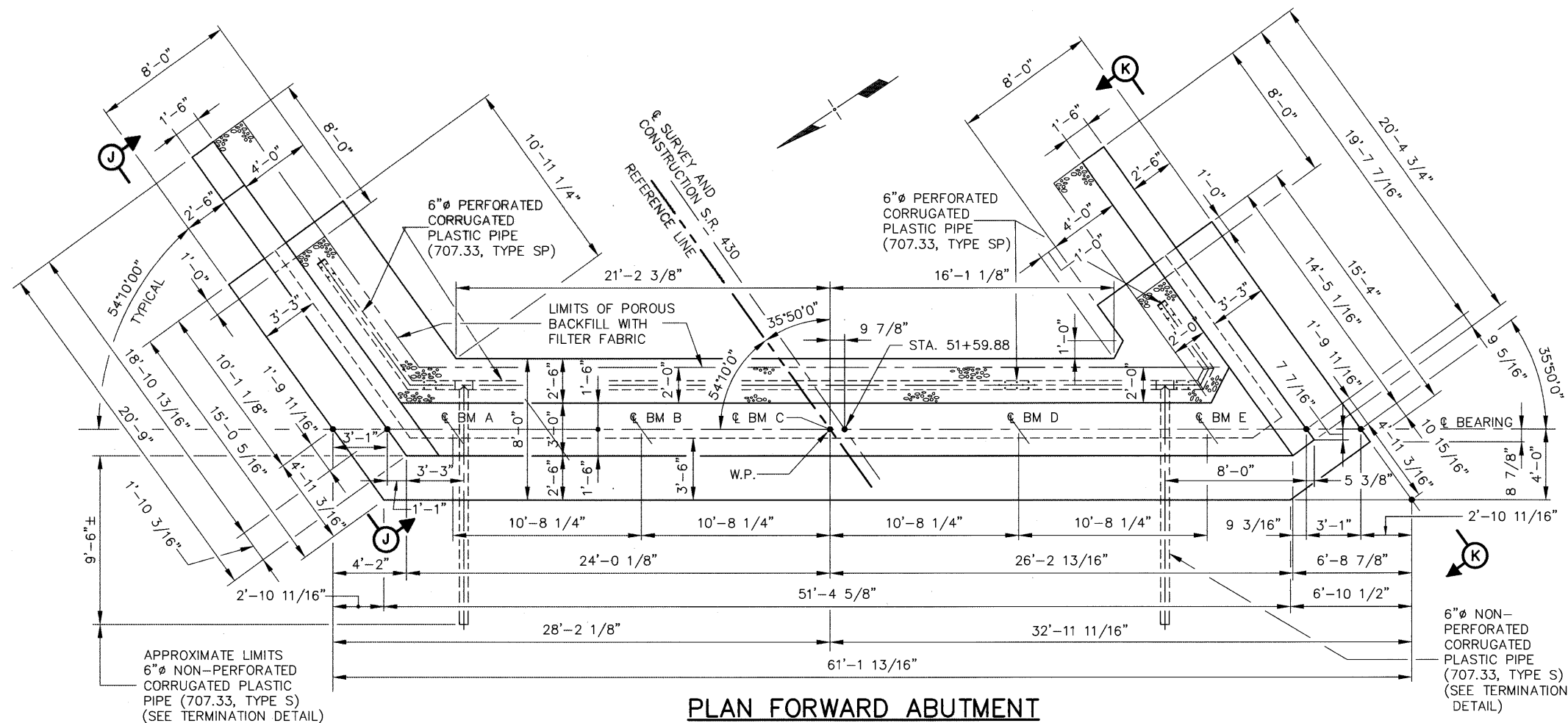
SECTION E-E



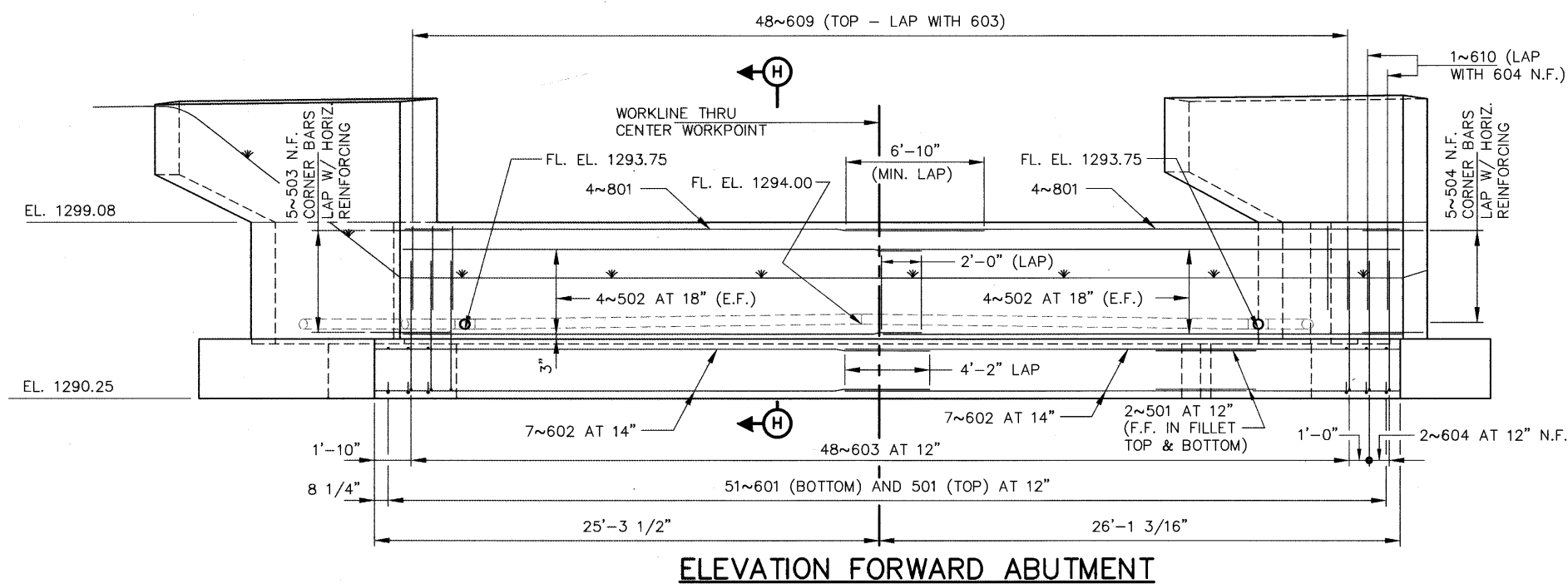
SECTION G-G

NOTE:

FOR LOCATION OF VIEWS B-B, AND C-C, AND ADDITIONAL NOTES AND DETAILS SEE PLAN AND ELEVATION REAR ABUTMENT SHEET 3 OF 16.



REINFORCING BARS IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF THE RETAINER ANCHORS.
FOR RETAINER ANCHOR LOCATIONS, SEE RETAINER LOCATION PLAN, SHEET 13 OF 16.



NOTES:

THE PREFIX (2 A) SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE FORWARD ABUTMENT AND FORWARD ABUTMENT RETAINING WALLS RESPECTIVELY.

POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

MINIMUM BAR LAPS SHALL BE AS FOLLOWS:
#5 BARS (2'-0"), #6 BARS (2'-4"), AND #8 BARS (3'-9")
UNLESS OTHERWISE NOTED.

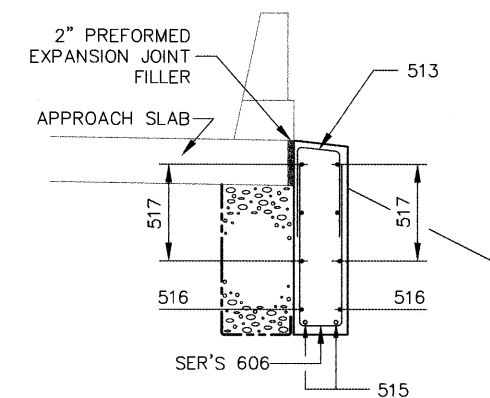
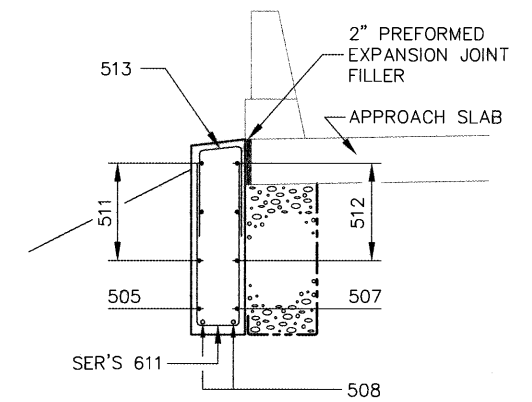
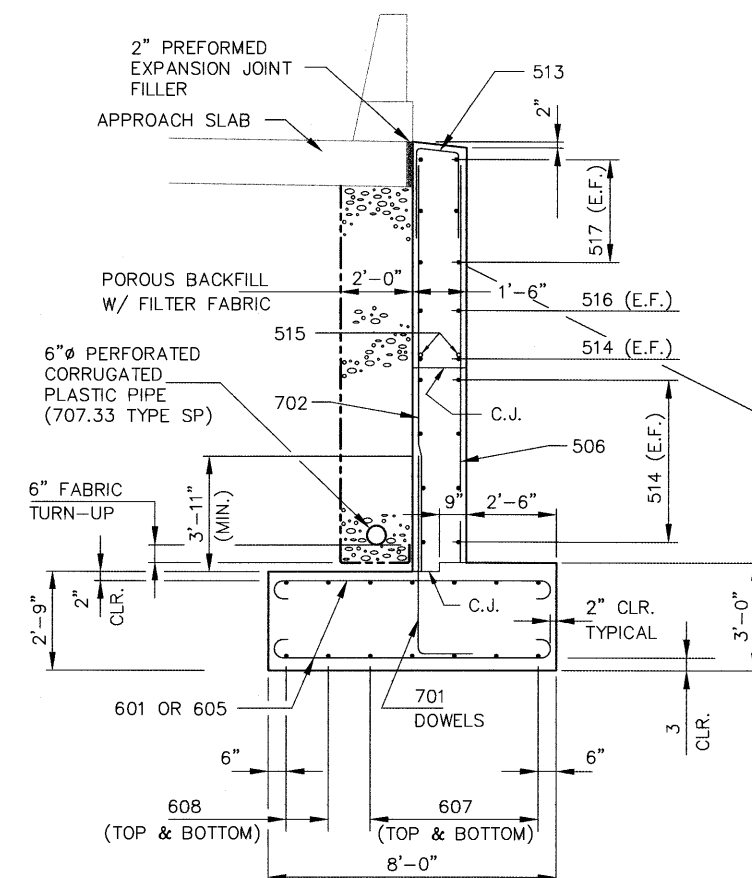
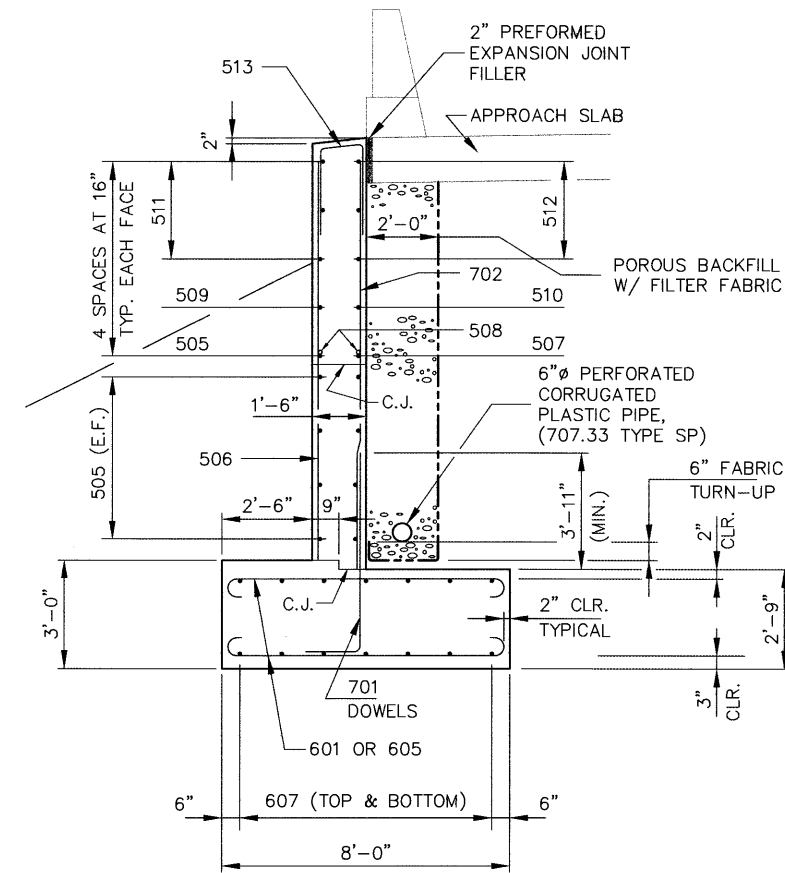
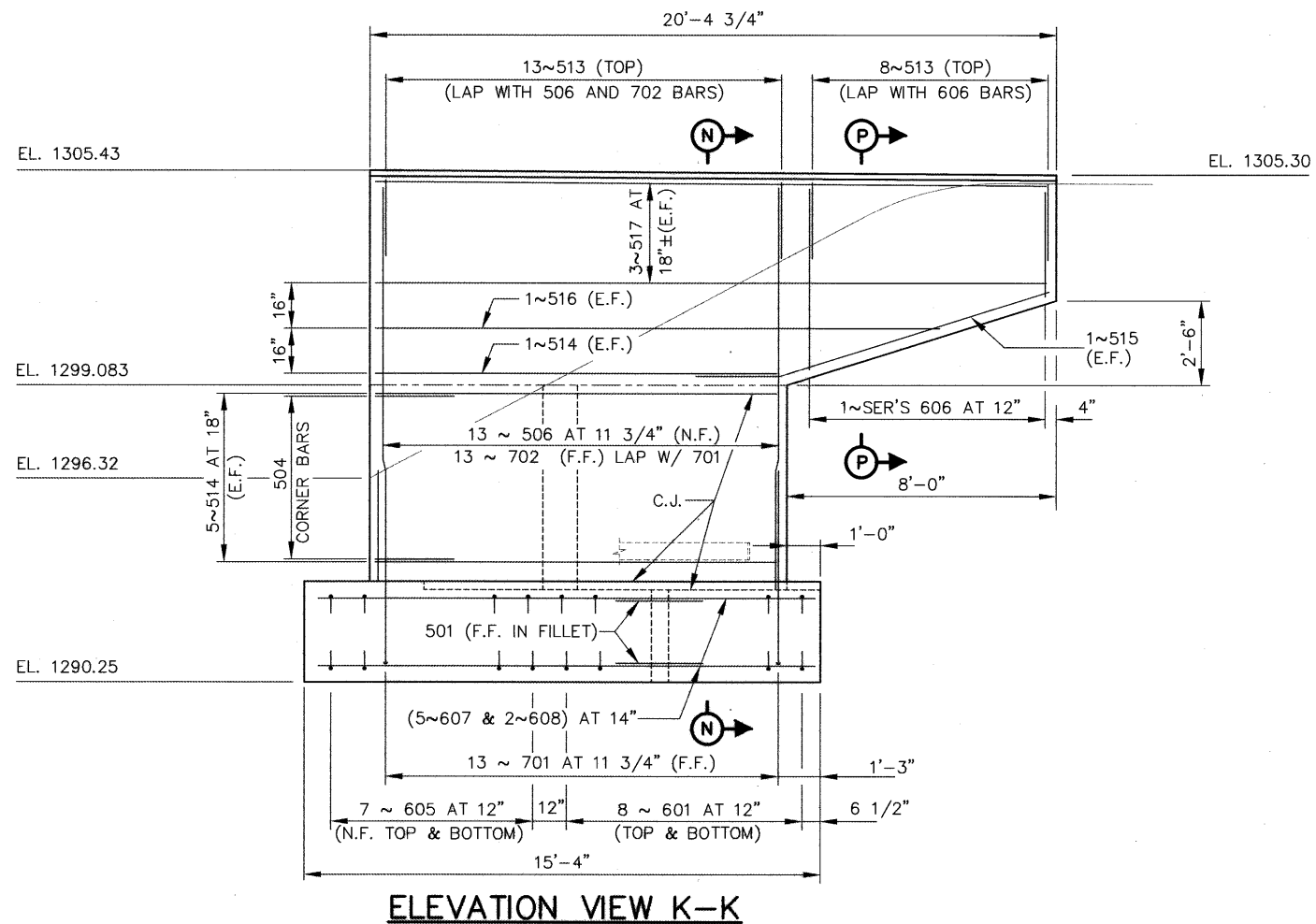
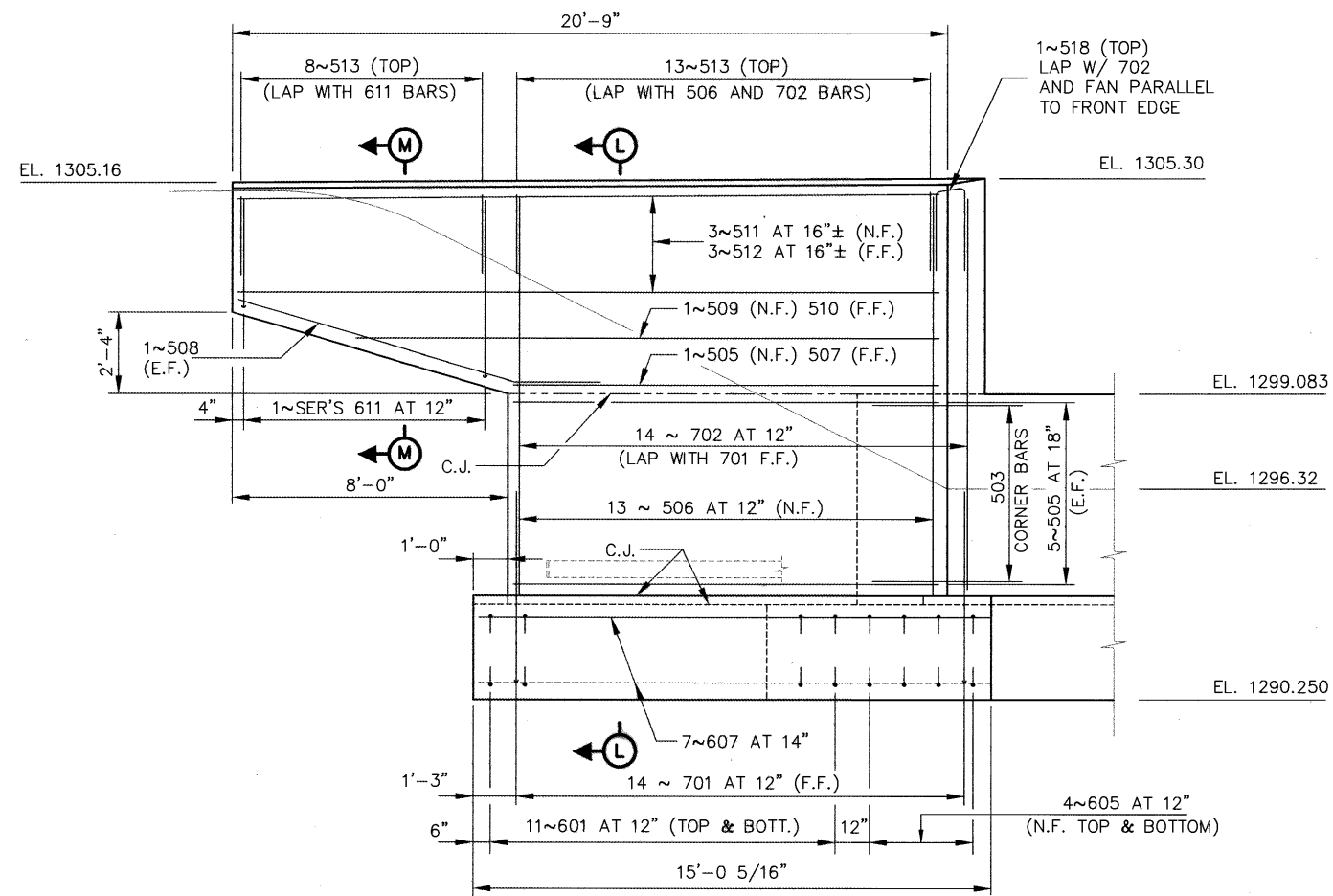
FOR REINFORCING SCHEDULE AND BAR BENDING DIAGRAMS SEE SHEETS 15 & 16 OF 16.

FOOTINGS SHALL EXTEND A MINIMUM OF 3" INTO BEDROCK, SANDSTONE OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.

FOR VIEWS J-J & K-K AND ADDITIONAL SECTIONS AND DETAILS FOR THE FORWARD ABUTMENT, SEE SHEET 6 OF 16.

FOR ABUTMENT DRAINAGE TERMINATION DETAIL, SEE PLAN AND ELEVATION REAR ABUTMENT, SHEET 3 OF 16.

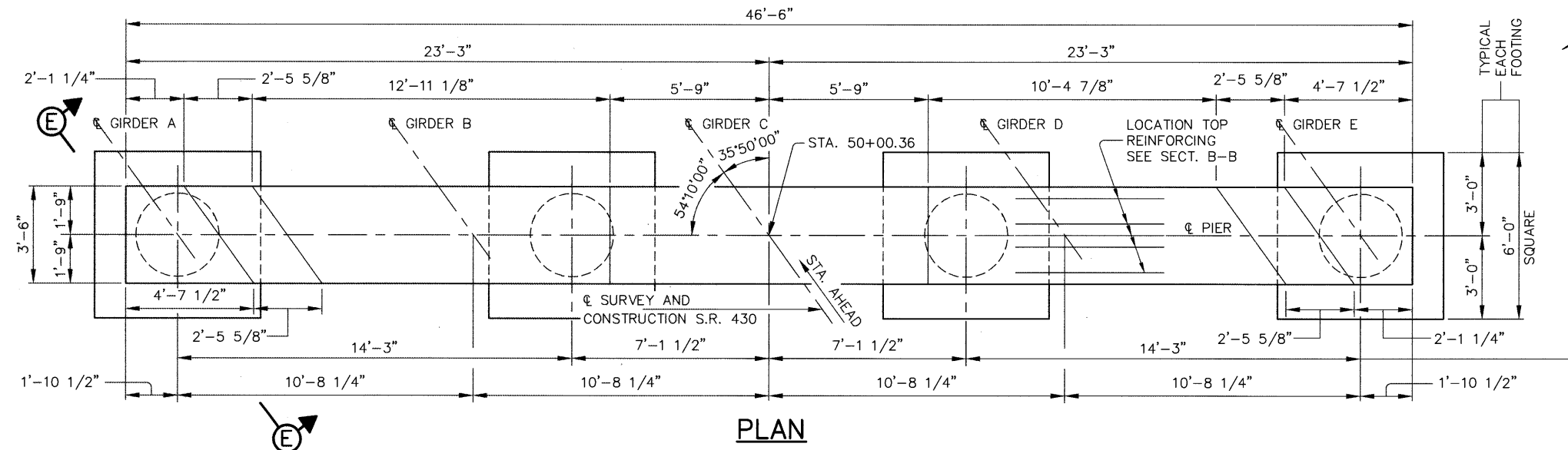
FOR ADDITIONAL NOTES AND REFERENCES SEE STRUCTURAL GENERAL NOTES SHEETS 389, 390 & 391.



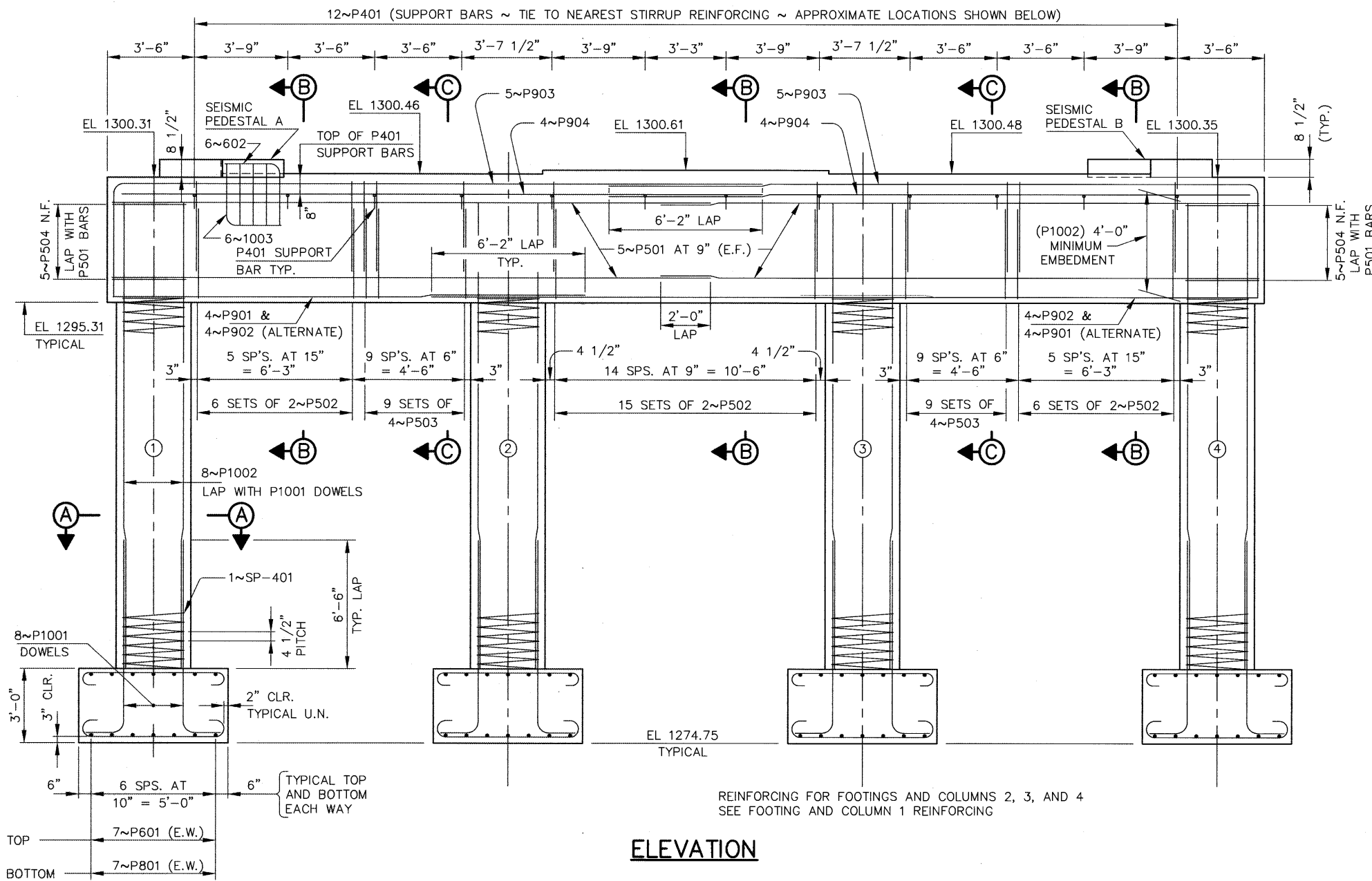
NOTE:

FOR LOCATION OF VIEWS J-J, AND C-C,
AND ADDITIONAL NOTES AND DETAILS SEE
PLAN AND ELEVATION FORWARD ABUTMENT
SHEET 5 OF 16.

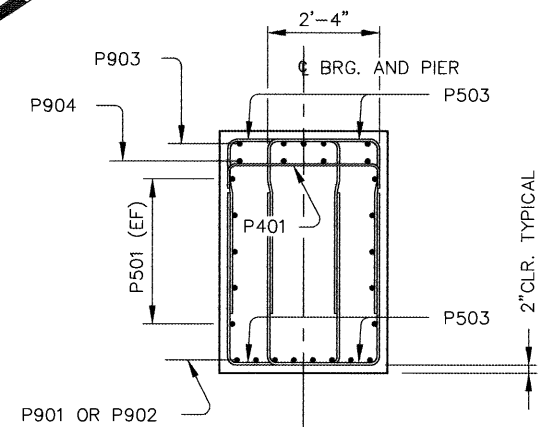
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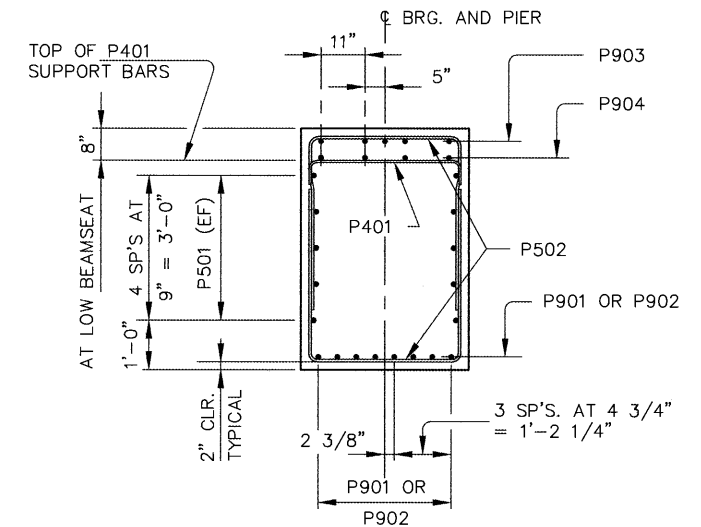
PLAN



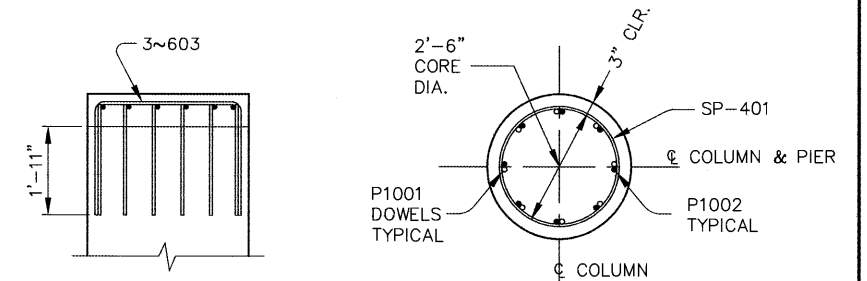
ELEVATION



SECTION C-C



SECTION B-B



SECTION E-E

SECTION A-A

NOTES:

FOR ADDITIONAL BEARING DETAILS, SEE SHEET 11 OF 16.

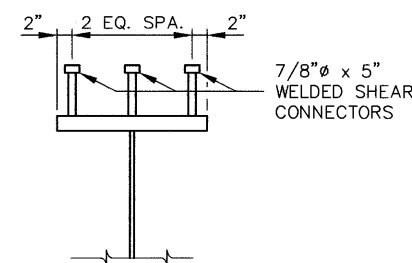
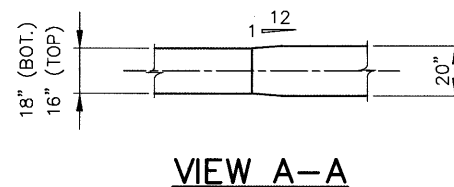
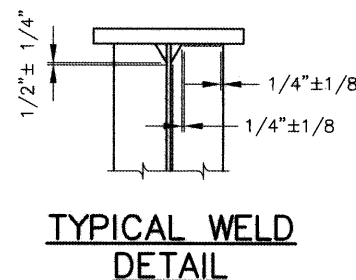
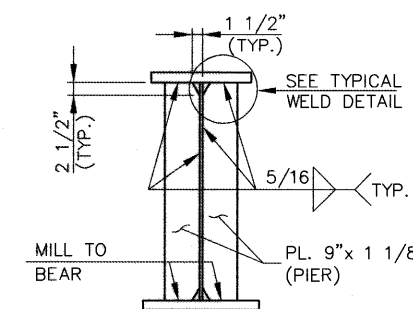
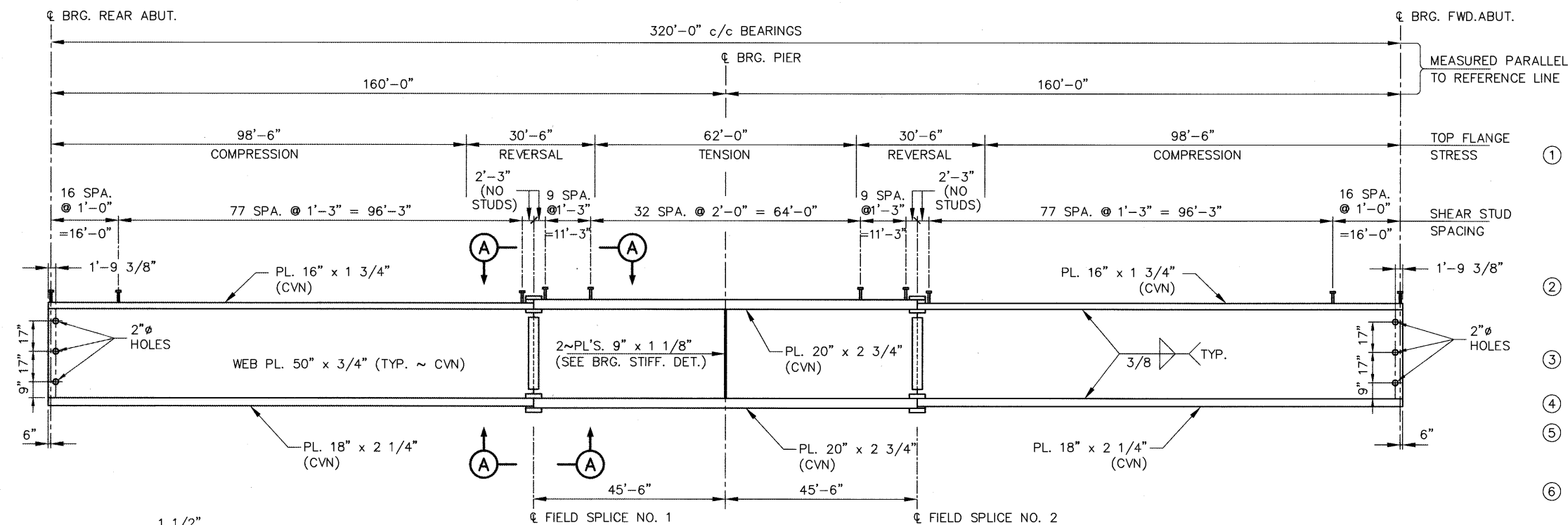
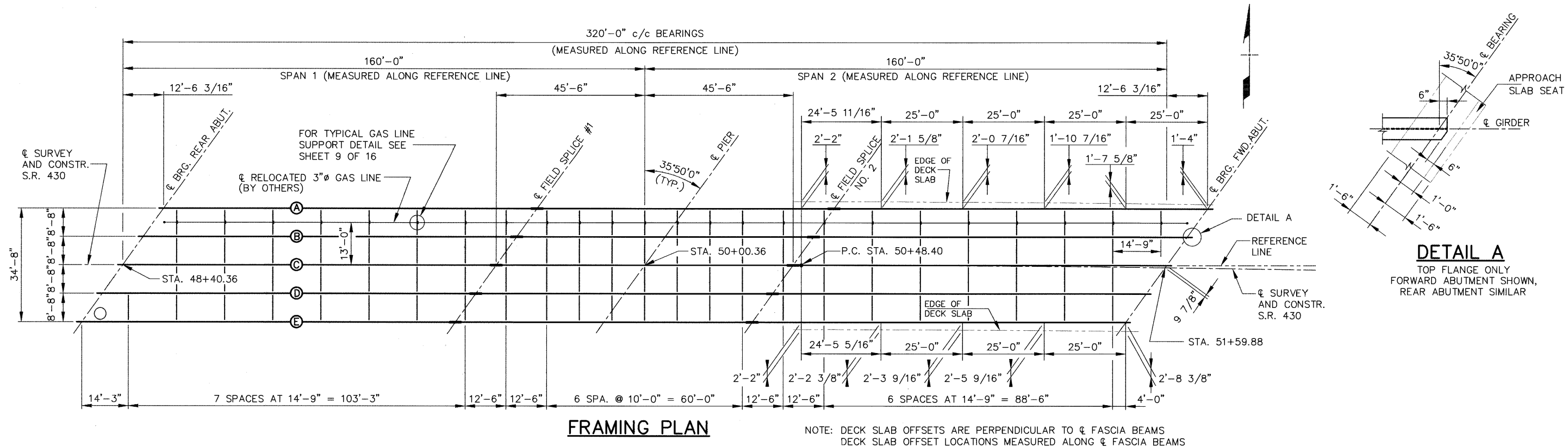
FOR REINFORCING SCHEDULE AND BAR BENDING SCHEDULE, SEE SHEET 16 OF 16.

SPIRAL REINFORCING STEEL SHALL EXTEND A MINIMUM OF TWO (2) INCHES INTO THE PIER CAP.

FOOTINGS SHALL EXTEND A MINIMUM OF 3 INCHES INTO BEDROCK, SANDSTONE OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.

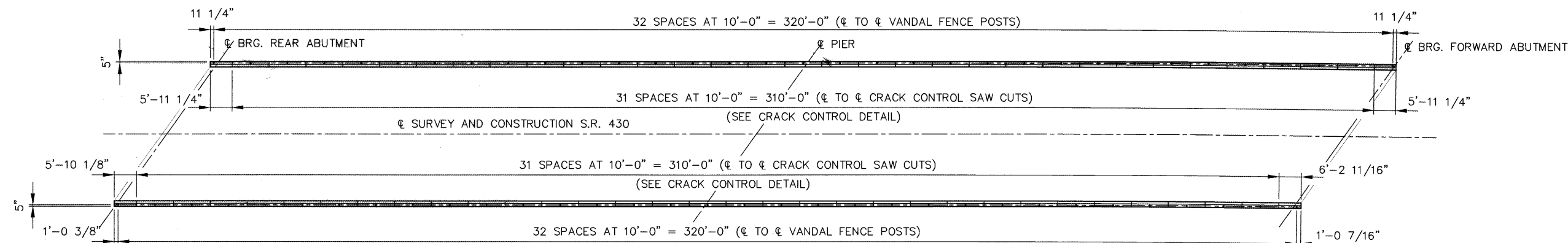
FOR ADDITIONAL NOTES AND REFERENCES SEE STRUCTURAL GENERAL NOTES, SHEETS 389, 390 & 391.

REBARS IN SEISMIC PEDESTAL B ARE SIMILAR TO ONES IN SEISMIC PEDESTAL A, BUT OPPOSITE HAND.



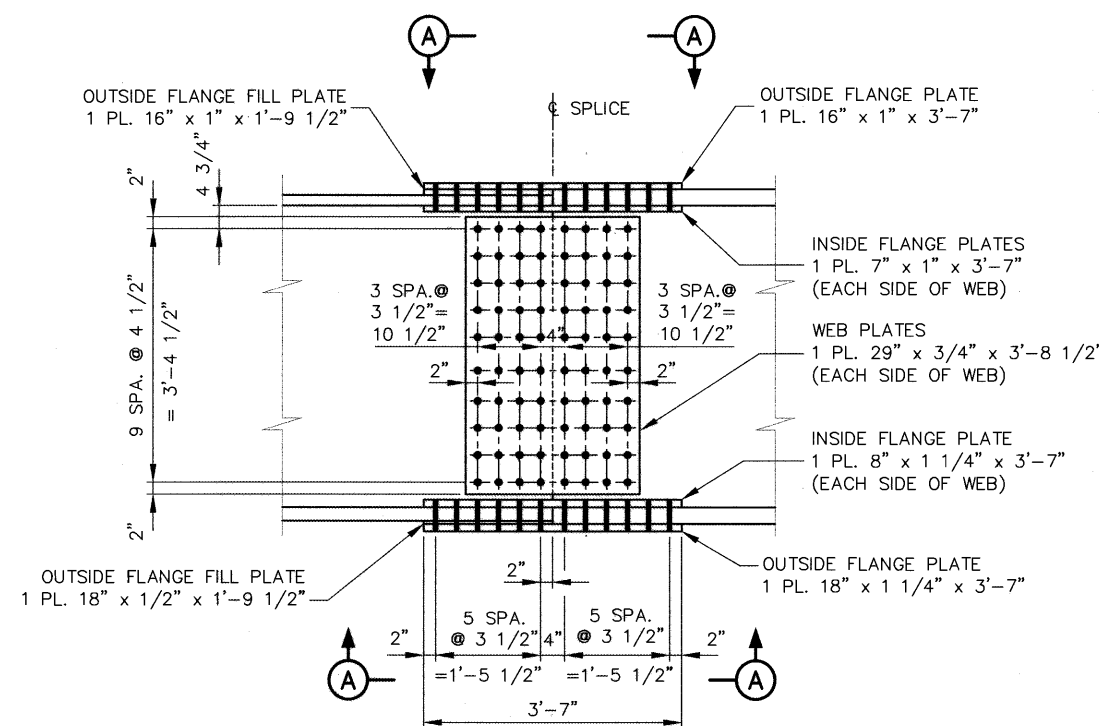
NOTES

- WELDED ATTACHMENT OF CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FACIA STRINGER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION" OR "REVERSAL". FILLET WELDS TO COMPRESSION FLANGES SHALL BE NOT CLOSER THAN 1" FROM EDGE OF FLANGE, BE NOT MORE THAN 2" LONG, AND BE NOT SMALLER THAN THE MINIMUM SIZE REQUIRED BY AWS D1.5.
- WHERE A SHAPE OR PLATE IS DESIGNATED "CVN" THE MATERIAL SHALL MEET REQUIREMENTS OF ODOT C & M SPECIFICATIONS SECTION 711.01 ALL FIELD SPLICE MATERIAL EXCEPT FILL PLATES, SHALL BE "CVN".
- FOR DEFLECTION AND CAMBER TABLE AND LAYDOWN DIAGRAM SEE SHEET 10/16.
- FOR BEARING DETAILS SEE SHEET 11/16.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 YIELD STRENGTH 50 ksi AND ALL FASTENERS SHALL BE ASTM-325 EXCEPT NOTED OTHERWISE.
- INTERMEDIATE STIFFENERS AT CROSSFRAME LOCATIONS SHALL BE PLACED IN PAIRS EXCEPT FOR EXTERIOR GIRDERS.
- FOR SPLICE DETAILS SEE SHEET 9/16.
- SHOP PRIMING OF THE NEW STEEL SHALL BE INCLUDED FOR PAYMENT WITH ITEM 863. FIELD PAINTING OF INTERMEDIATE AND FINISH COATS SHALL BE PAID FOR UNDER ITEM 815.
- ALL GIRDERS ARE PLACED PARALLEL TO THE REFERENCE LINE.
- FOR INTERMEDIATE CROSSFRAME DETAILS AND ADDITIONAL CROSSREFERENCE NOTES, SEE SHEET 13 OF 16.
- FOR ABBREVIATIONS USED HERE SEE STRUCTURAL GENERAL NOTES, SEE SHEET 475.

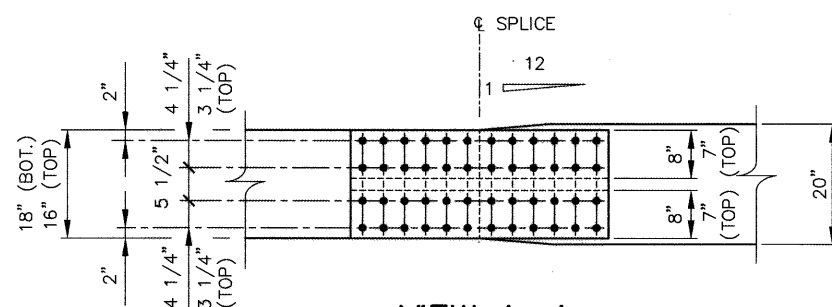


VANDAL FENCE POST AND CRACK CONTROL JOINT LOCATION LAYOUT

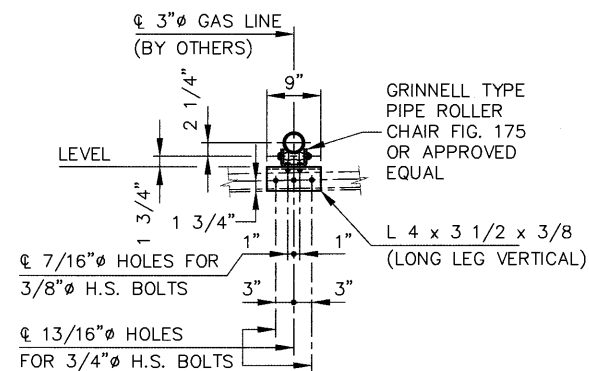
(SPACING GIVEN ALONG CENTERLINE TOP OF CONCRETE BARRIERS)



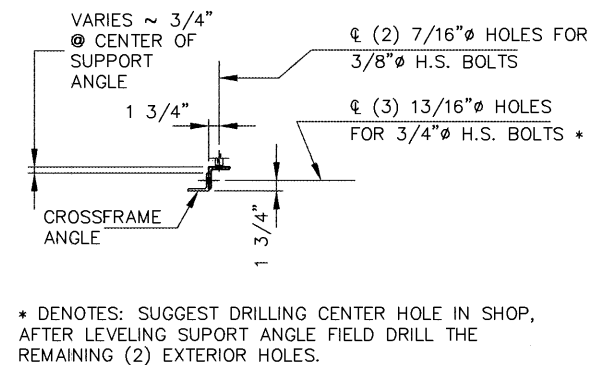
ELEVATION VIEW



VIEW A-A



TRANSVERSE VIEW



SIDE VIEW

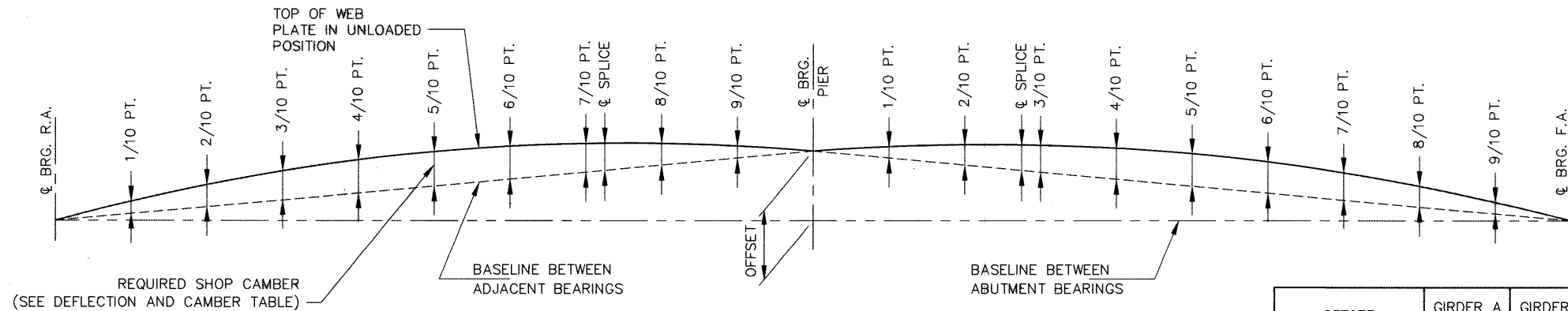
GAS LINE SUPPORT DETAIL

ALL GAS LINE SUPPORTS, LABOR, MATERIALS,
AND INCIDENTALS SHALL BE PAID FOR BY
COLUMBIA GAS OF OHIO

NOTES

- FASTENERS ARE 1" HIGH STRENGTH BOLTS, ASTM A-325, GALVANIZED. THE BOLT HOLES ARE 1 1/16" DIAMETER.
- ALL SHAPES AND PLATES SHALL BE DESIGNATED (CVN), AND SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
- FABRICATION AND ASSEMBLY: GIRDER ENDS AT SPLICES SHALL BE CUT AND FIT AS PER PLAN. THE OPENING BETWEEN GIRDER ENDS AFTER ASSEMBLY SHALL NOT EXCEED 1/4".
- REFER TO GENERAL NOTE SHEET 475 FOR ABBREVIATIONS.

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CAMBER AND LAYDOWN DIAGRAM

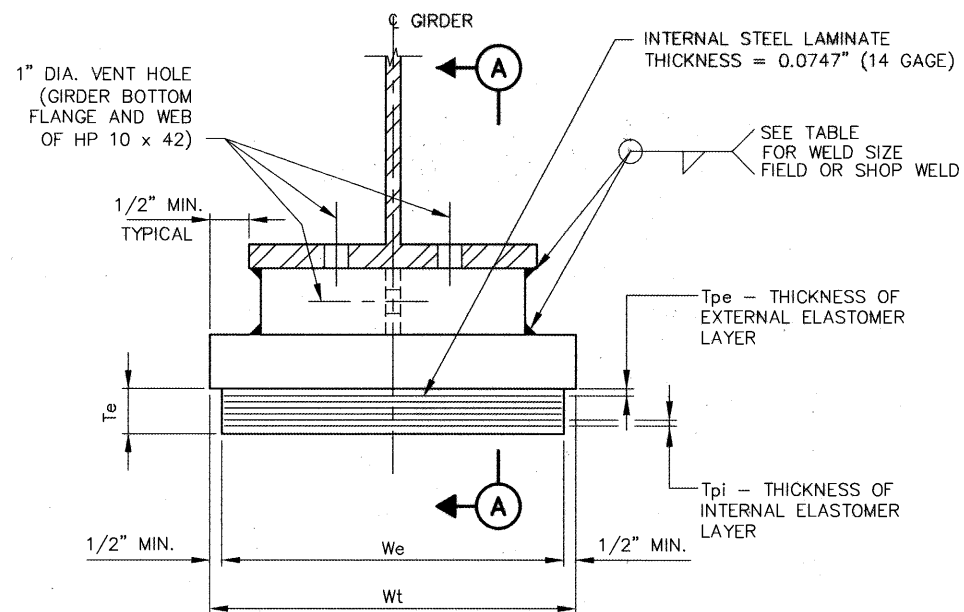
OFFSET (IN INCHES)	GIRDER A	GIRDER B	GIRDER C	GIRDER D	GIRDER E
	6 11/16	6 11/16	6 11/16	6 9/16	6 9/16

DEFLECTION AND CAMBER (DECIMAL OF AN INCH)																					
		SPAN 1										SPAN 2									
GIRDER	POINT DESCRIPTION	1/10	2/10	3/10	4/10	5/10	6/10	7/10	SPLICE	8/10	9/10	1/10	2/10	SPLICE	3/10	4/10	5/10	6/10	7/10	8/10	9/10
TYPICAL ALL GIRDERS	DEFLECTION DUE TO WEIGHT OF STEEL	0.528	0.971	1.266	1.381	1.313	1.088	0.760	0.706	0.412	0.126	0.126	0.412	0.706	0.760	1.088	1.313	1.381	1.266	0.971	0.528
	DEFLECTION DUE TO REMAINING DEAD LOAD	1.240	2.276	2.963	3.224	3.054	2.517	1.746	1.620	0.938	0.285	0.285	0.938	1.620	1.746	2.517	3.054	3.224	2.963	2.276	1.240
	SUB-TOTAL	1.768	3.247	4.229	4.605	4.367	3.605	2.506	2.326	1.350	0.411	0.411	1.350	2.326	2.506	3.605	4.367	4.605	4.229	3.247	1.768
A	ADJUSTMENT REQUIRED FOR VERTICAL & HORIZONTAL CURVE	0.307	0.616	0.923	1.231	1.458	1.512	1.394	1.361	1.103	0.638	0.517	0.860	1.016	1.031	1.025	0.875	0.710	0.541	0.366	0.185
	REQUIRED SHOP CAMBER	2.075	3.863	5.152	5.836	5.825	5.117	3.900	3.687	2.453	1.049	0.928	2.210	3.342	3.537	4.630	5.242	5.315	4.770	3.613	1.953
B	ADJUSTMENT REQUIRED FOR VERTICAL & HORIZONTAL CURVE	0.269	0.538	0.806	1.075	1.314	1.398	1.308	1.278	1.045	0.610	0.553	0.935	1.120	1.140	1.170	1.027	0.832	0.631	0.426	0.215
	REQUIRED SHOP CAMBER	2.037	3.785	5.035	5.680	5.681	4.973	3.814	3.604	2.395	1.021	0.964	2.285	3.446	3.646	4.775	5.394	5.437	4.860	3.673	1.983
C	ADJUSTMENT REQUIRED FOR VERTICAL & HORIZONTAL CURVE	0.232	0.464	0.696	0.929	1.158	1.273	1.214	1.189	0.983	0.578	0.587	1.000	1.214	1.241	1.306	1.192	0.965	0.732	0.493	0.250
	REQUIRED SHOP CAMBER	2.000	3.711	4.925	5.534	5.525	4.878	3.720	3.515	2.333	0.989	0.998	2.350	3.540	3.747	4.911	5.559	5.570	4.961	3.740	2.018
D	ADJUSTMENT REQUIRED FOR VERTICAL & HORIZONTAL CURVE	0.198	0.397	0.595	0.794	0.992	1.136	1.112	1.093	0.914	0.545	0.595	1.018	1.240	1.267	1.343	1.248	1.007	0.748	0.492	0.244
	REQUIRED SHOP CAMBER	1.966	3.644	4.824	5.399	5.359	4.741	3.618	3.419	2.264	0.956	1.006	2.368	3.566	3.773	4.948	5.615	5.612	4.977	3.739	2.012
E	ADJUSTMENT REQUIRED FOR VERTICAL & HORIZONTAL CURVE	0.167	0.335	0.502	0.670	0.836	0.990	1.003	0.989	0.841	0.508	0.625	1.080	1.326	1.358	1.466	1.400	1.168	0.869	0.574	0.284
	REQUIRED SHOP CAMBER	1.935	3.582	4.731	5.275	5.203	4.595	3.509	3.315	2.191	0.919	1.036	2.430	3.652	3.864	5.071	5.767	5.773	5.098	3.821	2.052

TABLE OF SCREED ELEVATIONS																							
LOCATION	SPAN 1											SPAN 2											
	℄ BRG. (R.A.)	1/10	2/10	3/10	4/10	5/10	6/10	7/10	SPLICE	8/10	9/10	℄ BRG. PIER	1/10	2/10	SPLICE	3/10	4/10	5/10	6/10	7/10	8/10	9/10	℄ BRG. (F.A.)
LT. GUTTER LINE	1305.95	1306.10	1306.23	1306.34	1306.41	1306.44	1306.42	1306.37	1306.36	1306.30	1306.23	1306.17	1306.15	1306.14	1306.14	1306.13	1306.10	1306.06	1305.97	1305.84	1305.68	1305.49	1305.29
GIRDER A	1305.96	1306.11	1306.24	1306.35	1306.42	1306.45	1306.43	1306.38	1306.37	1306.31	1306.24	1306.18	1306.16	1306.15	1306.15	1306.15	1306.12	1306.07	1305.98	1305.86	1305.70	1305.51	1305.30
GIRDER B	1306.07	1306.23	1306.36	1306.47	1306.54	1306.57	1306.55	1306.51	1306.50	1306.44	1306.38	1306.33	1306.32	1306.32	1306.31	1306.32	1306.30	1306.24	1306.15	1306.03	1305.87	1305.68	1305.47
GIRDER C	1306.19	1306.34	1306.48	1306.58	1306.64	1306.69	1306.68	1306.64	1306.63	1306.58	1306.52	1306.48	1306.47	1306.47	1306.48	1306.48	1306.47	1306.42	1306.33	1306.21	1306.05	1035.86	1305.65
℄ SURVEY & CROWN	1306.19	1306.34	1306.48	1306.58	1306.64	1306.69	1306.68	1306.64	1306.63	1306.58	1306.52	1306.48	1306.47	1306.47	1306.48	1306.48	1306.47	1306.42	1306.33	1306.21	1306.05	1305.87	1305.66
GIRDER D	1306.04	1306.19	1306.32	1306.43	1306.50	1306.53	1306.53	1306.50	1306.49	1306.44	1306.39	1306.35	1306.35	1306.36	1306.37	1306.37	1306.36	1306.32	1306.24	1306.12	1305.96	1305.77	1305.57
GIRDER E	1305.88	1306.03	1306.17	1306.27	1306.34	1306.38	1306.38	1306.35	1306.34	1306.30	1306.26	1306.22	1306.23	1306.24	1306.26	1306.26	1306.26	1306.22	1306.14	1306.02	1305.86	1305.68	1305.48
RT. GUTTER LINE	1305.87	1306.02	1306.16	1306.26	1306.33	1306.37	1306.37	1306.34	1306.33	1306.29	1306.25	1306.21	1306.22	1306.23	1306.25	1306.25	1306.25	1306.21	1306.13	1306.01	1305.85	1305.66	1305.46

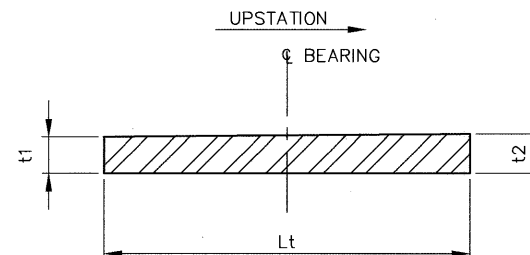
SCREED ELEVATIONS SHOWN ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT.
ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.

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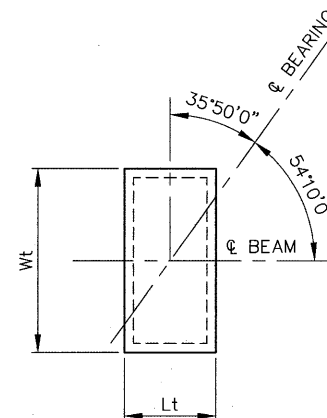


SECTION A-A
LAMINATED ELASTOMERIC
EXPANSION BEARING

BEARING LOCATION	BEARING TYPE	NO. REQ'D.	DEAD LOAD KIPS	LIVE LOAD KIPS	TOTAL LOAD (DL+LL) KIPS	Le	We	Tpi	NO. OF Tpi'S	Tpe (2 EA.)	NUMBER OF INTERNAL LAMINATES (14 GAGE)	Te	STEEL LOAD PLATE				Tt	FILLET WELD SIZE
													Wt	Lt	t1	t2		
REAR ABUTMENT	EXP.	5	179.80	60.65	240.45	16	16	0.33	6	0.24	7	3.79	17	17	2.24	2.00	5.91	5/16
FWD. ABUTMENT	EXP.	5	179.8	60.65	240.45	16	16	0.33	6	0.24	7	3.79	17	17	2.00	2.39	5.99	5/16
PIER	EXP.	5	427.47	123.66	551.13	20	26	0.40	4	0.25	5	2.47	27	21	2.00	2.00	4.47	5/16



DETAIL "A"
STEEL LOAD PLATE



BEARING ORIENTATION PLAN

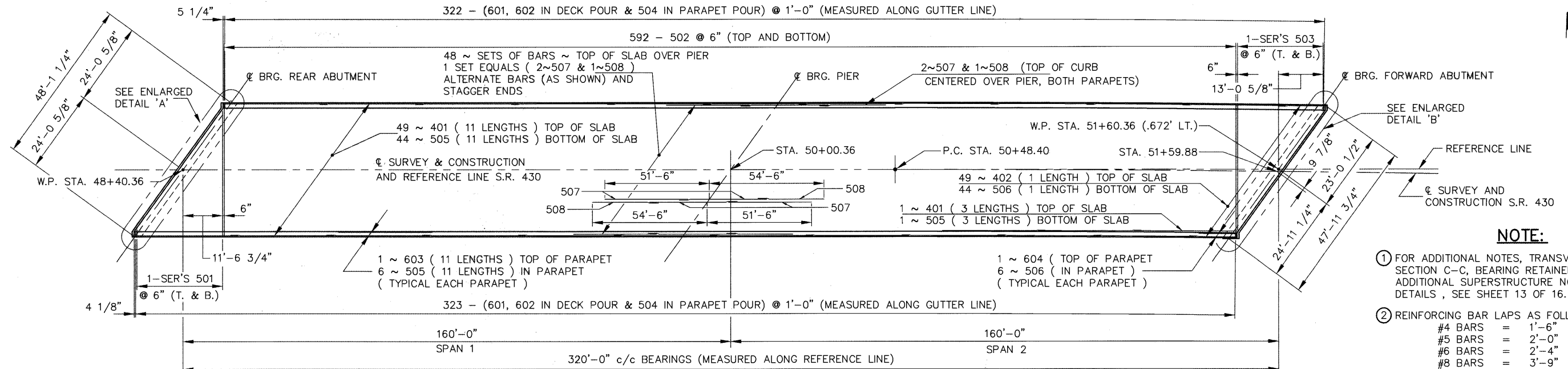
NOTES

- ELASTOMERIC BEARINGS SHALL COMPLY WITH ITEM 516 AND AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, SECTION 18, BEARING DEVICES, DIVISION II, CONSTRUCTION, ARTICLES 18.4.5.1 AND 18.5.6. BEARINGS SHALL BE GRADE 3, 50 DUROMETER ELASTOMER, AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS DEFINED IN ARTICLE 18.7.4.5 OF THE AASHTO DOCUMENT LISTED ABOVE. BEARINGS WERE DESIGNED UNDER SECTION 14.6.6 OF SECTION 14, BEARINGS, DIVISION I, DESIGN. TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARINGS, EACH.
- WELDING SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- BEARING REPOSITIONING: IF THE STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80° F OR LOWER THAN 40° F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60° F (± 10° F), THE BEAMS OR GIRDERS SHALL BE RAISED TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60° F (± 10° F).
- THE STEEL LOAD PLATE SHALL BE ASTM A572 GRADE 50 STEEL.
- THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- TOTAL DESIGN LOAD FOR BEARINGS EQUALS THE SUM OF THE DEAD LOADS AND LIVE LOADS TABULATED IN THE BEARING TABLE.
- ELASTOMER SHALL BE 50 DUROMETER HARDNESS.
- BEARING ANCHOR RODS: AT THE OPTION OF THE CONTRACTOR, THE BEARING ANCHOR RODS (OR FORMED HOLES), LOCATED AND SUPPORTED BY TEMPLATES, MAY BE CAST-IN-PLACE.
- ANCHOR RODS SHALL BE GALVANIZED AS PER O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATION 711.02.
- HP STEEL SHAPE IS INCLUDED WITH ITEM 516 ELASTOMERIC BEARINGS FOR PAYMENT.

THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR, TESTING AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS, EITHER FIXED OR EXISTING, SAMPLE BEARINGS SHALL NOT BE MEASURED FOR PAYMENT.

PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516, EACH, ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE): 16" x 16" x 3.79" WITH 17" x 17" LOAD PLATE, AND 26" x 20" x 2.47" WITH 33.25" x 21" LOAD PLATE.

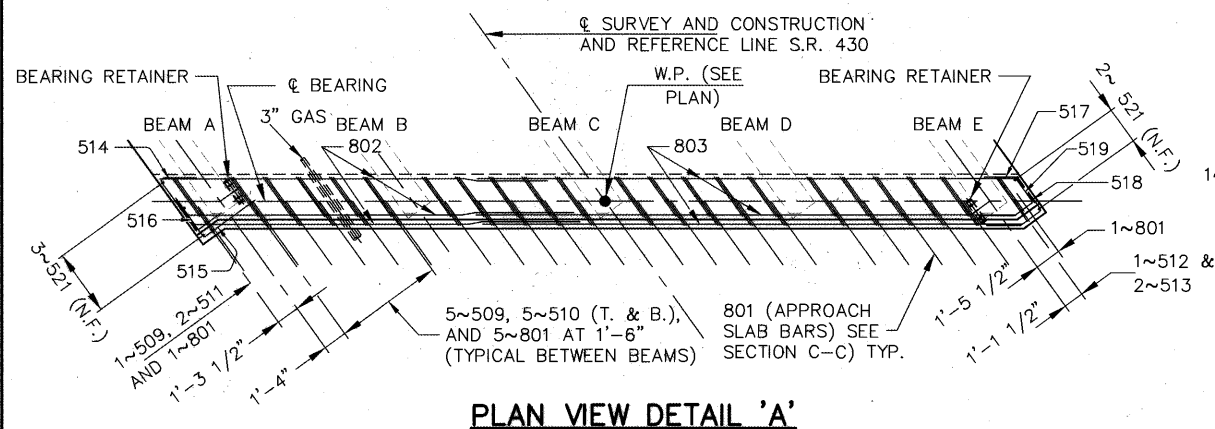
DIMENSION 'X'			
REAR ABUTMENT		FORWARD ABUTMENT	
GIRDER No.	'X'	GIRDER No.	'X'
A	4 1/16	A	3 1/16
B	5 1/2	B	5 3/16
C	6 7/8	C	7 5/16
D	5	D	6 3/8
E	3 3/16	E	5 1/4



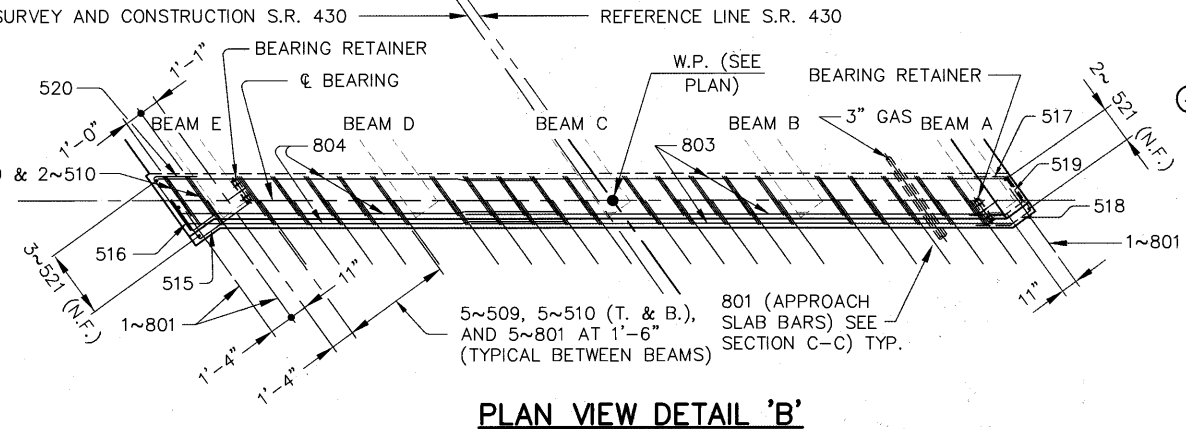
SLAB PLAN

NOTE:

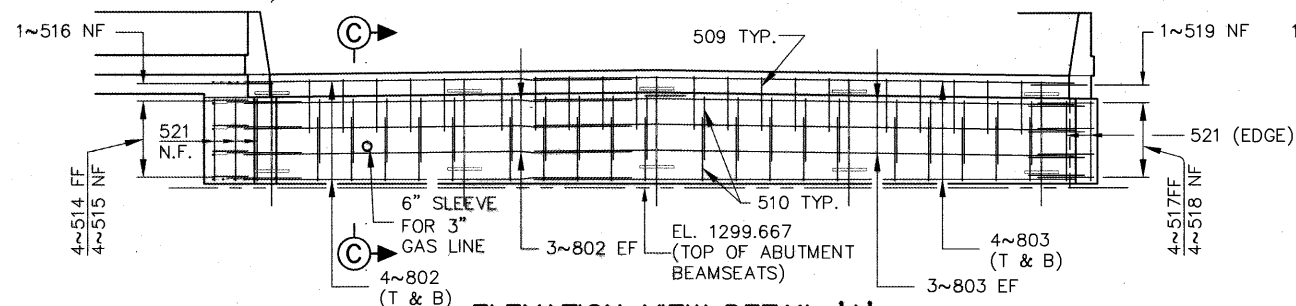
- FOR ADDITIONAL NOTES, TRANSVERSE SECTION, SECTION C-C, BEARING RETAINER DETAILS AND ADDITIONAL SUPERSTRUCTURE NOTES AND DETAILS, SEE SHEET 13 OF 16.
- REINFORCING BAR LAPS AS FOLLOWS:
#4 BARS = 1'-6"
#5 BARS = 2'-0"
#6 BARS = 2'-4"
#8 BARS = 3'-9"
- DIAPHRAGM CONCRETE ENCASE THE STRUCTURAL STEEL MEMBER SECTIONS SUPPORTED IN SEMI-INTEGRAL TYPE ABUTMENTS MAY BE PLACE BEFORE THE ACTUAL DECK CONCRETE IS PLACE. IF THE CONTRACTOR CHOOSES THIS OPTION THE CONCRETE SHALL HAVE HAD AT LEAST 48 HOURS OF SET TIME BEFORE DECK CONCRETE IS PLACED.
- 6" STEEL CASING FOR GAS LINE SHALL BE PROVIDED BY COLUMBIA GAS OF OHIO AND EXTEND FROM THE END DIAPHRAGM TO THE FAR END OF THE APPROACH SLAB ON EACH SIDE OF THE BRIDGE.



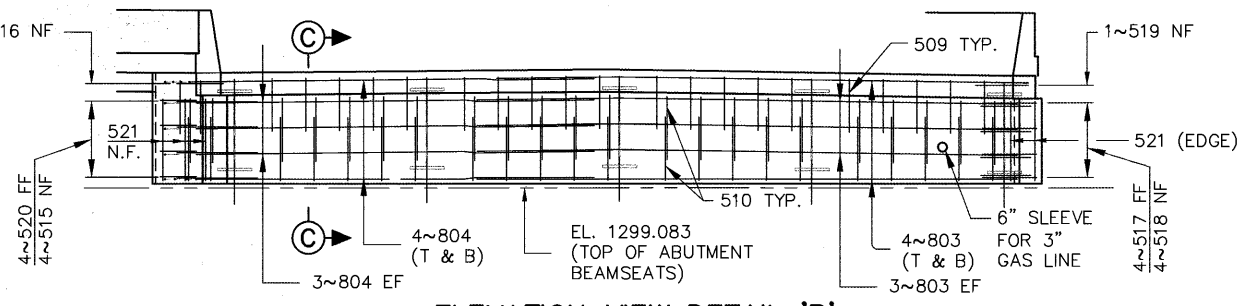
PLAN VIEW DETAIL 'A'



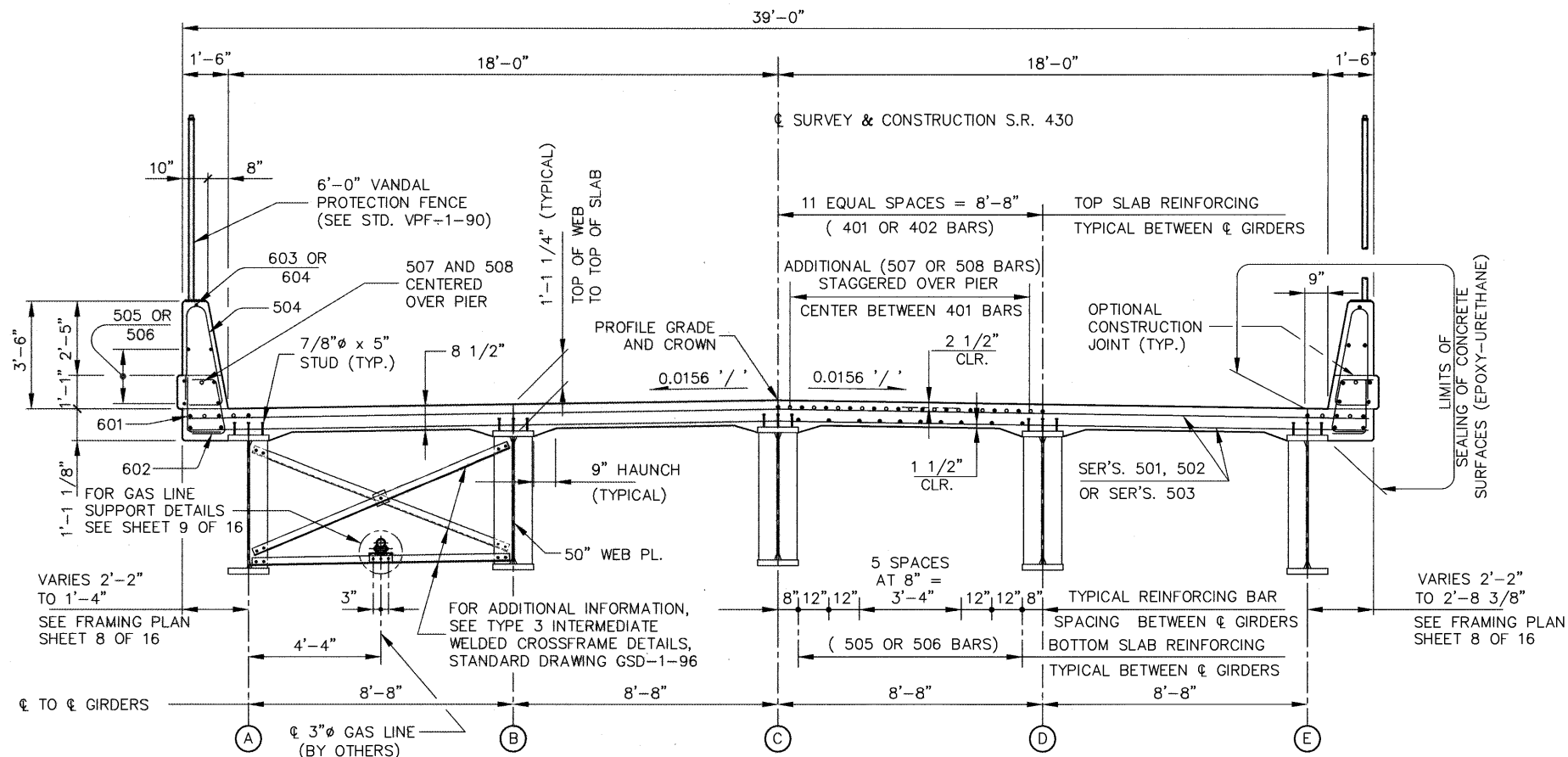
PLAN VIEW DETAIL 'B'



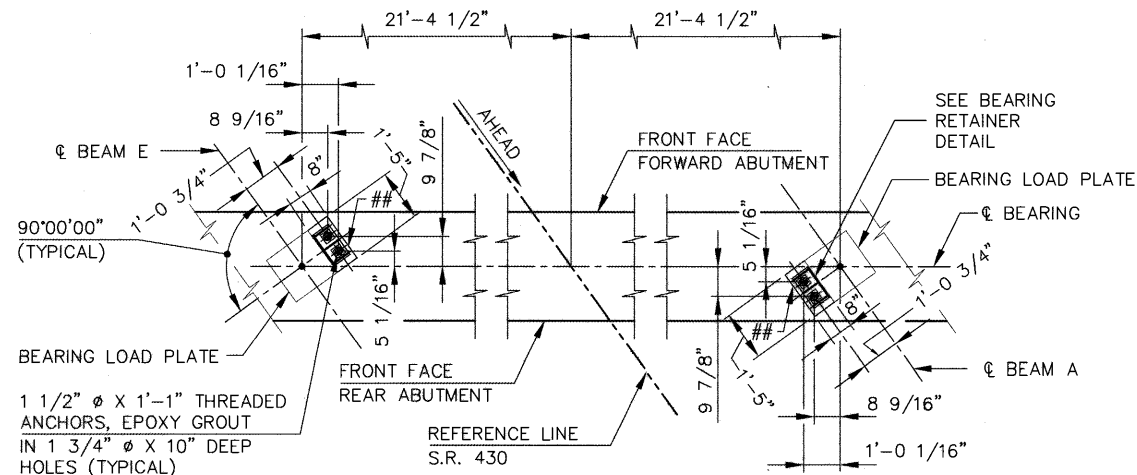
ELEVATION VIEW DETAIL 'A'
ENLARGED DETAIL 'A'



ELEVATION VIEW DETAIL 'B'
ENLARGED DETAIL 'B'



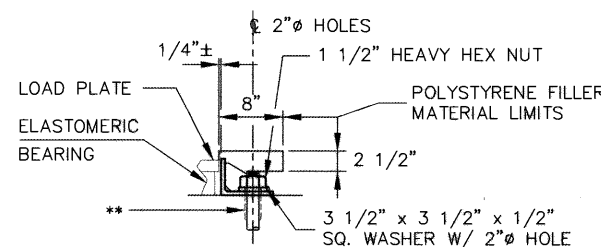
TRANSVERSE SECTION



TYPICAL BEARING RETAINER LOCATION PLAN

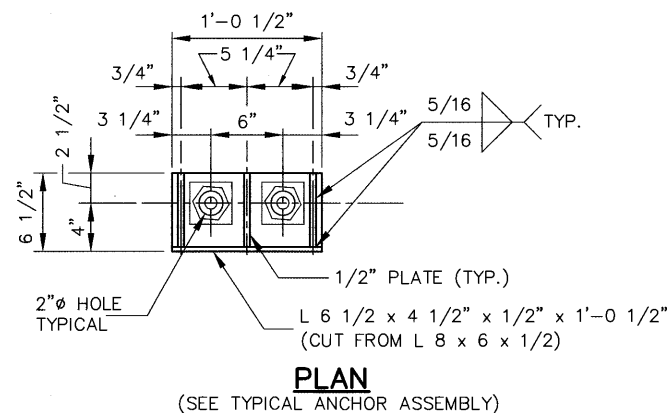
BEARING RETAINERS TO BE INCLUDED WITH ITEM 516 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN FOR PAYMENT.

DENOTES LIMITS OF POLYSTYRENE FILLER MATERIAL, WORK WITH TYPICAL ANCHOR ASSEMBLY DETAIL FOR ADDITIONAL INFORMATION.



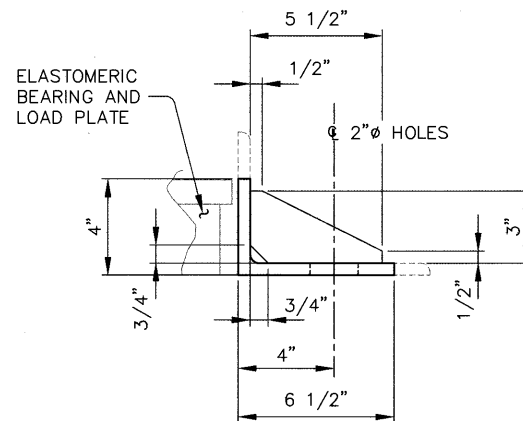
TYPICAL ANCHOR ASSEMBLY

** WHEN FIELD DRILLING, GROUT WITH EPOXY NONSHRINKING GROUT IN 2" x 10" DEEP HOLES

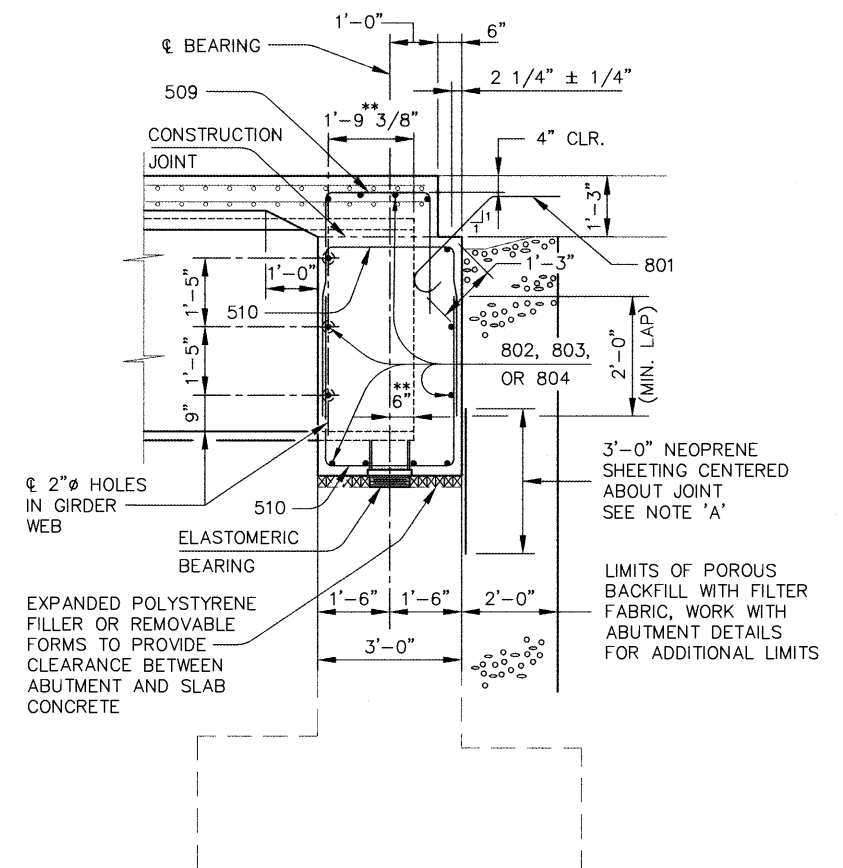


PLAN

(SEE TYPICAL ANCHOR ASSEMBLY)



TYPICAL CROSS SECTION BEARING RETAINER DETAIL



SECTION C-C

** DENOTES DIMENSION GIVEN ALONG G GIRDER
NOTE 'A': FOR ADDITIONAL INFORMATION SEE STRUCTURAL GENERAL NOTES, ITEM 842, CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN.

NOTES:

DECK SLAB DEPTH: THE DISTANCE SHOWN FROM THE TOP OF THE DECK SLAB TO THE BOTTOM OF THE TOP FLANGE IS THE THEORETICAL DESIGN DIMENSION INCLUDING THE DESIGN HAUNCH THICKNESS OF 2" MIN. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, MINUS THE DESIGN HAUNCH THICKNESS, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER SS 842.18.

A HAUNCH WIDTH OF 9 INCHES SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6 AND 12 INCHES.

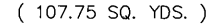
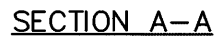
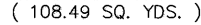
REINFORCING STEEL: NEW REINFORCING STEEL MAY REQUIRED FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED IN ITEM 844 HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK).

FOR TABLE OF SCREED ELEVATIONS, DEFLECTION AND CAMBER, AND LAYOUT DIAGRAMS SEE SHEET 10 OF 16.

BEARING RETAINERS SHALL BE INCLUDED WITH ITEM 516 ELASTOMERIC BEARINGS FOR PAYMENT. FOR ADDITIONAL BEARING DETAILS SEE SHEET 11 OF 16.

FOR LOCATION OF SECTION C-C, SEE SHEET 12 OF 16.

FOR ADDITIONAL NOTES SEE STRUCTURAL GENERAL NOTES, SEE SHEETS 473, 474 AND 475.

TABLE I

FOR REINFORCING STEEL AND OTHER APPROACH SLAB DESIGN SPECIFICATIONS AND DETAILS, NOT SHOWN HERE, SEE O.D.O.T. STANDARD DRAWING AS-1-81.

REINFORCING SCHEDULE

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
REAR-ABUTMENT									
1 A 501	56	7- 8	ST						448
1 A 502	16	26- 0	ST						434
1 A 503	5	4-11	12	2- 6	2- 6	1- 8			26
1 A 504	5	6- 1	16	2- 6	1- 3	1- 8	2- 6		32
1 A 505	11	12- 4	ST						142
1 A 506	26	11- 7	ST						314
1 A 507	1	13- 5	ST						14
1 A 508	2	10-10	12	8- 4	2- 6	0- 9			23
1 A 509	1	16-11	ST						18
1 A 510	1	18- 0	ST						19
1 A 511	3	20- 4	ST						64
1 A 512	3	21- 2	ST						66
1 A 513	42	5- 7	18	1- 2	2- 5	2- 3	0- 2		245
1 A 514	12	11-10	ST						148
1 A 515	2	10- 8	12	8- 2	2- 6	0- 9			22
1 A 516	2	16- 4	ST						34
1 A 517	6	19-11	ST						125
1 A 518	1	5-10	18	1- 5	2- 5	2- 3	0- 2		6
1 A 601	90	9- 0	7	7- 8					1217
1 A 602	28	28- 0	ST						1178
1 A 603	48	15- 4	2	6- 6	2- 8				1105
1 A 604	2	8- 4	1	6- 6	2- 0				25
1 A 605	22	6- 2	6	5- 6					204
SERIES OF 1 A 606	1-SET OF 8- 8 BAR	7- 0 TO 11- 6	2	3- 1 TO 5- 4	1- 2			11 0- 7-- 16	111
1 A 607	24	14- 9	ST						532
1 A 608	4	7- 9	ST						47
1 A 609	48	10- 8	2	4- 8	2- 8				841
1 A 610	2	6- 8	1	4- 8	2- 8				22
SERIES OF 1 A 611	1-SET OF 8- 8 BAR	6-10 TO 11- 4	2	3- 0 TO 5- 3	1- 2			11 0- 7-- 16	109
1 A 701	27	7- 9	1	6- 5	1- 6				428
1 A 702	27	11-10	ST						653
1 A 801	8	29- 0	ST						619
				TOTAL		ABUTMENT 1 -			9271

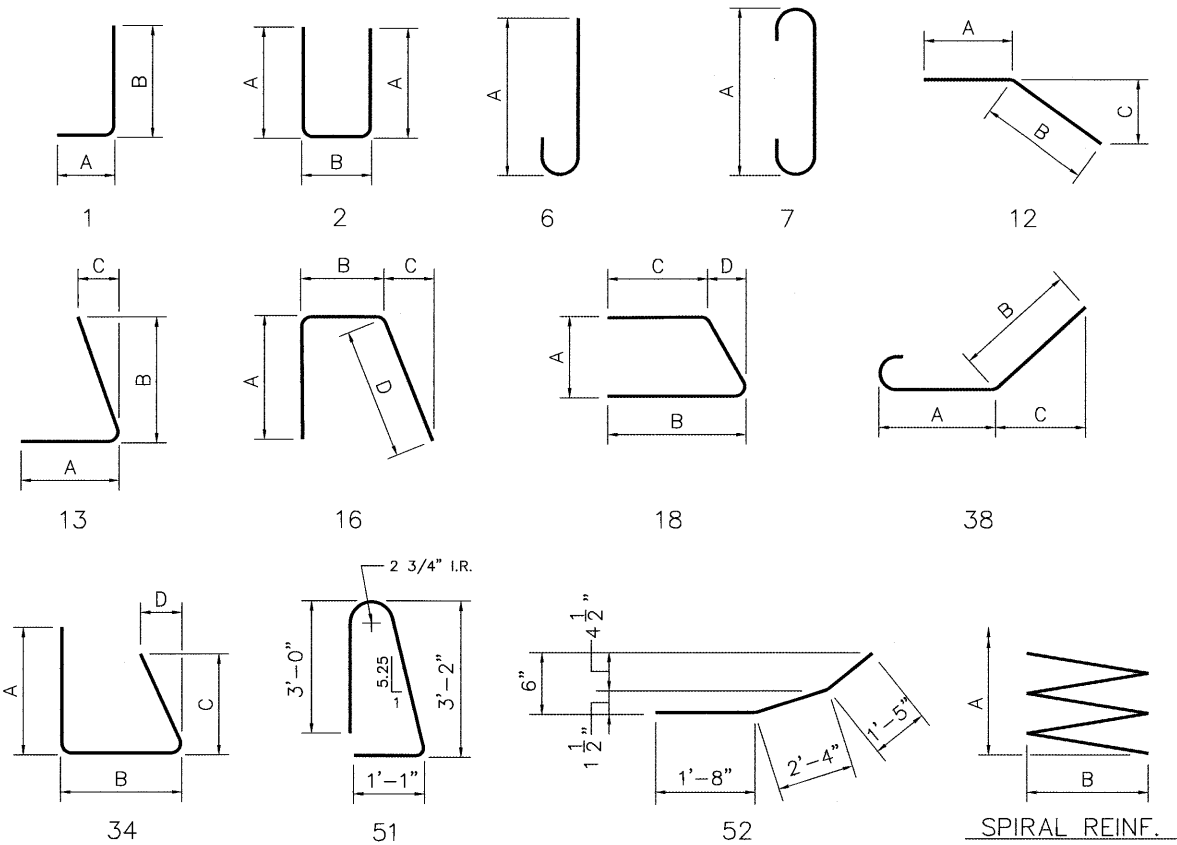
ABUTMENT REINFORCING STEEL SHALL BE INCLUDED IN THE PRICE BID PER ITEM 842 - CLASS C CONCRETE. ABUTMENT INCLUDED FOOTING, AS PER PLAN FOR PAYMENT

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
FORWARD—ABUTMENT									
2 A 501	55	7- 8	ST						440
2 A 502	16	26- 0	ST						434
2 A 503	5	4-11	12	2- 6	2- 6	1- 8			26
2 A 504	5	6- 1	16	2- 6	1- 3	1- 8	2- 6		32
2 A 505	11	12- 4	ST						142
2 A 506	26	11- 6	ST						312
2 A 507	1	13- 4	1	13- 5					14
2 A 508	2	10-10	12	8- 4	2- 6	0- 9			23
2 A 509	1	16-11	ST						18
2 A 510	1	18- 0	ST						19
2 A 511	3	20- 4	ST						64
2 A 512	3	21- 2	ST						66
2 A 513	42	5- 7	18	1- 2	2- 5	2- 3	0- 2		245
2 A 514	12	12- 0	ST						150
2 A 515	2	10-10	12	8- 4	2- 6	0- 9			23
2 A 516	2	16- 9	ST						35
2 A 517	6	20- 0	ST						125
2 A 518	1	5-10	18	1- 5	2- 5	2- 3	0- 2		6
2 A 601	89	9- 0	7	7- 8					1203
2 A 602	28	27- 9	ST						1167
2 A 603	48	15- 4	2	6- 6	2- 8				1105
2 A 604	2	8- 4	1	6- 6	2- 0				25
2 A 605	22	6- 2	6	5- 6					204
SERIES OF 2 A 606	1-SET OF 8- 8 BAR	7- 0 TO 11- 6	2	3- 1 TO 5- 4	1- 2			11 0- 7-- 16	111
2 A 607	24	14- 9	ST						532
2 A 608	4	7- 9	ST						47
2 A 609	48	10- 8	2	4- 2	2- 8				769
2 A 610	2	6- 8	1	4- 2	2- 8				20
SERIES OF 2 A 611	1-SET OF 8- 8 BAR	7- 0 TO 11- 0	2	3- 1 TO 5- 1	1- 2			7 0- 6-- 8	108
2 A 701	27	7- 9	1	6- 5	1- 6				428
2 A 702	27	11- 9	ST						648
2 A 801	8	29- 0	ST						619
				TOTAL		ABUTMENT 2 -			9160

NOTES

- ① ALL REINFORCING STEEL SHALL BE EPOXY-COATED.
- ② REINFORCING SAMPLES
- REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL. SPLICED IN ACCORDANCE WITH 509.08.

BAR BENDING DIAGRAMS



REINFORCING SCHEDULE

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
PIER									
P 401	12	4- 4	2	0- 8	3- 2				35
P 501	20	24- 1	ST						502
P 502	54	9- 3	2	3- 2	3- 2				521
P 503	72	8- 5	2	3- 2	2- 4				632
P 504	10	8-11	2	3- 0	3- 2				93
P 601	56	7- 0	7	5- 8					589
P 602	12	4- 3	1	2- 0	2- 5				77
P 603	6	8- 3	2	2- 4	3-11				74
P 801	56	7- 6	7	5- 8					1121
P 901	8	19- 1	ST						519
P 902	8	33- 4	ST						907
P 903	10	30- 5	1	4- 7	26- 1				1034
P 904	8	25- 9	ST						700
P1001	32	10- 3	1	9- 1	1- 6				1411
P1002	32	21- 7	ST						2972
P1003	12	4- 1	1	2- 0	2- 5				211
TOTAL				PIER -				11398	

MARK	No. REQD.	LENGTH	CORE DIAM.	PITCH INS.	WEIGHT LBS.
SPIRAL PIER (SEE NOTE A)					
SP401	4	17- 9	2- 6	4.5	1212
TOTAL SPIRAL PIER -					1212

PIER REINFORCING STEEL SHALL BE INCLUDED IN THE PRICE BID PER ITEM 842 - CLASS C CONCRETE, PIER, AS PER PLAN FOR PAYMENT

NOTE A

THREE ANGLE SPACERS WEIGHING APPROX. .80 LBS. PER LINEAL FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF EACH COIL. THE NUMBER OF POUNDS OF THESE SPACERS WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED SPIRAL WEIGHT.

THE LENGTH SHOWN IN THE STEEL SCHEDULE FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE TOP OF THE COLUMN INCLUDING THREE (3) CLOSED COILS (ONE AND ONE HALF CLOSED COILS AT THE ENDS FOR EACH SPIRAL UNIT).

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
SUPERSTRUCTURE									
S 401	542	30- 0	ST						10862
S 402	49	8- 6	ST						278
SERIES OF S 501	2-SETS OF 51- 102 BAR	1- 9 TO 36- 5	ST					5 0- 8-- 16	2030
S 502	1184	38- 6	ST						47544
SERIES OF S 503	2-SETS OF 51- 102 BAR	36- 5 TO 1- 6	ST					3 0- 8-- 8	2017
S 504	645	7- 5	51						4989
S 505	619	30- 0	ST						19369
S 506	56	14- 0	ST						818
S 507	100	40- 0	ST						4172
S 508	50	31- 0	ST						1617
S 509	43	8- 3	2	2- 11	2- 8				370
S 510	84	10- 0	2	3- 6	3- 3				876
S 511	2	10- 5	2	3- 6	3- 8				22
S 512	1	7- 11	2	2- 11	2- 4				8
S 513	2	9- 9	2	3- 6	3- 0				20
S 514	4	5- 8	13	2- 2	3- 0	2- 2			24
S 515	8	6- 1	1	3- 6	2- 8				51
S 516	2	3- 8	1	1- 8	2- 1				8
S 517	8	3- 5	12	1- 9	1- 9	1- 5			29
S 518	8	5- 4	16	2- 3	1- 3	1- 8	2- 0		45
S 519	2	4- 9	16	1- 8	1- 3	1- 8	2- 0		10
S 520	4	6- 0	13	2- 6	3- 0	2- 2			25
S 521	10	4- 7	ST						48
S 601	645	2- 8	1	1- 1	1- 9				2583
S 602	645	3- 7	18	1- 9	1- 1	1- 1	0- 4		3471
S 603	22	30- 0	ST						991
S 604	2	18- 0	ST						54
S 801	45	4- 9	38	2- 5	1- 6	1- 1			571
S 802	14	21- 6	ST						804
S 803	28	30- 0	ST						2243
S 804	14	20- 9	ST						776
				TOTAL SUPERSTRUCTURE -				106725	

SUPERSTRUCTURE REINFORCING STEEL SHALL BE INCLUDED IN THE PRICE BID PER ITEM 844 - HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK), AS PER PLAN FOR PAYMENT

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
APPROACH SLAB (BARRIER REINFORCING)									
501	20	5- 8	ST						118
502	12	5- 8	52						71
503	32	10- 0	ST						334
504	6	10-11	ST						68
505	6	13-10	ST						87
506	6	13- 6	ST						84
507	6	10- 8	ST						67
508	46	7- 5	51						356
601	4	6-11	2	3- 4	0- 7				42
602	16	7- 2	2	3- 4	0-10				172
SERIES OF 603	4-SETS OF 11- 44 BAR	7- 2 TO 9- 3	34	3- 4 TO 4- 1	0-10 TO 1- 1	3- 4 TO 4- 1	0- 0 TO 0-10	1 2-- 2	542
604	46	2- 7	1	0-11	1-10				178
605	46	3- 6	18	1-10	1- 1	0-11	0- 4		242
606	1	11- 2	12	9- 3	1-11	0- 2			17
607	1	14- 1	12	12- 2	1-11	0- 2			21
608	1	13- 9	12	11-10	1-11	0- 2			21
609	1	10-11	12	9- 0	1-11	0- 2			16
TOTAL								-	2436

APPROACH SLAB (BARRIER REINFORCING) STEEL SHALL BE INCLUDED IN THE PRICE BID PER SQ.YD. APPROACH SLAB FOR PAYMENT

NOTES

REBAR DIMENSIONS SHOWN FOR INFORMATION PURPOSES ONLY. IF THE REINFORCING STEEL LIST IS USED, IT SHALL BE VERIFIED BY THE CONTRACTOR. ANY REVISIONS IN THE REINFORCING STEEL LIST SHALL NOT BE A REASON FOR ADJUSTMENT OF THE BID PRICE FOR STRUCTURAL CONCRETE.

FOR ADDITIONAL REINFORCING, NOTES AND BAR BENDING DIAGRAMS, SEE REINFORCING SCHEDULE DRAWING SHEET 15 OF 16.